

Data Analysis for Drug Repurposing for Effective Alzheimer's Medicines – Methotrexate vs Hydroxychloroquine

NCT04691505

December 30, 2020

1. Comparison Details

a. Intended aim(s)

To evaluate the comparative risk of dementia onset between patients treated with methotrexate versus hydroxychloroquine for rheumatoid arthritis.

b. Primary endpoint

Incident dementia (i.e., Alzheimer's disease, vascular dementia, senile, presenile, or unspecified dementia, or dementia in other diseases classified elsewhere).

2. Person responsible for implementation of replication in Action

Mufaddal Mahesri

3. Data Source(s)

Medicare, 2007-2017

4. Study Design Diagrams

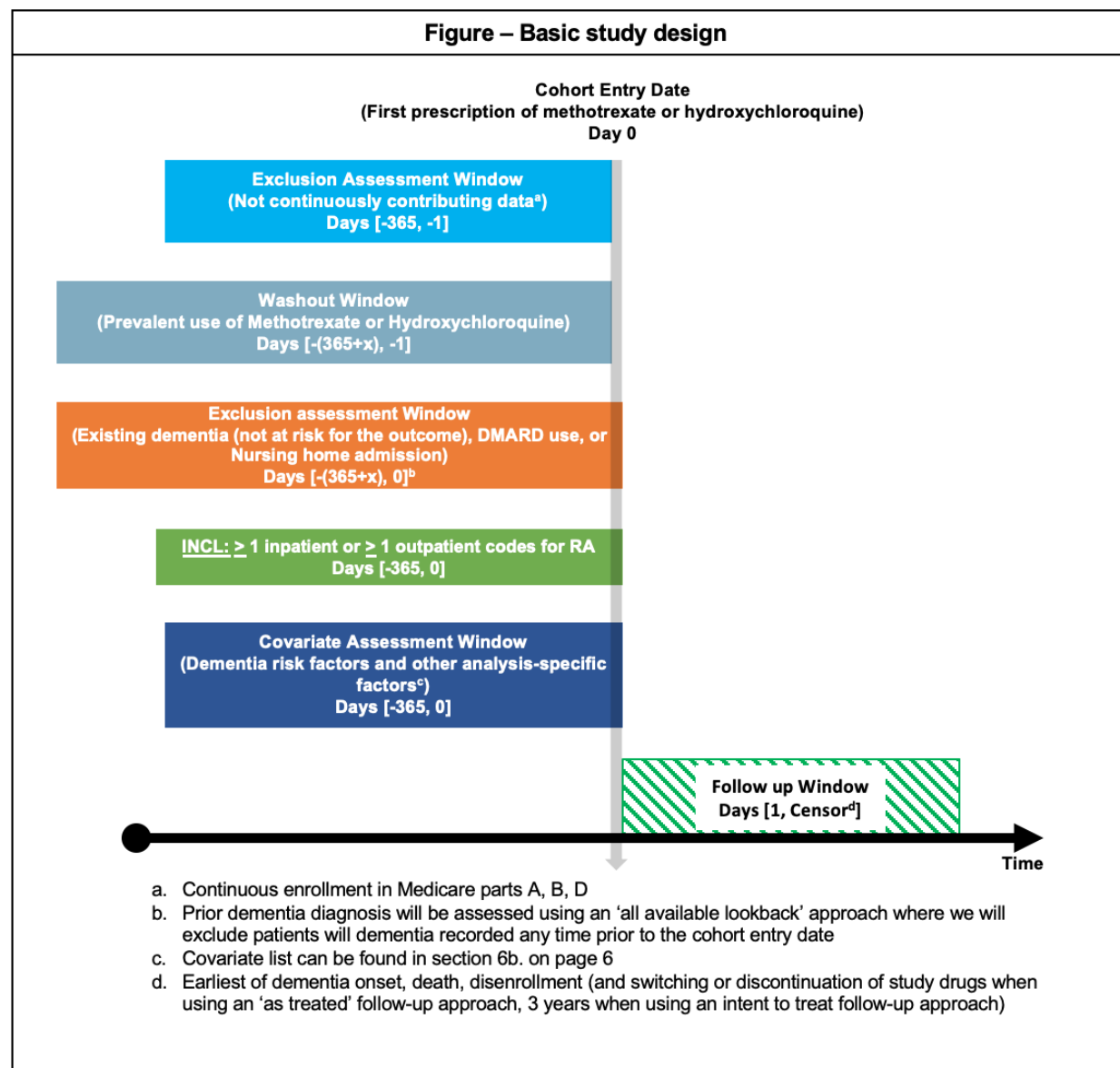
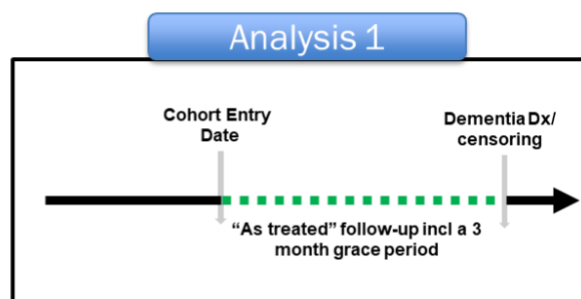


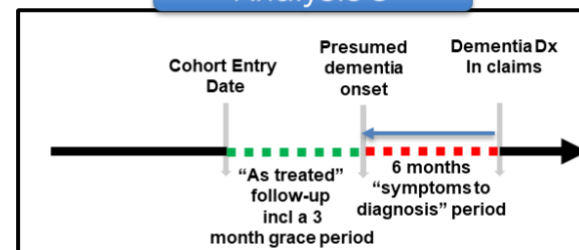
Figure- Alternate analysis approaches

■ ■ ■ ■ ■ Included person-time
■ ■ ■ ■ ■ Excluded person-time

Provides 'on treatment' estimates for the outcome risk and addresses exposure person-time misclassification



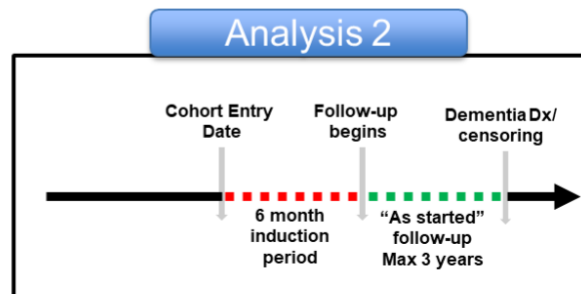
Analysis 3



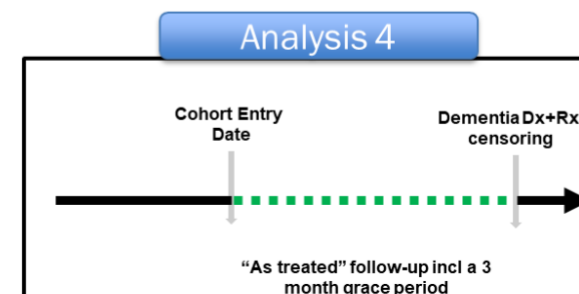
Addresses misclassification of outcome onset

Analysis 2

Addresses reverse causation due to preferential treatment initiation related to unrecorded cognitive impairment at study start and informative-censoring



Analysis 4



Addresses outcome misclassification

5. Cohort Identification

a. Cohort Summary

This study will employ a new user, active comparator, observational cohort study design comparing methotrexate to hydroxychloroquine. The patients will be required to have continuous enrollment during the baseline period of 365 days before initiation of methotrexate or hydroxychloroquine (index date). Follow-up for the outcome (dementia) differs between analyses. Follow-up begins the day after drug initiation (analysis 1, 3, 4); 180 days after drug initiation (analysis 2).

b. Key details regarding cohort creation

Index date:

- Day of initiation of new methotrexate or hydroxychloroquine use

Inclusion criteria for analyses 1, 3, 4:

- 365 days enrollment in Medicare Parts A, B, and D with no HMO coverage prior to index date
- No use of methotrexate or hydroxychloroquine any time prior to index date (all available lookback approach with a minimum of 365 days)
- No diagnosis of dementia any time prior to and including index date
- At least one inpatient or one outpatient claim with rheumatoid arthritis diagnosis recorded in 365 days prior to and including index date
- No history of nursing home admission recorded in 365 days prior to and including index date
- No use of any DMARDs any time prior to and including index date

Inclusion criteria for analysis 2:

- 365 days enrollment in Medicare Parts A, B, and D with no HMO coverage prior to index date
- No use of tofacitinib or abatacept any time prior to index date (all available lookback approach with a minimum of 365 days)
- No diagnosis of dementia any time prior to and including index date
- At least one inpatient or one outpatient claim with rheumatoid arthritis diagnosis recorded in 365 days prior to and including index date
- 180-day continuous use of tofacitinib or abatacept starting on the index date
- No history of nursing home admission recorded in 365 days prior to and including index date
- No use of any DMARDs any time prior to and including index date

c. Flowchart of the study cohort assembly

	Less Excluded Patients	Remaining Patients
All patients		7,964,044
Did not meet cohort entry criteria	-7,082,612	881,432
Excluded due to insufficient enrollment	-334,379	547,053
Excluded due to prior use of referent	-157,248	389,805
Excluded due to prior use of exposure	-232,714	157,091
Excluded because patient qualified in >1 exposure category	-259	156,832
Excluded based on Dementia Exclusion	-3,864	152,968
Excluded based on RA Diagnosis	-8,284	144,684
Excluded based on Nursing Home Admission	-1,513	143,171
Excluded based on DMARD use (all DMARDs)	-8,681	134,490
Excluded because patient did not begin follow-up	-937	133,553
Patients in methotrexate group		74,719
Patients in hydroxychloroquine group		58,834
Final cohort		133,553

6. Variables

a. Exposure-related variables:

Study drug:

The study exposure of interest is initiation of methotrexate

Comparator:

Initiators of methotrexate will be compared to initiators of hydroxychloroquine

b. Covariates:

Demographics	
Age	Region
Gender	Calendar year of index date
Race	Low income subsidy

Dementia risk factors	
Diabetes	Depression
Obesity	Anxiety
Hypertension	Bipolar disorder
Coronary artery disease	Schizophrenia

Markers for healthy behavior, frailty, healthcare use	
Smoking	Number of hospitalizations
Mammography	Number of physician office visits
Colonoscopy	Number of serum creatinine tests ordered
Fecal occult blood test	Composite frailty score
Influenza vaccination	Number of rheumatologist visits
Pneumococcal vaccination	Number of C-reactive protein tests ordered
Herpes zoster vaccination	Osteoporosis

Bone mineral density test	Fractures
Number of distinct generic agents	Falls
Number of emergency room visits	Use of supplemental oxygen
Number of outpatient visits	Combined comorbidity score

Comedication use	
Lithium	Angiotensin II receptor blockers
Anti-epileptic mood stabilizers	Angiotensin converting enzyme inhibitors
Anti-epileptics (other than mood stabilizers)	Beta blockers
Atypical antipsychotics	Calcium channel blockers
Benzodiazepines	Diuretics
Serotonin-norepinephrine reuptake Inhibitors	Nitrates
Selective serotonin reuptake inhibitors	Lipid lowering drugs
Tricyclic antidepressants (TCAs)	Non-insulin diabetes medications
Typical antipsychotics	Insulin
Anticoagulants	Antidepressants
Antiplatelet agents	

Rheumatoid arthritis related factors	
NSAIDs / coxibs	Glucocorticoid dose
Opioids	

Comorbid conditions	
Atrial fibrillation	Renal dysfunction
Coronary artery disease	Chronic liver disease
Heart failure	Asthma
Stroke or transient ischemic attack	Ischemic heart disease
Peripheral vascular disease	Chronic obstructive pulmonary disease
Hypertension	Malignancy
Diabetes	Drug or alcohol abuse or dependence
Hyperlipidemia	Venous thromboembolism

ICD-9, ICD-10, HCPCS, and NDC codes used to define the covariates listed above are available in Appendix A.

c. Outcome variables and study follow-up:

- **Primary outcome:** incident dementia, i.e., Alzheimer's disease, vascular dementia, senile, presenile, or unspecified dementia, or dementia in other diseases classified elsewhere. Outcome will be defined by 1 inpatient claim or 2 outpatient claims in analysis 1, 2, 3. In analysis 4, the outcome will be defined by 1 inpatient or 1 outpatient claims and 1 prescription claim for a symptomatic treatment [donepezil, galantamine, rivastigmine, and memantine] within 6 months of each other with outcome date assigned to second event in the sequence.
- Secondary outcomes: Individual component:
Alzheimer's disease

Condition	ICD-9 and ICD-10 codes
Alzheimer's disease	331.0*, F00*, G30*
Vascular dementia	290.4*, F01*
Senile, presenile, or unspecified dementia	290.0*, 290.1*, 290.3*, 797*, F03*
Dementia in other diseases classified elsewhere	331.1*, 331.2*, 331.7*, 294.1*, F02*

For analysis 1,3, and 4 the follow-up will start the day after initiation of methotrexate and hydroxychloroquine and will continue until the earliest date of the following events:

- The first occurrence of the outcome of interest
- The date of end of continuous registration in the database,
- End of the study period,
- Measured death event occurs,
- The date of drug discontinuation, defined as the date of the last continuous treatment episode of the index drug (methotrexate and hydroxychloroquine) plus a defined grace period (i.e., 90 days after the end of the last prescription's days' supply in main analyses).

For analysis 2, the follow-up will start 180 days after initiation of methotrexate and hydroxychloroquine and will continue until the earliest date of the following events:

- The first occurrence of the outcome of interest, unless otherwise specified for selected outcomes,
- The date of end of continuous registration in the database,
- End of the study period,
- Measured death event occurs,
- Maximum allowed follow-up time (1095 days) reached

7. Feasibility counts

Analysis scheme	Total methotrexate / hydroxychloroquine initiators	N outcome	Dementia Rate per 1,000 person-years (95% CI)	Follow-up time in days; Median [IQR]
1: As treated	74,719 (60.5%)	2,875	14.55 (14.02, 15.08)	237 [83, 741]
	58,834 (39.5%)			
2: 6 mo induction period, 'as started'	45,480 (58.3%)	3,313	18.87 (18.23, 19.51)	1,095 [573, 1,095]
	32,530 (41.7%)			
3: exclude 6 mo follow-up (symptoms to claims period)	44,240 (58.3%)	2,442	16.47 (15.83)	458 [146, 1,028]
	31,645 (41.7%)			
4: Outcome Dx + Rx	74,719 (60.5%)	1,102	5.53 (5.20, 5.85)	239 [83, 747]
	58,834 (39.5%)			

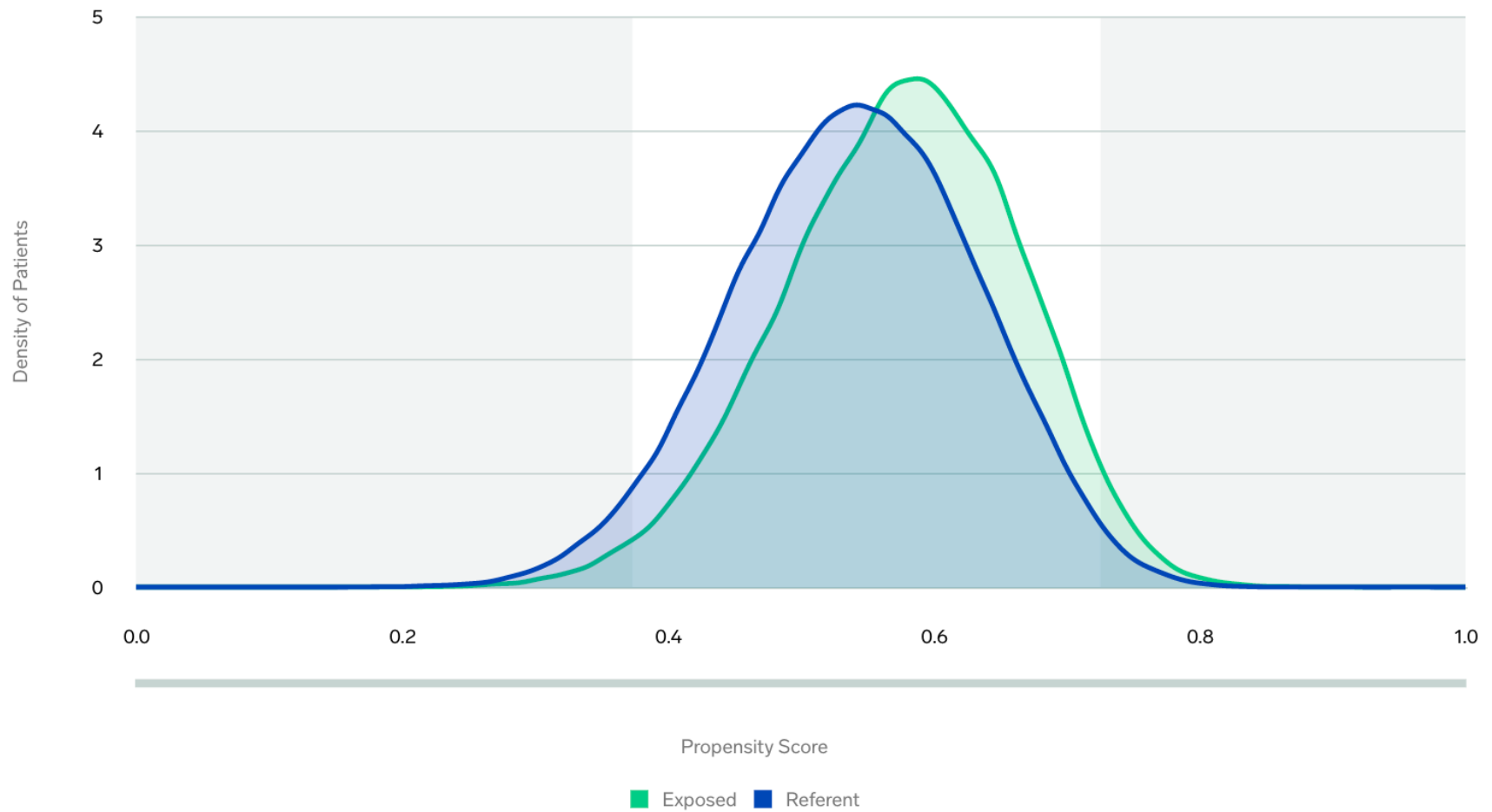
8. Propensity score analysis

We will use a propensity-score (PS)¹-based approach to account for measured confounding in this study. The PS will be calculated as the predicted probability of initiating the exposure of interest (i.e., the repurposing candidate) versus the reference drug conditional on baseline covariates using multivariable logistic regression constructed separately in each data source. On average, patients with similar PSs have similar distribution of potential confounders used to estimate the PS. Therefore, analyses conditioned on the PS provide effect estimates that are free from measured confounding. For all our analyses, initiators of each exposure of interest will be matched with initiators of the reference exposure based on their PS within each data source.² Pair matching will be conducted using a nearest-neighbor algorithm, which seeks to minimize the distance between propensity scores in each pair of treated and reference patients,³ and a caliper of 0.025 on the natural scale of the PS will be used to ensure similarity between the matched patients.⁴

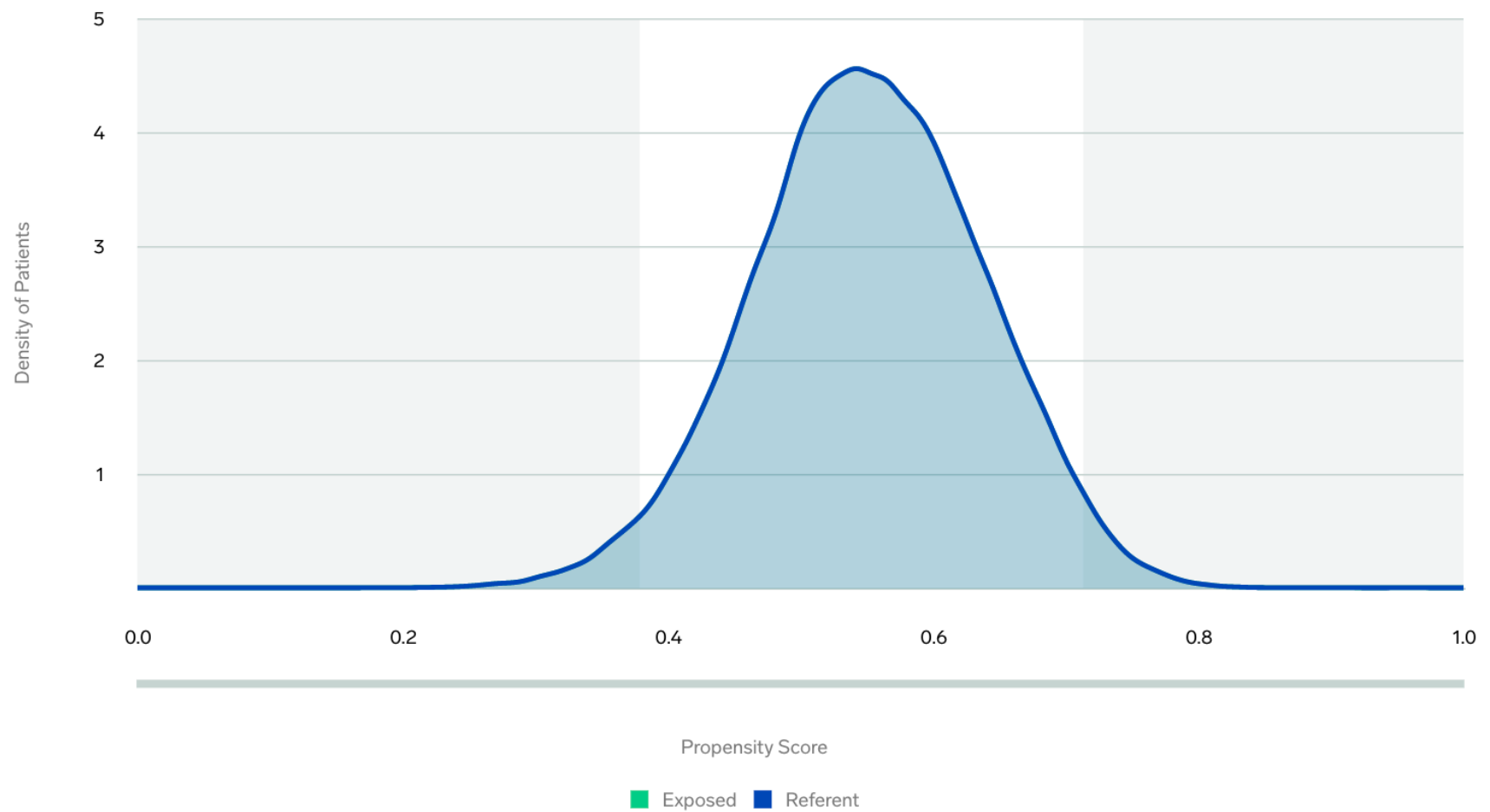
We report multiple diagnostics for PS analysis in this protocol. First, the PS distributional overlap is provided between two groups before and after matching to ensure comparability of these groups.⁵ Next, balance in each individual covariate between two treatment groups is reported using standardized differences.⁶

a. PS distributions stratified by treatment group

Pre-matching propensity score overlap:



Post-matching propensity score overlap:



b. Table for covariate balance

	Unmatched			PS-Matched		
Variable	Methotrexate (N = 74,719)	Hydroxychloroquine (N = 58,834)	St. Diff	Methotrexate (N = 54,562)	Hydroxychloroquine (N = 54,562)	St. Diff
Demographics						
Age, mean (SD)	73.65 (6.39)	73.79 (6.53)	-0.02	73.77 (6.44)	73.77 (6.53)	0.00
Gender, n (%)						
Male	21,458 (28.7%)	13,294 (22.6%)	0.14	12,955 (23.7%)	13,035 (23.9%)	0.00
Female	53,261 (71.3%)	45,540 (77.4%)	-0.14	41,607 (76.3%)	41,527 (76.1%)	0.00
Race, n (%)						
White	62,760 (84.0%)	49,973 (84.9%)	-0.02	46,153 (84.6%)	46,202 (84.7%)	0.00
Black	6,876 (9.2%)	5,120 (8.7%)	0.02	4,839 (8.9%)	4,833 (8.9%)	0.00
Asian	1,226 (1.6%)	903 (1.5%)	0.01	861 (1.6%)	848 (1.6%)	0.00
Hispanic	1,923 (2.6%)	1,402 (2.4%)	0.01	1,372 (2.5%)	1,335 (2.4%)	0.01
Native American	517 (0.7%)	352 (0.6%)	0.01	329 (0.6%)	334 (0.6%)	0.00
Other	1,039 (1.4%)	766 (1.3%)	0.01	707 (1.3%)	718 (1.3%)	0.00
Unknown	378 (0.5%)	318 (0.5%)	0.00	301 (0.6%)	292 (0.5%)	0.01
Region, n (%)						
Northeast	13,068 (17.5%)	11,161 (19.0%)	-0.04	10,196 (18.7%)	10,182 (18.7%)	0.00
South	32,015 (42.8%)	25,230 (42.9%)	0.00	23,358 (42.8%)	23,360 (42.8%)	0.00
North Central	16,684 (22.3%)	12,843 (21.8%)	0.01	11,981 (22.0%)	12,029 (22.0%)	0.00
West	12,700 (17.0%)	9,484 (16.1%)	0.02	8,912 (16.3%)	8,876 (16.3%)	0.00
Unknown	252 (0.3%)	116 (0.2%)	0.02	115 (0.2%)	115 (0.2%)	0.00
Calendar year of index date, n (%)						
2007	7,465 (10.0%)	4,407 (7.5%)	0.09	4,374 (8.0%)	4,363 (8.0%)	0.00
2008	3,811 (5.1%)	2,106 (3.6%)	0.07	2,137 (3.9%)	2,098 (3.8%)	0.01
2009	8,055 (10.8%)	5,824 (9.9%)	0.03	5,525 (10.1%)	5,573 (10.2%)	0.00

DREAM study protocol- comparison 4 methotrexate versus hydroxychloroquine

2010	7,445 (10.0%)	5,498 (9.3%)	0.02	5,217 (9.6%)	5,249 (9.6%)	0.00
2011	7,570 (10.1%)	5,741 (9.8%)	0.01	5,431 (10.0%)	5,433 (10.0%)	0.00
2012	7,313 (9.8%)	6,000 (10.2%)	-0.01	5,572 (10.2%)	5,552 (10.2%)	0.00
2013	7,324 (9.8%)	6,277 (10.7%)	-0.03	5,717 (10.5%)	5,737 (10.5%)	0.00
2014	3,573 (4.8%)	3,330 (5.7%)	-0.04	2,959 (5.4%)	2,939 (5.4%)	0.00
2015	8,908 (11.9%)	8,041 (13.7%)	-0.05	7,153 (13.1%)	7,171 (13.1%)	0.00
2016	3,979 (5.3%)	3,600 (6.1%)	-0.03	3,200 (5.9%)	3,207 (5.9%)	0.00
2017	9,276 (12.4%)	8,010 (13.6%)	-0.04	7,277 (13.3%)	7,240 (13.3%)	0.00
Low income subsidy, n (%)	16,327 (21.9%)	12,143 (20.6%)	0.03	11,388 (20.9%)	11,430 (20.9%)	0.00
Dementia risk factors, n (%)						
Diabetes	25,372 (34.0%)	19,427 (33.0%)	0.02	18,092 (33.2%)	18,047 (33.1%)	0.00
Obesity	8,878 (11.9%)	7,608 (12.9%)	-0.03	6,850 (12.6%)	6,867 (12.6%)	0.00
Hypertension	59,412 (79.5%)	47,473 (80.7%)	-0.03	43,928 (80.5%)	43,816 (80.3%)	0.01
Coronary artery disease	20,997 (28.1%)	16,849 (28.6%)	-0.01	15,454 (28.3%)	15,467 (28.3%)	0.00
Depression	11,224 (15.0%)	10,107 (17.2%)	-0.06	8,997 (16.5%)	8,995 (16.5%)	0.00
Anxiety	8,993 (12.0%)	8,333 (14.2%)	-0.07	7,334 (13.4%)	7,353 (13.5%)	0.00
Bipolar disorder	652 (0.9%)	649 (1.1%)	-0.02	552 (1.0%)	559 (1.0%)	0.00
Schizophrenia	213 (0.3%)	181 (0.3%)	0.00	164 (0.3%)	162 (0.3%)	0.00
Markers for healthy behavior, frailty, healthcare use						
Smoking, n (%)	12,540 (16.8%)	9,925 (16.9%)	0.00	9,093 (16.7%)	9,208 (16.9%)	-0.01
Mammography, n (%)	18,984 (25.4%)	18,256 (31.0%)	-0.12	16,162 (29.6%)	16,084 (29.5%)	0.00
Colonoscopy, n (%)	8,693 (11.6%)	7,335 (12.5%)	-0.03	6,632 (12.2%)	6,638 (12.2%)	0.00
Fecal occult blood test, n (%)	7,166 (9.6%)	6,189 (10.5%)	-0.03	5,556 (10.2%)	5,578 (10.2%)	0.00
Influenza vaccination, n (%)	44,753 (59.9%)	37,288 (63.4%)	-0.07	34,075 (62.5%)	34,120 (62.5%)	0.00
Pneumococcal vaccination, n (%)	14,977 (20.0%)	13,135 (22.3%)	-0.06	11,819 (21.7%)	11,820 (21.7%)	0.00
Herpes zoster vaccination, n (%)	421 (0.6%)	376 (0.6%)	0.00	349 (0.6%)	344 (0.6%)	0.00
Bone mineral density test, n (%)	17,615 (23.6%)	14,992 (25.5%)	-0.04	13,596 (24.9%)	13,622 (25.0%)	0.00

DREAM study protocol- comparison 4 methotrexate versus hydroxychloroquine

Number of distinct generic agents, mean (SD)	12.60 (6.29)	13.23 (6.39)	0.00	13.03 (6.52)	13.01 (6.23)	0.00
Number of emergency room visits, mean (SD)	0.63 (1.27)	0.65 (1.31)	0.00	0.64 (1.29)	0.64 (1.29)	0.00
Number of outpatient visits, mean (SD)	16.39 (16.86)	17.24 (16.62)	0.00	16.90 (17.36)	16.90 (16.01)	0.00
Number of hospitalizations, mean (SD)	0.29 (0.71)	0.30 (0.74)	0.00	0.30 (0.71)	0.30 (0.73)	0.00
Number of physician office visits, mean (SD)	5.77 (9.76)	5.72 (9.09)	0.00	5.73 (9.09)	5.72 (9.19)	0.00
Number of rheumatologist visits, mean (SD)	2.22 (2.35)	2.20 (2.10)	0.00	2.20 (2.34)	2.20 (2.10)	0.00
Number of C-reactive protein tests ordered, mean (SD)	1.43 (1.66)	1.31 (1.44)	0.00	1.34 (1.53)	1.34 (1.47)	0.00
Number of serum creatinine tests ordered, mean (SD)	3.98 (2.92)	3.97 (3.09)	0.00	3.97 (2.85)	3.96 (3.10)	0.00
Composite frailty score, mean (SD)	0.16 (0.04)	0.16 (0.04)	0.00	0.16 (0.04)	0.16 (0.04)	0.00
Osteoporosis, n (%)	21,166 (28.3%)	17,521 (29.8%)	-0.03	16,047 (29.4%)	16,067 (29.4%)	0.00
Fractures, n (%)	6,216 (8.3%)	5,185 (8.8%)	-0.02	4,742 (8.7%)	4,742 (8.7%)	0.00
Falls, n (%)	2,960 (4.0%)	2,502 (4.3%)	-0.02	2,273 (4.2%)	2,269 (4.2%)	0.00
Use of supplemental oxygen, n (%)	686 (0.9%)	785 (1.3%)	-0.04	618 (1.1%)	648 (1.2%)	-0.01
Combined comorbidity score, mean (SD)	1.38 (2.20)	1.60 (2.36)	0.00	1.51 (2.28)	1.52 (2.30)	0.00
Comedication use, n (%)						
Lithium	93 (0.1%)	83 (0.1%)	0.00	70 (0.1%)	72 (0.1%)	0.00
Anti-epileptic mood stabilizers	853 (1.1%)	796 (1.4%)	-0.03	688 (1.3%)	704 (1.3%)	0.00
Anti-epileptics (other than mood stabilizers)	13,247 (17.7%)	12,475 (21.2%)	-0.09	10,893 (20.0%)	10,900 (20.0%)	0.00
Atypical antipsychotics	1,088 (1.5%)	987 (1.7%)	-0.02	864 (1.6%)	875 (1.6%)	0.00
Benzodiazepines	6,971 (9.3%)	6,781 (11.5%)	-0.07	5,879 (10.8%)	5,845 (10.7%)	0.00
Serotonin-norepinephrine reuptake inhibitors	4,980 (6.7%)	5,150 (8.8%)	-0.08	4,330 (7.9%)	4,353 (8.0%)	0.00

DREAM study protocol- comparison 4 methotrexate versus hydroxychloroquine

Selective serotonin reuptake inhibitors	12,538 (16.8%)	10,861 (18.5%)	-0.04	9,826 (18.0%)	9,843 (18.0%)	0.00
Tricyclic antidepressants (TCAs)	4,127 (5.5%)	3,770 (6.4%)	-0.04	3,350 (6.1%)	3,329 (6.1%)	0.00
Typical antipsychotics	206 (0.3%)	147 (0.2%)	0.02	137 (0.3%)	138 (0.3%)	0.00
Anticoagulants	7,753 (10.4%)	6,473 (11.0%)	-0.02	5,912 (10.8%)	5,903 (10.8%)	0.00
Antiplatelet agents	7,013 (9.4%)	5,346 (9.1%)	0.01	4,989 (9.1%)	4,964 (9.1%)	0.00
Angiotensin II receptor blockers	16,370 (21.9%)	13,993 (23.8%)	-0.05	12,736 (23.3%)	12,648 (23.2%)	0.00
Angiotensin converting enzyme inhibitors	23,816 (31.9%)	17,848 (30.3%)	0.03	16,882 (30.9%)	16,802 (30.8%)	0.00
Beta blockers	29,260 (39.2%)	23,690 (40.3%)	-0.02	21,943 (40.2%)	21,770 (39.9%)	0.01
Calcium channel blockers	21,542 (28.8%)	18,133 (30.8%)	-0.04	16,525 (30.3%)	16,530 (30.3%)	0.00
Diuretics	23,803 (31.9%)	19,617 (33.3%)	-0.03	17,951 (32.9%)	17,928 (32.9%)	0.00
Nitrates	5,508 (7.4%)	4,496 (7.6%)	-0.01	4,100 (7.5%)	4,099 (7.5%)	0.00
Lipid lowering drugs	37,971 (50.8%)	30,921 (52.6%)	-0.04	28,541 (52.3%)	28,344 (51.9%)	0.01
Non-insulin diabetes medications	14,027 (18.8%)	10,032 (17.1%)	0.04	9,493 (17.4%)	9,458 (17.3%)	0.00
Insulin	4,493 (6.0%)	3,579 (6.1%)	0.00	3,334 (6.1%)	3,264 (6.0%)	0.00
Antidepressants	21,471 (28.7%)	19,536 (33.2%)	-0.10	17,319 (31.7%)	17,308 (31.7%)	0.00
Rheumatoid arthritis related factors						
Nonsteroidal anti-inflammatory drugs/Coxibs, n (%)	33,921 (45.4%)	25,147 (42.7%)	0.05	23,787 (43.6%)	23,791 (43.6%)	0.00
Opioids, n (%)	48,221 (64.5%)	37,621 (63.9%)	0.01	34,922 (64.0%)	34,968 (64.1%)	0.00
Glucocorticoids use/dose, n (%)	52,804 (70.7%)	37,351 (63.5%)	0.15	35,997 (66.0%)	36,011 (66.0%)	0.00
Comorbid conditions, n (%)						
Atrial fibrillation	8,691 (11.6%)	7,181 (12.2%)	-0.02	6,568 (12.0%)	6,573 (12.0%)	0.00
Heart failure	8,954 (12.0%)	7,524 (12.8%)	-0.02	6,768 (12.4%)	6,805 (12.5%)	0.00
Stroke or transient ischemic attack	6,579 (8.8%)	5,444 (9.3%)	-0.02	4,946 (9.1%)	4,943 (9.1%)	0.00
Peripheral vascular disease	9,374 (12.5%)	7,837 (13.3%)	-0.02	7,131 (13.1%)	7,142 (13.1%)	0.00
Hyperlipidemia	53,606 (71.7%)	43,255 (73.5%)	-0.04	39,871 (73.1%)	39,833 (73.0%)	0.00

DREAM study protocol- comparison 4 methotrexate versus hydroxychloroquine

Renal dysfunction	9,448 (12.6%)	9,677 (16.4%)	-0.11	8,220 (15.1%)	8,160 (15.0%)	0.00
Chronic liver disease	4,934 (6.6%)	4,700 (8.0%)	-0.05	4,057 (7.4%)	4,087 (7.5%)	0.00
Asthma	10,136 (13.6%)	9,418 (16.0%)	-0.07	8,320 (15.2%)	8,327 (15.3%)	0.00
Ischemic heart disease	20,526 (27.5%)	16,408 (27.9%)	-0.01	15,080 (27.6%)	15,093 (27.7%)	0.00
Chronic obstructive pulmonary disease	16,838 (22.5%)	14,000 (23.8%)	-0.03	12,732 (23.3%)	12,806 (23.5%)	0.00
Malignancy	18,107 (24.2%)	15,987 (27.2%)	-0.07	14,290 (26.2%)	14,308 (26.2%)	0.00
Drug or alcohol abuse or dependence	6,027 (8.1%)	4,518 (7.7%)	0.01	4,239 (7.8%)	4,250 (7.8%)	0.00
Venous thromboembolism	3,540 (4.7%)	3,109 (5.3%)	-0.03	2,760 (5.1%)	2,793 (5.1%)	0.00

9. Statistical analysis plans

Incidence rates for the outcome will be estimated for the treatment and reference groups before and after PS matching. The competing risk of death could be of concern for the current set of analyses if mortality is frequent among patients included in the cohort and if differences in the risk of mortality between treatment and reference groups are substantial. In the PS-matched sample, we will use cause-specific hazard models⁷ to provide hazard ratios averaged over the entire follow-up period as well as interval specific hazard ratios (1, 2, and 3 years) for the association between the treatment of interest and risk of ADRD after considering all-cause mortality as a competing event. Pre-specified subgroup analyses will be conducted based on age, sex, and baseline cardiovascular disease.

10. References

1. Rosenbaum PR, Rubin DB. The central role of the propensity score in observational studies for causal effects. *Biometrika*. 1983;70(1):41-55.
2. Rassen JA, Avorn J, Schneeweiss S. Multivariate-adjusted pharmacoepidemiologic analyses of confidential information pooled from multiple health care utilization databases. *Pharmacoepidemiology and drug safety*. 2010;19(8):848-857.
3. Rassen JA, Shelat AA, Myers J, Glynn RJ, Rothman KJ, Schneeweiss S. One-to-many propensity score matching in cohort studies. *Pharmacoepidemiol Drug Saf*. May 2012;21 Suppl 2:69-80.
4. Austin PC. Some Methods of Propensity-Score Matching had Superior Performance to Others: Results of an Empirical Investigation and Monte Carlo simulations. *Biometrical Journal*. 2009;51(1):171-184.
5. AM Walker AM, Patrick A, Lauer M, et al. Tool for Assessing the Feasibility of Comparative Effectiveness Research. *Comp Effect Res* 2013;3:11-20.
6. Franklin JM, Rassen JA, Ackermann D, Bartels DB, Schneeweiss S. Metrics for covariate balance in cohort studies of causal effects. *Statistics in medicine*. May 10 2014;33(10):1685-1699.
7. Austin PC, Lee DS, Fine JP. Introduction to the analysis of survival data in the presence of competing risks. *Circulation*. 2016;133(6):601-609.

Appendix A
Inclusion and exclusion criteria

#	Implementation in routine care	
	EXPOSURE vs. COMPARISON	
	Methotrexate vs Hydroxychloroquine	
	INCLUSION CRITERIA	
1	No prior use of methotrexate or hydroxychloroquine	Depending on the comparison group, we will require new-use (defined as no use anytime prior to index date) of methotrexate and hydroxychloroquine
2	Sufficient enrollment	Medicare Part A, B, and D enrollment with no HMO coverage for 365 days prior to and on the cohort entry date
	EXCLUSION CRITERIA	
1	Prior history of dementia	Measured any time prior to drug initiation in any diagnosis position and inpatient or outpatient setting – ICD9 diagnosis – 046.1x, 290.xx (excluding 290.8), 291.2, 292.82, 294.1x, 294.2x, 331.0-331.2, 331.7, 331.82, 331.83, 333.4, 780.93, 797 ICD10 diagnosis – F01.xx-F03.xx, G30.xx-G31.85, R41.xx NDC brand name – "ARICEPT", "ARICEPT ODT", "EXELON", "NAMENDA", "NAMENDA XR", "NAMZARIC", "RAZADYNE", "RAZADYNE ER", or "REMINYL" NDC generic name – "DONEPEZIL HCL", "GALANTAMINE HBR", "MEMANTINE HCL", "MEMANTINE HCL/DONEPEZIL HCL", "RIVASTIGMINE", or "RIVASTIGMINE TARTRATE"
2	No prior history of rheumatoid arthritis	Measured 365 days prior to drug initiation in any diagnosis position and inpatient or outpatient setting – ICD9 diagnosis – 714.xx ICD10 diagnosis – M05.xx, M06.xx, M08.xx, M12.xx
3	Nursing home admission	Measured 365 days prior to drug initiation – MEDPAR - Short Stay/Long Stay/SNF Indicator Code – N = SNF Stay (Prvdr3 = 5, 6, U, W, Y, or Z)
4	Prior history of DMARD use	Measured 365 days prior to drug initiation – HCPCS procedure code – J0135, C9249, J0717, J0718, J1438, J1602, J1745, C9230, J0129, C9264, J3262, J1600, J9310 NDC brand name – "HUMIRA", "CIMZIA", "ENBREL", "SIMPONI", "SIMPONI ARIA", "REMICADE", "ORENCIA", "ACTEMRA", "XELJANZ", "RIDAURA", "AZASAN", "AZATHIOPRINE", "AZATHIOPRINE SODIUM", "IMURAN", "CYCLOSPORINE", "CYCLOSPORINE MODIFIED", "GENGRAF", "NEORAL", "RESTASIS", "SANDIMMUNE", "SANGCYA", "CYCLOPHOSPHAMIDE", "CYCLOPHOSPHAMIDE MONOHYDRATE", "CYTOXAN", "CYTOXAN LYOPHILIZED", "NEOSAR", "NEOSAR FOR INJECTION", "AUROLATE", "GOLD SODIUM THIOMALATE", "MYOCHRYSLINE", "ARAVA", "LEFLUNOMIDE", "AZULFIDINE", "S.A.S.-500", "SULFA DYNE", "SULFASALAZINE", "SULFASALAZINE DR", "SULFAZINE", "SULFAZINE EC", "KINERET", "RITUXAN" NDC generic name – "ADALIMUMAB", "CERTOLIZUMAB PEGOL", "ETANERCEPT", "GOLIMUMAB", "INFLIXIMAB", "ABATACEPT", "ABATACEPT/MALTOSE", "TOCILIZUMAB", "TOFACITINIB CITRATE", "AURANOFIN", "AZATHIOPRINE", "AZATHIOPRINE SODIUM", "CYCLOSPORINE", "CYCLOSPORINE, MODIFIED", "CYCLOPHOSPHAMIDE", "GOLD SODIUM THIOMALATE", "LEFLUNOMIDE", "SULFASALAZINE", "ANAKINRA", "RITUXIMAB"

Covariate list	
Category	Potential confounders
	ICD-9
Demographics	Age
	Gender
	Race
	Region
	Calendar year of index date
	Low income subsidy
Dementia risk factors	Diabetes
	Obesity
	Hypertension
	Coronary artery disease
	Depression
	Anxiety
	Bipolar disorder
	Schizophrenia
Lifestyle factors and markers for healthy behavior	Smoking
	Mammography
	Colonoscopy
	Fecal occult blood test
	Influenza vaccination
	Pneumococcal vaccination
	Herpes zoster vaccination
	BMD test
Healthcare utilization measures	Number of distinct generic agents
	Number of emergency room visits
	Number of outpatient visits
	Number of hospitalizations
	Number of physician office visits
	Number of rheumatologist visits
	Number of CRP tests ordered
	Number of serum creatinine tests ordered
Frailty markers	Composite frailty score
	Osteoporosis
	Fractures
	Falls
	Use of supplemental oxygen
	A combined comorbidity score
RA-specific comorbidities	
	Lithium
	Anti-epileptic mood stabilizers
	Anti-epileptics (other than mood stabilizers)

Comedications	Atypical antipsychotics
	Benzodiazepines
	SNRIs
	SSRIs
	TCAs
	Typical antipsychotics
	Anticoagulants
	Antiplatelet agents
	Angiotensin II receptor blockers
	Angiotensin converting enzyme inhibitors
	Beta blockers
	Calcium channel blockers
	Diuretics
	Nitrates
	Lipid lowering drugs
	Non-insulin diabetes medications
	Insulin
	Antidepressants
Nonbiologics	Number of biologic DMARDs
	Number of nonbiologic DMARDs
	Use of other nonbiologic DMARDs
	Methotrexate
	Hydroxychloroquine
	Leflunomide
	Sulfasalazine
	Anakinra
	Auranofin
	Azathioprine
	Cyclosporine
	Cyclophosphamide
	Gold sodium thiomalate
	NSAID/COXIB
	Opioids
	Glucocorticoids
Comorbid conditions	Atrial fibrillation
	Coronary artery disease
	Heart failure
	Stroke or TIA
	Peripheral vascular disease
	Hypertension
	Diabetes
	Hyperlipidemia
	Renal dysfunction
	Chronic liver disease
	Asthma
	Ischemic heart disease

Appendix A

	COPD
	Malignancy
	Drug or alcohol abuse or dependence
	VTE

Appendix A Demographics

Calendar year of index date
Year
2007
2008
2009
2010
2011
2012
2013
2014
2015
2016
2017

Low income subsidy

<https://www.cms.gov/Medicare/Eligibility-and-Enrollment/LowIncSubMedicarePresCov/Downloads/StateLISGuidance021009.pdf>

Appendix A

Dementia risk factors

Diabetes

ICD10 Dx	ICD9 Dx	LongDeslCD10	LongDeslCD9
E11621	25080	Type 2 diabetes mellitus with foot ulcer	Diabetes with other specified manifestations, type II or unspecified type, not stated as uncontrolled
E13621	25080	Other specified diabetes mellitus with foot ulcer	Diabetes with other specified manifestations, type II or unspecified type, not stated as uncontrolled
E10621	25081	Type 1 diabetes mellitus with foot ulcer	Diabetes with other specified manifestations, type I [juvenile type], not stated as uncontrolled
ICD10 Dx	ICD9 Dx	LongDeslCD10	LongDeslCD9
E1310	25010	Other specified diabetes mellitus with ketoacidosis without coma	Diabetes with ketoacidosis, type II or unspecified type, not stated as uncontrolled
E1010	25011	Type 1 diabetes mellitus with ketoacidosis without coma	Diabetes with ketoacidosis, type I [juvenile type], not stated as uncontrolled
E1310	25012	Other specified diabetes mellitus with ketoacidosis without coma	Diabetes with ketoacidosis, type II or unspecified type, uncontrolled
E1010	25013	Type 1 diabetes mellitus with ketoacidosis without coma	Diabetes with ketoacidosis, type I [juvenile type],
E1011	25031	Type 1 diabetes mellitus with ketoacidosis with coma	Diabetes with other coma, type I [juvenile type], not stated as uncontrolled
ICD10 Dx	ICD9 Dx	LongDeslCD10	LongDeslCD9
E1021	25041	Type 1 diabetes mellitus with diabetic nephropathy	Diabetes with renal manifestations type I [juvenile type] not stated as uncontrolled
E1022	25041	Type 1 diabetes mellitus with diabetic chronic kidney disease	Diabetes with renal manifestations type I [juvenile type] not stated as uncontrolled
E1029	25041	Type 1 diabetes mellitus with other diabetic kidney complication	Diabetes with renal manifestations type I [juvenile type] not stated as uncontrolled
E1121	25042	Type 2 diabetes mellitus with diabetic nephropathy	Diabetes with renal manifestations type II or unspecified type uncontrolled
E1021	25043	Type 1 diabetes mellitus with diabetic nephropathy	Diabetes with renal manifestations type I [juvenile type] uncontrolled
E1122		Type 2 diabetes mellitus with diabetic chronic kidney	
E1129		Type 2 diabetes mellitus with other diabetic kidney	
ICD10 Dx	ICD9 Dx	LongDeslCD10	LongDeslCD9
E1011	25031	Type 1 diabetes mellitus with ketoacidosis with coma	Diabetes with other coma, type I [juvenile type], not stated as uncontrolled
E10641	25031	Type 1 diabetes mellitus with hypoglycemia with coma	Diabetes with other coma, type I [juvenile type], not stated as uncontrolled
E1011	25033	Type 1 diabetes mellitus with ketoacidosis with coma	Diabetes with other coma, type I [juvenile type],
ICD10 Dx	ICD9 Dx	LongDeslCD10	LongDeslCD9
E0921	58381	Drug or chemical induced diabetes mellitus with diabetic nephropathy	Nephritis and nephropathy, not specified as acute or chronic, in diseases classified elsewhere
E0922	58381	Drug or chemical induced diabetes mellitus with diabetic chronic kidney disease	Nephritis and nephropathy, not specified as acute or chronic, in diseases classified elsewhere
E0929	58381	Drug or chemical induced diabetes mellitus with other diabetic kidney complication	Nephritis and nephropathy, not specified as acute or chronic, in diseases classified elsewhere
M3214	58381	Glomerular disease in systemic lupus erythematosus	Nephritis and nephropathy, not specified as acute or chronic, in diseases classified elsewhere
M3215	58381	Tubulo-interstitial nephropathy in systemic lupus erythematosus	Nephritis and nephropathy, not specified as acute or chronic, in diseases classified elsewhere
M3504	58381	Sicca syndrome with tubulo-interstitial nephropathy	Nephritis and nephropathy, not specified as acute or chronic, in diseases classified elsewhere
N08	58381	Glomerular disorders in diseases classified elsewhere	Nephritis and nephropathy, not specified as acute or chronic, in diseases classified elsewhere
N16	58381	Renal tubulo-interstitial disorders in diseases classified elsewhere	Nephritis and nephropathy, not specified as acute or chronic, in diseases classified elsewhere
ICD10 Dx	ICD9 Dx	LongDeslCD10	LongDeslCD9
E1036	25051	Type 1 diabetes mellitus with diabetic cataract	Diabetes with ophthalmic manifestations, type I [juvenile type], not stated as uncontrolled
E1036	25053	Type 1 diabetes mellitus with diabetic cataract	Diabetes with ophthalmic manifestations, type I [juvenile type], uncontrolled
E1037X1	25051	Type 1 diabetes mellitus with diabetic macular edema, resolved following treatment, right eye	Diabetes with ophthalmic manifestations, type I [juvenile type], not stated as uncontrolled

Appendix A
Dementia risk factors

E1037X2	25051	Type 1 diabetes mellitus with diabetic macular edema, resolved following treatment, left eye	Diabetes with ophthalmic manifestations, type I [juvenile type], not stated as uncontrolled
E1037X3	25051	Type 1 diabetes mellitus with diabetic macular edema, resolved following treatment, bilateral	Diabetes with ophthalmic manifestations, type I [juvenile type], not stated as uncontrolled
E1037X9	25051	Type 1 diabetes mellitus with diabetic macular edema, resolved following treatment, unspecified eye	Diabetes with ophthalmic manifestations, type I [juvenile type], not stated as uncontrolled
E1039	25051	Type 1 diabetes mellitus with other diabetic ophthalmic complication	Diabetes with ophthalmic manifestations, type I [juvenile type], not stated as uncontrolled
E1039	25053	Type 1 diabetes mellitus with other diabetic ophthalmic complication	Diabetes with ophthalmic manifestations, type I [juvenile type], uncontrolled
E1136	25050	Type 2 diabetes mellitus with diabetic cataract	Diabetes with ophthalmic manifestations, type II or unspecified type, not stated as uncontrolled
E1136	25052	Type 2 diabetes mellitus with diabetic cataract	Diabetes with ophthalmic manifestations, type II or unspecified type, uncontrolled
E1137X1	25050	Type 2 diabetes mellitus with diabetic macular edema, resolved following treatment, right eye	Diabetes with ophthalmic manifestations, type II or unspecified type, not stated as uncontrolled
E1137X2	25050	Type 2 diabetes mellitus with diabetic macular edema, resolved following treatment, left eye	Diabetes with ophthalmic manifestations, type II or unspecified type, not stated as uncontrolled
E1137X3	25050	Type 2 diabetes mellitus with diabetic macular edema, resolved following treatment, bilateral	Diabetes with ophthalmic manifestations, type II or unspecified type, not stated as uncontrolled
E1137X9	25050	Type 2 diabetes mellitus with diabetic macular edema, resolved following treatment, unspecified eye	Diabetes with ophthalmic manifestations, type II or unspecified type, not stated as uncontrolled
E1139	25050	Type 2 diabetes mellitus with other diabetic ophthalmic complication	Diabetes with ophthalmic manifestations, type II or unspecified type, not stated as uncontrolled
E1139	25052	Type 2 diabetes mellitus with other diabetic ophthalmic complication	Diabetes with ophthalmic manifestations, type II or unspecified type, uncontrolled
ICD10 Dx	ICD9 Dx	LongDeslCD10	LongDeslCD9
E11618	25080	Type 2 diabetes mellitus with other diabetic arthropathy	Diabetes with other specified manifestations, type II or unspecified type, not stated as uncontrolled
E11620	25080	Type 2 diabetes mellitus with diabetic dermatitis	Diabetes with other specified manifestations, type II or unspecified type, not stated as uncontrolled
E11630	25080	Type 2 diabetes mellitus with periodontal disease	Diabetes with other specified manifestations, type II or unspecified type, not stated as uncontrolled
E11638	25080	Type 2 diabetes mellitus with other oral complications	Diabetes with other specified manifestations, type II or unspecified type, not stated as uncontrolled
E1169	25080	Type 2 diabetes mellitus with other specified complication	Diabetes with other specified manifestations, type II or unspecified type, not stated as uncontrolled
E13618	25080	Other specified diabetes mellitus with other diabetic arthropathy	Diabetes with other specified manifestations, type II or unspecified type, not stated as uncontrolled
E13620	25080	Other specified diabetes mellitus with diabetic dermatitis	Diabetes with other specified manifestations, type II or unspecified type, not stated as uncontrolled
E13630	25080	Other specified diabetes mellitus with periodontal disease	Diabetes with other specified manifestations, type II or unspecified type, not stated as uncontrolled
E13638	25080	Other specified diabetes mellitus with other oral complications	Diabetes with other specified manifestations, type II or unspecified type, not stated as uncontrolled
E1369	25080	Other specified diabetes mellitus with other specified complication	Diabetes with other specified manifestations, type II or unspecified type, not stated as uncontrolled
E10618	25081	Type 1 diabetes mellitus with other diabetic arthropathy	Diabetes with other specified manifestations, type I [juvenile type], not stated as uncontrolled
E10620	25081	Type 1 diabetes mellitus with diabetic dermatitis	Diabetes with other specified manifestations, type I [juvenile type], not stated as uncontrolled
E10630	25081	Type 1 diabetes mellitus with periodontal disease	Diabetes with other specified manifestations, type I [juvenile type], not stated as uncontrolled
E10638	25081	Type 1 diabetes mellitus with other oral complications	Diabetes with other specified manifestations, type I [juvenile type], not stated as uncontrolled
E1069	25081	Type 1 diabetes mellitus with other specified complication	Diabetes with other specified manifestations, type I [juvenile type], not stated as uncontrolled
E1169	25082	Type 2 diabetes mellitus with other specified complication	Diabetes with other specified manifestations, type II or unspecified type, uncontrolled
E1069	25083	Type 1 diabetes mellitus with other specified complication	Diabetes with other specified manifestations, type I [juvenile type], uncontrolled
ICD10 Dx	ICD9 Dx	LongDeslCD10	LongDeslCD9

Appendix A

Dementia risk factors

E1151	25070	Type 2 diabetes mellitus with diabetic peripheral angiopathy without gangrene	Diabetes with peripheral circulatory disorders, type II or unspecified type, not stated as uncontrolled
E1152	25070	Type 2 diabetes mellitus with diabetic peripheral angiopathy with gangrene	Diabetes with peripheral circulatory disorders, type II or unspecified type, not stated as uncontrolled
E1159	25070	Type 2 diabetes mellitus with other circulatory complications	Diabetes with peripheral circulatory disorders, type II or unspecified type, not stated as uncontrolled
E1351	25070	Other specified diabetes mellitus with diabetic peripheral angiopathy without gangrene	Diabetes with peripheral circulatory disorders, type II or unspecified type, not stated as uncontrolled
E1352	25070	Other specified diabetes mellitus with diabetic peripheral angiopathy with gangrene	Diabetes with peripheral circulatory disorders, type II or unspecified type, not stated as uncontrolled
E1359	25070	Other specified diabetes mellitus with other circulatory complications	Diabetes with peripheral circulatory disorders, type II or unspecified type, not stated as uncontrolled
ICD10 Dx	ICD9 Dx	LongDeslCD10	LongDeslCD9
E08311	36201	Diabetes mellitus due to underlying condition with unspecified diabetic retinopathy with macular edema	Background diabetic retinopathy
E08311	36207	Diabetes mellitus due to underlying condition with unspecified diabetic retinopathy with macular edema	Diabetic macular edema
E08319	36201	Diabetes mellitus due to underlying condition with unspecified diabetic retinopathy without macular edema	Background diabetic retinopathy
E083211	36204	Diabetes mellitus due to underlying condition with mild nonproliferative diabetic retinopathy with macular edema, right eye	Mild nonproliferative diabetic retinopathy
E083211	36207	Diabetes mellitus due to underlying condition with mild nonproliferative diabetic retinopathy with macular edema, right eye	Diabetic macular edema
E083212	36204	Diabetes mellitus due to underlying condition with mild nonproliferative diabetic retinopathy with macular edema, left eye	Mild nonproliferative diabetic retinopathy
E083212	36207	Diabetes mellitus due to underlying condition with mild nonproliferative diabetic retinopathy with macular edema, left eye	Diabetic macular edema
E083213	36204	Diabetes mellitus due to underlying condition with mild nonproliferative diabetic retinopathy with macular edema, bilateral	Mild nonproliferative diabetic retinopathy
E083213	36207	Diabetes mellitus due to underlying condition with mild nonproliferative diabetic retinopathy with macular edema, bilateral	Diabetic macular edema
E083219	36204	Diabetes mellitus due to underlying condition with mild nonproliferative diabetic retinopathy with macular edema, unspecified eye	Mild nonproliferative diabetic retinopathy
E083219	36207	Diabetes mellitus due to underlying condition with mild nonproliferative diabetic retinopathy with macular edema, unspecified eye	Diabetic macular edema
E083291	36204	Diabetes mellitus due to underlying condition with mild nonproliferative diabetic retinopathy without macular edema, right eye	Mild nonproliferative diabetic retinopathy
E083292	36204	Diabetes mellitus due to underlying condition with mild nonproliferative diabetic retinopathy without macular edema, left eye	Mild nonproliferative diabetic retinopathy
E083293	36204	Diabetes mellitus due to underlying condition with mild nonproliferative diabetic retinopathy without macular edema, bilateral	Mild nonproliferative diabetic retinopathy
E083299	36204	Diabetes mellitus due to underlying condition with mild nonproliferative diabetic retinopathy without macular edema, unspecified eye	Mild nonproliferative diabetic retinopathy
E083311	36205	Diabetes mellitus due to underlying condition with moderate nonproliferative diabetic retinopathy with macular edema, right eye	Moderate nonproliferative diabetic retinopathy
E083311	36207	Diabetes mellitus due to underlying condition with moderate nonproliferative diabetic retinopathy with macular edema, right eye	Diabetic macular edema

Appendix A

Dementia risk factors

E083312	36205	Diabetes mellitus due to underlying condition with moderate nonproliferative diabetic retinopathy with macular edema, left eye	Moderate nonproliferative diabetic retinopathy
E083312	36207	Diabetes mellitus due to underlying condition with moderate nonproliferative diabetic retinopathy with macular edema, left eye	Diabetic macular edema
E083313	36205	Diabetes mellitus due to underlying condition with moderate nonproliferative diabetic retinopathy with macular edema, bilateral	Moderate nonproliferative diabetic retinopathy
E083313	36207	Diabetes mellitus due to underlying condition with moderate nonproliferative diabetic retinopathy with macular edema, bilateral	Diabetic macular edema
E083319	36205	Diabetes mellitus due to underlying condition with moderate nonproliferative diabetic retinopathy with macular edema, unspecified eye	Moderate nonproliferative diabetic retinopathy
E083319	36207	Diabetes mellitus due to underlying condition with moderate nonproliferative diabetic retinopathy with macular edema, unspecified eye	Diabetic macular edema
E083391	36205	Diabetes mellitus due to underlying condition with moderate nonproliferative diabetic retinopathy without macular edema, right eye	Moderate nonproliferative diabetic retinopathy
E083392	36205	Diabetes mellitus due to underlying condition with moderate nonproliferative diabetic retinopathy without macular edema, left eye	Moderate nonproliferative diabetic retinopathy
E083393	36205	Diabetes mellitus due to underlying condition with moderate nonproliferative diabetic retinopathy without macular edema, bilateral	Moderate nonproliferative diabetic retinopathy
E083399	36205	Diabetes mellitus due to underlying condition with moderate nonproliferative diabetic retinopathy without macular edema, unspecified eye	Moderate nonproliferative diabetic retinopathy
E083411	36206	Diabetes mellitus due to underlying condition with severe nonproliferative diabetic retinopathy with macular edema, right eye	Severe nonproliferative diabetic retinopathy
E083411	36207	Diabetes mellitus due to underlying condition with severe nonproliferative diabetic retinopathy with macular edema, right eye	Diabetic macular edema
E083412	36206	Diabetes mellitus due to underlying condition with severe nonproliferative diabetic retinopathy with macular edema, left eye	Severe nonproliferative diabetic retinopathy
E083412	36207	Diabetes mellitus due to underlying condition with severe nonproliferative diabetic retinopathy with macular edema, left eye	Diabetic macular edema
E083413	36206	Diabetes mellitus due to underlying condition with severe nonproliferative diabetic retinopathy with macular edema, bilateral	Severe nonproliferative diabetic retinopathy
E083413	36207	Diabetes mellitus due to underlying condition with severe nonproliferative diabetic retinopathy with macular edema, bilateral	Diabetic macular edema
E083419	36206	Diabetes mellitus due to underlying condition with severe nonproliferative diabetic retinopathy with macular edema, unspecified eye	Severe nonproliferative diabetic retinopathy
E083419	36207	Diabetes mellitus due to underlying condition with severe nonproliferative diabetic retinopathy with macular edema, unspecified eye	Diabetic macular edema
E083491	36206	Diabetes mellitus due to underlying condition with severe nonproliferative diabetic retinopathy without macular edema, right eye	Severe nonproliferative diabetic retinopathy
E083492	36206	Diabetes mellitus due to underlying condition with severe nonproliferative diabetic retinopathy without macular edema, left eye	Severe nonproliferative diabetic retinopathy

Appendix A

Dementia risk factors

E083493	36206	Diabetes mellitus due to underlying condition with severe nonproliferative diabetic retinopathy without macular edema, bilateral	Severe nonproliferative diabetic retinopathy
E083499	36206	Diabetes mellitus due to underlying condition with severe nonproliferative diabetic retinopathy without macular edema, unspecified eye	Severe nonproliferative diabetic retinopathy
E083511	36202	Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy with macular edema, right eye	Proliferative diabetic retinopathy
E083511	36207	Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy with macular edema, right eye	Diabetic macular edema
E083512	36202	Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy with macular edema, left eye	Proliferative diabetic retinopathy
E083512	36207	Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy with macular edema, left eye	Diabetic macular edema
E083513	36202	Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy with macular edema, bilateral	Proliferative diabetic retinopathy
E083513	36207	Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy with macular edema, bilateral	Diabetic macular edema
E083519	36202	Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy with macular edema, unspecified eye	Proliferative diabetic retinopathy
E083519	36207	Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy with macular edema, unspecified eye	Diabetic macular edema
E083521	36202	Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy with traction retinal detachment involving the macula, right eye	Proliferative diabetic retinopathy
E083522	36202	Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy with traction retinal detachment involving the macula, left eye	Proliferative diabetic retinopathy
E083523	36202	Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy with traction retinal detachment involving the macula, bilateral	Proliferative diabetic retinopathy
E083529	36202	Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy with traction retinal detachment involving the macula, unspecified eye	Proliferative diabetic retinopathy
E083531	36202	Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, right eye	Proliferative diabetic retinopathy
E083532	36202	Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, left eye	Proliferative diabetic retinopathy
E083533	36202	Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, bilateral	Proliferative diabetic retinopathy
E083539	36202	Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, unspecified eye	Proliferative diabetic retinopathy
E083541	36202	Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, right eye	Proliferative diabetic retinopathy
E083542	36202	Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, left eye	Proliferative diabetic retinopathy

Appendix A
Dementia risk factors

E083543	36202	Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, bilateral	Proliferative diabetic retinopathy
E083549	36202	Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, unspecified eye	Proliferative diabetic retinopathy
E083551	36202	Diabetes mellitus due to underlying condition with stable proliferative diabetic retinopathy, right eye	Proliferative diabetic retinopathy
E083552	36202	Diabetes mellitus due to underlying condition with stable proliferative diabetic retinopathy, left eye	Proliferative diabetic retinopathy
E083553	36202	Diabetes mellitus due to underlying condition with stable proliferative diabetic retinopathy, bilateral	Proliferative diabetic retinopathy
E083559	36202	Diabetes mellitus due to underlying condition with stable proliferative diabetic retinopathy, unspecified eye	Proliferative diabetic retinopathy
E083591	36202	Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy without macular edema, right eye	Proliferative diabetic retinopathy
E083592	36202	Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy without macular edema, left eye	Proliferative diabetic retinopathy
E083593	36202	Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy without macular edema, bilateral	Proliferative diabetic retinopathy
E083599	36202	Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy without macular edema, unspecified eye	Proliferative diabetic retinopathy
E09311	36201	Drug or chemical induced diabetes mellitus with unspecified diabetic retinopathy with macular edema	Background diabetic retinopathy
E09311	36207	Drug or chemical induced diabetes mellitus with unspecified diabetic retinopathy with macular edema	Diabetic macular edema
E09319	36201	Drug or chemical induced diabetes mellitus with unspecified diabetic retinopathy without macular edema	Background diabetic retinopathy
E093211	36204	Drug or chemical induced diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, right eye	Mild nonproliferative diabetic retinopathy
E093211	36207	Drug or chemical induced diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, right eye	Diabetic macular edema
E093212	36204	Drug or chemical induced diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, left eye	Mild nonproliferative diabetic retinopathy
E093212	36207	Drug or chemical induced diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, left eye	Diabetic macular edema
E093213	36204	Drug or chemical induced diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, bilateral	Mild nonproliferative diabetic retinopathy
E093213	36207	Drug or chemical induced diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, bilateral	Diabetic macular edema
E093219	36204	Drug or chemical induced diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, unspecified eye	Mild nonproliferative diabetic retinopathy
E093219	36207	Drug or chemical induced diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, unspecified eye	Diabetic macular edema
E093291	36204	Drug or chemical induced diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema, right eye	Mild nonproliferative diabetic retinopathy

Appendix A
Dementia risk factors

E093292	36204	Drug or chemical induced diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema, left eye	Mild nonproliferative diabetic retinopathy
E093293	36204	Drug or chemical induced diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema, bilateral	Mild nonproliferative diabetic retinopathy
E093299	36204	Drug or chemical induced diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema, unspecified eye	Mild nonproliferative diabetic retinopathy
E093311	36205	Drug or chemical induced diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema, right eye	Moderate nonproliferative diabetic retinopathy
E093311	36207	Drug or chemical induced diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema, right eye	Diabetic macular edema
E093312	36205	Drug or chemical induced diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema, left eye	Moderate nonproliferative diabetic retinopathy
E093312	36207	Drug or chemical induced diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema, left eye	Diabetic macular edema
E093313	36205	Drug or chemical induced diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema, bilateral	Moderate nonproliferative diabetic retinopathy
E093313	36207	Drug or chemical induced diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema, bilateral	Diabetic macular edema
E093319	36205	Drug or chemical induced diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema, unspecified eye	Moderate nonproliferative diabetic retinopathy
E093319	36207	Drug or chemical induced diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema, unspecified eye	Diabetic macular edema
E093391	36205	Drug or chemical induced diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema, right eye	Moderate nonproliferative diabetic retinopathy
E093392	36205	Drug or chemical induced diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema, left eye	Moderate nonproliferative diabetic retinopathy
E093393	36205	Drug or chemical induced diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema, bilateral	Moderate nonproliferative diabetic retinopathy
E093399	36205	Drug or chemical induced diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema, unspecified eye	Moderate nonproliferative diabetic retinopathy
E093411	36206	Drug or chemical induced diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema, right eye	Severe nonproliferative diabetic retinopathy
E093411	36207	Drug or chemical induced diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema, right eye	Diabetic macular edema
E093412	36206	Drug or chemical induced diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema, left eye	Severe nonproliferative diabetic retinopathy
E093412	36207	Drug or chemical induced diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema, left eye	Diabetic macular edema
E093413	36206	Drug or chemical induced diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema, bilateral	Severe nonproliferative diabetic retinopathy

Appendix A
Dementia risk factors

E093413	36207	Drug or chemical induced diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema, bilateral	Diabetic macular edema
E093419	36206	Drug or chemical induced diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema, unspecified eye	Severe nonproliferative diabetic retinopathy
E093419	36207	Drug or chemical induced diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema, unspecified eye	Diabetic macular edema
E093491	36206	Drug or chemical induced diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema, right eye	Severe nonproliferative diabetic retinopathy
E093492	36206	Drug or chemical induced diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema, left eye	Severe nonproliferative diabetic retinopathy
E093493	36206	Drug or chemical induced diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema, bilateral	Severe nonproliferative diabetic retinopathy
E093499	36206	Drug or chemical induced diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema, unspecified eye	Severe nonproliferative diabetic retinopathy
E093511	36202	Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy with macular edema,	Proliferative diabetic retinopathy
E093511	36207	Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy with macular edema,	Diabetic macular edema
E093512	36202	Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy with macular edema, left	Proliferative diabetic retinopathy
E093512	36207	Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy with macular edema, left	Diabetic macular edema
E093513	36202	Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy with macular edema,	Proliferative diabetic retinopathy
E093513	36207	Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy with macular edema,	Diabetic macular edema
E093519	36202	Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy with macular edema,	Proliferative diabetic retinopathy
E093519	36207	Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy with macular edema,	Diabetic macular edema
E093521	36202	Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula, right eye	Proliferative diabetic retinopathy
E093522	36202	Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula, left eye	Proliferative diabetic retinopathy
E093523	36202	Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula, bilateral	Proliferative diabetic retinopathy
E093529	36202	Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula, unspecified eye	Proliferative diabetic retinopathy
E093531	36202	Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, right eye	Proliferative diabetic retinopathy
E093532	36202	Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, left eye	Proliferative diabetic retinopathy
E093533	36202	Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, bilateral	Proliferative diabetic retinopathy
E093539	36202	Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, unspecified eye	Proliferative diabetic retinopathy

Appendix A

Dementia risk factors

E093541	36202	Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, right eye	Proliferative diabetic retinopathy
E093542	36202	Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal	Proliferative diabetic retinopathy
E093543	36202	Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, bilateral	Proliferative diabetic retinopathy
E093549	36202	Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, unspecified eye	Proliferative diabetic retinopathy
E093551	36202	Drug or chemical induced diabetes mellitus with stable proliferative diabetic retinopathy, right eye	Proliferative diabetic retinopathy
E093552	36202	Drug or chemical induced diabetes mellitus with stable proliferative diabetic retinopathy, left eye	Proliferative diabetic retinopathy
E093553	36202	Drug or chemical induced diabetes mellitus with stable proliferative diabetic retinopathy, bilateral	Proliferative diabetic retinopathy
E093559	36202	Drug or chemical induced diabetes mellitus with stable proliferative diabetic retinopathy, unspecified eye	Proliferative diabetic retinopathy
E093591	36202	Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy without macular edema,	Proliferative diabetic retinopathy
E093592	36202	Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy without macular edema,	Proliferative diabetic retinopathy
E093593	36202	Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy without macular edema,	Proliferative diabetic retinopathy
E093599	36202	Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy without macular edema,	Proliferative diabetic retinopathy
E10311	36201	Type 1 diabetes mellitus with unspecified diabetic retinopathy with macular edema	Background diabetic retinopathy
E10311	36207	Type 1 diabetes mellitus with unspecified diabetic retinopathy with macular edema	Diabetic macular edema
E10319	36201	Type 1 diabetes mellitus with unspecified diabetic retinopathy without macular edema	Background diabetic retinopathy
E103211	36204	Type 1 diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, right eye	Mild nonproliferative diabetic retinopathy
E103211	36207	Type 1 diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, right eye	Diabetic macular edema
E103212	36204	Type 1 diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, left eye	Mild nonproliferative diabetic retinopathy
E103212	36207	Type 1 diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, left eye	Diabetic macular edema
E103213	36204	Type 1 diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, bilateral	Mild nonproliferative diabetic retinopathy
E103213	36207	Type 1 diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, bilateral	Diabetic macular edema
E103219	36204	Type 1 diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, unspecified eye	Mild nonproliferative diabetic retinopathy
E103219	36207	Type 1 diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, unspecified eye	Diabetic macular edema
E103291	36204	Type 1 diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema, right eye	Mild nonproliferative diabetic retinopathy
E103292	36204	Type 1 diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema, left eye	Mild nonproliferative diabetic retinopathy
E103293	36204	Type 1 diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema, bilateral	Mild nonproliferative diabetic retinopathy
E103299	36204	Type 1 diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema, unspecified eye	Mild nonproliferative diabetic retinopathy

Appendix A

Dementia risk factors

[illegible]

Appendix A
Dementia risk factors

E103519	36207	Type 1 diabetes mellitus with proliferative diabetic retinopathy with macular edema, unspecified eye	Diabetic macular edema
E103521	36202	Type 1 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula, right eye	Proliferative diabetic retinopathy
E103522	36202	Type 1 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula, left eye	Proliferative diabetic retinopathy
E103523	36202	Type 1 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula, bilateral	Proliferative diabetic retinopathy
E103529	36202	Type 1 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula, unspecified eye	Proliferative diabetic retinopathy
E103531	36202	Type 1 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, right eye	Proliferative diabetic retinopathy
E103532	36202	Type 1 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, left eye	Proliferative diabetic retinopathy
E103533	36202	Type 1 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, bilateral	Proliferative diabetic retinopathy
E103539	36202	Type 1 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, unspecified eye	Proliferative diabetic retinopathy
E103541	36202	Type 1 diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, right eye	Proliferative diabetic retinopathy
E103542	36202	Type 1 diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, left eye	Proliferative diabetic retinopathy
E103543	36202	Type 1 diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, bilateral	Proliferative diabetic retinopathy
E103549	36202	Type 1 diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, unspecified eye	Proliferative diabetic retinopathy
E103551	36202	Type 1 diabetes mellitus with stable proliferative diabetic retinopathy, right eye	Proliferative diabetic retinopathy
E103552	36202	Type 1 diabetes mellitus with stable proliferative diabetic retinopathy, left eye	Proliferative diabetic retinopathy
E103553	36202	Type 1 diabetes mellitus with stable proliferative diabetic retinopathy, bilateral	Proliferative diabetic retinopathy
E103559	36202	Type 1 diabetes mellitus with stable proliferative diabetic retinopathy, unspecified eye	Proliferative diabetic retinopathy
E103591	36202	Type 1 diabetes mellitus with proliferative diabetic retinopathy without macular edema, right eye	Proliferative diabetic retinopathy
E103592	36202	Type 1 diabetes mellitus with proliferative diabetic retinopathy without macular edema, left eye	Proliferative diabetic retinopathy
E103593	36202	Type 1 diabetes mellitus with proliferative diabetic retinopathy without macular edema, bilateral	Proliferative diabetic retinopathy
E103599	36202	Type 1 diabetes mellitus with proliferative diabetic retinopathy without macular edema, unspecified eye	Proliferative diabetic retinopathy
E11311	36201	Type 2 diabetes mellitus with unspecified diabetic retinopathy with macular edema	Background diabetic retinopathy
E11311	36207	Type 2 diabetes mellitus with unspecified diabetic retinopathy with macular edema	Diabetic macular edema
E11319	36201	Type 2 diabetes mellitus with unspecified diabetic retinopathy without macular edema	Background diabetic retinopathy
E113211	36204	Type 2 diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, right eye	Mild nonproliferative diabetic retinopathy

Appendix A

Dementia risk factors

[illegible]

Appendix A
Dementia risk factors

E113413	36206	Type 2 diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema, bilateral	Severe nonproliferative diabetic retinopathy
E113413	36207	Type 2 diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema, bilateral	Diabetic macular edema
E113419	36206	Type 2 diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema, unspecified eye	Severe nonproliferative diabetic retinopathy
E113419	36207	Type 2 diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema, unspecified eye	Diabetic macular edema
E113491	36206	Type 2 diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema, right eye	Severe nonproliferative diabetic retinopathy
E113492	36206	Type 2 diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema, left eye	Severe nonproliferative diabetic retinopathy
E113493	36206	Type 2 diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema, bilateral	Severe nonproliferative diabetic retinopathy
E113499	36206	Type 2 diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema, unspecified	Severe nonproliferative diabetic retinopathy
E113511	36202	Type 2 diabetes mellitus with proliferative diabetic retinopathy with macular edema, right eye	Proliferative diabetic retinopathy
E113511	36207	Type 2 diabetes mellitus with proliferative diabetic retinopathy with macular edema, right eye	Diabetic macular edema
E113512	36202	Type 2 diabetes mellitus with proliferative diabetic retinopathy with macular edema, left eye	Proliferative diabetic retinopathy
E113512	36207	Type 2 diabetes mellitus with proliferative diabetic retinopathy with macular edema, left eye	Diabetic macular edema
E113513	36202	Type 2 diabetes mellitus with proliferative diabetic retinopathy with macular edema, bilateral	Proliferative diabetic retinopathy
E113513	36207	Type 2 diabetes mellitus with proliferative diabetic retinopathy with macular edema, bilateral	Diabetic macular edema
E113519	36202	Type 2 diabetes mellitus with proliferative diabetic retinopathy with macular edema, unspecified eye	Proliferative diabetic retinopathy
E113519	36207	Type 2 diabetes mellitus with proliferative diabetic retinopathy with macular edema, unspecified eye	Diabetic macular edema
E113521	36202	Type 2 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula, right eye	Proliferative diabetic retinopathy
E113522	36202	Type 2 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula, left eye	Proliferative diabetic retinopathy
E113523	36202	Type 2 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula, bilateral	Proliferative diabetic retinopathy
E113529	36202	Type 2 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula, unspecified eye	Proliferative diabetic retinopathy
E113531	36202	Type 2 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, right eye	Proliferative diabetic retinopathy
E113532	36202	Type 2 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, left eye	Proliferative diabetic retinopathy
E113533	36202	Type 2 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, bilateral	Proliferative diabetic retinopathy
E113539	36202	Type 2 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, unspecified eye	Proliferative diabetic retinopathy
E113541	36202	Type 2 diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, right eye	Proliferative diabetic retinopathy
E113542	36202	Type 2 diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, left eye	Proliferative diabetic retinopathy

Appendix A
Dementia risk factors

E113543	36202	Type 2 diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, bilateral	Proliferative diabetic retinopathy
E113549	36202	Type 2 diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, unspecified eye	Proliferative diabetic retinopathy
E113551	36202	Type 2 diabetes mellitus with stable proliferative diabetic retinopathy, right eye	Proliferative diabetic retinopathy
E113552	36202	Type 2 diabetes mellitus with stable proliferative diabetic retinopathy, left eye	Proliferative diabetic retinopathy
E113553	36202	Type 2 diabetes mellitus with stable proliferative diabetic retinopathy, bilateral	Proliferative diabetic retinopathy
E113559	36202	Type 2 diabetes mellitus with stable proliferative diabetic retinopathy, unspecified eye	Proliferative diabetic retinopathy
E113591	36202	Type 2 diabetes mellitus with proliferative diabetic retinopathy without macular edema, right eye	Proliferative diabetic retinopathy
E113592	36202	Type 2 diabetes mellitus with proliferative diabetic retinopathy without macular edema, left eye	Proliferative diabetic retinopathy
E113593	36202	Type 2 diabetes mellitus with proliferative diabetic retinopathy without macular edema, bilateral	Proliferative diabetic retinopathy
E113599	36202	Type 2 diabetes mellitus with proliferative diabetic retinopathy without macular edema, unspecified eye	Proliferative diabetic retinopathy
E13311	36201	Other specified diabetes mellitus with unspecified diabetic retinopathy with macular edema	Background diabetic retinopathy
E13311	36207	Other specified diabetes mellitus with unspecified diabetic retinopathy with macular edema	Diabetic macular edema
E13319	36201	Other specified diabetes mellitus with unspecified diabetic retinopathy without macular edema	Background diabetic retinopathy
E133211	36204	Other specified diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, right eye	Mild nonproliferative diabetic retinopathy
E133211	36207	Other specified diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, right eye	Diabetic macular edema
E133212	36204	Other specified diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, left eye	Mild nonproliferative diabetic retinopathy
E133212	36207	Other specified diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, left eye	Diabetic macular edema
E133213	36204	Other specified diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, bilateral	Mild nonproliferative diabetic retinopathy
E133213	36207	Other specified diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, bilateral	Diabetic macular edema
E133219	36204	Other specified diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, unspecified eye	Mild nonproliferative diabetic retinopathy
E133219	36207	Other specified diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, unspecified eye	Diabetic macular edema
E133291	36204	Other specified diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema, right eye	Mild nonproliferative diabetic retinopathy
E133292	36204	Other specified diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema, left eye	Mild nonproliferative diabetic retinopathy
E133293	36204	Other specified diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema, bilateral	Mild nonproliferative diabetic retinopathy
E133299	36204	Other specified diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema, unspecified	Mild nonproliferative diabetic retinopathy
E133311	36205	Other specified diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema, right eye	Moderate nonproliferative diabetic retinopathy
E133311	36207	Other specified diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema, right eye	Diabetic macular edema
E133312	36205	Other specified diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema, left eye	Moderate nonproliferative diabetic retinopathy

Appendix A

Dementia risk factors

[illegible]

Appendix A
Dementia risk factors

E133513	36207	Other specified diabetes mellitus with proliferative diabetic retinopathy with macular edema, bilateral	Diabetic macular edema
E133519	36202	Other specified diabetes mellitus with proliferative diabetic retinopathy with macular edema, unspecified eye	Proliferative diabetic retinopathy
E133519	36207	Other specified diabetes mellitus with proliferative diabetic retinopathy with macular edema, unspecified eye	Diabetic macular edema
E133521	36202	Other specified diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula, right eye	Proliferative diabetic retinopathy
E133522	36202	Other specified diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula, left eye	Proliferative diabetic retinopathy
E133523	36202	Other specified diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula, bilateral	Proliferative diabetic retinopathy
E133529	36202	Other specified diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula, unspecified eye	Proliferative diabetic retinopathy
E133531	36202	Other specified diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, right eye	Proliferative diabetic retinopathy
E133532	36202	Other specified diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, left eye	Proliferative diabetic retinopathy
E133533	36202	Other specified diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, bilateral	Proliferative diabetic retinopathy
E133539	36202	Other specified diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, unspecified eye	Proliferative diabetic retinopathy
E133541	36202	Other specified diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, right eye	Proliferative diabetic retinopathy
E133542	36202	Other specified diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, left eye	Proliferative diabetic retinopathy
E133543	36202	Other specified diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, bilateral	Proliferative diabetic retinopathy
E133549	36202	Other specified diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, unspecified eye	Proliferative diabetic retinopathy
E133551	36202	Other specified diabetes mellitus with stable proliferative diabetic retinopathy, right eye	Proliferative diabetic retinopathy
E133552	36202	Other specified diabetes mellitus with stable proliferative diabetic retinopathy, left eye	Proliferative diabetic retinopathy
E133553	36202	Other specified diabetes mellitus with stable proliferative diabetic retinopathy, bilateral	Proliferative diabetic retinopathy
E133559	36202	Other specified diabetes mellitus with stable proliferative diabetic retinopathy, unspecified eye	Proliferative diabetic retinopathy
E133591	36202	Other specified diabetes mellitus with proliferative diabetic retinopathy without macular edema, right eye	Proliferative diabetic retinopathy
E133592	36202	Other specified diabetes mellitus with proliferative diabetic retinopathy without macular edema, left eye	Proliferative diabetic retinopathy
E133593	36202	Other specified diabetes mellitus with proliferative diabetic retinopathy without macular edema, bilateral	Proliferative diabetic retinopathy
E133599	36202	Other specified diabetes mellitus with proliferative diabetic retinopathy without macular edema, unspecified eye	Proliferative diabetic retinopathy
E1336	25050	Other specified diabetes mellitus with diabetic cataract	Diabetes with ophthalmic manifestations, type II or unspecified type, not stated as uncontrolled
E1337X1	25050	Other specified diabetes mellitus with diabetic macular edema, resolved following treatment, right eye	Diabetes with ophthalmic manifestations, type II or unspecified type, not stated as uncontrolled

Appendix A

Appendix A Risk factors

E1337X2	25050	Other specified diabetes mellitus with diabetic macular edema, resolved following treatment, left eye	Diabetes with ophthalmic manifestations, type II or unspecified type, not stated as uncontrolled
E1337X3	25050	Other specified diabetes mellitus with diabetic macular edema, resolved following treatment, bilateral	Diabetes with ophthalmic manifestations, type II or unspecified type, not stated as uncontrolled
E1337X9	25050	Other specified diabetes mellitus with diabetic macular edema, resolved following treatment, unspecified eye	Diabetes with ophthalmic manifestations, type II or unspecified type, not stated as uncontrolled
E1339	25050	Other specified diabetes mellitus with other diabetic ophthalmic complication	Diabetes with ophthalmic manifestations, type II or unspecified type, not stated as uncontrolled
ICD10 Dx	ICD9 Dx	LongDeslCD10	LongDeslCD9
E118	25090	Type 2 diabetes mellitus with unspecified complications	Diabetes with unspecified complication type II or unspecified type not stated as uncontrolled
E138	25090	Other specified diabetes mellitus with unspecified complications	Diabetes with unspecified complication type II or unspecified type not stated as uncontrolled
E108	25091	Type 1 diabetes mellitus with unspecified complications	Diabetes with unspecified complication type I [juvenile type] not stated as uncontrolled
E118	25092	Type 2 diabetes mellitus with unspecified complications	Diabetes with unspecified complication type II or unspecified type uncontrolled
E108	25093	Type 1 diabetes mellitus with unspecified complications	Diabetes with unspecified complication type I [juvenile type] uncontrolled
ICD10 Dx	ICD9 Dx	LongDeslCD10	LongDeslCD9
E109	25001	Type 1 diabetes mellitus without complications	Diabetes mellitus without mention of complication type I [juvenile type] not stated as uncontrolled
E119	25000	Type 2 diabetes mellitus without complications	Diabetes mellitus without mention of complication type II or unspecified type not stated as uncontrolled
E139	25000	Other specified diabetes mellitus without complications	Diabetes mellitus without mention of complication type II or unspecified type not stated as uncontrolled
ICD10 Dx	ICD9 Dx	LongDeslCD10	LongDeslCD9
E0840	3572	Diabetes mellitus due to underlying condition with diabetic neuropathy, unspecified	Polyneuropathy in diabetes
E0842	3572	Diabetes mellitus due to underlying condition with diabetic polyneuropathy	Polyneuropathy in diabetes
E0940	3572	Drug or chemical induced diabetes mellitus with neurological complications with diabetic neuropathy,	Polyneuropathy in diabetes
E0942	3572	Drug or chemical induced diabetes mellitus with neurological complications with diabetic polyneuropathy	Polyneuropathy in diabetes
E1040	3572	Type 1 diabetes mellitus with diabetic neuropathy,	Polyneuropathy in diabetes
E1042	3572	Type 1 diabetes mellitus with diabetic polyneuropathy	Polyneuropathy in diabetes
E1140	3572	Type 2 diabetes mellitus with diabetic neuropathy,	Polyneuropathy in diabetes
E1142	3572	Type 2 diabetes mellitus with diabetic polyneuropathy	Polyneuropathy in diabetes
E1340	3572	Other specified diabetes mellitus with diabetic neuropathy, unspecified	Polyneuropathy in diabetes
E1342	3572	Other specified diabetes mellitus with diabetic	Polyneuropathy in diabetes
E0841	3559	Diabetes mellitus due to underlying condition with diabetic mononeuropathy	Mononeuritis of unspecified site
E0941	3559	Drug or chemical induced diabetes mellitus with neurological complications with diabetic mononeuropathy	Mononeuritis of unspecified site
E1041	3559	Type 1 diabetes mellitus with diabetic mononeuropathy	Mononeuritis of unspecified site
E1141	3559	Type 2 diabetes mellitus with diabetic mononeuropathy	Mononeuritis of unspecified site
E1341	3559	Other specified diabetes mellitus with diabetic mononeuropathy	Mononeuritis of unspecified site

Obesity

ICD10 Dx	ICD9 Dx	LongDeslCD10	LongDeslCD9
E6609	27800	Other obesity due to excess calories	Obesity, unspecified
E661	27800	Drug-induced obesity	Obesity, unspecified
E668	27800	Other obesity	Obesity, unspecified
E669	27800	Obesity, unspecified	Obesity, unspecified
E6601	27801	Morbid (severe) obesity due to excess calories	Morbid obesity
Z6830	V8530	Body mass index (BMI) 30.0-30.9, adult	Body Mass Index 30.0-30.9, adult
Z6831	V8531	Body mass index (BMI) 31.0-31.9, adult	Body Mass Index 31.0-31.9, adult
Z6832	V8532	Body mass index (BMI) 32.0-32.9, adult	Body Mass Index 32.0-32.9, adult
Z6833	V8533	Body mass index (BMI) 33.0-33.9, adult	Body Mass Index 33.0-33.9, adult

Appendix A

Appendix A Risk factors

Z6834	V8534	Body mass index (BMI) 34.0-34.9, adult	Body Mass Index 34.0-34.9, adult
Z6835	V8535	Body mass index (BMI) 35.0-35.9, adult	Body Mass Index 35.0-35.9, adult
Z6836	V8536	Body mass index (BMI) 36.0-36.9, adult	Body Mass Index 36.0-36.9, adult
Z6837	V8537	Body mass index (BMI) 37.0-37.9, adult	Body Mass Index 37.0-37.9, adult
Z6838	V8538	Body mass index (BMI) 38.0-38.9, adult	Body Mass Index 38.0-38.9, adult
Z6839	V8539	Body mass index (BMI) 39.0-39.9, adult	Body Mass Index 39.0-39.9, adult
Z6841	V8541	Body mass index (BMI) 40.0-44.9, adult	Body Mass Index 40.0-44.9, adult
Z6842	V8542	Body mass index (BMI) 45.0-49.9, adult	Body Mass Index 45.0-49.9, adult
Z6843	V8543	Body mass index (BMI) 50-59.9, adult	Body Mass Index 50.0-59.9, adult
Z6844	V8544	Body mass index (BMI) 60.0-69.9, adult	Body Mass Index 60.0-69.9, adult
Z6845	V8545	Body mass index (BMI) 70 or greater, adult	Body Mass Index 70 and over, adult

Prescriptions
Orlistat
Sibutramine
Phentermine
Benzphetamine
Phendimetrazine
Diethylpropion

Hypertension

ICD10 Dx	ICD9 Dx	LongDeslCD10	LongDeslCD9
I10	4010	Essential (primary) hypertension	Malignant essential hypertension
I10	4011	Essential (primary) hypertension	Benign essential hypertension
I10	4019	Essential (primary) hypertension	Unspecified essential hypertension
I160	4019	Hypertensive urgency	Unspecified essential hypertension
I161	4019	Hypertensive emergency	Unspecified essential hypertension
I169	4019	Hypertensive crisis, unspecified	Unspecified essential hypertension
I119	40200	Hypertensive heart disease without heart failure	Malignant hypertensive heart disease without heart failure
I110	40201	Hypertensive heart disease with heart failure	Malignant hypertensive heart disease with heart failure
I119	40210	Hypertensive heart disease without heart failure	Benign hypertensive heart disease without heart failure
I110	40211	Hypertensive heart disease with heart failure	Benign hypertensive heart disease with heart failure
I119	40290	Hypertensive heart disease without heart failure	Unspecified hypertensive heart disease without heart
I110	40291	Hypertensive heart disease with heart failure	Unspecified hypertensive heart disease with heart failure
I129	40300	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Hypertensive chronic kidney disease, malignant, with chronic kidney disease stage I through stage IV, or unspecified
I120	40301	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease	Hypertensive chronic kidney disease, malignant, with chronic kidney disease stage V or end stage renal disease
I129	40310	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Hypertensive chronic kidney disease, benign, with chronic kidney disease stage I through stage IV, or unspecified
I120	40311	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease	Hypertensive chronic kidney disease, benign, with chronic kidney disease stage V or end stage renal disease
I129	40390	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified
I120	40391	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease
I1310	40400	Hypertensive heart and chronic kidney disease without heart failure, with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Hypertensive heart and chronic kidney disease, malignant, without heart failure and with chronic kidney disease stage I through stage IV, or unspecified
I130	40401	Hypertensive heart and chronic kidney disease with heart failure and stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Hypertensive heart and chronic kidney disease, malignant, with heart failure and with chronic kidney disease stage I through stage IV, or unspecified
I1311	40402	Hypertensive heart and chronic kidney disease without heart failure, with stage 5 chronic kidney disease, or end stage renal disease	Hypertensive heart and chronic kidney disease, malignant, without heart failure and with chronic kidney disease stage V or end stage renal disease
I132	40403	Hypertensive heart and chronic kidney disease with heart failure and with stage 5 chronic kidney disease, or end stage renal disease	Hypertensive heart and chronic kidney disease, malignant, with heart failure and with chronic kidney disease stage V or end stage renal disease

Appendix A

Appendix A Risk factors

I1310	40410	Hypertensive heart and chronic kidney disease without heart failure, with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Hypertensive heart and chronic kidney disease, benign, without heart failure and with chronic kidney disease stage I through stage IV, or unspecified
I130	40411	Hypertensive heart and chronic kidney disease with heart failure and stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Hypertensive heart and chronic kidney disease, benign, with heart failure and with chronic kidney disease stage I through stage IV, or unspecified
I1311	40412	Hypertensive heart and chronic kidney disease without heart failure, with stage 5 chronic kidney disease, or end stage renal disease	Hypertensive heart and chronic kidney disease, benign, without heart failure and with chronic kidney disease stage V or end stage renal disease
I132	40413	Hypertensive heart and chronic kidney disease with heart failure and with stage 5 chronic kidney disease, or end stage renal disease	Hypertensive heart and chronic kidney disease, benign, with heart failure and chronic kidney disease stage V or end stage renal disease
I1310	40490	Hypertensive heart and chronic kidney disease without heart failure, with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Hypertensive heart and chronic kidney disease, unspecified, without heart failure and with chronic kidney disease stage I through stage IV, or unspecified
I130	40491	Hypertensive heart and chronic kidney disease with heart failure and stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Hypertensive heart and chronic kidney disease, unspecified, with heart failure and with chronic kidney disease stage I through stage IV, or unspecified
I1311	40492	Hypertensive heart and chronic kidney disease without heart failure, with stage 5 chronic kidney disease, or end stage renal disease	Hypertensive heart and chronic kidney disease, unspecified, without heart failure and with chronic kidney disease stage V or end stage renal disease
I132	40493	Hypertensive heart and chronic kidney disease with heart failure and with stage 5 chronic kidney disease, or end stage renal disease	Hypertensive heart and chronic kidney disease, unspecified, with heart failure and chronic kidney disease stage V or end stage renal disease
I150	40501	Renovascular hypertension	Malignant renovascular hypertension
I158	40509	Other secondary hypertension	Other malignant secondary hypertension
I150	40511	Renovascular hypertension	Benign renovascular hypertension
I158	40519	Other secondary hypertension	Other benign secondary hypertension
I150	40591	Renovascular hypertension	Unspecified renovascular hypertension
I151	40591	Hypertension secondary to other renal disorders	Unspecified renovascular hypertension
N262	40591	Page kidney	Unspecified renovascular hypertension
I152	40599	Hypertension secondary to endocrine disorders	Other unspecified secondary hypertension
I158	40599	Other secondary hypertension	Other unspecified secondary hypertension
I159	40599	Secondary hypertension, unspecified	Other unspecified secondary hypertension

Coronary artery disease

ICD10 Dx	ICD9 Dx	LongDeslCD10	LongDeslCD9
I2109	41000	ST elevation (STEMI) myocardial infarction involving other coronary artery of anterior wall	Acute myocardial infarction of anterolateral wall, episode of care unspecified
I2109	41001	ST elevation (STEMI) myocardial infarction involving other coronary artery of anterior wall	Acute myocardial infarction of anterolateral wall, initial episode of care
I220	41001	Subsequent ST elevation (STEMI) myocardial infarction of anterior wall	Acute myocardial infarction of anterolateral wall, initial episode of care
I2109	41002	ST elevation (STEMI) myocardial infarction involving other coronary artery of anterior wall	Acute myocardial infarction of anterolateral wall, subsequent episode of care
I2109	41010	ST elevation (STEMI) myocardial infarction involving other coronary artery of anterior wall	Acute myocardial infarction of other anterior wall, episode of care unspecified
I2101	41011	ST elevation (STEMI) myocardial infarction involving left main coronary artery	Acute myocardial infarction of other anterior wall, initial episode of care
I2102	41011	ST elevation (STEMI) myocardial infarction involving left anterior descending coronary artery	Acute myocardial infarction of other anterior wall, initial episode of care
I2109	41011	ST elevation (STEMI) myocardial infarction involving other coronary artery of anterior wall	Acute myocardial infarction of other anterior wall, initial episode of care
I220	41011	Subsequent ST elevation (STEMI) myocardial infarction of anterior wall	Acute myocardial infarction of other anterior wall, initial episode of care
I2109	41012	ST elevation (STEMI) myocardial infarction involving other coronary artery of anterior wall	Acute myocardial infarction of other anterior wall, subsequent episode of care
I2119	41020	ST elevation (STEMI) myocardial infarction involving other coronary artery of inferior wall	Acute myocardial infarction of inferolateral wall, episode of care unspecified
I2119	41021	ST elevation (STEMI) myocardial infarction involving other coronary artery of inferior wall	Acute myocardial infarction of inferolateral wall, initial episode of care

Appendix A

Dementia risk factors

I221	41021	Subsequent ST elevation (STEMI) myocardial infarction of inferior wall	Acute myocardial infarction of inferolateral wall, initial episode of care
I2119	41022	ST elevation (STEMI) myocardial infarction involving other coronary artery of inferior wall	Acute myocardial infarction of inferolateral wall, subsequent episode of care
I2111	41030	ST elevation (STEMI) myocardial infarction involving right coronary artery	Acute myocardial infarction of inferoposterior wall, episode of care unspecified
I2111	41031	ST elevation (STEMI) myocardial infarction involving right coronary artery	Acute myocardial infarction of inferoposterior wall, initial episode of care
I221	41031	Subsequent ST elevation (STEMI) myocardial infarction of inferior wall	Acute myocardial infarction of inferoposterior wall, initial episode of care
I2111	41032	ST elevation (STEMI) myocardial infarction involving right coronary artery	Acute myocardial infarction of inferoposterior wall, subsequent episode of care
I2119	41040	ST elevation (STEMI) myocardial infarction involving other coronary artery of inferior wall	Acute myocardial infarction of other inferior wall, episode of care unspecified
I2119	41041	ST elevation (STEMI) myocardial infarction involving other coronary artery of inferior wall	Acute myocardial infarction of other inferior wall, initial episode of care
I221	41041	Subsequent ST elevation (STEMI) myocardial infarction of inferior wall	Acute myocardial infarction of other inferior wall, initial episode of care
I2119	41042	ST elevation (STEMI) myocardial infarction involving other coronary artery of inferior wall	Acute myocardial infarction of other inferior wall, subsequent episode of care
I2129	41050	ST elevation (STEMI) myocardial infarction involving other sites	Acute myocardial infarction of other lateral wall, episode of care unspecified
I2129	41051	ST elevation (STEMI) myocardial infarction involving other sites	Acute myocardial infarction of other lateral wall, initial episode of care
I228	41051	Subsequent ST elevation (STEMI) myocardial infarction of other sites	Acute myocardial infarction of other lateral wall, initial episode of care
I2129	41052	ST elevation (STEMI) myocardial infarction involving other sites	Acute myocardial infarction of other lateral wall, subsequent episode of care
I2129	41060	ST elevation (STEMI) myocardial infarction involving other sites	True posterior wall infarction, episode of care unspecified
I2129	41061	ST elevation (STEMI) myocardial infarction involving other sites	True posterior wall infarction, initial episode of care
I228	41061	Subsequent ST elevation (STEMI) myocardial infarction of other sites	True posterior wall infarction, initial episode of care
I2129	41062	ST elevation (STEMI) myocardial infarction involving other sites	True posterior wall infarction, subsequent episode of care
I214	41070	Non-ST elevation (NSTEMI) myocardial infarction	Subendocardial infarction, episode of care unspecified
I214	41071	Non-ST elevation (NSTEMI) myocardial infarction	Subendocardial infarction, initial episode of care
I222	41071	Subsequent non-ST elevation (NSTEMI) myocardial	Subendocardial infarction, initial episode of care
I214	41072	Non-ST elevation (NSTEMI) myocardial infarction	Subendocardial infarction, subsequent episode of care
I2129	41080	ST elevation (STEMI) myocardial infarction involving other sites	Acute myocardial infarction of other specified sites, episode of care unspecified
I2121	41081	ST elevation (STEMI) myocardial infarction involving left circumflex coronary artery	Acute myocardial infarction of other specified sites, initial episode of care
I2129	41081	ST elevation (STEMI) myocardial infarction involving other sites	Acute myocardial infarction of other specified sites, initial episode of care
I228	41081	Subsequent ST elevation (STEMI) myocardial infarction of other sites	Acute myocardial infarction of other specified sites, initial episode of care
I2129	41082	ST elevation (STEMI) myocardial infarction involving other sites	Acute myocardial infarction of other specified sites, subsequent episode of care
I213	41090	ST elevation (STEMI) myocardial infarction of unspecified site	Acute myocardial infarction of unspecified site, episode of care unspecified
I213	41091	ST elevation (STEMI) myocardial infarction of unspecified site	Acute myocardial infarction of unspecified site, initial episode of care
I229	41091	Subsequent ST elevation (STEMI) myocardial infarction of unspecified site	Acute myocardial infarction of unspecified site, initial episode of care
I213	41092	ST elevation (STEMI) myocardial infarction of unspecified site	Acute myocardial infarction of unspecified site, subsequent episode of care
ICD10 Dx	ICD9 Dx	LongDeslCD10	LongDeslCD9
I2510	41400	Atherosclerotic heart disease of native coronary artery without angina pectoris	Coronary atherosclerosis of unspecified type of vessel, native or graft

Appendix A
Dementia risk factors

I2510	41401	Atherosclerotic heart disease of native coronary artery without angina pectoris	Coronary atherosclerosis of native coronary artery
I25110	41401	Atherosclerotic heart disease of native coronary artery with unstable angina pectoris	Coronary atherosclerosis of native coronary artery
I25111	41401	Atherosclerotic heart disease of native coronary artery with angina pectoris with documented spasm	Coronary atherosclerosis of native coronary artery
I25118	41401	Atherosclerotic heart disease of native coronary artery with other forms of angina pectoris	Coronary atherosclerosis of native coronary artery
I25119	41401	Atherosclerotic heart disease of native coronary artery with unspecified angina pectoris	Coronary atherosclerosis of native coronary artery
I25710	41402	Atherosclerosis of autologous vein coronary artery bypass graft(s) with unstable angina pectoris	Coronary atherosclerosis of autologous vein bypass graft
I25711	41402	Atherosclerosis of autologous vein coronary artery bypass graft(s) with angina pectoris with documented spasm	Coronary atherosclerosis of autologous vein bypass graft
I25718	41402	Atherosclerosis of autologous vein coronary artery bypass graft(s) with other forms of angina pectoris	Coronary atherosclerosis of autologous vein bypass graft
I25719	41402	Atherosclerosis of autologous vein coronary artery bypass graft(s) with unspecified angina pectoris	Coronary atherosclerosis of autologous vein bypass graft
I25810	41402	Atherosclerosis of coronary artery bypass graft(s) without angina pectoris	Coronary atherosclerosis of autologous vein bypass graft
I25730	41403	Atherosclerosis of nonautologous biological coronary artery bypass graft(s) with unstable angina pectoris	Coronary atherosclerosis of nonautologous biological bypass graft
I25731	41403	Atherosclerosis of nonautologous biological coronary artery bypass graft(s) with angina pectoris with documented spasm	Coronary atherosclerosis of nonautologous biological bypass graft
I25738	41403	Atherosclerosis of nonautologous biological coronary artery bypass graft(s) with other forms of angina pectoris	Coronary atherosclerosis of nonautologous biological bypass graft
I25739	41403	Atherosclerosis of nonautologous biological coronary artery bypass graft(s) with unspecified angina pectoris	Coronary atherosclerosis of nonautologous biological bypass graft
I25810	41403	Atherosclerosis of coronary artery bypass graft(s) without angina pectoris	Coronary atherosclerosis of nonautologous biological bypass graft
I25720	41404	Atherosclerosis of autologous artery coronary artery bypass graft(s) with unstable angina pectoris	Coronary atherosclerosis of artery bypass graft
I25721	41404	Atherosclerosis of autologous artery coronary artery bypass graft(s) with angina pectoris with documented spasm	Coronary atherosclerosis of artery bypass graft
I25728	41404	Atherosclerosis of autologous artery coronary artery bypass graft(s) with other forms of angina pectoris	Coronary atherosclerosis of artery bypass graft
I25729	41404	Atherosclerosis of autologous artery coronary artery bypass graft(s) with unspecified angina pectoris	Coronary atherosclerosis of artery bypass graft
I25790	41404	Atherosclerosis of other coronary artery bypass graft(s) with unstable angina pectoris	Coronary atherosclerosis of artery bypass graft
I25791	41404	Atherosclerosis of other coronary artery bypass graft(s) with angina pectoris with documented spasm	Coronary atherosclerosis of artery bypass graft
I25798	41404	Atherosclerosis of other coronary artery bypass graft(s) with other forms of angina pectoris	Coronary atherosclerosis of artery bypass graft
I25799	41404	Atherosclerosis of other coronary artery bypass graft(s) with unspecified angina pectoris	Coronary atherosclerosis of artery bypass graft
I25810	41404	Atherosclerosis of coronary artery bypass graft(s) without angina pectoris	Coronary atherosclerosis of artery bypass graft
I25700	41405	Atherosclerosis of coronary artery bypass graft(s), unspecified, with unstable angina pectoris	Coronary atherosclerosis of unspecified bypass graft
I25701	41405	Atherosclerosis of coronary artery bypass graft(s), unspecified, with angina pectoris with documented spasm	Coronary atherosclerosis of unspecified bypass graft
I25708	41405	Atherosclerosis of coronary artery bypass graft(s), unspecified, with other forms of angina pectoris	Coronary atherosclerosis of unspecified bypass graft
I25709	41405	Atherosclerosis of coronary artery bypass graft(s), unspecified, with unspecified angina pectoris	Coronary atherosclerosis of unspecified bypass graft
I25790	41405	Atherosclerosis of other coronary artery bypass graft(s) with unstable angina pectoris	Coronary atherosclerosis of unspecified bypass graft
I25791	41405	Atherosclerosis of other coronary artery bypass graft(s) with angina pectoris with documented spasm	Coronary atherosclerosis of unspecified bypass graft
I25798	41405	Atherosclerosis of other coronary artery bypass graft(s) with other forms of angina pectoris	Coronary atherosclerosis of unspecified bypass graft

Appendix A

Dementia risk factors

I25799	41405	Atherosclerosis of other coronary artery bypass graft(s) with unspecified angina pectoris	Coronary atherosclerosis of unspecified bypass graft
I25810	41405	Atherosclerosis of coronary artery bypass graft(s) without angina pectoris	Coronary atherosclerosis of unspecified bypass graft
I25750	41406	Atherosclerosis of native coronary artery of transplanted heart with unstable angina	Coronary atherosclerosis of native coronary artery of transplanted heart
I25751	41406	Atherosclerosis of native coronary artery of transplanted heart with angina pectoris with documented spasm	Coronary atherosclerosis of native coronary artery of transplanted heart
I25758	41406	Atherosclerosis of native coronary artery of transplanted heart with other forms of angina pectoris	Coronary atherosclerosis of native coronary artery of transplanted heart
I25759	41406	Atherosclerosis of native coronary artery of transplanted heart with unspecified angina pectoris	Coronary atherosclerosis of native coronary artery of transplanted heart
I25811	41406	Atherosclerosis of native coronary artery of transplanted heart without angina pectoris	Coronary atherosclerosis of native coronary artery of transplanted heart
I25760	41407	Atherosclerosis of bypass graft of coronary artery of transplanted heart with unstable angina	Coronary atherosclerosis of bypass graft (artery) (vein) of transplanted heart
I25761	41407	Atherosclerosis of bypass graft of coronary artery of transplanted heart with angina pectoris with documented spasm	Coronary atherosclerosis of bypass graft (artery) (vein) of transplanted heart
I25768	41407	Atherosclerosis of bypass graft of coronary artery of transplanted heart with other forms of angina pectoris	Coronary atherosclerosis of bypass graft (artery) (vein) of transplanted heart
I25769	41407	Atherosclerosis of bypass graft of coronary artery of transplanted heart with unspecified angina pectoris	Coronary atherosclerosis of bypass graft (artery) (vein) of transplanted heart
I25812	41407	Atherosclerosis of bypass graft of coronary artery of transplanted heart without angina pectoris	Coronary atherosclerosis of bypass graft (artery) (vein) of transplanted heart

Depression

ICD10 Dx	ICD9 Dx	LongDeslCD10	LongDeslCD9
F0630	29383	Mood disorder due to known physiological condition, unspecified	Mood disorder in conditions classified elsewhere
F0631	29383	Mood disorder due to known physiological condition with depressive features	Mood disorder in conditions classified elsewhere
F0632	29383	Mood disorder due to known physiological condition with major depressive-like episode	Mood disorder in conditions classified elsewhere
F0633	29383	Mood disorder due to known physiological condition with manic features	Mood disorder in conditions classified elsewhere
F0634	29383	Mood disorder due to known physiological condition with mixed features	Mood disorder in conditions classified elsewhere
F329	29620	Major depressive disorder, single episode, unspecified	Major depressive affective disorder, single episode,
F320	29621	Major depressive disorder, single episode, mild	Major depressive affective disorder, single episode, mild
F321	29622	Major depressive disorder, single episode, moderate	Major depressive affective disorder, single episode,
F322	29623	Major depressive disorder, single episode, severe without psychotic features	Major depressive affective disorder, single episode, severe, without mention of psychotic behavior
F323	29624	Major depressive disorder, single episode, severe with psychotic features	Major depressive affective disorder, single episode, severe, specified as with psychotic behavior
F324	29625	Major depressive disorder, single episode, in partial remission	Major depressive affective disorder, single episode, in partial or unspecified remission
F325	29626	Major depressive disorder, single episode, in full remission	Major depressive affective disorder, single episode, in full remission
F3340	29630	Major depressive disorder, recurrent, in remission, unspecified	Major depressive affective disorder, recurrent episode, unspecified
F339	29630	Major depressive disorder, recurrent, unspecified	Major depressive affective disorder, recurrent episode, unspecified
F330	29631	Major depressive disorder, recurrent, mild	Major depressive affective disorder, recurrent episode, mild
F331	29632	Major depressive disorder, recurrent, moderate	Major depressive affective disorder, recurrent episode, moderate
F332	29633	Major depressive disorder, recurrent severe without psychotic features	Major depressive affective disorder, recurrent episode, severe, without mention of psychotic behavior
F333	29634	Major depressive disorder, recurrent, severe with psychotic symptoms	Major depressive affective disorder, recurrent episode, severe, specified as with psychotic behavior
F3341	29635	Major depressive disorder, recurrent, in partial remission	Major depressive affective disorder, recurrent episode, in partial or unspecified remission

Appendix A

Dementia risk factors

F3342	29636	Major depressive disorder, recurrent, in full remission	Major depressive affective disorder, recurrent episode, in full remission
F39	29690	Unspecified mood [affective] disorder	Unspecified episodic mood disorder
F323	2980	Major depressive disorder, single episode, severe with psychotic features	Depressive type psychosis
F333	2980	Major depressive disorder, recurrent, severe with psychotic symptoms	Depressive type psychosis
F341	3004	Dysthymic disorder	Dysthymic disorder
F4321	3090	Adjustment disorder with depressed mood	Adjustment disorder with depressed mood
F4321	3091	Adjustment disorder with depressed mood	Prolonged depressive reaction
F4323	30928	Adjustment disorder with mixed anxiety and depressed	Adjustment disorder with mixed anxiety and depressed
F329	311	Major depressive disorder, single episode, unspecified	Depressive disorder, not elsewhere classified

Anxiety

ICD10 Dx	ICD9 Dx	LongDeslCD10	LongDeslCD9
F064	29384	Anxiety disorder due to known physiological condition	Anxiety disorder in conditions classified elsewhere
F419	30000	Anxiety disorder, unspecified	Anxiety state, unspecified
F410	30001	Panic disorder [episodic paroxysmal anxiety] without agoraphobia	Panic disorder without agoraphobia
F411	30002	Generalized anxiety disorder	Generalized anxiety disorder
F413	30009	Other mixed anxiety disorders	Other anxiety states
F418	30009	Other specified anxiety disorders	Other anxiety states
F409	30020	Phobic anxiety disorder, unspecified	Phobia, unspecified
F4001	30021	Agoraphobia with panic disorder	Agoraphobia with panic disorder
F4000	30022	Agoraphobia, unspecified	Agoraphobia without mention of panic attacks
F4002	30022	Agoraphobia without panic disorder	Agoraphobia without mention of panic attacks
F4010	30023	Social phobia, unspecified	Social phobia
F4011	30023	Social phobia, generalized	Social phobia
F40210	30029	Arachnophobia	Other isolated or specific phobias
F40218	30029	Other animal type phobia	Other isolated or specific phobias
F40220	30029	Fear of thunderstorms	Other isolated or specific phobias
F40228	30029	Other natural environment type phobia	Other isolated or specific phobias
F40230	30029	Fear of blood	Other isolated or specific phobias
F40231	30029	Fear of injections and transfusions	Other isolated or specific phobias
F40232	30029	Fear of other medical care	Other isolated or specific phobias
F40233	30029	Fear of injury	Other isolated or specific phobias
F40240	30029	Claustrophobia	Other isolated or specific phobias
F40241	30029	Acrophobia	Other isolated or specific phobias
F40242	30029	Fear of bridges	Other isolated or specific phobias
F40243	30029	Fear of flying	Other isolated or specific phobias
F40248	30029	Other situational type phobia	Other isolated or specific phobias
F40290	30029	Androphobia	Other isolated or specific phobias
F40291	30029	Gynephobia	Other isolated or specific phobias
F40298	30029	Other specified phobia	Other isolated or specific phobias
F408	30029	Other phobic anxiety disorders	Other isolated or specific phobias
F422	3003	Mixed obsessional thoughts and acts	Obsessive-compulsive disorders
F423	3003	Hoarding disorder	Obsessive-compulsive disorders
F428	3003	Other obsessive-compulsive disorder	Obsessive-compulsive disorders
F429	3003	Obsessive-compulsive disorder, unspecified	Obsessive-compulsive disorders
F430	3080	Acute stress reaction	Predominant disturbance of emotions
F4322	30924	Adjustment disorder with anxiety	Adjustment disorder with anxiety
F4310	30981	Post-traumatic stress disorder, unspecified	Posttraumatic stress disorder
F4311	30981	Post-traumatic stress disorder, acute	Posttraumatic stress disorder
F4312	30981	Post-traumatic stress disorder, chronic	Posttraumatic stress disorder

Bipolar disorder

ICD10 Dx	ICD9 Dx	LongDeslCD10	LongDeslCD9
F3010	29600	Manic episode without psychotic symptoms, unspecified	Bipolar I disorder, single manic episode, unspecified
F3011	29601	Manic episode without psychotic symptoms, mild	Bipolar I disorder, single manic episode, mild
F3012	29602	Manic episode without psychotic symptoms, moderate	Bipolar I disorder, single manic episode, moderate
F3013	29603	Manic episode, severe, without psychotic symptoms	Bipolar I disorder, single manic episode, severe, without mention of psychotic behavior

Appendix A

Dementia risk factors

F302	29604	Manic episode, severe with psychotic symptoms	Bipolar I disorder, single manic episode, severe, specified as with psychotic behavior
F303	29605	Manic episode in partial remission	Bipolar I disorder, single manic episode, in partial or unspecified remission
F304	29606	Manic episode in full remission	Bipolar I disorder, single manic episode, in full remission
F3110	29640	Bipolar disorder, current episode manic without psychotic features, unspecified	Bipolar I disorder, most recent episode (or current) manic, unspecified
F3111	29641	Bipolar disorder, current episode manic without psychotic features, mild	Bipolar I disorder, most recent episode (or current) manic, mild
F3112	29642	Bipolar disorder, current episode manic without psychotic features, moderate	Bipolar I disorder, most recent episode (or current) manic, moderate
F3113	29643	Bipolar disorder, current episode manic without psychotic features, severe	Bipolar I disorder, most recent episode (or current) manic, severe, without mention of psychotic behavior
F312	29644	Bipolar disorder, current episode manic severe with psychotic features	Bipolar I disorder, most recent episode (or current) manic, severe, specified as with psychotic behavior
F3173	29645	Bipolar disorder, in partial remission, most recent episode manic	Bipolar I disorder, most recent episode (or current) manic, in partial or unspecified remission
F3174	29646	Bipolar disorder, in full remission, most recent episode manic	Bipolar I disorder, most recent episode (or current) manic, in full remission
F3130	29650	Bipolar disorder, current episode depressed, mild or moderate severity, unspecified	Bipolar I disorder, most recent episode (or current) depressed, unspecified
F3131	29651	Bipolar disorder, current episode depressed, mild	Bipolar I disorder, most recent episode (or current) depressed, mild
F3132	29652	Bipolar disorder, current episode depressed, moderate	Bipolar I disorder, most recent episode (or current) depressed, moderate
F314	29653	Bipolar disorder, current episode depressed, severe, without psychotic features	Bipolar I disorder, most recent episode (or current) depressed, severe, without mention of psychotic behavior
F315	29654	Bipolar disorder, current episode depressed, severe, with psychotic features	Bipolar I disorder, most recent episode (or current) depressed, severe, specified as with psychotic behavior
F3175	29655	Bipolar disorder, in partial remission, most recent episode depressed	Bipolar I disorder, most recent episode (or current) depressed, in partial or unspecified remission
F3176	29656	Bipolar disorder, in full remission, most recent episode depressed	Bipolar I disorder, most recent episode (or current) depressed, in full remission
F3160	29660	Bipolar disorder, current episode mixed, unspecified	Bipolar I disorder, most recent episode (or current) mixed, unspecified
F3161	29661	Bipolar disorder, current episode mixed, mild	Bipolar I disorder, most recent episode (or current) mixed, mild
F3162	29662	Bipolar disorder, current episode mixed, moderate	Bipolar I disorder, most recent episode (or current) mixed, moderate
F3163	29663	Bipolar disorder, current episode mixed, severe, without psychotic features	Bipolar I disorder, most recent episode (or current) mixed, severe, without mention of psychotic behavior
F3164	29664	Bipolar disorder, current episode mixed, severe, with psychotic features	Bipolar I disorder, most recent episode (or current) mixed, severe, specified as with psychotic behavior
F3177	29665	Bipolar disorder, in partial remission, most recent episode mixed	Bipolar I disorder, most recent episode (or current) mixed, in partial or unspecified remission
F3178	29666	Bipolar disorder, in full remission, most recent episode mixed	Bipolar I disorder, most recent episode (or current) mixed, in full remission
F319	29680	Bipolar disorder, unspecified	Bipolar disorder, unspecified
F308	29681	Other manic episodes	Atypical manic disorder
F3289	29682	Other specified depressive episodes	Atypical depressive disorder
F3181	29689	Bipolar II disorder	Other bipolar disorders
F3481	29699	Disruptive mood dysregulation disorder	Other specified episodic mood disorder
F3489	29699	Other specified persistent mood disorders	Other specified episodic mood disorder
F309	29600	Manic episode, unspecified	Bipolar I disorder, single manic episode, unspecified
F3010	29610	Manic episode without psychotic symptoms, unspecified	Manic affective disorder, recurrent episode, unspecified
F3011	29611	Manic episode without psychotic symptoms, mild	Manic affective disorder, recurrent episode, mild
F3012	29612	Manic episode without psychotic symptoms, moderate	Manic affective disorder, recurrent episode, moderate
F3013	29613	Manic episode, severe, without psychotic symptoms	Manic affective disorder, recurrent episode, severe, without mention of psychotic behavior
F302	29614	Manic episode, severe with psychotic symptoms	Manic affective disorder, recurrent episode, severe, specified as with psychotic behavior
F303	29615	Manic episode in partial remission	Manic affective disorder, recurrent episode, in partial or unspecified remission

Appendix A

Dementia risk factors

F304	29616	Manic episode in full remission	Manic affective disorder, recurrent episode, in full remission
F310	29640	Bipolar disorder, current episode hypomanic	Bipolar I disorder, most recent episode (or current) manic, unspecified
F3189	29640	Other bipolar disorder	Bipolar I disorder, most recent episode (or current) manic, unspecified
F3170	2967	Bipolar disorder, currently in remission, most recent episode unspecified	Bipolar I disorder, most recent episode (or current) unspecified
F3171	2967	Bipolar disorder, in partial remission, most recent episode hypomanic	Bipolar I disorder, most recent episode (or current) unspecified
F3172	2967	Bipolar disorder, in full remission, most recent episode hypomanic	Bipolar I disorder, most recent episode (or current) unspecified
F319	2967	Bipolar disorder, unspecified	Bipolar I disorder, most recent episode (or current)
F338	29699	Other recurrent depressive disorders	Other specified episodic mood disorder
F349	29699	Persistent mood [affective] disorder, unspecified	Other specified episodic mood disorder

Schizophrenia

ICD9 Dx	ICD10 Dx	LongDesICD9	LongDesICD10
295.00-295.05	F20.89	Simple type schizophrenia	Other schizophrenia
295.10-295.15	F20.1	Disorganized type schizophrenia	Disorganized schizophrenia
295.20-295.25	F20.2	Catatonic type schizophrenia	Catatonic schizophrenia
295.30-295.35	F20.0	Paranoid type schizophrenia	Paranoid schizophrenia
295.40-295.45	F20.81	Schizophreniform disorder	Schizophreniform disorder
295.50-295.55	F20.89	Latent schizophrenia	Other schizophrenia
295.60-295.65	F20.5	Schizophrenic disorders, residual type	Residual schizophrenia
295.7	F25.9	Schizoaffective disorder, unspecified	Schizoaffective disorder, unspecified
295.71-295.75	F25.0, F25.1, F25.8	Schizoaffective disorder	Schizoaffective disorders
295.80-295.85	F20.89	Other specified types of schizophrenia	Other schizophrenia
295.9	F20.3	Unspecified schizophrenia, unspecified	Undifferentiated schizophrenia
295.91	F20.9	Unspecified schizophrenia, subchronic	Schizophrenia, unspecified
295.92	F20.9	Unspecified schizophrenia, chronic	Schizophrenia, unspecified
295.93	F20.9	Unspecified schizophrenia, subchronic with acute	Schizophrenia, unspecified
295.94	F20.9	Unspecified schizophrenia, chronic with acute exacerbation	Schizophrenia, unspecified
295.95	F20.9	Unspecified schizophrenia, in remission	Schizophrenia, unspecified

Appendix A

Lifestyle factors and markers for healthy behavior

Smoking

ICD10 Dx	ICD9 Dx	LongDesICD10	LongDesICD9
F17200	3051	Nicotine dependence, unspecified, uncomplicated	Tobacco use disorder
F17201	3051	Nicotine dependence, unspecified, in remission	Tobacco use disorder
F17210	3051	Nicotine dependence, cigarettes, uncomplicated	Tobacco use disorder
F17211	3051	Nicotine dependence, cigarettes, in remission	Tobacco use disorder
F17220	3051	Nicotine dependence, chewing tobacco, uncomplicated	Tobacco use disorder
F17221	3051	Nicotine dependence, chewing tobacco, in remission	Tobacco use disorder
F17290	3051	Nicotine dependence, other tobacco product, uncomplicated	Tobacco use disorder
F17291	3051	Nicotine dependence, other tobacco product, in remission	Tobacco use disorder
Z87891	V1582	Personal history of nicotine dependence	Personal history of tobacco use
CPT codes			
99406			
99407			
G0436			
G0437			
G9016			
S9453			
S4995			
G9276			
G9458			
1034F			
4001F			
4004F			

OR dispensing of: At least one nicotine or varenicline prescription

Mammography

CPT
76082
76083
76092
HCPCS
G0202
G0203
ICD10 Px code
Z12.31

Colonoscopy

ICD10 Px	ICD9 Px	LongDesICD10	LongDesICD9
0DJD8ZZ	4523	Inspection of Lower Intestinal Tract, Via Natural or Artificial Opening Endoscopic	Colonoscopy
CPT			
45378			
45379			

Appendix A

Lifestyle factors and markers for healthy behavior

45380
45381
45382
45383
45384
45385
45386
45387
45388
45389
45390
45391
45392
HCPCS
G0105
G0121

Fecal occult blood test

HCPCS
G0107
G0328
CPT
82270
82274

Influenza vaccination

ICD10 Dx	ICD9 Dx	LongDesICD10	LongDesICD9
Z23	V0481	Encounter for immunization	Need for prophylactic vaccination and inoculation against influenza
Z23	V066	Encounter for immunization	Need for prophylactic vaccination and inoculation against streptococcus pneumoniae [pneumococcus] and influenza
CPT			
90655			
90656			
90657			
90658			
90659			
90660			
90724			
HCPCS			
G0008			

Pneumococcal vaccination

ICD10 Dx	ICD9 Dx	LongDesICD10	LongDesICD9
Z23	V0382	Encounter for immunization	Other specified vaccinations against streptococcus pneumoniae [pneumococcus]
CPT			
90669			

Appendix A

Lifestyle factors and markers for healthy behavior

90670
90732

Herpes zoster vaccination

CPT
90376
90750

BMD test

CPT
76070
76075
76076
76977
77080
77085

Appendix A

Healthcare utilization measures

Number of generic medications

NDC generic drug name has any value

If multiple events on a single day, the value is measured as combined values.

Number of ED visits

HCPCS					
99281	99282	99283	99284	99285	99288

Number of outpatient visits

HCPCS					
99201	99214	99272	99381	99392	99403
99202	99215	99273	99382	99393	99404
99203	99241	99274	99383	99394	99420
99204	99242	99275	99384	99395	99450
99205	99243	99354	99385	99396	99455
99211	99244	99355	99386	99397	99456
99212	99245	99356	99387	99401	99499
99213	99271	99357	99391	99402	

Number of hospitalizations

The occurrence of MEDPAR with the following attributes:

Inpatient admission type code exists

The occurrence of carrier claims with the following attributes:

20 = Non swing bed SNF claim

30 = Swing bed SNF claim

50 = Hospice claim

60 = Inpatient claim

61 = Inpatient 'full-encounter' claim

Number of PCP visits

The occurrence of carrier claims line with the following attributes:

Line HCFA provider specialty code is any of:

01 = General practice

08 = Family practice

11 = Internal medicine

84 = Preventive medicine (eff 5/92)

HCPCS					
99201	99214	99272	99381	99392	99403
99202	99215	99273	99382	99393	99404
99203	99241	99274	99383	99394	99420
99204	99242	99275	99384	99395	99429
99205	99243	99354	99385	99396	99450
99211	99244	99355	99386	99397	99455
99212	99245	99356	99387	99401	99456
99213	99271	99357	99391	99402	99499

Number of rheumatologist visits

The occurrence of carrier claims line with the following attributes:

Line HCFA provider specialty code is any of:

66 = Rheumatology (eff 5/92) Note: during 93/94 DMERC also used this to mean medical supply company with respiratory therapist

HCPCS					
99000	99141	99249	99347	99450	99603
99001	99142	99250	99348	99454	99604
99002	99143	99251	99349	99455	99605
99003	99144	99252	99345	99456	99606
99004	99145	99253	99350	99460	99607
99005	99148	99254	99351	99461	99615
99006	99149	99255	99352	99462	99649
99010	09915	99256	99353	99463	99675
99011	99150	99255	99354	99464	99684
99012	99160	99261	99355	99465	99700
99014	99163	99262	99356	99466	99703
99015	99166	99263	99357	99467	99707
99020	99170	99270	99358	99468	99713
99023	99171	99271	99359	99469	99714

Appendix A
Healthcare utilization measures

99024	99172	99272	9935D	99470	99717
99025	99173	99273	99360	99471	99732
99026	99174	99274	99361	99472	99736
99027	99175	99275	99362	99475	99762
99028	99178	99280	99363	99476	99770
99032	99183	99281	99364	99477	99772
99035	99184	99282	99365	99478	99776
99038	99185	99283	99366	99479	99780
99039	99186	99284	99367	99480	99799
99040	99188	99285	99368	99481	9979A
99041	99190	99286	99371	99482	99801
99042	99191	99287	99372	99485	99802
99045	99192	99288	99373	99486	99803
99047	99195	99289	99374	99487	99806
99048	99199	99290	99375	99488	99810
99049	99200	99291	99376	99489	99811
99050	99201	99292	99377	99490	99814
99051	99202	99293	99378	99495	99821
99052	99203	99294	99379	99496	99833
99053	99204	99295	99380	99497	99840
99054	99205	99296	99381	99498	99841
99056	99206	99297	99382	99499	99881
99058	99207	99298	99383	99500	99894
99060	99208	99299	99384	99501	99897
99063	99209	9930	99385	99502	99899
99065	9920A	99300	99386	99503	99901
99070	9920X	99301	99387	99504	99902
99071	09921	99302	99391	99505	99907
99072	99210	99303	99392	99506	99910
99074	99211	99304	99393	99507	99912
99075	99212	99305	99394	99508	99913
99076	99213	99306	99395	99509	99914
99078	99214	99307	99396	99510	99919
99079	99215	99308	99397	99511	99920
9907B	99216	99309	99399	99512	99921
9907E	99217	99310	99400	99513	99925
99080	99218	99311	99401	99514	99931
99081	99219	99312	99402	99523	99940
99082	9921F	99313	99403	99530	99941
99089	9921G	99315	99404	99539	99942
99090	9921S	99316	99406	99551	99943
99091	99220	99317	99407	99552	99949
99097	99221	99318	99408	99553	99959
99099	99222	99321	99409	99554	99960
9905T	99223	99322	9940A	99555	99961
99100	99224	99323	99411	99556	99968
99101	99225	99324	99412	99557	99970
99102	99226	99325	99420	99558	99989
99104	99227	99326	99429	99559	09999
99110	99230	99327	9942G	99560	99990
99111	99231	99328	99431	99561	99991
99112	99232	99331	99432	99562	99992
99113	99233	99332	99433	99563	99993
99115	99234	99333	99435	99564	99994
99116	99235	99334	99436	99565	99995
99119	99236	99335	99438	99566	99996
99120	99238	99336	99440	99567	99997
99121	99239	99337	99441	99568	99998
99123	99241	99339	99442	99569	99999
99124	99242	99340	99443	99580	9999G
99125	99243	99341	99444	99588	9999V
09913	99244	99342	99446	99593	99Z14
99135	99245	99343	99447	99600	
09914	99246	99344	99448	99601	
99140	99248	99345	99449	99602	

Number of CRP tests

CPT

Appendix A
Healthcare utilization measures

86140	86141
-------	-------

Number of serum creatinine tests

CPT	
80048	80054
80049	80069
80053	82565

Appendix A

Frailty markers

Frailty Score for Claims Data

[Kim DH, Schneeweiss S, Glynn RJ, Lipsitz LA, Rockwood K, Avorn J. Measuring frailty in Medicare data: Development and validation of a claims-based frailty index. *Journals of Gerontology: Medical Sciences* 2018;73\(7\):980-87.](#)

Codes used for each component of the frailty score

Condition	ICD9 Dx	ICD10 Dx	Coefficient
Intercept			0.10288
Intestinal infectious diseases	001-009	A00-A09 (exclude A02.1)	0.00582
Other and unspecified effects of external causes	990-995	A02.1, A22.7, A26.7, A32.7, A40, A41, A42.7, A45.8, B37.7, R65, T33, T34, T36-T50, T66-T78, T88	0.0085
Other bacterial diseases	030-041	A30-A39; A42-A49 (exclude A32.7,A42.7,A45)	0.01188
Mycoses	110-118	B35-B49 (exclude B37.7)	0.00831
Malignant neoplasm of other and unspecified sites	190-199	C69-C80	0.00797
Organic psychotic conditions	290-294	D01, D03, F02, F04, F05, F06, F10.159, F10.180, F10.181, F10.182, F10.188, F10.231, F10.239, F10.259, F10.27, F10.280, F10.281, F10.282, F10.288, F10.929, F10.950, F10.951, F10.959, F10.96, F10.980, F10.982, F10.99, F11.182, F11.282, F11.159, F11.181, F11.188, F11.222, F11.259, F11.281, F11.288, F11.922, F11.959, F11.981, F11.982, F11.988, F12.122, F12.159, F12.180, F12.188, F12.222, F12.259, F12.280, F12.288, F12.922, F12.959, F12.980, F12.988, F13.159, F13.180, F13.181, F13.182, F13.188, F13.259, F13.280, F13.281, F13.282, F13.288, F13.959, F13.980, F13.982, F13.988, F14.122, F14.159, F14.180, F14.181, F14.182, F14.188, F14.222, F14.259, F14.280, F14.281, F14.282, F14.288, F14.922, F14.959, F14.980, F14.981, F14.982, F14.988, F15.122, F15.159, F15.180, F15.181, F15.182, F15.188, F15.222, F15.259, F15.280, F15.281, F15.282, F15.288, F15.920, F15.922, F15.959, F15.980, F15.981, F15.982, F15.988, F16.122, F16.159, F16.180, F16.183, F16.188, F16.259, F16.280, F16.283, F16.288, F16.959, F16.980, F16.983, F16.988, F16.988, F17.208, F17.218, F17.228, F17.298, F18.159, F18.180, F18.188, F18.259, F18.280, F18.288, F18.959, F18.980, F18.988, F19.122, F19.159, F19.180, F19.181, F19.182, F19.188, F19.222, F19.259, F19.280, F19.281, F19.282, F19.921, F19.982, F19.939, F19.94, F19.950, F19.951, F19.96, F19.97, F19.99	0.04745
Benign neoplasms	210-229	D10-D36	-0.00513
Neoplasms of uncertain behavior	235-238	D37-D48	-0.00061
Other and unspecified anemias	285	D62, D64	0.0085
Purpura and other hemorrhagic conditions	287	D69	-0.00804
Diseases of white blood cells	288	D70, D71, D72, D76	-0.0068
Other metabolic and immunity disorders	270-279	D80-D84, D89, E65-E68, E70-E88, M10 (exclude E75.02, E75.19, E75.23, E75.25, E75.29, E75.4)	-0.00564
Disorders of thyroid gland	240-246	E00-E07	0.00439
Diseases of other endocrine glands	250-259	E08-E16,E20-E35	0.01078
Hereditary and degenerative diseases of the central nervous system	330-337	E75.02, E75.19, E75.23, E75.25, E75.29, E75.4, F84.2, G10, G11, G12, G20, G21.0, G23, G24, G25, G30.9, G31, G80.3, G90, G91, G93.7, G93.89, G93.9, G94, G95, G99.2	0.01078

Appendix A

Frailty markers

Neurotic Disorders, Personality Disorders, And Other Nonpsychotic Mental Disorders	300-316	F07, F09, F32.9, F40-F44, F48, F54, F60, F64-F66, F68, F10-F19, F45.8, F45.9, F50, F51, F63.3, F80-F82, F88-F91, F93-F95, F98, R45.1, R48.0 (exclude F10.159, F10.180, F10.181, F10.182, F10.188, F10.231, F10.239, F10.259, F10.27, F10.280, F10.281, F10.282, F10.288, F10.929, F10.950, F10.951, F10.959, F10.96, F10.980, F10.982, F10.99, F11.182, F11.282, F11.159, F11.181, F11.188, F11.222, F11.259, F11.281, F11.288, F11.922, F11.959, F11.981, F11.982, F11.988, F12.122, F12.159, F12.180, F12.188, F12.222, F12.259, F12.280, F12.288, F12.922, F12.959, F12.980, F12.988, F13.159, F13.180, F13.181, F13.182, F13.188, F13.259, F13.280, F13.281, F13.282, F13.288, F13.959, F13.980, F13.982, F13.988, F14.122, F14.159, F14.180, F14.181, F14.182, F14.188, F14.222, F14.259, F14.280, F14.281, F14.282, F14.288, F14.922, F14.959, F14.980, F14.981, F14.982, F14.988, F15.122, F15.159, F15.180, F15.181, F15.182, F15.188, F15.222, F15.259, F15.280, F15.281, F15.282, F15.288, F15.920, F15.922, F15.959, F15.980, F15.981, F15.982, F15.988, F16.122, F16.159, F16.180, F16.183, F16.188, F16.259, F16.280, F16.283, F16.288, F16.959, F16.980, F16.983, F16.988, F16.988, F17.208, F17.218, F17.228, F17.298, F18.159, F18.180, F18.188, F18.259, F18.280, F18.288, F18.959, F18.980, F18.988, F19.122, F19.159, F19.180, F19.181, F19.182, F19.188, F19.222, F19.259, F19.280, F19.281, F19.282, F19.921, F19.982, F19.939, F19.94, F19.950, F19.951, F19.96, F19.97, F19.99)	0.01353
Other psychoses	295-299	F20, F22-F25, F28-F34, F39, F44.89, F84 (exclude F84.2, F32.9)	0.02112
Other disorders of the central nervous system	340-349	G35, G37, G40, G43, G47.4, G80-G83, G92, G93.0-G93.2, G93.4-G93.6, G96-G97, G98.8 (exclusion G80.3)	0.04031
Disorders of the peripheral nervous system	350-359	G60-G65	0.00338
Disorders of the eye and adnexa	360-379	H00-H59 (exclude H54.7)	-0.00061
Hypertensive disease	401-405	I10-I16	0.0174
Ischemic heart disease	410-414	I20-I25	0.0192
Other forms of heart disease	420-429	I30-I52	0.01989
Cerebrovascular disease	430-438	I60-I69	-0.00046
Diseases of arteries, arterioles, and capillaries	440-448	I70-I79	0.00106
Diseases of veins and lymphatics, and other diseases of circulatory system	451-459	I80-I89;I95-I99	0.01234
Pneumonia and influenza	480-487	J09-J18	0.01185
Other diseases of the upper respiratory tract	470-478	J30-J39	-0.0052
Chronic obstructive pulmonary disease and allied conditions	490-496	J40-J45,J47,J67	0.01295
Diseases of oral cavity, salivary glands, and jaws	520-529	K00-K14	0.00261
Diseases of esophagus, stomach, and duodenum	530-537	K20-K31	0.0005
Hernia of abdominal cavity	550-553	K40-K46	0.00388
Infections of skin and subcutaneous tissue	680-686	L00-L08	0.00561
Other inflammatory conditions	690-698	L10-L49, L51-L59	-0.00053
Arthropathies and related disorders	710-719	M00-M02, M04, M05-M09 M11-M14, M15-M19, M20-M25, M30-M36 (excluded M35.3)	0.01408
Rheumatism, excluding the back	725-729	M35.3, M60-M79,R25.2,R29.8x	0.00021
Dorsopathies	720-724	M40-M54	0.00984

Appendix A

Frailty markers

Osteopathies, chondropathies, and acquired musculoskeletal deformities	730-739	M80-M85, M86-M90, M91-M95, M99	0.00389
Nephritis, nephrotic syndrome, and nephrosis	580-589	N00-N05, N08,N17,N18, N25, N26,N27	0.01047
Other diseases of urinary system	590-599	N30-N39	0.01062
Diseases of male genital organs	600-608	N40-N53	-0.02131
Congenital anomalies in urinary system	753	Q60-Q64	-0.00836
Congenital anomalies in musculoskeletal system	754-756	Q65-Q79	0.00073
Symptoms	780-789	R00-R39, R50-R63 (exclude R09.1, R09.2,R13,R25.2,R29.8,R51, R52)	0.00593
Ill-defined and unknown causes of morbidity and mortality	797-799	R09.1, R09.2,R41.8x,R68.13,R68.82, R64,R69,R99	0.01119
Nonspecific abnormal findings	790-796	R70-R97	-0.00231
Contusion with intact skin surface	920-924	S00.93, S10.93, S00.10-S00.12, S05.10-S05.12, S05.90-S05.92, S20.00-S20.02, S20.20-S20.22, S30.0-S30.3, T14.8-T14.9, S40.01-S40.02, S50.0-S50.1, S60.0-S60.2, S70.0-S70.1, S80.0-S80.1, S90.0-S90.3	0.01074
Open wound of lower limb	890-897	S81	0.02042
Persons with a condition influencing their health status	V40-V49	F48.9, F52.9, F69, F81.9, H54.7, H93.9x, J95.850, M96.0, R13.10, R43.9, R46.8x, R47.89, R68.89, Z48.22-Z48.298, Z66, Z73.82, Z74.0x, Z76.82, Z78.x, Z86.59, Z87.898, Z89.0x (excluding 789.52x), 790.x (excluding (Z90.41x, Z90.71x), 791.15, 791.83, 792.82, 793.x-795.x, 796.3x-Z96.9, 797.x-799.x (excluding 798.5x, 795.87x)	0.00191
Persons without reported diagnosis encountered during examination and investigation of individuals and populations	V70-V82	Z00-Z13	-0.01208
Persons with potential health hazards related to communicable diseases	V01-V09	Z20-Z29	-0.00189
Persons encountering health services for specific procedures and aftercare	V50-V59	Z40-Z53, Z79 (exclude Z48.280, Z48.23, Z48.24, Z48.288, Z48.298 , Z48.22, Z48.290)	0.00118

Condition	CPT Code	Coefficient
Office/other outpatient visit – established patient	99214	0.00149
Hospital care – initial	99222	0.0017
Office consultation	99242	-0.00094
Office consultation	99245	0.00169
Nursing facility care – subsequent	99308	0.01389
Preventive medicine services	99381-99429	-0.00712
Anesthesia – head	00100-00222	-0.00049
Anesthesia – neck	00300-00352	0.00614
Anesthesia – intrathoracic	00500-00580	-0.01568
Anesthesia – lower abdomen	00800-00882	-0.01053
Anesthesia – knee and popliteal area	01320-01444	-0.01215
Surgery – respiratory system	30000-32999	-0.00129
Surgery – female genital system	56405-58999	0.00327
Surgery – nervous system	61000-64999	0.00843
Radiology – nuclear medicine	78000-79999	-0.00301
Therapeutic drug assays	80150-80299	0.00789
Cytopathology	88104-88199	-0.01082
Surgical pathology	88300-88399	-0.00427

Appendix A

Frailty markers

Medicine – Ophthalmology	92002-92499	-0.00295
Medicine – Cardiovascular	92950-93799	-0.00046
Medicine – Noninvasive vascular diagnostic studies	93875-93990	-0.00828
Allergy and clinical immunology	95004-95199	-0.0084
Physical medicine and rehabilitation	97001-97799	-0.00012
Chiropractic manipulative treatment	98940-98943	-0.01426
Special services, procedures and reports	99000-99091	0.00127

Condition	HCPCS Code	Coefficient
Transportation services including ambulance	A0021-A0999	0.01022
Other supplies including diabetes supplies and contraceptives	A4244-A4290	0.0236
Diabetic footwear	A5500-A5513	0.02375
Breathing aids	A7000-A7046	0.00947
Administrative, miscellaneous and experimental	A9150-A9999	-0.00167
Walking aids and attachments	E0100-E0159	0.02821
Hospital beds and associated supplies	E0250-E0373	0.08649
Oxygen delivery systems and related supplies	E0424-E0486	0.00665
Humidifiers and nebulizers with related equipment	E0550-E0601	0.00385
Wheelchair or transport chair and related accessories	E0950-E1298, E2201-E2294, E2300-E2399, E2601-E2621	0.00805
Accessories for oxygen delivery devices	E1353-E1406	0.02702
Vaccine administration	G0008-G0010	-0.00158
Screening examinations and disease management training	G0101-G0124	-0.01136
Drugs, administered by injection	J0120-J7130	0.00664
Inhalation solutions	J7608-J7684	0.00412
Wheelchairs, components, and accessories	K0001-K0462, K0669	0.07802

Appendix A

Frailty markers

Osteoporosis

ICD10 Dx	ICD9 Dx	LongDesICD10	LongDesICD9
M810	73300	Age-related osteoporosis without current pathological fracture	Osteoporosis, unspecified
M810	73301	Age-related osteoporosis without current pathological fracture	Senile osteoporosis
M818	73302	Other osteoporosis without current pathological fracture	Idiopathic osteoporosis
M818	73303	Other osteoporosis without current pathological fracture	Disuse osteoporosis
M816	73309	Localized osteoporosis [Lequesne]	Other osteoporosis
M818	73309	Other osteoporosis without current pathological fracture	Other osteoporosis

Fractures

ICD10 Dx	ICD9 Dx	LongDesICD10	LongDesICD9
M8440XA	73310	Pathological fracture, unspecified site, initial encounter for fracture	Pathologic fracture, unspecified site
M84429A	73311	Pathological fracture, unspecified humerus, initial encounter for fracture	Pathologic fracture of humerus
M84439A	73312	Pathological fracture, unspecified ulna and radius, initial encounter for fracture	Pathologic fracture of distal radius and ulna
M4850XA	73313	Collapsed vertebra, not elsewhere classified, site unspecified, initial encounter for fracture	Pathologic fracture of vertebrae
M8008XA	73313	Age-related osteoporosis with current pathological fracture, vertebra(e), initial encounter for fracture	Pathologic fracture of vertebrae
M8468XA	73313	Pathological fracture in other disease, other site, initial encounter for fracture	Pathologic fracture of vertebrae
M84459A	73314	Pathological fracture, hip, unspecified, initial encounter for fracture	Pathologic fracture of neck of femur
M84453A	73315	Pathological fracture, unspecified femur, initial encounter for fracture	Pathologic fracture of other specified part of femur
M84750A	73315	Atypical femoral fracture, unspecified, initial encounter for fracture	Pathologic fracture of other specified part of femur
M84469A	73316	Pathological fracture, unspecified tibia and fibula, initial encounter for fracture	Pathologic fracture of tibia or fibula
M84419A	73319	Pathological fracture, unspecified shoulder, initial encounter for fracture	Pathologic fracture of other specified site
M84479A	73319	Pathological fracture, unspecified toe(s), initial encounter for fracture	Pathologic fracture of other specified site
M8448XA	73319	Pathological fracture, other site, initial encounter for fracture	Pathologic fracture of other specified site
S020XXA	80000	Fracture of vault of skull, initial encounter for closed fracture	Closed fracture of vault of skull without mention of intracranial injury, unspecified state of consciousness
S020XXB	80050	Fracture of vault of skull, initial encounter for open fracture	Open fracture of vault of skull without mention of intracranial injury, unspecified state of consciousness
S02101A	80100	Fracture of base of skull, right side, initial encounter for closed fracture	Closed fracture of base of skull without mention of intracranial injury, unspecified state of consciousness
S02102A	80100	Fracture of base of skull, left side, initial encounter for closed fracture	Closed fracture of base of skull without mention of intracranial injury, unspecified state of consciousness
S02109A	80100	Fracture of base of skull, unspecified side, initial encounter for closed fracture	Closed fracture of base of skull without mention of intracranial injury, unspecified state of consciousness
S02101B	80150	Fracture of base of skull, right side, initial encounter for open fracture	Open fracture of base of skull without mention of intracranial injury, unspecified state of consciousness
S02102B	80150	Fracture of base of skull, left side, initial encounter for open fracture	Open fracture of base of skull without mention of intracranial injury, unspecified state of consciousness
S02109B	80150	Fracture of base of skull, unspecified side, initial encounter for open fracture	Open fracture of base of skull without mention of intracranial injury, unspecified state of consciousness
S022XXA	8020	Fracture of nasal bones, initial encounter for closed fracture	Closed fracture of nasal bones
S022XXB	8021	Fracture of nasal bones, initial encounter for open fracture	Open fracture of nasal bones
S02609A	80220	Fracture of mandible, unspecified, initial encounter for closed fracture	Closed fracture of mandible, unspecified site
S0269XA	80220	Fracture of mandible of other specified site, initial encounter for closed fracture	Closed fracture of mandible, unspecified site

Appendix A

Frailty markers

S02610A	80221	Fracture of condylar process of mandible, unspecified side, initial encounter for closed fracture	Closed fracture of mandible, condylar process
S02611A	80221	Fracture of condylar process of right mandible, initial encounter for closed fracture	Closed fracture of mandible, condylar process
S02612A	80221	Fracture of condylar process of left mandible, initial encounter for closed fracture	Closed fracture of mandible, condylar process
S02620A	80222	Fracture of subcondylar process of mandible, unspecified side, initial encounter for closed fracture	Closed fracture of mandible, subcondylar
S02621A	80222	Fracture of subcondylar process of right mandible, initial encounter for closed fracture	Closed fracture of mandible, subcondylar
S02622A	80222	Fracture of subcondylar process of left mandible, initial encounter for closed fracture	Closed fracture of mandible, subcondylar
S02630A	80223	Fracture of coronoid process of mandible, unspecified side, initial encounter for closed fracture	Closed fracture of mandible, coronoid process
S02631A	80223	Fracture of coronoid process of right mandible, initial encounter for closed fracture	Closed fracture of mandible, coronoid process
S02632A	80223	Fracture of coronoid process of left mandible, initial encounter for closed fracture	Closed fracture of mandible, coronoid process
S02640A	80224	Fracture of ramus of mandible, unspecified side, initial encounter for closed fracture	Closed fracture of mandible, ramus, unspecified
S02641A	80224	Fracture of ramus of right mandible, initial encounter for closed fracture	Closed fracture of mandible, ramus, unspecified
S02642A	80224	Fracture of ramus of left mandible, initial encounter for closed fracture	Closed fracture of mandible, ramus, unspecified
S02650A	80225	Fracture of angle of mandible, unspecified side, initial encounter for closed fracture	Closed fracture of mandible, angle of jaw
S02651A	80225	Fracture of angle of right mandible, initial encounter for closed fracture	Closed fracture of mandible, angle of jaw
S02652A	80225	Fracture of angle of left mandible, initial encounter for closed fracture	Closed fracture of mandible, angle of jaw
S0266XA	80226	Fracture of symphysis of mandible, initial encounter for closed fracture	Closed fracture of mandible, symphysis of body
S02670A	80227	Fracture of alveolus of mandible, unspecified side, initial encounter for closed fracture	Closed fracture of mandible, alveolar border of body
S02671A	80227	Fracture of alveolus of right mandible, initial encounter for closed fracture	Closed fracture of mandible, alveolar border of body
S02672A	80227	Fracture of alveolus of left mandible, initial encounter for closed fracture	Closed fracture of mandible, alveolar border of body
S02600A	80228	Fracture of unspecified part of body of mandible, unspecified side, initial encounter for closed fracture	Closed fracture of mandible, body, other and unspecified
S02601A	80228	Fracture of unspecified part of body of right mandible, initial encounter for closed fracture	Closed fracture of mandible, body, other and unspecified
S02602A	80228	Fracture of unspecified part of body of left mandible, initial encounter for closed fracture	Closed fracture of mandible, body, other and unspecified
S02609B	80230	Fracture of mandible, unspecified, initial encounter for open fracture	Open fracture of mandible, unspecified site
S0269XB	80230	Fracture of mandible of other specified site, initial encounter for open fracture	Open fracture of mandible, unspecified site
S02610B	80231	Fracture of condylar process of mandible, unspecified side, initial encounter for open fracture	Open fracture of mandible, condylar process
S02611B	80231	Fracture of condylar process of right mandible, initial encounter for open fracture	Open fracture of mandible, condylar process
S02612B	80231	Fracture of condylar process of left mandible, initial encounter for open fracture	Open fracture of mandible, condylar process
S02620B	80232	Fracture of subcondylar process of mandible, unspecified side, initial encounter for open fracture	Open fracture of mandible, subcondylar
S02621B	80232	Fracture of subcondylar process of right mandible, initial encounter for open fracture	Open fracture of mandible, subcondylar
S02622B	80232	Fracture of subcondylar process of left mandible, initial encounter for open fracture	Open fracture of mandible, subcondylar
S02630B	80233	Fracture of coronoid process of mandible, unspecified side, initial encounter for open fracture	Open fracture of mandible, coronoid process

Appendix A

Frailty markers

S02631B	80233	Fracture of coronoid process of right mandible, initial encounter for open fracture	Open fracture of mandible, coronoid process
S02632B	80233	Fracture of coronoid process of left mandible, initial encounter for open fracture	Open fracture of mandible, coronoid process
S02640B	80234	Fracture of ramus of mandible, unspecified side, initial encounter for open fracture	Open fracture of mandible, ramus, unspecified
S02641B	80234	Fracture of ramus of right mandible, initial encounter for open fracture	Open fracture of mandible, ramus, unspecified
S02642B	80234	Fracture of ramus of left mandible, initial encounter for open fracture	Open fracture of mandible, ramus, unspecified
S02650B	80235	Fracture of angle of mandible, unspecified side, initial encounter for open fracture	Open fracture of mandible, angle of jaw
S02651B	80235	Fracture of angle of right mandible, initial encounter for open fracture	Open fracture of mandible, angle of jaw
S02652B	80235	Fracture of angle of left mandible, initial encounter for open fracture	Open fracture of mandible, angle of jaw
S0266XB	80236	Fracture of symphysis of mandible, initial encounter for open fracture	Open fracture of mandible, symphysis of body
S02670B	80237	Fracture of alveolus of mandible, unspecified side, initial encounter for open fracture	Open fracture of mandible, alveolar border of body
S02671B	80237	Fracture of alveolus of right mandible, initial encounter for open fracture	Open fracture of mandible, alveolar border of body
S02672B	80237	Fracture of alveolus of left mandible, initial encounter for open fracture	Open fracture of mandible, alveolar border of body
S02600B	80238	Fracture of unspecified part of body of mandible, unspecified side, initial encounter for open fracture	Open fracture of mandible, body, other and unspecified
S02601B	80238	Fracture of unspecified part of body of right mandible, initial encounter for open fracture	Open fracture of mandible, body, other and unspecified
S02602B	80238	Fracture of unspecified part of body of left mandible, initial encounter for open fracture	Open fracture of mandible, body, other and unspecified
S02400A	8024	Malar fracture, unspecified side, initial encounter for closed fracture	Closed fracture of malar and maxillary bones
S02401A	8024	Maxillary fracture, unspecified side, initial encounter for closed fracture	Closed fracture of malar and maxillary bones
S02402A	8024	Zygomatic fracture, unspecified side, initial encounter for closed fracture	Closed fracture of malar and maxillary bones
S0240AA	8024	Malar fracture, right side, initial encounter for closed fracture	Closed fracture of malar and maxillary bones
S0240BA	8024	Malar fracture, left side, initial encounter for closed fracture	Closed fracture of malar and maxillary bones
S0240CA	8024	Maxillary fracture, right side, initial encounter for closed fracture	Closed fracture of malar and maxillary bones
S0240DA	8024	Maxillary fracture, left side, initial encounter for closed fracture	Closed fracture of malar and maxillary bones
S0240EA	8024	Zygomatic fracture, right side, initial encounter for closed fracture	Closed fracture of malar and maxillary bones
S0240FA	8024	Zygomatic fracture, left side, initial encounter for closed fracture	Closed fracture of malar and maxillary bones
S02400B	8025	Malar fracture, unspecified side, initial encounter for open fracture	Open fracture of malar and maxillary bones
S02401B	8025	Maxillary fracture, unspecified side, initial encounter for open fracture	Open fracture of malar and maxillary bones
S02402B	8025	Zygomatic fracture, unspecified side, initial encounter for open fracture	Open fracture of malar and maxillary bones
S0240AB	8025	Malar fracture, right side, initial encounter for open fracture	Open fracture of malar and maxillary bones
S0240BB	8025	Malar fracture, left side, initial encounter for open fracture	Open fracture of malar and maxillary bones
S0240CB	8025	Maxillary fracture, right side, initial encounter for open fracture	Open fracture of malar and maxillary bones
S0240DB	8025	Maxillary fracture, left side, initial encounter for open fracture	Open fracture of malar and maxillary bones

Appendix A

Frailty markers

S0240EB	8025	Zygomatic fracture, right side, initial encounter for open fracture	Open fracture of malar and maxillary bones
S0240FB	8025	Zygomatic fracture, left side, initial encounter for open fracture	Open fracture of malar and maxillary bones
S0230XA	8026	Fracture of orbital floor, unspecified side, initial encounter for closed fracture	Closed fracture of orbital floor (blow-out)
S0231XA	8026	Fracture of orbital floor, right side, initial encounter for closed fracture	Closed fracture of orbital floor (blow-out)
S0232XA	8026	Fracture of orbital floor, left side, initial encounter for closed fracture	Closed fracture of orbital floor (blow-out)
S0230XB	8027	Fracture of orbital floor, unspecified side, initial encounter for open fracture	Open fracture of orbital floor (blow-out)
S0231XB	8027	Fracture of orbital floor, right side, initial encounter for open fracture	Open fracture of orbital floor (blow-out)
S0232XB	8027	Fracture of orbital floor, left side, initial encounter for open fracture	Open fracture of orbital floor (blow-out)
S0242XA	8028	Fracture of alveolus of maxilla, initial encounter for closed fracture	Closed fracture of other facial bones
S0292XA	8028	Unspecified fracture of facial bones, initial encounter for closed fracture	Closed fracture of other facial bones
S0242XB	8029	Fracture of alveolus of maxilla, initial encounter for open fracture	Open fracture of other facial bones
S0292XB	8029	Unspecified fracture of facial bones, initial encounter for open fracture	Open fracture of other facial bones
S0291XA	80300	Unspecified fracture of skull, initial encounter for closed fracture	Other closed skull fracture without mention of intracranial injury, unspecified state of consciousness
S0291XB	80350	Unspecified fracture of skull, initial encounter for open fracture	Other open skull fracture without mention of injury, unspecified state of consciousness
S129XXA	80500	Fracture of neck, unspecified, initial encounter	Closed fracture of cervical vertebra, unspecified level
S12000A	80501	Unspecified displaced fracture of first cervical vertebra, initial encounter for closed fracture	Closed fracture of first cervical vertebra
S12001A	80501	Unspecified nondisplaced fracture of first cervical vertebra, initial encounter for closed fracture	Closed fracture of first cervical vertebra
S12100A	80502	Unspecified displaced fracture of second cervical vertebra, initial encounter for closed fracture	Closed fracture of second cervical vertebra
S12101A	80502	Unspecified nondisplaced fracture of second cervical vertebra, initial encounter for closed fracture	Closed fracture of second cervical vertebra
S12200A	80503	Unspecified displaced fracture of third cervical vertebra, initial encounter for closed fracture	Closed fracture of third cervical vertebra
S12201A	80503	Unspecified nondisplaced fracture of third cervical vertebra, initial encounter for closed fracture	Closed fracture of third cervical vertebra
S12300A	80504	Unspecified displaced fracture of fourth cervical vertebra, initial encounter for closed fracture	Closed fracture of fourth cervical vertebra
S12301A	80504	Unspecified nondisplaced fracture of fourth cervical vertebra, initial encounter for closed fracture	Closed fracture of fourth cervical vertebra
S12400A	80505	Unspecified displaced fracture of fifth cervical vertebra, initial encounter for closed fracture	Closed fracture of fifth cervical vertebra
S12401A	80505	Unspecified nondisplaced fracture of fifth cervical vertebra, initial encounter for closed fracture	Closed fracture of fifth cervical vertebra
S12500A	80506	Unspecified displaced fracture of sixth cervical vertebra, initial encounter for closed fracture	Closed fracture of sixth cervical vertebra
S12501A	80506	Unspecified nondisplaced fracture of sixth cervical vertebra, initial encounter for closed fracture	Closed fracture of sixth cervical vertebra
S12600A	80507	Unspecified displaced fracture of seventh cervical vertebra, initial encounter for closed fracture	Closed fracture of seventh cervical vertebra
S12601A	80507	Unspecified nondisplaced fracture of seventh cervical vertebra, initial encounter for closed fracture	Closed fracture of seventh cervical vertebra
S12000B	80511	Unspecified displaced fracture of first cervical vertebra, initial encounter for open fracture	Open fracture of first cervical vertebra
S12001B	80511	Unspecified nondisplaced fracture of first cervical vertebra, initial encounter for open fracture	Open fracture of first cervical vertebra

Appendix A

Frailty markers

S12100B	80512	Unspecified displaced fracture of second cervical vertebra, initial encounter for open fracture	Open fracture of second cervical vertebra
S12101B	80512	Unspecified nondisplaced fracture of second cervical vertebra, initial encounter for open fracture	Open fracture of second cervical vertebra
S12200B	80513	Unspecified displaced fracture of third cervical vertebra, initial encounter for open fracture	Open fracture of third cervical vertebra
S12201B	80513	Unspecified nondisplaced fracture of third cervical vertebra, initial encounter for open fracture	Open fracture of third cervical vertebra
S12300B	80514	Unspecified displaced fracture of fourth cervical vertebra, initial encounter for open fracture	Open fracture of fourth cervical vertebra
S12301B	80514	Unspecified nondisplaced fracture of fourth cervical vertebra, initial encounter for open fracture	Open fracture of fourth cervical vertebra
S12400B	80515	Unspecified displaced fracture of fifth cervical vertebra, initial encounter for open fracture	Open fracture of fifth cervical vertebra
S12401B	80515	Unspecified nondisplaced fracture of fifth cervical vertebra, initial encounter for open fracture	Open fracture of fifth cervical vertebra
S12500B	80516	Unspecified displaced fracture of sixth cervical vertebra, initial encounter for open fracture	Open fracture of sixth cervical vertebra
S12501B	80516	Unspecified nondisplaced fracture of sixth cervical vertebra, initial encounter for open fracture	Open fracture of sixth cervical vertebra
S12600B	80517	Unspecified displaced fracture of seventh cervical vertebra, initial encounter for open fracture	Open fracture of seventh cervical vertebra
S12601B	80517	Unspecified nondisplaced fracture of seventh cervical vertebra, initial encounter for open fracture	Open fracture of seventh cervical vertebra
S22009A	8052	Unspecified fracture of unspecified thoracic vertebra, initial encounter for closed fracture	Closed fracture of dorsal [thoracic] vertebra without mention of spinal cord injury
S22009B	8053	Unspecified fracture of unspecified thoracic vertebra, initial encounter for open fracture	Open fracture of dorsal [thoracic] vertebra without mention of spinal cord injury
S32009A	8054	Unspecified fracture of unspecified lumbar vertebra, initial encounter for closed fracture	Closed fracture of lumbar vertebra without mention of spinal cord injury
S32009B	8055	Unspecified fracture of unspecified lumbar vertebra, initial encounter for open fracture	Open fracture of lumbar vertebra without mention of spinal cord injury
S3210XA	8056	Unspecified fracture of sacrum, initial encounter for closed fracture	Closed fracture of sacrum and coccyx without mention of spinal cord injury
S322XXA	8056	Fracture of coccyx, initial encounter for closed fracture	Closed fracture of sacrum and coccyx without mention of spinal cord injury
S3210XB	8057	Unspecified fracture of sacrum, initial encounter for open fracture	Open fracture of sacrum and coccyx without mention of spinal cord injury
S322XXB	8057	Fracture of coccyx, initial encounter for open fracture	Open fracture of sacrum and coccyx without mention of spinal cord injury
S2239XA	80700	Fracture of one rib, unspecified side, initial encounter for closed fracture	Closed fracture of rib(s), unspecified
S2239XA	80701	Fracture of one rib, unspecified side, initial encounter for closed fracture	Closed fracture of one rib
S2249XA	80702	Multiple fractures of ribs, unspecified side, initial encounter for closed fracture	Closed fracture of two ribs
S2249XA	80709	Multiple fractures of ribs, unspecified side, initial encounter for closed fracture	Closed fracture of multiple ribs, unspecified
S2239XB	80711	Fracture of one rib, unspecified side, initial encounter for open fracture	Open fracture of one rib
S2249XB	80712	Multiple fractures of ribs, unspecified side, initial encounter for open fracture	Open fracture of two ribs
S2249XB	80719	Multiple fractures of ribs, unspecified side, initial encounter for open fracture	Open fracture of multiple ribs, unspecified
S2220XA	8072	Unspecified fracture of sternum, initial encounter for closed fracture	Closed fracture of sternum
S2220XB	8073	Unspecified fracture of sternum, initial encounter for open fracture	Open fracture of sternum
S225XXA	8074	Flail chest, initial encounter for closed fracture	Flail chest
S225XXB	8074	Flail chest, initial encounter for open fracture	Flail chest
S128XXA	8075	Fracture of other parts of neck, initial encounter	Closed fracture of larynx and trachea

Appendix A

Frailty markers

S32409A	8080	Unspecified fracture of unspecified acetabulum, initial encounter for closed fracture	Closed fracture of acetabulum
S32409B	8081	Unspecified fracture of unspecified acetabulum, initial encounter for open fracture	Open fracture of acetabulum
S32501A	8082	Unspecified fracture of right pubis, initial encounter for closed fracture	Closed fracture of pubis
S32502A	8082	Unspecified fracture of left pubis, initial encounter for closed fracture	Closed fracture of pubis
S32509A	8082	Unspecified fracture of unspecified pubis, initial encounter for closed fracture	Closed fracture of pubis
S32501B	8083	Unspecified fracture of right pubis, initial encounter for open fracture	Open fracture of pubis
S32502B	8083	Unspecified fracture of left pubis, initial encounter for open fracture	Open fracture of pubis
S32509B	8083	Unspecified fracture of unspecified pubis, initial encounter for open fracture	Open fracture of pubis
S32309A	80841	Unspecified fracture of unspecified ilium, initial encounter for closed fracture	Closed fracture of ilium
S32609A	80842	Unspecified fracture of unspecified ischium, initial encounter for closed fracture	Closed fracture of ischium
S32810A	80843	Multiple fractures of pelvis with stable disruption of pelvic ring, initial encounter for closed fracture	Multiple closed pelvic fractures with disruption of pelvic circle
S32811A	80843	Multiple fractures of pelvis with unstable disruption of pelvic ring, initial encounter for closed fracture	Multiple closed pelvic fractures with disruption of pelvic circle
S3282XA	80844	Multiple fractures of pelvis without disruption of pelvic ring, initial encounter for closed fracture	Multiple closed pelvic fractures without disruption of pelvic circle
S3289XA	80849	Fracture of other parts of pelvis, initial encounter for closed fracture	Closed fracture of other specified part of pelvis
S32309B	80851	Unspecified fracture of unspecified ilium, initial encounter for open fracture	Open fracture of ilium
S32609B	80852	Unspecified fracture of unspecified ischium, initial encounter for open fracture	Open fracture of ischium
S32810B	80853	Multiple fractures of pelvis with stable disruption of pelvic ring, initial encounter for open fracture	Multiple open pelvic fractures with disruption of pelvic circle
S32811B	80853	Multiple fractures of pelvis with unstable disruption of pelvic ring, initial encounter for open fracture	Multiple open pelvic fractures with disruption of pelvic circle
S3282XB	80854	Multiple fractures of pelvis without disruption of pelvic ring, initial encounter for open fracture	Multiple open pelvic fractures without disruption of pelvic circle
S3289XB	80859	Fracture of other parts of pelvis, initial encounter for open fracture	Open fracture of other specified part of pelvis
S329XXA	8088	Fracture of unspecified parts of lumbosacral spine and pelvis, initial encounter for closed fracture	Closed unspecified fracture of pelvis
S329XXB	8089	Fracture of unspecified parts of lumbosacral spine and pelvis, initial encounter for open fracture	Open unspecified fracture of pelvis
S229XXA	8090	Fracture of bony thorax, part unspecified, initial encounter for closed fracture	Fracture of bones of trunk, closed
S229XXB	8091	Fracture of bony thorax, part unspecified, initial encounter for open fracture	Fracture of bones of trunk, open
S42009A	81000	Fracture of unspecified part of unspecified clavicle, initial encounter for closed fracture	Closed fracture of clavicle, unspecified part
S42013A	81001	Anterior displaced fracture of sternal end of unspecified clavicle, initial encounter for closed fracture	Closed fracture of sternal end of clavicle
S42016A	81001	Posterior displaced fracture of sternal end of unspecified clavicle, initial encounter for closed fracture	Closed fracture of sternal end of clavicle
S42019A	81001	Nondisplaced fracture of sternal end of unspecified clavicle, initial encounter for closed fracture	Closed fracture of sternal end of clavicle
S42023A	81002	Displaced fracture of shaft of unspecified clavicle, initial encounter for closed fracture	Closed fracture of shaft of clavicle
S42026A	81002	Nondisplaced fracture of shaft of unspecified clavicle, initial encounter for closed fracture	Closed fracture of shaft of clavicle
S42033A	81003	Displaced fracture of lateral end of unspecified clavicle, initial encounter for closed fracture	Closed fracture of acromial end of clavicle

Appendix A

Frailty markers

S42036A	81003	Nondisplaced fracture of lateral end of unspecified clavicle, initial encounter for closed fracture	Closed fracture of acromial end of clavicle
S42009B	81010	Fracture of unspecified part of unspecified clavicle, initial encounter for open fracture	Open fracture of clavicle, unspecified part
S42013B	81011	Anterior displaced fracture of sternal end of unspecified clavicle, initial encounter for open fracture	Open fracture of sternal end of clavicle
S42016B	81011	Posterior displaced fracture of sternal end of unspecified clavicle, initial encounter for open fracture	Open fracture of sternal end of clavicle
S42019B	81011	Nondisplaced fracture of sternal end of unspecified clavicle, initial encounter for open fracture	Open fracture of sternal end of clavicle
S42023B	81012	Displaced fracture of shaft of unspecified clavicle, initial encounter for open fracture	Open fracture of shaft of clavicle
S42026B	81012	Nondisplaced fracture of shaft of unspecified clavicle, initial encounter for open fracture	Open fracture of shaft of clavicle
S42033B	81013	Displaced fracture of lateral end of unspecified clavicle, initial encounter for open fracture	Open fracture of acromial end of clavicle
S42036B	81013	Nondisplaced fracture of lateral end of unspecified clavicle, initial encounter for open fracture	Open fracture of acromial end of clavicle
S42109A	81100	Fracture of unspecified part of scapula, unspecified shoulder, initial encounter for closed fracture	Closed fracture of scapula, unspecified part
S42123A	81101	Displaced fracture of acromial process, unspecified shoulder, initial encounter for closed fracture	Closed fracture of acromial process of scapula
S42126A	81101	Nondisplaced fracture of acromial process, unspecified shoulder, initial encounter for closed fracture	Closed fracture of acromial process of scapula
S42133A	81102	Displaced fracture of coracoid process, unspecified shoulder, initial encounter for closed fracture	Closed fracture of coracoid process of scapula
S42136A	81102	Nondisplaced fracture of coracoid process, unspecified shoulder, initial encounter for closed fracture	Closed fracture of coracoid process of scapula
S42143A	81103	Displaced fracture of glenoid cavity of scapula, unspecified shoulder, initial encounter for closed fracture	Closed fracture of glenoid cavity and neck of scapula
S42146A	81103	Nondisplaced fracture of glenoid cavity of scapula, unspecified shoulder, initial encounter for closed fracture	Closed fracture of glenoid cavity and neck of scapula
S42153A	81103	Displaced fracture of neck of scapula, unspecified shoulder, initial encounter for closed fracture	Closed fracture of glenoid cavity and neck of scapula
S42156A	81103	Nondisplaced fracture of neck of scapula, unspecified shoulder, initial encounter for closed fracture	Closed fracture of glenoid cavity and neck of scapula
S42113A	81109	Displaced fracture of body of scapula, unspecified shoulder, initial encounter for closed fracture	Closed fracture of scapula, other
S42116A	81109	Nondisplaced fracture of body of scapula, unspecified shoulder, initial encounter for closed fracture	Closed fracture of scapula, other
S42199A	81109	Fracture of other part of scapula, unspecified shoulder, initial encounter for closed fracture	Closed fracture of scapula, other
S42109B	81110	Fracture of unspecified part of scapula, unspecified shoulder, initial encounter for open fracture	Open fracture of scapula, unspecified part
S42123B	81111	Displaced fracture of acromial process, unspecified shoulder, initial encounter for open fracture	Open fracture of acromial process of scapula
S42126B	81111	Nondisplaced fracture of acromial process, unspecified shoulder, initial encounter for open fracture	Open fracture of acromial process of scapula
S42133B	81112	Displaced fracture of coracoid process, unspecified shoulder, initial encounter for open fracture	Open fracture of coracoid process
S42136B	81112	Nondisplaced fracture of coracoid process, unspecified shoulder, initial encounter for open fracture	Open fracture of coracoid process
S42143B	81113	Displaced fracture of glenoid cavity of scapula, unspecified shoulder, initial encounter for open fracture	Open fracture of glenoid cavity and neck of scapula
S42146B	81113	Nondisplaced fracture of glenoid cavity of scapula, unspecified shoulder, initial encounter for open fracture	Open fracture of glenoid cavity and neck of scapula
S42153B	81113	Displaced fracture of neck of scapula, unspecified shoulder, initial encounter for open fracture	Open fracture of glenoid cavity and neck of scapula
S42156B	81113	Nondisplaced fracture of neck of scapula, unspecified shoulder, initial encounter for open fracture	Open fracture of glenoid cavity and neck of scapula
S42113B	81119	Displaced fracture of body of scapula, unspecified shoulder, initial encounter for open fracture	Open fracture of scapula, other

Appendix A

Frailty markers

S42116B	81119	Nondisplaced fracture of body of scapula, unspecified shoulder, initial encounter for open fracture	Open fracture of scapula, other
S42199B	81119	Fracture of other part of scapula, unspecified shoulder, initial encounter for open fracture	Open fracture of scapula, other
S42209A	81200	Unspecified fracture of upper end of unspecified humerus, initial encounter for closed fracture	Closed fracture of unspecified part of upper end of humerus
S42213A	81201	Unspecified displaced fracture of surgical neck of unspecified humerus, initial encounter for closed fracture	Closed fracture of surgical neck of humerus
S42216A	81201	Unspecified nondisplaced fracture of surgical neck of unspecified humerus, initial encounter for closed fracture	Closed fracture of surgical neck of humerus
S42293A	81202	Other displaced fracture of upper end of unspecified humerus, initial encounter for closed fracture	Closed fracture of anatomical neck of humerus
S42295A	81202	Other nondisplaced fracture of upper end of left humerus, initial encounter for closed fracture	Closed fracture of anatomical neck of humerus
S42253A	81203	Displaced fracture of greater tuberosity of unspecified humerus, initial encounter for closed fracture	Closed fracture of greater tuberosity of humerus
S42256A	81203	Nondisplaced fracture of greater tuberosity of unspecified humerus, initial encounter for closed fracture	Closed fracture of greater tuberosity of humerus
S42293A	81209	Other displaced fracture of upper end of unspecified humerus, initial encounter for closed fracture	Other closed fracture of upper end of humerus
S42296A	81209	Other nondisplaced fracture of upper end of unspecified humerus, initial encounter for closed fracture	Other closed fracture of upper end of humerus
S42209B	81210	Unspecified fracture of upper end of unspecified humerus, initial encounter for open fracture	Open fracture of unspecified part of upper end of humerus
S42213B	81211	Unspecified displaced fracture of surgical neck of unspecified humerus, initial encounter for open fracture	Open fracture of surgical neck of humerus
S42216B	81211	Unspecified nondisplaced fracture of surgical neck of unspecified humerus, initial encounter for open fracture	Open fracture of surgical neck of humerus
S42293B	81212	Other displaced fracture of upper end of unspecified humerus, initial encounter for open fracture	Open fracture of anatomical neck of humerus
S42296B	81212	Other nondisplaced fracture of upper end of unspecified humerus, initial encounter for open fracture	Open fracture of anatomical neck of humerus
S42253B	81213	Displaced fracture of greater tuberosity of unspecified humerus, initial encounter for open fracture	Open fracture of greater tuberosity of humerus
S42256B	81213	Nondisplaced fracture of greater tuberosity of unspecified humerus, initial encounter for open fracture	Open fracture of greater tuberosity of humerus
S42293B	81219	Other displaced fracture of upper end of unspecified humerus, initial encounter for open fracture	Other open fracture of upper end of humerus
S42296B	81219	Other nondisplaced fracture of upper end of unspecified humerus, initial encounter for open fracture	Other open fracture of upper end of humerus
S42309A	81220	Unspecified fracture of shaft of humerus, unspecified arm, initial encounter for closed fracture	Closed fracture of unspecified part of humerus
S42399A	81221	Other fracture of shaft of unspecified humerus, initial encounter for closed fracture	Closed fracture of shaft of humerus
S42309B	81230	Unspecified fracture of shaft of humerus, unspecified arm, initial encounter for open fracture	Open fracture of unspecified part of humerus
S42399B	81231	Other fracture of shaft of unspecified humerus, initial encounter for open fracture	Open fracture of shaft of humerus
S42409A	81240	Unspecified fracture of lower end of unspecified humerus, initial encounter for closed fracture	Closed fracture of unspecified part of lower end of humerus
S42413A	81241	Displaced simple supracondylar fracture without intercondylar fracture of unspecified humerus, initial encounter for closed fracture	Closed supracondylar fracture of humerus
S42416A	81241	Nondisplaced simple supracondylar fracture without intercondylar fracture of unspecified humerus, initial encounter for closed fracture	Closed supracondylar fracture of humerus
S42433A	81242	Displaced fracture (avulsion) of lateral epicondyle of unspecified humerus, initial encounter for closed fracture	Closed fracture of lateral condyle of humerus
S42436A	81242	Nondisplaced fracture (avulsion) of lateral epicondyle of unspecified humerus, initial encounter for closed fracture	Closed fracture of lateral condyle of humerus
S42453A	81242	Displaced fracture of lateral condyle of unspecified humerus, initial encounter for closed fracture	Closed fracture of lateral condyle of humerus

Appendix A

Frailty markers

S42456A	81242	Nondisplaced fracture of lateral condyle of unspecified humerus, initial encounter for closed fracture	Closed fracture of lateral condyle of humerus
S42443A	81243	Displaced fracture (avulsion) of medial epicondyle of unspecified humerus, initial encounter for closed fracture	Closed fracture of medial condyle of humerus
S42446A	81243	Nondisplaced fracture (avulsion) of medial epicondyle of unspecified humerus, initial encounter for closed fracture	Closed fracture of medial condyle of humerus
S42463A	81243	Displaced fracture of medial condyle of unspecified humerus, initial encounter for closed fracture	Closed fracture of medial condyle of humerus
S42466A	81243	Nondisplaced fracture of medial condyle of unspecified humerus, initial encounter for closed fracture	Closed fracture of medial condyle of humerus
S42473A	81244	Displaced transcondylar fracture of unspecified humerus, initial encounter for closed fracture	Closed fracture of unspecified condyle(s) of humerus
S42476A	81244	Nondisplaced transcondylar fracture of unspecified humerus, initial encounter for closed fracture	Closed fracture of unspecified condyle(s) of humerus
S42493A	81249	Other displaced fracture of lower end of unspecified humerus, initial encounter for closed fracture	Other closed fracture of lower end of humerus
S42496A	81249	Other nondisplaced fracture of lower end of unspecified humerus, initial encounter for closed fracture	Other closed fracture of lower end of humerus
S42409B	81250	Unspecified fracture of lower end of unspecified humerus, initial encounter for open fracture	Open fracture of unspecified part of lower end of humerus
S42413B	81251	Displaced simple supracondylar fracture without intercondylar fracture of unspecified humerus, initial encounter for open fracture	Open supracondylar fracture of humerus
S42416B	81251	Nondisplaced simple supracondylar fracture without intercondylar fracture of unspecified humerus, initial encounter for open fracture	Open supracondylar fracture of humerus
S42453B	81252	Displaced fracture of lateral condyle of unspecified humerus, initial encounter for open fracture	Open fracture of lateral condyle of humerus
S42456B	81252	Nondisplaced fracture of lateral condyle of unspecified humerus, initial encounter for open fracture	Open fracture of lateral condyle of humerus
S42463B	81253	Displaced fracture of medial condyle of unspecified humerus, initial encounter for open fracture	Open fracture of medial condyle of humerus
S42466B	81253	Nondisplaced fracture of medial condyle of unspecified humerus, initial encounter for open fracture	Open fracture of medial condyle of humerus
S42473B	81254	Displaced transcondylar fracture of unspecified humerus, initial encounter for open fracture	Open fracture of unspecified condyle(s) of humerus
S42476B	81254	Nondisplaced transcondylar fracture of unspecified humerus, initial encounter for open fracture	Open fracture of unspecified condyle(s) of humerus
S42493B	81259	Other displaced fracture of lower end of unspecified humerus, initial encounter for open fracture	Other open fracture of lower end of humerus
S42496B	81259	Other nondisplaced fracture of lower end of unspecified humerus, initial encounter for open fracture	Other open fracture of lower end of humerus
S52023A	81301	Displaced fracture of olecranon process without intraarticular extension of unspecified ulna, initial encounter for closed fracture	Closed fracture of olecranon process of ulna
S52026A	81301	Nondisplaced fracture of olecranon process without intraarticular extension of unspecified ulna, initial encounter for closed fracture	Closed fracture of olecranon process of ulna
S52043A	81302	Displaced fracture of coronoid process of unspecified ulna, initial encounter for closed fracture	Closed fracture of coronoid process of ulna
S52046A	81302	Nondisplaced fracture of coronoid process of unspecified ulna, initial encounter for closed fracture	Closed fracture of coronoid process of ulna
S52279A	81303	Monteggia's fracture of unspecified ulna, initial encounter for closed fracture	Closed Monteggia's fracture
S52009A	81304	Unspecified fracture of upper end of unspecified ulna, initial encounter for closed fracture	Other and unspecified closed fractures of proximal end of ulna (alone)
S52099A	81304	Other fracture of upper end of unspecified ulna, initial encounter for closed fracture	Other and unspecified closed fractures of proximal end of ulna (alone)
S52123A	81305	Displaced fracture of head of unspecified radius, initial encounter for closed fracture	Closed fracture of head of radius
S52126A	81305	Nondisplaced fracture of head of unspecified radius, initial encounter for closed fracture	Closed fracture of head of radius

Appendix A

Frailty markers

S52133A	81306	Displaced fracture of neck of unspecified radius, initial encounter for closed fracture	Closed fracture of neck of radius
S52136A	81306	Nondisplaced fracture of neck of unspecified radius, initial encounter for closed fracture	Closed fracture of neck of radius
S52109A	81307	Unspecified fracture of upper end of unspecified radius, initial encounter for closed fracture	Other and unspecified closed fractures of proximal end of radius (alone)
S52189A	81307	Other fracture of upper end of unspecified radius, initial encounter for closed fracture	Other and unspecified closed fractures of proximal end of radius (alone)
S59109A	81307	Unspecified physeal fracture of upper end of radius, unspecified arm, initial encounter for closed fracture	Other and unspecified closed fractures of proximal end of radius (alone)
S52023B	81311	Displaced fracture of olecranon process without intraarticular extension of unspecified ulna, initial encounter for open fracture type I or II	Open fracture of olecranon process of ulna
S52023C	81311	Displaced fracture of olecranon process without intraarticular extension of unspecified ulna, initial encounter for open fracture type IIIA, IIIB, or IIIC	Open fracture of olecranon process of ulna
S52026B	81311	Nondisplaced fracture of olecranon process without intraarticular extension of unspecified ulna, initial encounter for open fracture type I or II	Open fracture of olecranon process of ulna
S52026C	81311	Nondisplaced fracture of olecranon process without intraarticular extension of unspecified ulna, initial encounter for open fracture type IIIA, IIIB, or IIIC	Open fracture of olecranon process of ulna
S52043B	81312	Displaced fracture of coronoid process of unspecified ulna, initial encounter for open fracture type I or II	Open fracture of coronoid process of ulna
S52043C	81312	Displaced fracture of coronoid process of unspecified ulna, initial encounter for open fracture type IIIA, IIIB, or IIIC	Open fracture of coronoid process of ulna
S52046B	81312	Nondisplaced fracture of coronoid process of unspecified ulna, initial encounter for open fracture type I or II	Open fracture of coronoid process of ulna
S52046C	81312	Nondisplaced fracture of coronoid process of unspecified ulna, initial encounter for open fracture type IIIA, IIIB, or IIIC	Open fracture of coronoid process of ulna
S52279B	81313	Monteggia's fracture of unspecified ulna, initial encounter for open fracture type I or II	Open Monteggia's fracture
S52279C	81313	Monteggia's fracture of unspecified ulna, initial encounter for open fracture type IIIA, IIIB, or IIIC	Open Monteggia's fracture
S52009B	81314	Unspecified fracture of upper end of unspecified ulna, initial encounter for open fracture type I or II	Other and unspecified open fractures of proximal end of ulna (alone)
S52009C	81314	Unspecified fracture of upper end of unspecified ulna, initial encounter for open fracture type IIIA, IIIB, or IIIC	Other and unspecified open fractures of proximal end of ulna (alone)
S52099B	81314	Other fracture of upper end of unspecified ulna, initial encounter for open fracture type I or II	Other and unspecified open fractures of proximal end of ulna (alone)
S52099C	81314	Other fracture of upper end of unspecified ulna, initial encounter for open fracture type IIIA, IIIB, or IIIC	Other and unspecified open fractures of proximal end of ulna (alone)
S52123B	81315	Displaced fracture of head of unspecified radius, initial encounter for open fracture type I or II	Open fracture of head of radius
S52123C	81315	Displaced fracture of head of unspecified radius, initial encounter for open fracture type IIIA, IIIB, or IIIC	Open fracture of head of radius
S52126B	81315	Nondisplaced fracture of head of unspecified radius, initial encounter for open fracture type I or II	Open fracture of head of radius
S52126C	81315	Nondisplaced fracture of head of unspecified radius, initial encounter for open fracture type IIIA, IIIB, or IIIC	Open fracture of head of radius
S52133B	81316	Displaced fracture of neck of unspecified radius, initial encounter for open fracture type I or II	Open fracture of neck of radius
S52133C	81316	Displaced fracture of neck of unspecified radius, initial encounter for open fracture type IIIA, IIIB, or IIIC	Open fracture of neck of radius
S52136B	81316	Nondisplaced fracture of neck of unspecified radius, initial encounter for open fracture type I or II	Open fracture of neck of radius
S52136C	81316	Nondisplaced fracture of neck of unspecified radius, initial encounter for open fracture type IIIA, IIIB, or IIIC	Open fracture of neck of radius
S52109B	81317	Unspecified fracture of upper end of unspecified radius, initial encounter for open fracture type I or II	Other and unspecified open fractures of proximal end of radius (alone)

Appendix A

Frailty markers

S52109C	81317	Unspecified fracture of upper end of unspecified radius, initial encounter for open fracture type IIIA, IIIB, or IIIC	Other and unspecified open fractures of proximal end of radius (alone)
S52189B	81317	Other fracture of upper end of unspecified radius, initial encounter for open fracture type I or II	Other and unspecified open fractures of proximal end of radius (alone)
S52189C	81317	Other fracture of upper end of unspecified radius, initial encounter for open fracture type IIIA, IIIB, or IIIC	Other and unspecified open fractures of proximal end of radius (alone)
S52309A	81321	Unspecified fracture of shaft of unspecified radius, initial encounter for closed fracture	Closed fracture of shaft of radius (alone)
S52209A	81322	Unspecified fracture of shaft of unspecified ulna, initial encounter for closed fracture	Closed fracture of shaft of ulna (alone)
S52309B	81331	Unspecified fracture of shaft of unspecified radius, initial encounter for open fracture type I or II	Open fracture of shaft of radius (alone)
S52309C	81331	Unspecified fracture of shaft of unspecified radius, initial encounter for open fracture type IIIA, IIIB, or IIIC	Open fracture of shaft of radius (alone)
S52209B	81332	Unspecified fracture of shaft of unspecified ulna, initial encounter for open fracture type I or II	Open fracture of shaft of ulna (alone)
S52209C	81332	Unspecified fracture of shaft of unspecified ulna, initial encounter for open fracture type IIIA, IIIB, or IIIC	Open fracture of shaft of ulna (alone)
S52539A	81341	Colles' fracture of unspecified radius, initial encounter for closed fracture	Closed Colles' fracture
S52549A	81341	Smith's fracture of unspecified radius, initial encounter for closed fracture	Closed Colles' fracture
S52509A	81342	Unspecified fracture of the lower end of unspecified radius, initial encounter for closed fracture	Other closed fractures of distal end of radius (alone)
S52609A	81343	Unspecified fracture of lower end of unspecified ulna, initial encounter for closed fracture	Closed fracture of distal end of ulna (alone)
S52119A	81345	Torus fracture of upper end of unspecified radius, initial encounter for closed fracture	Torus fracture of radius (alone)
S52529A	81345	Torus fracture of lower end of unspecified radius, initial encounter for closed fracture	Torus fracture of radius (alone)
S52019A	81346	Torus fracture of upper end of unspecified ulna, initial encounter for closed fracture	Torus fracture of ulna (alone)
S52629A	81346	Torus fracture of lower end of unspecified ulna, initial encounter for closed fracture	Torus fracture of ulna (alone)
S52539B	81351	Colles' fracture of unspecified radius, initial encounter for open fracture type I or II	Open Colles' fracture
S52539C	81351	Colles' fracture of unspecified radius, initial encounter for open fracture type IIIA, IIIB, or IIIC	Open Colles' fracture
S52509B	81352	Unspecified fracture of the lower end of unspecified radius, initial encounter for open fracture type I or II	Other open fractures of distal end of radius (alone)
S52509C	81352	Unspecified fracture of the lower end of unspecified radius, initial encounter for open fracture type IIIA, IIIB, or IIIC	Other open fractures of distal end of radius (alone)
S52609B	81353	Unspecified fracture of lower end of unspecified ulna, initial encounter for open fracture type I or II	Open fracture of distal end of ulna (alone)
S52609C	81353	Unspecified fracture of lower end of unspecified ulna, initial encounter for open fracture type IIIA, IIIB, or IIIC	Open fracture of distal end of ulna (alone)
S5290XA	81380	Unspecified fracture of unspecified forearm, initial encounter for closed fracture	Closed fracture of unspecified part of forearm
S5290XB	81390	Unspecified fracture of unspecified forearm, initial encounter for open fracture type I or II	Open fracture of unspecified part of forearm
S5290XC	81390	Unspecified fracture of unspecified forearm, initial encounter for open fracture type IIIA, IIIB, or IIIC	Open fracture of unspecified part of forearm
S62109A	81400	Fracture of unspecified carpal bone, unspecified wrist, initial encounter for closed fracture	Closed fracture of carpal bone, unspecified
S62009A	81401	Unspecified fracture of navicular [scaphoid] bone of unspecified wrist, initial encounter for closed fracture	Closed fracture of navicular [scaphoid] bone of wrist
S62123A	81402	Displaced fracture of lunate [semilunar], unspecified wrist, initial encounter for closed fracture	Closed fracture of lunate [semilunar] bone of wrist
S62126A	81402	Nondisplaced fracture of lunate [semilunar], unspecified wrist, initial encounter for closed fracture	Closed fracture of lunate [semilunar] bone of wrist
S62113A	81403	Displaced fracture of triquetrum [cuneiform] bone, unspecified wrist, initial encounter for closed fracture	Closed fracture of triquetrum [cuneiform] bone of wrist

Appendix A

Frailty markers

S62116A	81403	Nondisplaced fracture of triquetrum [cuneiform] bone, unspecified wrist, initial encounter for closed fracture	Closed fracture of triquetral [cuneiform] bone of wrist
S62163A	81404	Displaced fracture of pisiform, unspecified wrist, initial encounter for closed fracture	Closed fracture of pisiform bone of wrist
S62166A	81404	Nondisplaced fracture of pisiform, unspecified wrist, initial encounter for closed fracture	Closed fracture of pisiform bone of wrist
S62173A	81405	Displaced fracture of trapezium [larger multangular], unspecified wrist, initial encounter for closed fracture	Closed fracture of trapezium bone [larger multangular] of wrist
S62176A	81405	Nondisplaced fracture of trapezium [larger multangular], unspecified wrist, initial encounter for closed fracture	Closed fracture of trapezium bone [larger multangular] of wrist
S62183A	81406	Displaced fracture of trapezoid [smaller multangular], unspecified wrist, initial encounter for closed fracture	Closed fracture of trapezoid bone [smaller multangular] of wrist
S62186A	81406	Nondisplaced fracture of trapezoid [smaller multangular], unspecified wrist, initial encounter for closed fracture	Closed fracture of trapezoid bone [smaller multangular] of wrist
S62133A	81407	Displaced fracture of capitate [os magnum] bone, unspecified wrist, initial encounter for closed fracture	Closed fracture of capitate bone [os magnum] of wrist
S62136A	81407	Nondisplaced fracture of capitate [os magnum] bone, unspecified wrist, initial encounter for closed fracture	Closed fracture of capitate bone [os magnum] of wrist
S62143A	81408	Displaced fracture of body of hamate [unciform] bone, unspecified wrist, initial encounter for closed fracture	Closed fracture of hamate [unciform] bone of wrist
S62146A	81408	Nondisplaced fracture of body of hamate [unciform] bone, unspecified wrist, initial encounter for closed fracture	Closed fracture of hamate [unciform] bone of wrist
S62153A	81409	Displaced fracture of hook process of hamate [unciform] bone, unspecified wrist, initial encounter for closed fracture	Closed fracture of other bone of wrist
S62156A	81409	Nondisplaced fracture of hook process of hamate [unciform] bone, unspecified wrist, initial encounter for closed fracture	Closed fracture of other bone of wrist
S62109B	81410	Fracture of unspecified carpal bone, unspecified wrist, initial encounter for open fracture	Open fracture of carpal bone, unspecified
S62009B	81411	Unspecified fracture of navicular [scaphoid] bone of unspecified wrist, initial encounter for open fracture	Open fracture of navicular [scaphoid] bone of wrist
S62123B	81412	Displaced fracture of lunate [semilunar], unspecified wrist, initial encounter for open fracture	Open fracture of lunate [semilunar] bone of wrist
S62126B	81412	Nondisplaced fracture of lunate [semilunar], unspecified wrist, initial encounter for open fracture	Open fracture of lunate [semilunar] bone of wrist
S62113B	81413	Displaced fracture of triquetrum [cuneiform] bone, unspecified wrist, initial encounter for open fracture	Open fracture of triquetral [cuneiform] bone of wrist
S62116B	81413	Nondisplaced fracture of triquetrum [cuneiform] bone, unspecified wrist, initial encounter for open fracture	Open fracture of triquetral [cuneiform] bone of wrist
S62163B	81414	Displaced fracture of pisiform, unspecified wrist, initial encounter for open fracture	Open fracture of pisiform bone of wrist
S62166B	81414	Nondisplaced fracture of pisiform, unspecified wrist, initial encounter for open fracture	Open fracture of pisiform bone of wrist
S62173B	81415	Displaced fracture of trapezium [larger multangular], unspecified wrist, initial encounter for open fracture	Open fracture of trapezium bone [larger multangular] of wrist
S62176B	81415	Nondisplaced fracture of trapezium [larger multangular], unspecified wrist, initial encounter for open fracture	Open fracture of trapezium bone [larger multangular] of wrist
S62183B	81416	Displaced fracture of trapezoid [smaller multangular], unspecified wrist, initial encounter for open fracture	Open fracture of trapezoid bone [smaller multangular] of wrist
S62186B	81416	Nondisplaced fracture of trapezoid [smaller multangular], unspecified wrist, initial encounter for open fracture	Open fracture of trapezoid bone [smaller multangular] of wrist
S62133B	81417	Displaced fracture of capitate [os magnum] bone, unspecified wrist, initial encounter for open fracture	Open fracture of capitate bone [os magnum] of wrist
S62136B	81417	Nondisplaced fracture of capitate [os magnum] bone, unspecified wrist, initial encounter for open fracture	Open fracture of capitate bone [os magnum] of wrist
S62143B	81418	Displaced fracture of body of hamate [unciform] bone, unspecified wrist, initial encounter for open fracture	Open fracture of hamate [unciform] bone of wrist
S62146B	81418	Nondisplaced fracture of body of hamate [unciform] bone, unspecified wrist, initial encounter for open fracture	Open fracture of hamate [unciform] bone of wrist
S62153B	81419	Displaced fracture of hook process of hamate [unciform] bone, unspecified wrist, initial encounter for open fracture	Open fracture of other bone of wrist
S62156B	81419	Nondisplaced fracture of hook process of hamate [unciform] bone, unspecified wrist, initial encounter for open fracture	Open fracture of other bone of wrist

Appendix A

Frailty markers

S62309A	81500	Unspecified fracture of unspecified metacarpal bone, initial encounter for closed fracture	Closed fracture of metacarpal bone(s), site unspecified
S62233A	81501	Other displaced fracture of base of first metacarpal bone, unspecified hand, initial encounter for closed fracture	Closed fracture of base of thumb [first] metacarpal
S62236A	81501	Other nondisplaced fracture of base of first metacarpal bone, unspecified hand, initial encounter for closed fracture	Closed fracture of base of thumb [first] metacarpal
S62319A	81502	Displaced fracture of base of unspecified metacarpal bone, initial encounter for closed fracture	Closed fracture of base of other metacarpal bone(s)
S62349A	81502	Nondisplaced fracture of base of unspecified metacarpal bone, initial encounter for closed fracture	Closed fracture of base of other metacarpal bone(s)
S62329A	81503	Displaced fracture of shaft of unspecified metacarpal bone, initial encounter for closed fracture	Closed fracture of shaft of metacarpal bone(s)
S62359A	81503	Nondisplaced fracture of shaft of unspecified metacarpal bone, initial encounter for closed fracture	Closed fracture of shaft of metacarpal bone(s)
S62339A	81504	Displaced fracture of neck of unspecified metacarpal bone, initial encounter for closed fracture	Closed fracture of neck of metacarpal bone(s)
S62369A	81504	Nondisplaced fracture of neck of unspecified metacarpal bone, initial encounter for closed fracture	Closed fracture of neck of metacarpal bone(s)
S62399A	81509	Other fracture of unspecified metacarpal bone, initial encounter for closed fracture	Closed fracture of multiple sites of metacarpus
S62309B	81510	Unspecified fracture of unspecified metacarpal bone, initial encounter for open fracture	Open fracture of metacarpal bone(s), site unspecified
S62233B	81511	Other displaced fracture of base of first metacarpal bone, unspecified hand, initial encounter for open fracture	Open fracture of base of thumb [first] metacarpal
S62236B	81511	Other nondisplaced fracture of base of first metacarpal bone, unspecified hand, initial encounter for open fracture	Open fracture of base of thumb [first] metacarpal
S62319B	81512	Displaced fracture of base of unspecified metacarpal bone, initial encounter for open fracture	Open fracture of base of other metacarpal bone(s)
S62349B	81512	Nondisplaced fracture of base of unspecified metacarpal bone, initial encounter for open fracture	Open fracture of base of other metacarpal bone(s)
S62329B	81513	Displaced fracture of shaft of unspecified metacarpal bone, initial encounter for open fracture	Open fracture of shaft of metacarpal bone(s)
S62359B	81513	Nondisplaced fracture of shaft of unspecified metacarpal bone, initial encounter for open fracture	Open fracture of shaft of metacarpal bone(s)
S62339B	81514	Displaced fracture of neck of unspecified metacarpal bone, initial encounter for open fracture	Open fracture of neck of metacarpal bone(s)
S62369B	81514	Nondisplaced fracture of neck of unspecified metacarpal bone, initial encounter for open fracture	Open fracture of neck of metacarpal bone(s)
S62399B	81519	Other fracture of unspecified metacarpal bone, initial encounter for open fracture	Open fracture of multiple sites of metacarpus
S62509A	81600	Fracture of unspecified phalanx of unspecified thumb, initial encounter for closed fracture	Closed fracture of phalanx or phalanges of hand, unspecified
S62609A	81600	Fracture of unspecified phalanx of unspecified finger, initial encounter for closed fracture	Closed fracture of phalanx or phalanges of hand, unspecified
S62513A	81601	Displaced fracture of proximal phalanx of unspecified thumb, initial encounter for closed fracture	Closed fracture of middle or proximal phalanx or phalanges of hand
S62516A	81601	Nondisplaced fracture of proximal phalanx of unspecified thumb, initial encounter for closed fracture	Closed fracture of middle or proximal phalanx or phalanges of hand
S62629A	81601	Displaced fracture of medial phalanx of unspecified finger, initial encounter for closed fracture	Closed fracture of middle or proximal phalanx or phalanges of hand
S62649A	81601	Nondisplaced fracture of proximal phalanx of unspecified finger, initial encounter for closed fracture	Closed fracture of middle or proximal phalanx or phalanges of hand
S62659A	81601	Nondisplaced fracture of medial phalanx of unspecified finger, initial encounter for closed fracture	Closed fracture of middle or proximal phalanx or phalanges of hand
S62523A	81602	Displaced fracture of distal phalanx of unspecified thumb, initial encounter for closed fracture	Closed fracture of distal phalanx or phalanges of hand
S62526A	81602	Nondisplaced fracture of distal phalanx of unspecified thumb, initial encounter for closed fracture	Closed fracture of distal phalanx or phalanges of hand
S62639A	81602	Displaced fracture of distal phalanx of unspecified finger, initial encounter for closed fracture	Closed fracture of distal phalanx or phalanges of hand
S62669A	81602	Nondisplaced fracture of distal phalanx of unspecified finger, initial encounter for closed fracture	Closed fracture of distal phalanx or phalanges of hand

Appendix A

Frailty markers

S6290XA	81603	Unspecified fracture of unspecified wrist and hand, initial encounter for closed fracture	Closed fracture of multiple sites of phalanx or phalanges of hand
S62509B	81610	Fracture of unspecified phalanx of unspecified thumb, initial encounter for open fracture	Open fracture of phalanx or phalanges of hand, unspecified
S62609B	81610	Fracture of unspecified phalanx of unspecified finger, initial encounter for open fracture	Open fracture of phalanx or phalanges of hand, unspecified
S62513B	81611	Displaced fracture of proximal phalanx of unspecified thumb, initial encounter for open fracture	Open fracture of middle or proximal phalanx or phalanges of hand
S62516B	81611	Nondisplaced fracture of proximal phalanx of unspecified thumb, initial encounter for open fracture	Open fracture of middle or proximal phalanx or phalanges of hand
S62619B	81611	Displaced fracture of proximal phalanx of unspecified finger, initial encounter for open fracture	Open fracture of middle or proximal phalanx or phalanges of hand
S62629B	81611	Displaced fracture of medial phalanx of unspecified finger, initial encounter for open fracture	Open fracture of middle or proximal phalanx or phalanges of hand
S62649B	81611	Nondisplaced fracture of proximal phalanx of unspecified finger, initial encounter for open fracture	Open fracture of middle or proximal phalanx or phalanges of hand
S62659B	81611	Nondisplaced fracture of medial phalanx of unspecified finger, initial encounter for open fracture	Open fracture of middle or proximal phalanx or phalanges of hand
S62523B	81612	Displaced fracture of distal phalanx of unspecified thumb, initial encounter for open fracture	Open fracture of distal phalanx or phalanges of hand
S62526B	81612	Nondisplaced fracture of distal phalanx of unspecified thumb, initial encounter for open fracture	Open fracture of distal phalanx or phalanges of hand
S62639B	81612	Displaced fracture of distal phalanx of unspecified finger, initial encounter for open fracture	Open fracture of distal phalanx or phalanges of hand
S62669B	81612	Nondisplaced fracture of distal phalanx of unspecified finger, initial encounter for open fracture	Open fracture of distal phalanx or phalanges of hand
S6290XA	8170	Unspecified fracture of unspecified wrist and hand, initial encounter for closed fracture	Multiple closed fractures of hand bones
S6290XB	8181	Unspecified fracture of unspecified wrist and hand, initial encounter for open fracture	Ill-defined open fractures of upper limb
S72019A	82000	Unspecified intracapsular fracture of unspecified femur, initial encounter for closed fracture	Closed fracture of intracapsular section of neck of femur, unspecified
S72023A	82001	Displaced fracture of epiphysis (separation) (upper) of unspecified femur, initial encounter for closed fracture	Closed fracture of epiphysis (separation) (upper) of neck of femur
S72026A	82001	Nondisplaced fracture of epiphysis (separation) (upper) of unspecified femur, initial encounter for closed fracture	Closed fracture of epiphysis (separation) (upper) of neck of femur
S72033A	82002	Displaced midcervical fracture of unspecified femur, initial encounter for closed fracture	Closed fracture of midcervical section of neck of femur
S72036A	82002	Nondisplaced midcervical fracture of unspecified femur, initial encounter for closed fracture	Closed fracture of midcervical section of neck of femur
S72043A	82003	Displaced fracture of base of neck of unspecified femur, initial encounter for closed fracture	Closed fracture of base of neck of femur
S72046A	82003	Nondisplaced fracture of base of neck of unspecified femur, initial encounter for closed fracture	Closed fracture of base of neck of femur
S72099A	82009	Other fracture of head and neck of unspecified femur, initial encounter for closed fracture	Other closed transcervical fracture of neck of femur
S72019B	82010	Unspecified intracapsular fracture of unspecified femur, initial encounter for open fracture type I or II	Open fracture of intracapsular section of neck of femur, unspecified
S72019C	82010	Unspecified intracapsular fracture of unspecified femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Open fracture of intracapsular section of neck of femur, unspecified
S72023B	82011	Displaced fracture of epiphysis (separation) (upper) of unspecified femur, initial encounter for open fracture type I or II	Open fracture of epiphysis (separation) (upper) of neck of femur
S72023C	82011	Displaced fracture of epiphysis (separation) (upper) of unspecified femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Open fracture of epiphysis (separation) (upper) of neck of femur
S72026B	82011	Nondisplaced fracture of epiphysis (separation) (upper) of unspecified femur, initial encounter for open fracture type I or II	Open fracture of epiphysis (separation) (upper) of neck of femur
S72026C	82011	Nondisplaced fracture of epiphysis (separation) (upper) of unspecified femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Open fracture of epiphysis (separation) (upper) of neck of femur

Appendix A

Frailty markers

S72033B	82012	Displaced midcervical fracture of unspecified femur, initial encounter for open fracture type I or II	Open fracture of midcervical section of neck of femur
S72033C	82012	Displaced midcervical fracture of unspecified femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Open fracture of midcervical section of neck of femur
S72036B	82012	Nondisplaced midcervical fracture of unspecified femur, initial encounter for open fracture type I or II	Open fracture of midcervical section of neck of femur
S72036C	82012	Nondisplaced midcervical fracture of unspecified femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Open fracture of midcervical section of neck of femur
S72043B	82013	Displaced fracture of base of neck of unspecified femur, initial encounter for open fracture type I or II	Open fracture of base of neck of femur
S72043C	82013	Displaced fracture of base of neck of unspecified femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Open fracture of base of neck of femur
S72046B	82013	Nondisplaced fracture of base of neck of unspecified femur, initial encounter for open fracture type I or II	Open fracture of base of neck of femur
S72046C	82013	Nondisplaced fracture of base of neck of unspecified femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Open fracture of base of neck of femur
S72099B	82019	Other fracture of head and neck of unspecified femur, initial encounter for open fracture type I or II	Other open transcervical fracture of neck of femur
S72099C	82019	Other fracture of head and neck of unspecified femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Other open transcervical fracture of neck of femur
S72109A	82020	Unspecified trochanteric fracture of unspecified femur, initial encounter for closed fracture	Closed fracture of trochanteric section of neck of femur
S72143A	82021	Displaced intertrochanteric fracture of unspecified femur, initial encounter for closed fracture	Closed fracture of intertrochanteric section of neck of femur
S72146A	82021	Nondisplaced intertrochanteric fracture of unspecified femur, initial encounter for closed fracture	Closed fracture of intertrochanteric section of neck of femur
S7223XA	82022	Displaced subtrochanteric fracture of unspecified femur, initial encounter for closed fracture	Closed fracture of subtrochanteric section of neck of femur
S7226XA	82022	Nondisplaced subtrochanteric fracture of unspecified femur, initial encounter for closed fracture	Closed fracture of subtrochanteric section of neck of femur
S72109B	82030	Unspecified trochanteric fracture of unspecified femur, initial encounter for open fracture type I or II	Open fracture of trochanteric section of neck of femur, unspecified
S72109C	82030	Unspecified trochanteric fracture of unspecified femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Open fracture of trochanteric section of neck of femur, unspecified
S72143B	82031	Displaced intertrochanteric fracture of unspecified femur, initial encounter for open fracture type I or II	Open fracture of intertrochanteric section of neck of femur
S72143C	82031	Displaced intertrochanteric fracture of unspecified femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Open fracture of intertrochanteric section of neck of femur
S72146B	82031	Nondisplaced intertrochanteric fracture of unspecified femur, initial encounter for open fracture type I or II	Open fracture of intertrochanteric section of neck of femur
S72146C	82031	Nondisplaced intertrochanteric fracture of unspecified femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Open fracture of intertrochanteric section of neck of femur
S7223XB	82032	Displaced subtrochanteric fracture of unspecified femur, initial encounter for open fracture type I or II	Open fracture of subtrochanteric section of neck of femur
S7223XC	82032	Displaced subtrochanteric fracture of unspecified femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Open fracture of subtrochanteric section of neck of femur
S7226XB	82032	Nondisplaced subtrochanteric fracture of unspecified femur, initial encounter for open fracture type I or II	Open fracture of subtrochanteric section of neck of femur
S7226XC	82032	Nondisplaced subtrochanteric fracture of unspecified femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Open fracture of subtrochanteric section of neck of femur
S72009A	8208	Fracture of unspecified part of neck of unspecified femur, initial encounter for closed fracture	Closed fracture of unspecified part of neck of femur
S72009B	8209	Fracture of unspecified part of neck of unspecified femur, initial encounter for open fracture type I or II	Open fracture of unspecified part of neck of femur
S72009C	8209	Fracture of unspecified part of neck of unspecified femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Open fracture of unspecified part of neck of femur
S7290XA	82100	Unspecified fracture of unspecified femur, initial encounter for closed fracture	Closed fracture of unspecified part of femur
S72309A	82101	Unspecified fracture of shaft of unspecified femur, initial encounter for closed fracture	Closed fracture of shaft of femur

Appendix A

Frailty markers

S7290XB	82110	Unspecified fracture of unspecified femur, initial encounter for open fracture type I or II	Open fracture of unspecified part of femur
S7290XC	82110	Unspecified fracture of unspecified femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Open fracture of unspecified part of femur
S72309B	82111	Unspecified fracture of shaft of unspecified femur, initial encounter for open fracture type I or II	Open fracture of shaft of femur
S72309C	82111	Unspecified fracture of shaft of unspecified femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Open fracture of shaft of femur
S72409A	82120	Unspecified fracture of lower end of unspecified femur, initial encounter for closed fracture	Closed fracture of lower end of femur, unspecified part
S72413A	82121	Displaced unspecified condyle fracture of lower end of unspecified femur, initial encounter for closed fracture	Closed fracture of condyle, femoral
S72416A	82121	Nondisplaced unspecified condyle fracture of lower end of unspecified femur, initial encounter for closed fracture	Closed fracture of condyle, femoral
S72443A	82122	Displaced fracture of lower epiphysis (separation) of unspecified femur, initial encounter for closed fracture	Closed fracture of epiphysis, lower (separation) of femur
S72446A	82122	Nondisplaced fracture of lower epiphysis (separation) of unspecified femur, initial encounter for closed fracture	Closed fracture of epiphysis, lower (separation) of femur
S72453A	82123	Displaced supracondylar fracture without intracondylar extension of lower end of unspecified femur, initial encounter for closed fracture	Closed supracondylar fracture of femur
S72456A	82123	Nondisplaced supracondylar fracture without intracondylar extension of lower end of unspecified femur, initial encounter for closed fracture	Closed supracondylar fracture of femur
S72499A	82129	Other fracture of lower end of unspecified femur, initial encounter for closed fracture	Other closed fracture of lower end of femur
S72409B	82130	Unspecified fracture of lower end of unspecified femur, initial encounter for open fracture type I or II	Open fracture of lower end of femur, unspecified part
S72409C	82130	Unspecified fracture of lower end of unspecified femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Open fracture of lower end of femur, unspecified part
S72413B	82131	Displaced unspecified condyle fracture of lower end of unspecified femur, initial encounter for open fracture type I or II	Open fracture of condyle, femoral
S72413C	82131	Displaced unspecified condyle fracture of lower end of unspecified femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Open fracture of condyle, femoral
S72416B	82131	Nondisplaced unspecified condyle fracture of lower end of unspecified femur, initial encounter for open fracture type I or II	Open fracture of condyle, femoral
S72416C	82131	Nondisplaced unspecified condyle fracture of lower end of unspecified femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Open fracture of condyle, femoral
S72443B	82132	Displaced fracture of lower epiphysis (separation) of unspecified femur, initial encounter for open fracture type I or II	Open fracture of epiphysis. Lower (separation) of femur
S72443C	82132	Displaced fracture of lower epiphysis (separation) of unspecified femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Open fracture of epiphysis. Lower (separation) of femur
S72446B	82132	Nondisplaced fracture of lower epiphysis (separation) of unspecified femur, initial encounter for open fracture type I or II	Open fracture of epiphysis. Lower (separation) of femur
S72446C	82132	Nondisplaced fracture of lower epiphysis (separation) of unspecified femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Open fracture of epiphysis. Lower (separation) of femur
S72453B	82133	Displaced supracondylar fracture without intracondylar extension of lower end of unspecified femur, initial encounter for open fracture type I or II	Open supracondylar fracture of femur
S72453C	82133	Displaced supracondylar fracture without intracondylar extension of lower end of unspecified femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Open supracondylar fracture of femur

Appendix A

Frailty markers

S72456B	82133	Nondisplaced supracondylar fracture without intracondylar extension of lower end of unspecified femur, initial encounter for open fracture type I or II	Open supracondylar fracture of femur
S72456C	82133	Nondisplaced supracondylar fracture without intracondylar extension of lower end of unspecified femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Open supracondylar fracture of femur
S72499B	82139	Other fracture of lower end of unspecified femur, initial encounter for open fracture type I or II	Other open fracture of lower end of femur
S72499C	82139	Other fracture of lower end of unspecified femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Other open fracture of lower end of femur
S82009A	8220	Unspecified fracture of unspecified patella, initial encounter for closed fracture	Closed fracture of patella
S82009B	8221	Unspecified fracture of unspecified patella, initial encounter for open fracture type I or II	Open fracture of patella
S82009C	8221	Unspecified fracture of unspecified patella, initial encounter for open fracture type IIIA, IIIB, or IIIC	Open fracture of patella
S82109A	82300	Unspecified fracture of upper end of unspecified tibia, initial encounter for closed fracture	Closed fracture of upper end of tibia alone
S82839A	82301	Other fracture of upper and lower end of unspecified fibula, initial encounter for closed fracture	Closed fracture of upper end of fibula alone
S82109B	82310	Unspecified fracture of upper end of unspecified tibia, initial encounter for open fracture type I or II	Open fracture of upper end of tibia alone
S82109C	82310	Unspecified fracture of upper end of unspecified tibia, initial encounter for open fracture type IIIA, IIIB, or IIIC	Open fracture of upper end of tibia alone
S82839B	82311	Other fracture of upper and lower end of unspecified fibula, initial encounter for open fracture type I or II	Open fracture of upper end of fibula alone
S82839C	82311	Other fracture of upper and lower end of unspecified fibula, initial encounter for open fracture type IIIA, IIIB, or IIIC	Open fracture of upper end of fibula alone
S82209A	82320	Unspecified fracture of shaft of unspecified tibia, initial encounter for closed fracture	Closed fracture of shaft of tibia alone
S82409A	82321	Unspecified fracture of shaft of unspecified fibula, initial encounter for closed fracture	Closed fracture of shaft of fibula alone
S82209B	82330	Unspecified fracture of shaft of unspecified tibia, initial encounter for open fracture type I or II	Open fracture of shaft of tibia alone
S82209C	82330	Unspecified fracture of shaft of unspecified tibia, initial encounter for open fracture type IIIA, IIIB, or IIIC	Open fracture of shaft of tibia alone
S82409B	82331	Unspecified fracture of shaft of unspecified fibula, initial encounter for open fracture type I or II	Open fracture of shaft of fibula alone
S82409C	82331	Unspecified fracture of shaft of unspecified fibula, initial encounter for open fracture type IIIA, IIIB, or IIIC	Open fracture of shaft of fibula alone
S82169A	82340	Torus fracture of upper end of unspecified tibia, initial encounter for closed fracture	Torus fracture, tibia alone
S82319A	82340	Torus fracture of lower end of unspecified tibia, initial encounter for closed fracture	Torus fracture, tibia alone
S82819A	82341	Torus fracture of upper end of unspecified fibula, initial encounter for closed fracture	Torus fracture, fibula alone
S82829A	82341	Torus fracture of lower end of unspecified fibula, initial encounter for closed fracture	Torus fracture, fibula alone
S82201A	82380	Unspecified fracture of shaft of right tibia, initial encounter for closed fracture	Closed fracture of unspecified part of tibia alone
S82401A	82381	Unspecified fracture of shaft of right fibula, initial encounter for closed fracture	Closed fracture of unspecified part of fibula alone
S82201B	82390	Unspecified fracture of shaft of right tibia, initial encounter for open fracture type I or II	Open fracture of unspecified part of tibia alone
S82201C	82390	Unspecified fracture of shaft of right tibia, initial encounter for open fracture type IIIA, IIIB, or IIIC	Open fracture of unspecified part of tibia alone
S82401B	82391	Unspecified fracture of shaft of right fibula, initial encounter for open fracture type I or II	Open fracture of unspecified part of fibula alone
S82401C	82391	Unspecified fracture of shaft of right fibula, initial encounter for open fracture type IIIA, IIIB, or IIIC	Open fracture of unspecified part of fibula alone
S8253XA	8240	Displaced fracture of medial malleolus of unspecified tibia, initial encounter for closed fracture	Fracture of medial malleolus, closed

Appendix A

Frailty markers

S8256XA	8240	Nondisplaced fracture of medial malleolus of unspecified tibia, initial encounter for closed fracture	Fracture of medial malleolus, closed
S8253XB	8241	Displaced fracture of medial malleolus of unspecified tibia, initial encounter for open fracture type I or II	Fracture of medial malleolus, open
S8253XC	8241	Displaced fracture of medial malleolus of unspecified tibia, initial encounter for open fracture type IIIA, IIB, or IIC	Fracture of medial malleolus, open
S8256XB	8241	Nondisplaced fracture of medial malleolus of unspecified tibia, initial encounter for open fracture type I or II	Fracture of medial malleolus, open
S8256XC	8241	Nondisplaced fracture of medial malleolus of unspecified tibia, initial encounter for open fracture type IIIA, IIB, or IIC	Fracture of medial malleolus, open
S8263XA	8242	Displaced fracture of lateral malleolus of unspecified fibula, initial encounter for closed fracture	Fracture of lateral malleolus, closed
S8266XA	8242	Nondisplaced fracture of lateral malleolus of unspecified fibula, initial encounter for closed fracture	Fracture of lateral malleolus, closed
S8263XB	8243	Displaced fracture of lateral malleolus of unspecified fibula, initial encounter for open fracture type I or II	Fracture of lateral malleolus, open
S8263XC	8243	Displaced fracture of lateral malleolus of unspecified fibula, initial encounter for open fracture type IIIA, IIB, or IIC	Fracture of lateral malleolus, open
S8266XB	8243	Nondisplaced fracture of lateral malleolus of unspecified fibula, initial encounter for open fracture type I or II	Fracture of lateral malleolus, open
S8266XC	8243	Nondisplaced fracture of lateral malleolus of unspecified fibula, initial encounter for open fracture type IIIA, IIB, or IIC	Fracture of lateral malleolus, open
S82843A	8244	Displaced bimalleolar fracture of unspecified lower leg, initial encounter for closed fracture	Bimalleolar fracture, closed
S82846A	8244	Nondisplaced bimalleolar fracture of unspecified lower leg, initial encounter for closed fracture	Bimalleolar fracture, closed
S82843B	8245	Displaced bimalleolar fracture of unspecified lower leg, initial encounter for open fracture type I or II	Bimalleolar fracture, open
S82843C	8245	Displaced bimalleolar fracture of unspecified lower leg, initial encounter for open fracture type IIIA, IIB, or IIC	Bimalleolar fracture, open
S82846B	8245	Nondisplaced bimalleolar fracture of unspecified lower leg, initial encounter for open fracture type I or II	Bimalleolar fracture, open
S82846C	8245	Nondisplaced bimalleolar fracture of unspecified lower leg, initial encounter for open fracture type IIIA, IIB, or IIC	Bimalleolar fracture, open
S82853A	8246	Displaced trimalleolar fracture of unspecified lower leg, initial encounter for closed fracture	Trimalleolar fracture, closed
S82856A	8246	Nondisplaced trimalleolar fracture of unspecified lower leg, initial encounter for closed fracture	Trimalleolar fracture, closed
S82853B	8247	Displaced trimalleolar fracture of unspecified lower leg, initial encounter for open fracture type I or II	Trimalleolar fracture, open
S82853C	8247	Displaced trimalleolar fracture of unspecified lower leg, initial encounter for open fracture type IIIA, IIB, or IIC	Trimalleolar fracture, open
S82856B	8247	Nondisplaced trimalleolar fracture of unspecified lower leg, initial encounter for open fracture type I or II	Trimalleolar fracture, open
S82856C	8247	Nondisplaced trimalleolar fracture of unspecified lower leg, initial encounter for open fracture type IIIA, IIB, or IIC	Trimalleolar fracture, open
S82899A	8248	Other fracture of unspecified lower leg, initial encounter for closed fracture	Unspecified fracture of ankle, closed
S82899B	8249	Other fracture of unspecified lower leg, initial encounter for open fracture type I or II	Unspecified fracture of ankle, open
S82899C	8249	Other fracture of unspecified lower leg, initial encounter for open fracture type IIIA, IIB, or IIC	Unspecified fracture of ankle, open
S92009A	8250	Unspecified fracture of unspecified calcaneus, initial encounter for closed fracture	Fracture of calcaneus, closed
S99009A	8250	Unspecified physeal fracture of unspecified calcaneus, initial encounter for closed fracture	Fracture of calcaneus, closed
S99019A	8250	Salter-Harris Type I physeal fracture of unspecified calcaneus, initial encounter for closed fracture	Fracture of calcaneus, closed
S99029A	8250	Salter-Harris Type II physeal fracture of unspecified calcaneus, initial encounter for closed fracture	Fracture of calcaneus, closed

Appendix A

Frailty markers

S99039A	8250	Salter-Harris Type III physeal fracture of unspecified calcaneus, initial encounter for closed fracture	Fracture of calcaneus, closed
S99049A	8250	Salter-Harris Type IV physeal fracture of unspecified calcaneus, initial encounter for closed fracture	Fracture of calcaneus, closed
S99099A	8250	Other physeal fracture of unspecified calcaneus, initial encounter for closed fracture	Fracture of calcaneus, closed
S92009B	8251	Unspecified fracture of unspecified calcaneus, initial encounter for open fracture	Fracture of calcaneus, open
S99009B	8251	Unspecified physeal fracture of unspecified calcaneus, initial encounter for open fracture	Fracture of calcaneus, open
S99019B	8251	Salter-Harris Type I physeal fracture of unspecified calcaneus, initial encounter for open fracture	Fracture of calcaneus, open
S99029B	8251	Salter-Harris Type II physeal fracture of unspecified calcaneus, initial encounter for open fracture	Fracture of calcaneus, open
S99039B	8251	Salter-Harris Type III physeal fracture of unspecified calcaneus, initial encounter for open fracture	Fracture of calcaneus, open
S99049B	8251	Salter-Harris Type IV physeal fracture of unspecified calcaneus, initial encounter for open fracture	Fracture of calcaneus, open
S99099B	8251	Other physeal fracture of unspecified calcaneus, initial encounter for open fracture	Fracture of calcaneus, open
S92819A	82520	Other fracture of unspecified foot, initial encounter for closed fracture	Closed fracture of unspecified bone(s) of foot [except toes]
S92909A	82520	Unspecified fracture of unspecified foot, initial encounter for closed fracture	Closed fracture of unspecified bone(s) of foot [except toes]
S92109A	82521	Unspecified fracture of unspecified talus, initial encounter for closed fracture	Closed fracture of astragalus
S92253A	82522	Displaced fracture of navicular [scaphoid] of unspecified foot, initial encounter for closed fracture	Closed fracture of navicular [scaphoid], foot
S92256A	82522	Nondisplaced fracture of navicular [scaphoid] of unspecified foot, initial encounter for closed fracture	Closed fracture of navicular [scaphoid], foot
S92213A	82523	Displaced fracture of cuboid bone of unspecified foot, initial encounter for closed fracture	Closed fracture of cuboid
S92216A	82523	Nondisplaced fracture of cuboid bone of unspecified foot, initial encounter for closed fracture	Closed fracture of cuboid
S92223A	82524	Displaced fracture of lateral cuneiform of unspecified foot, initial encounter for closed fracture	Closed fracture of cuneiform, foot
S92226A	82524	Nondisplaced fracture of lateral cuneiform of unspecified foot, initial encounter for closed fracture	Closed fracture of cuneiform, foot
S92233A	82524	Displaced fracture of intermediate cuneiform of unspecified foot, initial encounter for closed fracture	Closed fracture of cuneiform, foot
S92236A	82524	Nondisplaced fracture of intermediate cuneiform of unspecified foot, initial encounter for closed fracture	Closed fracture of cuneiform, foot
S92243A	82524	Displaced fracture of medial cuneiform of unspecified foot, initial encounter for closed fracture	Closed fracture of cuneiform, foot
S92246A	82524	Nondisplaced fracture of medial cuneiform of unspecified foot, initial encounter for closed fracture	Closed fracture of cuneiform, foot
S92309A	82525	Fracture of unspecified metatarsal bone(s), unspecified foot, initial encounter for closed fracture	Closed fracture of metatarsal bone(s)
S99109A	82525	Unspecified physeal fracture of unspecified metatarsal, initial encounter for closed fracture	Closed fracture of metatarsal bone(s)
S99119A	82525	Salter-Harris Type I physeal fracture of unspecified metatarsal, initial encounter for closed fracture	Closed fracture of metatarsal bone(s)
S99129A	82525	Salter-Harris Type II physeal fracture of unspecified metatarsal, initial encounter for closed fracture	Closed fracture of metatarsal bone(s)
S99139A	82525	Salter-Harris Type III physeal fracture of unspecified metatarsal, initial encounter for closed fracture	Closed fracture of metatarsal bone(s)
S99149A	82525	Salter-Harris Type IV physeal fracture of unspecified metatarsal, initial encounter for closed fracture	Closed fracture of metatarsal bone(s)
S99199A	82525	Other physeal fracture of unspecified metatarsal, initial encounter for closed fracture	Closed fracture of metatarsal bone(s)
S92201A	82529	Fracture of unspecified tarsal bone(s) of right foot, initial encounter for closed fracture	Other closed fracture of tarsal and metatarsal bones

Appendix A

Frailty markers

S92202A	82529	Fracture of unspecified tarsal bone(s) of left foot, initial encounter for closed fracture	Other closed fracture of tarsal and metatarsal bones
S92209A	82529	Fracture of unspecified tarsal bone(s) of unspecified foot, initial encounter for closed fracture	Other closed fracture of tarsal and metatarsal bones
S92819B	82530	Other fracture of unspecified foot, initial encounter for open fracture	Open fracture of unspecified bone(s) of foot [except toes]
S92909B	82530	Unspecified fracture of unspecified foot, initial encounter for open fracture	Open fracture of unspecified bone(s) of foot [except toes]
S92109B	82531	Unspecified fracture of unspecified talus, initial encounter for open fracture	Open fracture of astragalus
S92253B	82532	Displaced fracture of navicular [scaphoid] of unspecified foot, initial encounter for open fracture	Open fracture of navicular [scaphoid], foot
S92256B	82532	Nondisplaced fracture of navicular [scaphoid] of unspecified foot, initial encounter for open fracture	Open fracture of navicular [scaphoid], foot
S92213B	82533	Displaced fracture of cuboid bone of unspecified foot, initial encounter for open fracture	Open fracture of cuboid
S92216B	82533	Nondisplaced fracture of cuboid bone of unspecified foot, initial encounter for open fracture	Open fracture of cuboid
S92223B	82534	Displaced fracture of lateral cuneiform of unspecified foot, initial encounter for open fracture	Open fracture of cuneiform, foot
S92226B	82534	Nondisplaced fracture of lateral cuneiform of unspecified foot, initial encounter for open fracture	Open fracture of cuneiform, foot
S92233B	82534	Displaced fracture of intermediate cuneiform of unspecified foot, initial encounter for open fracture	Open fracture of cuneiform, foot
S92236B	82534	Nondisplaced fracture of intermediate cuneiform of unspecified foot, initial encounter for open fracture	Open fracture of cuneiform, foot
S92243B	82534	Displaced fracture of medial cuneiform of unspecified foot, initial encounter for open fracture	Open fracture of cuneiform, foot
S92246B	82534	Nondisplaced fracture of medial cuneiform of unspecified foot, initial encounter for open fracture	Open fracture of cuneiform, foot
S92309B	82535	Fracture of unspecified metatarsal bone(s), unspecified foot, initial encounter for open fracture	Open fracture of metatarsal bone(s)
S99109B	82535	Unspecified physeal fracture of unspecified metatarsal, initial encounter for open fracture	Open fracture of metatarsal bone(s)
S99119B	82535	Salter-Harris Type I physeal fracture of unspecified metatarsal, initial encounter for open fracture	Open fracture of metatarsal bone(s)
S99129B	82535	Salter-Harris Type II physeal fracture of unspecified metatarsal, initial encounter for open fracture	Open fracture of metatarsal bone(s)
S99139B	82535	Salter-Harris Type III physeal fracture of unspecified metatarsal, initial encounter for open fracture	Open fracture of metatarsal bone(s)
S99149B	82535	Salter-Harris Type IV physeal fracture of unspecified metatarsal, initial encounter for open fracture	Open fracture of metatarsal bone(s)
S99199B	82535	Other physeal fracture of unspecified metatarsal, initial encounter for open fracture	Open fracture of metatarsal bone(s)
S92201B	82539	Fracture of unspecified tarsal bone(s) of right foot, initial encounter for open fracture	Other open fracture of tarsal and metatarsal bones
S92202B	82539	Fracture of unspecified tarsal bone(s) of left foot, initial encounter for open fracture	Other open fracture of tarsal and metatarsal bones
S92209B	82539	Fracture of unspecified tarsal bone(s) of unspecified foot, initial encounter for open fracture	Other open fracture of tarsal and metatarsal bones
S92403A	8260	Displaced unspecified fracture of unspecified great toe, initial encounter for closed fracture	Closed fracture of one or more phalanges of foot
S92406A	8260	Nondisplaced unspecified fracture of unspecified great toe, initial encounter for closed fracture	Closed fracture of one or more phalanges of foot
S92503A	8260	Displaced unspecified fracture of unspecified lesser toe(s), initial encounter for closed fracture	Closed fracture of one or more phalanges of foot
S92506A	8260	Nondisplaced unspecified fracture of unspecified lesser toe(s), initial encounter for closed fracture	Closed fracture of one or more phalanges of foot
S92403B	8261	Displaced unspecified fracture of unspecified great toe, initial encounter for open fracture	Open fracture of one or more phalanges of foot
S92406B	8261	Nondisplaced unspecified fracture of unspecified great toe, initial encounter for open fracture	Open fracture of one or more phalanges of foot

Appendix A

Frailty markers

S92503B	8261	Displaced unspecified fracture of unspecified lesser toe(s), initial encounter for open fracture	Open fracture of one or more phalanges of foot
S92506B	8261	Nondisplaced unspecified fracture of unspecified lesser toe(s), initial encounter for open fracture	Open fracture of one or more phalanges of foot
S8290XA	8270	Unspecified fracture of unspecified lower leg, initial encounter for closed fracture	Other, multiple and ill-defined fractures of lower limb, closed
S8290XB	8271	Unspecified fracture of unspecified lower leg, initial encounter for open fracture type I or II	Other, multiple and ill-defined fractures of lower limb, open
S7290XA	8280	Unspecified fracture of unspecified femur, initial encounter for closed fracture	Closed multiple fractures involving both lower limbs, lower with upper limb, and lower limb(s) with rib(s) and sternum
S8290XA	8280	Unspecified fracture of unspecified lower leg, initial encounter for closed fracture	Closed multiple fractures involving both lower limbs, lower with upper limb, and lower limb(s) with rib(s) and sternum
S7290XE	8281	Unspecified fracture of unspecified femur, subsequent encounter for open fracture type I or II with routine healing	Open multiple fractures involving both lower limbs, lower with upper limb, and lower limb(s) with rib(s) and sternum
S8290XB	8281	Unspecified fracture of unspecified lower leg, initial encounter for open fracture type I or II	Open multiple fractures involving both lower limbs, lower with upper limb, and lower limb(s) with rib(s) and sternum
M8000XA	73310	Age-related osteoporosis with current pathological fracture, unspecified site, initial encounter for fracture	Pathologic fracture, unspecified site
M8080XA	73310	Other osteoporosis with current pathological fracture, unspecified site, initial encounter for fracture	Pathologic fracture, unspecified site
M8450XA	73310	Pathological fracture in neoplastic disease, unspecified site, initial encounter for fracture	Pathologic fracture, unspecified site
M8460XA	73310	Pathological fracture in other disease, unspecified site, initial encounter for fracture	Pathologic fracture, unspecified site
M80021A	73311	Age-related osteoporosis with current pathological fracture, right humerus, initial encounter for fracture	Pathologic fracture of humerus
M80022A	73311	Age-related osteoporosis with current pathological fracture, left humerus, initial encounter for fracture	Pathologic fracture of humerus
M80029A	73311	Age-related osteoporosis with current pathological fracture, unspecified humerus, initial encounter for fracture	Pathologic fracture of humerus
M80821A	73311	Other osteoporosis with current pathological fracture, right humerus, initial encounter for fracture	Pathologic fracture of humerus
M80822A	73311	Other osteoporosis with current pathological fracture, left humerus, initial encounter for fracture	Pathologic fracture of humerus
M80829A	73311	Other osteoporosis with current pathological fracture, unspecified humerus, initial encounter for fracture	Pathologic fracture of humerus
M84421A	73311	Pathological fracture, right humerus, initial encounter for fracture	Pathologic fracture of humerus
M84422A	73311	Pathological fracture, left humerus, initial encounter for fracture	Pathologic fracture of humerus
M84521A	73311	Pathological fracture in neoplastic disease, right humerus, initial encounter for fracture	Pathologic fracture of humerus
M84522A	73311	Pathological fracture in neoplastic disease, left humerus, initial encounter for fracture	Pathologic fracture of humerus
M84529A	73311	Pathological fracture in neoplastic disease, unspecified humerus, initial encounter for fracture	Pathologic fracture of humerus
M84621A	73311	Pathological fracture in other disease, right humerus, initial encounter for fracture	Pathologic fracture of humerus
M84622A	73311	Pathological fracture in other disease, left humerus, initial encounter for fracture	Pathologic fracture of humerus
M84629A	73311	Pathological fracture in other disease, unspecified humerus, initial encounter for fracture	Pathologic fracture of humerus
M80031A	73312	Age-related osteoporosis with current pathological fracture, right forearm, initial encounter for fracture	Pathologic fracture of distal radius and ulna
M80032A	73312	Age-related osteoporosis with current pathological fracture, left forearm, initial encounter for fracture	Pathologic fracture of distal radius and ulna
M80039A	73312	Age-related osteoporosis with current pathological fracture, unspecified forearm, initial encounter for fracture	Pathologic fracture of distal radius and ulna
M80831A	73312	Other osteoporosis with current pathological fracture, right forearm, initial encounter for fracture	Pathologic fracture of distal radius and ulna

Appendix A

Frailty markers

M80832A	73312	Other osteoporosis with current pathological fracture, left forearm, initial encounter for fracture	Pathologic fracture of distal radius and ulna
M80839A	73312	Other osteoporosis with current pathological fracture, unspecified forearm, initial encounter for fracture	Pathologic fracture of distal radius and ulna
M84431A	73312	Pathological fracture, right ulna, initial encounter for fracture	Pathologic fracture of distal radius and ulna
M84432A	73312	Pathological fracture, left ulna, initial encounter for fracture	Pathologic fracture of distal radius and ulna
M84433A	73312	Pathological fracture, right radius, initial encounter for fracture	Pathologic fracture of distal radius and ulna
M84434A	73312	Pathological fracture, left radius, initial encounter for fracture	Pathologic fracture of distal radius and ulna
M84531A	73312	Pathological fracture in neoplastic disease, right ulna, initial encounter for fracture	Pathologic fracture of distal radius and ulna
M84532A	73312	Pathological fracture in neoplastic disease, left ulna, initial encounter for fracture	Pathologic fracture of distal radius and ulna
M84533A	73312	Pathological fracture in neoplastic disease, right radius, initial encounter for fracture	Pathologic fracture of distal radius and ulna
M84534A	73312	Pathological fracture in neoplastic disease, left radius, initial encounter for fracture	Pathologic fracture of distal radius and ulna
M84539A	73312	Pathological fracture in neoplastic disease, unspecified ulna and radius, initial encounter for fracture	Pathologic fracture of distal radius and ulna
M84631A	73312	Pathological fracture in other disease, right ulna, initial encounter for fracture	Pathologic fracture of distal radius and ulna
M84632A	73312	Pathological fracture in other disease, left ulna, initial encounter for fracture	Pathologic fracture of distal radius and ulna
M84633A	73312	Pathological fracture in other disease, right radius, initial encounter for fracture	Pathologic fracture of distal radius and ulna
M84634A	73312	Pathological fracture in other disease, left radius, initial encounter for fracture	Pathologic fracture of distal radius and ulna
M84639A	73312	Pathological fracture in other disease, unspecified ulna and radius, initial encounter for fracture	Pathologic fracture of distal radius and ulna
M4851XA	73313	Collapsed vertebra, not elsewhere classified, occipito-atlanto-axial region, initial encounter for fracture	Pathologic fracture of vertebrae
M4852XA	73313	Collapsed vertebra, not elsewhere classified, cervical region, initial encounter for fracture	Pathologic fracture of vertebrae
M4853XA	73313	Collapsed vertebra, not elsewhere classified, cervicothoracic region, initial encounter for fracture	Pathologic fracture of vertebrae
M4854XA	73313	Collapsed vertebra, not elsewhere classified, thoracic region, initial encounter for fracture	Pathologic fracture of vertebrae
M4855XA	73313	Collapsed vertebra, not elsewhere classified, thoracolumbar region, initial encounter for fracture	Pathologic fracture of vertebrae
M4856XA	73313	Collapsed vertebra, not elsewhere classified, lumbar region, initial encounter for fracture	Pathologic fracture of vertebrae
M4857XA	73313	Collapsed vertebra, not elsewhere classified, lumbosacral region, initial encounter for fracture	Pathologic fracture of vertebrae
M4858XA	73313	Collapsed vertebra, not elsewhere classified, sacral and sacrococcygeal region, initial encounter for fracture	Pathologic fracture of vertebrae
M8088XA	73313	Other osteoporosis with current pathological fracture, vertebra(e), initial encounter for fracture	Pathologic fracture of vertebrae
M8448XA	73313	Pathological fracture, other site, initial encounter for fracture	Pathologic fracture of vertebrae
M8458XA	73313	Pathological fracture in neoplastic disease, other specified site, initial encounter for fracture	Pathologic fracture of vertebrae
M80051A	73314	Age-related osteoporosis with current pathological fracture, right femur, initial encounter for fracture	Pathologic fracture of neck of femur
M80052A	73314	Age-related osteoporosis with current pathological fracture, left femur, initial encounter for fracture	Pathologic fracture of neck of femur
M80059A	73314	Age-related osteoporosis with current pathological fracture, unspecified femur, initial encounter for fracture	Pathologic fracture of neck of femur
M80851A	73314	Other osteoporosis with current pathological fracture, right femur, initial encounter for fracture	Pathologic fracture of neck of femur

Appendix A

Frailty markers

M80852A	73314	Other osteoporosis with current pathological fracture, left femur, initial encounter for fracture	Pathologic fracture of neck of femur
M80859A	73314	Other osteoporosis with current pathological fracture, unspecified femur, initial encounter for fracture	Pathologic fracture of neck of femur
M84451A	73314	Pathological fracture, right femur, initial encounter for fracture	Pathologic fracture of neck of femur
M84452A	73314	Pathological fracture, left femur, initial encounter for fracture	Pathologic fracture of neck of femur
M84551A	73314	Pathological fracture in neoplastic disease, right femur, initial encounter for fracture	Pathologic fracture of neck of femur
M84552A	73314	Pathological fracture in neoplastic disease, left femur, initial encounter for fracture	Pathologic fracture of neck of femur
M84553A	73314	Pathological fracture in neoplastic disease, unspecified femur, initial encounter for fracture	Pathologic fracture of neck of femur
M84559A	73314	Pathological fracture in neoplastic disease, hip, unspecified, initial encounter for fracture	Pathologic fracture of neck of femur
M84651A	73314	Pathological fracture in other disease, right femur, initial encounter for fracture	Pathologic fracture of neck of femur
M84652A	73314	Pathological fracture in other disease, left femur, initial encounter for fracture	Pathologic fracture of neck of femur
M84653A	73314	Pathological fracture in other disease, unspecified femur, initial encounter for fracture	Pathologic fracture of neck of femur
M84659A	73314	Pathological fracture in other disease, hip, unspecified, initial encounter for fracture	Pathologic fracture of neck of femur
M84751A	73314	Incomplete atypical femoral fracture, right leg, initial encounter for fracture	Pathologic fracture of neck of femur
M84752A	73314	Incomplete atypical femoral fracture, left leg, initial encounter for fracture	Pathologic fracture of neck of femur
M84754A	73314	Complete transverse atypical femoral fracture, right leg, initial encounter for fracture	Pathologic fracture of neck of femur
M84755A	73314	Complete transverse atypical femoral fracture, left leg, initial encounter for fracture	Pathologic fracture of neck of femur
M84757A	73314	Complete oblique atypical femoral fracture, right leg, initial encounter for fracture	Pathologic fracture of neck of femur
M84758A	73314	Complete oblique atypical femoral fracture, left leg, initial encounter for fracture	Pathologic fracture of neck of femur
M80051A	73315	Age-related osteoporosis with current pathological fracture, right femur, initial encounter for fracture	Pathologic fracture of other specified part of femur
M80052A	73315	Age-related osteoporosis with current pathological fracture, left femur, initial encounter for fracture	Pathologic fracture of other specified part of femur
M80059A	73315	Age-related osteoporosis with current pathological fracture, unspecified femur, initial encounter for fracture	Pathologic fracture of other specified part of femur
M80851A	73315	Other osteoporosis with current pathological fracture, right femur, initial encounter for fracture	Pathologic fracture of other specified part of femur
M80852A	73315	Other osteoporosis with current pathological fracture, left femur, initial encounter for fracture	Pathologic fracture of other specified part of femur
M80859A	73315	Other osteoporosis with current pathological fracture, unspecified femur, initial encounter for fracture	Pathologic fracture of other specified part of femur
M84451A	73315	Pathological fracture, right femur, initial encounter for fracture	Pathologic fracture of other specified part of femur
M84452A	73315	Pathological fracture, left femur, initial encounter for fracture	Pathologic fracture of other specified part of femur
M84551A	73315	Pathological fracture in neoplastic disease, right femur, initial encounter for fracture	Pathologic fracture of other specified part of femur
M84552A	73315	Pathological fracture in neoplastic disease, left femur, initial encounter for fracture	Pathologic fracture of other specified part of femur
M84553A	73315	Pathological fracture in neoplastic disease, unspecified femur, initial encounter for fracture	Pathologic fracture of other specified part of femur
M84559A	73315	Pathological fracture in neoplastic disease, hip, unspecified, initial encounter for fracture	Pathologic fracture of other specified part of femur
M84651A	73315	Pathological fracture in other disease, right femur, initial encounter for fracture	Pathologic fracture of other specified part of femur

Appendix A

Frailty markers

M84652A	73315	Pathological fracture in other disease, left femur, initial encounter for fracture	Pathologic fracture of other specified part of femur
M84653A	73315	Pathological fracture in other disease, unspecified femur, initial encounter for fracture	Pathologic fracture of other specified part of femur
M84659A	73315	Pathological fracture in other disease, hip, unspecified, initial encounter for fracture	Pathologic fracture of other specified part of femur
M84751A	73315	Incomplete atypical femoral fracture, right leg, initial encounter for fracture	Pathologic fracture of other specified part of femur
M84752A	73315	Incomplete atypical femoral fracture, left leg, initial encounter for fracture	Pathologic fracture of other specified part of femur
M84753A	73315	Incomplete atypical femoral fracture, unspecified leg, initial encounter for fracture	Pathologic fracture of other specified part of femur
M84754A	73315	Complete transverse atypical femoral fracture, right leg, initial encounter for fracture	Pathologic fracture of other specified part of femur
M84755A	73315	Complete transverse atypical femoral fracture, left leg, initial encounter for fracture	Pathologic fracture of other specified part of femur
M84756A	73315	Complete transverse atypical femoral fracture, unspecified leg, initial encounter for fracture	Pathologic fracture of other specified part of femur
M84757A	73315	Complete oblique atypical femoral fracture, right leg, initial encounter for fracture	Pathologic fracture of other specified part of femur
M84758A	73315	Complete oblique atypical femoral fracture, left leg, initial encounter for fracture	Pathologic fracture of other specified part of femur
M84759A	73315	Complete oblique atypical femoral fracture, unspecified leg, initial encounter for fracture	Pathologic fracture of other specified part of femur
M80061A	73316	Age-related osteoporosis with current pathological fracture, right lower leg, initial encounter for fracture	Pathologic fracture of tibia or fibula
M80062A	73316	Age-related osteoporosis with current pathological fracture, left lower leg, initial encounter for fracture	Pathologic fracture of tibia or fibula
M80069A	73316	Age-related osteoporosis with current pathological fracture, unspecified lower leg, initial encounter for fracture	Pathologic fracture of tibia or fibula
M80071A	73316	Age-related osteoporosis with current pathological fracture, right ankle and foot, initial encounter for fracture	Pathologic fracture of tibia or fibula
M80072A	73316	Age-related osteoporosis with current pathological fracture, left ankle and foot, initial encounter for fracture	Pathologic fracture of tibia or fibula
M80079A	73316	Age-related osteoporosis with current pathological fracture, unspecified ankle and foot, initial encounter for fracture	Pathologic fracture of tibia or fibula
M80861A	73316	Other osteoporosis with current pathological fracture, right lower leg, initial encounter for fracture	Pathologic fracture of tibia or fibula
M80862A	73316	Other osteoporosis with current pathological fracture, left lower leg, initial encounter for fracture	Pathologic fracture of tibia or fibula
M80869A	73316	Other osteoporosis with current pathological fracture, unspecified lower leg, initial encounter for fracture	Pathologic fracture of tibia or fibula
M80871A	73316	Other osteoporosis with current pathological fracture, right ankle and foot, initial encounter for fracture	Pathologic fracture of tibia or fibula
M80872A	73316	Other osteoporosis with current pathological fracture, left ankle and foot, initial encounter for fracture	Pathologic fracture of tibia or fibula
M80879A	73316	Other osteoporosis with current pathological fracture, unspecified ankle and foot, initial encounter for fracture	Pathologic fracture of tibia or fibula
M84461A	73316	Pathological fracture, right tibia, initial encounter for fracture	Pathologic fracture of tibia or fibula
M84462A	73316	Pathological fracture, left tibia, initial encounter for fracture	Pathologic fracture of tibia or fibula
M84463A	73316	Pathological fracture, right fibula, initial encounter for fracture	Pathologic fracture of tibia or fibula
M84464A	73316	Pathological fracture, left fibula, initial encounter for fracture	Pathologic fracture of tibia or fibula
M84471A	73316	Pathological fracture, right ankle, initial encounter for fracture	Pathologic fracture of tibia or fibula
M84472A	73316	Pathological fracture, left ankle, initial encounter for fracture	Pathologic fracture of tibia or fibula

Appendix A

Frailty markers

M84473A	73316	Pathological fracture, unspecified ankle, initial encounter for fracture	Pathologic fracture of tibia or fibula
M84561A	73316	Pathological fracture in neoplastic disease, right tibia, initial encounter for fracture	Pathologic fracture of tibia or fibula
M84562A	73316	Pathological fracture in neoplastic disease, left tibia, initial encounter for fracture	Pathologic fracture of tibia or fibula
M84563A	73316	Pathological fracture in neoplastic disease, right fibula, initial encounter for fracture	Pathologic fracture of tibia or fibula
M84564A	73316	Pathological fracture in neoplastic disease, left fibula, initial encounter for fracture	Pathologic fracture of tibia or fibula
M84569A	73316	Pathological fracture in neoplastic disease, unspecified tibia and fibula, initial encounter for fracture	Pathologic fracture of tibia or fibula
M84571A	73316	Pathological fracture in neoplastic disease, right ankle, initial encounter for fracture	Pathologic fracture of tibia or fibula
M84572A	73316	Pathological fracture in neoplastic disease, left ankle, initial encounter for fracture	Pathologic fracture of tibia or fibula
M84573A	73316	Pathological fracture in neoplastic disease, unspecified ankle, initial encounter for fracture	Pathologic fracture of tibia or fibula
M84661A	73316	Pathological fracture in other disease, right tibia, initial encounter for fracture	Pathologic fracture of tibia or fibula
M84662A	73316	Pathological fracture in other disease, left tibia, initial encounter for fracture	Pathologic fracture of tibia or fibula
M84663A	73316	Pathological fracture in other disease, right fibula, initial encounter for fracture	Pathologic fracture of tibia or fibula
M84664A	73316	Pathological fracture in other disease, left fibula, initial encounter for fracture	Pathologic fracture of tibia or fibula
M84669A	73316	Pathological fracture in other disease, unspecified tibia and fibula, initial encounter for fracture	Pathologic fracture of tibia or fibula
M84671A	73316	Pathological fracture in other disease, right ankle, initial encounter for fracture	Pathologic fracture of tibia or fibula
M84672A	73316	Pathological fracture in other disease, left ankle, initial encounter for fracture	Pathologic fracture of tibia or fibula
M84673A	73316	Pathological fracture in other disease, unspecified ankle, initial encounter for fracture	Pathologic fracture of tibia or fibula
M80011A	73319	Age-related osteoporosis with current pathological fracture, right shoulder, initial encounter for fracture	Pathologic fracture of other specified site
M80012A	73319	Age-related osteoporosis with current pathological fracture, left shoulder, initial encounter for fracture	Pathologic fracture of other specified site
M80019A	73319	Age-related osteoporosis with current pathological fracture, unspecified shoulder, initial encounter for fracture	Pathologic fracture of other specified site
M80041A	73319	Age-related osteoporosis with current pathological fracture, right hand, initial encounter for fracture	Pathologic fracture of other specified site
M80042A	73319	Age-related osteoporosis with current pathological fracture, left hand, initial encounter for fracture	Pathologic fracture of other specified site
M80049A	73319	Age-related osteoporosis with current pathological fracture, unspecified hand, initial encounter for fracture	Pathologic fracture of other specified site
M80811A	73319	Other osteoporosis with current pathological fracture, right shoulder, initial encounter for fracture	Pathologic fracture of other specified site
M80812A	73319	Other osteoporosis with current pathological fracture, left shoulder, initial encounter for fracture	Pathologic fracture of other specified site
M80819A	73319	Other osteoporosis with current pathological fracture, unspecified shoulder, initial encounter for fracture	Pathologic fracture of other specified site
M80841A	73319	Other osteoporosis with current pathological fracture, right hand, initial encounter for fracture	Pathologic fracture of other specified site
M80842A	73319	Other osteoporosis with current pathological fracture, left hand, initial encounter for fracture	Pathologic fracture of other specified site
M80849A	73319	Other osteoporosis with current pathological fracture, unspecified hand, initial encounter for fracture	Pathologic fracture of other specified site
M84411A	73319	Pathological fracture, right shoulder, initial encounter for fracture	Pathologic fracture of other specified site
M84412A	73319	Pathological fracture, left shoulder, initial encounter for fracture	Pathologic fracture of other specified site

Appendix A

Frailty markers

[illegible]

Appendix A

Frailty markers

M84676A	73319	Pathological fracture in other disease, unspecified foot, initial encounter for fracture	Pathologic fracture of other specified site
M8468XA	73319	Pathological fracture in other disease, other site, initial encounter for fracture	Pathologic fracture of other specified site
S020XXA	80001	Fracture of vault of skull, initial encounter for closed fracture	Closed fracture of vault of skull without mention of intracranial injury, with no loss of consciousness
S020XXA	80002	Fracture of vault of skull, initial encounter for closed fracture	Closed fracture of vault of skull without mention of intracranial injury, with brief [less than one hour] loss of consciousness
S020XXA	80003	Fracture of vault of skull, initial encounter for closed fracture	Closed fracture of vault of skull without mention of intracranial injury, with moderate [1-24 hours] loss of consciousness
S020XXA	80004	Fracture of vault of skull, initial encounter for closed fracture	Closed fracture of vault of skull without mention of intracranial injury, with prolonged [more than 24 hours] loss of consciousness and return to pre-existing conscious level
S020XXA	80005	Fracture of vault of skull, initial encounter for closed fracture	Closed fracture of vault of skull without mention of intracranial injury, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level
S020XXA	80006	Fracture of vault of skull, initial encounter for closed fracture	Closed fracture of vault of skull without mention of intracranial injury, with loss of consciousness of unspecified duration
S020XXA	80009	Fracture of vault of skull, initial encounter for closed fracture	Closed fracture of vault of skull without mention of intracranial injury, with concussion, unspecified
S020XXA	80010	Fracture of vault of skull, initial encounter for closed fracture	Closed fracture of vault of skull with cerebral laceration and contusion, unspecified state of consciousness
S06330A	80010	Contusion and laceration of cerebrum, unspecified, without loss of consciousness, initial encounter	Closed fracture of vault of skull with cerebral laceration and contusion, unspecified state of consciousness
S020XXA	80011	Fracture of vault of skull, initial encounter for closed fracture	Closed fracture of vault of skull with cerebral laceration and contusion, with no loss of consciousness
S06330A	80011	Contusion and laceration of cerebrum, unspecified, without loss of consciousness, initial encounter	Closed fracture of vault of skull with cerebral laceration and contusion, with no loss of consciousness
S020XXA	80012	Fracture of vault of skull, initial encounter for closed fracture	Closed fracture of vault of skull with cerebral laceration and contusion, with brief [less than one hour] loss of consciousness
S06331A	80012	Contusion and laceration of cerebrum, unspecified, with loss of consciousness of 30 minutes or less, initial encounter	Closed fracture of vault of skull with cerebral laceration and contusion, with brief [less than one hour] loss of consciousness
S06332A	80012	Contusion and laceration of cerebrum, unspecified, with loss of consciousness of 31 minutes to 59 minutes, initial encounter	Closed fracture of vault of skull with cerebral laceration and contusion, with brief [less than one hour] loss of consciousness
S020XXA	80013	Fracture of vault of skull, initial encounter for closed fracture	Closed fracture of vault of skull with cerebral laceration and contusion, with moderate [1-24 hours] loss of consciousness
S06333A	80013	Contusion and laceration of cerebrum, unspecified, with loss of consciousness of 1 hour to 5 hours 59 minutes, initial encounter	Closed fracture of vault of skull with cerebral laceration and contusion, with moderate [1-24 hours] loss of consciousness
S06334A	80013	Contusion and laceration of cerebrum, unspecified, with loss of consciousness of 6 hours to 24 hours, initial encounter	Closed fracture of vault of skull with cerebral laceration and contusion, with moderate [1-24 hours] loss of consciousness
S020XXA	80014	Fracture of vault of skull, initial encounter for closed fracture	Closed fracture of vault of skull with cerebral laceration and contusion, with prolonged [more than 24 hours] loss of consciousness and return to pre-existing conscious level
S06335A	80014	Contusion and laceration of cerebrum, unspecified, with loss of consciousness greater than 24 hours with return to pre-existing conscious level, initial encounter	Closed fracture of vault of skull with cerebral laceration and contusion, with prolonged [more than 24 hours] loss of consciousness and return to pre-existing conscious level
S020XXA	80015	Fracture of vault of skull, initial encounter for closed fracture	Closed fracture of vault of skull with cerebral laceration and contusion, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level

Appendix A

Frailty markers

S06336A	80015	Contusion and laceration of cerebrum, unspecified, with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving, initial encounter	Closed fracture of vault of skull with cerebral laceration and contusion, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level
S06337A	80015	Contusion and laceration of cerebrum, unspecified, with loss of consciousness of any duration with death due to brain injury prior to regaining consciousness, initial encounter	Closed fracture of vault of skull with cerebral laceration and contusion, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level
S06338A	80015	Contusion and laceration of cerebrum, unspecified, with loss of consciousness of any duration with death due to other cause prior to regaining consciousness, initial encounter	Closed fracture of vault of skull with cerebral laceration and contusion, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level
S020XXA	80016	Fracture of vault of skull, initial encounter for closed fracture	Closed fracture of vault of skull with cerebral laceration and contusion, with loss of consciousness of unspecified duration
S06339A	80016	Contusion and laceration of cerebrum, unspecified, with loss of consciousness of unspecified duration, initial encounter	Closed fracture of vault of skull with cerebral laceration and contusion, with loss of consciousness of unspecified duration
S020XXA	80019	Fracture of vault of skull, initial encounter for closed fracture	Closed fracture of vault of skull with cerebral laceration and contusion, with concussion, unspecified
S06330A	80019	Contusion and laceration of cerebrum, unspecified, without loss of consciousness, initial encounter	Closed fracture of vault of skull with cerebral laceration and contusion, with concussion, unspecified
S020XXA	80020	Fracture of vault of skull, initial encounter for closed fracture	Closed fracture of vault of skull with subarachnoid, subdural, and extradural hemorrhage, unspecified state of consciousness
S064X0A	80020	Epidural hemorrhage without loss of consciousness, initial encounter	Closed fracture of vault of skull with subarachnoid, subdural, and extradural hemorrhage, unspecified state of consciousness
S065X0A	80020	Traumatic subdural hemorrhage without loss of consciousness, initial encounter	Closed fracture of vault of skull with subarachnoid, subdural, and extradural hemorrhage, unspecified state of consciousness
S066X0A	80020	Traumatic subarachnoid hemorrhage without loss of consciousness, initial encounter	Closed fracture of vault of skull with subarachnoid, subdural, and extradural hemorrhage, unspecified state of consciousness
S020XXA	80021	Fracture of vault of skull, initial encounter for closed fracture	Closed fracture of vault of skull with subarachnoid, subdural, and extradural hemorrhage, with no loss of consciousness
S064X0A	80021	Epidural hemorrhage without loss of consciousness, initial encounter	Closed fracture of vault of skull with subarachnoid, subdural, and extradural hemorrhage, with no loss of consciousness
S065X0A	80021	Traumatic subdural hemorrhage without loss of consciousness, initial encounter	Closed fracture of vault of skull with subarachnoid, subdural, and extradural hemorrhage, with no loss of consciousness
S066X0A	80021	Traumatic subarachnoid hemorrhage without loss of consciousness, initial encounter	Closed fracture of vault of skull with subarachnoid, subdural, and extradural hemorrhage, with no loss of consciousness
S020XXA	80022	Fracture of vault of skull, initial encounter for closed fracture	Closed fracture of vault of skull with subarachnoid, subdural, and extradural hemorrhage, with brief [less than one hour] loss of consciousness
S064X1A	80022	Epidural hemorrhage with loss of consciousness of 30 minutes or less, initial encounter	Closed fracture of vault of skull with subarachnoid, subdural, and extradural hemorrhage, with brief [less than one hour] loss of consciousness
S064X2A	80022	Epidural hemorrhage with loss of consciousness of 31 minutes to 59 minutes, initial encounter	Closed fracture of vault of skull with subarachnoid, subdural, and extradural hemorrhage, with brief [less than one hour] loss of consciousness
S065X1A	80022	Traumatic subdural hemorrhage with loss of consciousness of 30 minutes or less, initial encounter	Closed fracture of vault of skull with subarachnoid, subdural, and extradural hemorrhage, with brief [less than one hour] loss of consciousness
S065X2A	80022	Traumatic subdural hemorrhage with loss of consciousness of 31 minutes to 59 minutes, initial encounter	Closed fracture of vault of skull with subarachnoid, subdural, and extradural hemorrhage, with brief [less than one hour] loss of consciousness

Appendix A

Frailty markers

S066X1A	80022	Traumatic subarachnoid hemorrhage with loss of consciousness of 30 minutes or less, initial encounter	Closed fracture of vault of skull with subarachnoid, subdural, and extradural hemorrhage, with brief [less than one hour] loss of consciousness
S066X2A	80022	Traumatic subarachnoid hemorrhage with loss of consciousness of 31 minutes to 59 minutes, initial encounter	Closed fracture of vault of skull with subarachnoid, subdural, and extradural hemorrhage, with brief [less than one hour] loss of consciousness
S020XXA	80023	Fracture of vault of skull, initial encounter for closed fracture	Closed fracture of vault of skull with subarachnoid, subdural, and extradural hemorrhage, with moderate [1-24 hours] loss of consciousness
S064X3A	80023	Epidural hemorrhage with loss of consciousness of 1 hour to 5 hours 59 minutes, initial encounter	Closed fracture of vault of skull with subarachnoid, subdural, and extradural hemorrhage, with moderate [1-24 hours] loss of consciousness
S064X4A	80023	Epidural hemorrhage with loss of consciousness of 6 hours to 24 hours, initial encounter	Closed fracture of vault of skull with subarachnoid, subdural, and extradural hemorrhage, with moderate [1-24 hours] loss of consciousness
S065X3A	80023	Traumatic subdural hemorrhage with loss of consciousness of 1 hour to 5 hours 59 minutes, initial encounter	Closed fracture of vault of skull with subarachnoid, subdural, and extradural hemorrhage, with moderate [1-24 hours] loss of consciousness
S065X4A	80023	Traumatic subdural hemorrhage with loss of consciousness of 6 hours to 24 hours, initial encounter	Closed fracture of vault of skull with subarachnoid, subdural, and extradural hemorrhage, with moderate [1-24 hours] loss of consciousness
S066X3A	80023	Traumatic subarachnoid hemorrhage with loss of consciousness of 1 hour to 5 hours 59 minutes, initial encounter	Closed fracture of vault of skull with subarachnoid, subdural, and extradural hemorrhage, with moderate [1-24 hours] loss of consciousness
S066X4A	80023	Traumatic subarachnoid hemorrhage with loss of consciousness of 6 hours to 24 hours, initial encounter	Closed fracture of vault of skull with subarachnoid, subdural, and extradural hemorrhage, with moderate [1-24 hours] loss of consciousness
S020XXA	80024	Fracture of vault of skull, initial encounter for closed fracture	Closed fracture of vault of skull with subarachnoid, subdural, and extradural hemorrhage, with prolonged [more than 24 hours] loss of consciousness and return to pre-existing conscious level
S064X5A	80024	Epidural hemorrhage with loss of consciousness greater than 24 hours with return to pre-existing conscious level, initial encounter	Closed fracture of vault of skull with subarachnoid, subdural, and extradural hemorrhage, with prolonged [more than 24 hours] loss of consciousness and return to pre-existing conscious level
S065X5A	80024	Traumatic subdural hemorrhage with loss of consciousness greater than 24 hours with return to pre-existing conscious level, initial encounter	Closed fracture of vault of skull with subarachnoid, subdural, and extradural hemorrhage, with prolonged [more than 24 hours] loss of consciousness and return to pre-existing conscious level
S066X5A	80024	Traumatic subarachnoid hemorrhage with loss of consciousness greater than 24 hours with return to pre-existing conscious level, initial encounter	Closed fracture of vault of skull with subarachnoid, subdural, and extradural hemorrhage, with prolonged [more than 24 hours] loss of consciousness and return to pre-existing conscious level
S020XXA	80025	Fracture of vault of skull, initial encounter for closed fracture	Closed fracture of vault of skull with subarachnoid, subdural, and extradural hemorrhage, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level
S064X6A	80025	Epidural hemorrhage with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving, initial encounter	Closed fracture of vault of skull with subarachnoid, subdural, and extradural hemorrhage, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level
S064X7A	80025	Epidural hemorrhage with loss of consciousness of any duration with death due to brain injury prior to regaining consciousness, initial encounter	Closed fracture of vault of skull with subarachnoid, subdural, and extradural hemorrhage, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level
S064X8A	80025	Epidural hemorrhage with loss of consciousness of any duration with death due to other causes prior to regaining consciousness, initial encounter	Closed fracture of vault of skull with subarachnoid, subdural, and extradural hemorrhage, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level

Appendix A

Frailty markers

S065X6A	80025	Traumatic subdural hemorrhage with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving, initial encounter	Closed fracture of vault of skull with subarachnoid, subdural, and extradural hemorrhage, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level
S065X7A	80025	Traumatic subdural hemorrhage with loss of consciousness of any duration with death due to brain injury before regaining consciousness, initial encounter	Closed fracture of vault of skull with subarachnoid, subdural, and extradural hemorrhage, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level
S065X8A	80025	Traumatic subdural hemorrhage with loss of consciousness of any duration with death due to other cause before regaining consciousness, initial encounter	Closed fracture of vault of skull with subarachnoid, subdural, and extradural hemorrhage, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level
S066X6A	80025	Traumatic subarachnoid hemorrhage with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving, initial encounter	Closed fracture of vault of skull with subarachnoid, subdural, and extradural hemorrhage, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level
S066X7A	80025	Traumatic subarachnoid hemorrhage with loss of consciousness of any duration with death due to brain injury prior to regaining consciousness, initial encounter	Closed fracture of vault of skull with subarachnoid, subdural, and extradural hemorrhage, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level
S066X8A	80025	Traumatic subarachnoid hemorrhage with loss of consciousness of any duration with death due to other cause prior to regaining consciousness, initial encounter	Closed fracture of vault of skull with subarachnoid, subdural, and extradural hemorrhage, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level
S020XXA	80026	Fracture of vault of skull, initial encounter for closed fracture	Closed fracture of vault of skull with subarachnoid, subdural, and extradural hemorrhage, with loss of consciousness of unspecified duration
S064X9A	80026	Epidural hemorrhage with loss of consciousness of unspecified duration, initial encounter	Closed fracture of vault of skull with subarachnoid, subdural, and extradural hemorrhage, with loss of consciousness of unspecified duration
S065X9A	80026	Traumatic subdural hemorrhage with loss of consciousness of unspecified duration, initial encounter	Closed fracture of vault of skull with subarachnoid, subdural, and extradural hemorrhage, with loss of consciousness of unspecified duration
S066X9A	80026	Traumatic subarachnoid hemorrhage with loss of consciousness of unspecified duration, initial encounter	Closed fracture of vault of skull with subarachnoid, subdural, and extradural hemorrhage, with loss of consciousness of unspecified duration
S020XXA	80029	Fracture of vault of skull, initial encounter for closed fracture	Closed fracture of vault of skull with subarachnoid, subdural, and extradural hemorrhage, with concussion, unspecified
S064X0A	80029	Epidural hemorrhage without loss of consciousness, initial encounter	Closed fracture of vault of skull with subarachnoid, subdural, and extradural hemorrhage, with concussion, unspecified
S065X0A	80029	Traumatic subdural hemorrhage without loss of consciousness, initial encounter	Closed fracture of vault of skull with subarachnoid, subdural, and extradural hemorrhage, with concussion, unspecified
S066X0A	80029	Traumatic subarachnoid hemorrhage without loss of consciousness, initial encounter	Closed fracture of vault of skull with subarachnoid, subdural, and extradural hemorrhage, with concussion, unspecified
S020XXA	80030	Fracture of vault of skull, initial encounter for closed fracture	Closed fracture of vault of skull with other and unspecified intracranial hemorrhage, unspecified state of consciousness
S06360A	80030	Traumatic hemorrhage of cerebrum, unspecified, without loss of consciousness, initial encounter	Closed fracture of vault of skull with other and unspecified intracranial hemorrhage, unspecified state of consciousness
S020XXA	80031	Fracture of vault of skull, initial encounter for closed fracture	Closed fracture of vault of skull with other and unspecified intracranial hemorrhage, with no loss of consciousness
S06360A	80031	Traumatic hemorrhage of cerebrum, unspecified, without loss of consciousness, initial encounter	Closed fracture of vault of skull with other and unspecified intracranial hemorrhage, with no loss of consciousness
S020XXA	80032	Fracture of vault of skull, initial encounter for closed fracture	Closed fracture of vault of skull with other and unspecified intracranial hemorrhage, with brief [less than one hour] loss of consciousness
S06361A	80032	Traumatic hemorrhage of cerebrum, unspecified, with loss of consciousness of 30 minutes or less, initial encounter	Closed fracture of vault of skull with other and unspecified intracranial hemorrhage, with brief [less than one hour] loss of consciousness

Appendix A

Frailty markers

S06362A	80032	Traumatic hemorrhage of cerebrum, unspecified, with loss of consciousness of 31 minutes to 59 minutes, initial encounter	Closed fracture of vault of skull with other and unspecified intracranial hemorrhage, with brief [less than one hour] loss of consciousness
S020XXA	80033	Fracture of vault of skull, initial encounter for closed fracture	Closed fracture of vault of skull with other and unspecified intracranial hemorrhage, with moderate [1-24 hours] loss of consciousness
S06363A	80033	Traumatic hemorrhage of cerebrum, unspecified, with loss of consciousness of 1 hours to 5 hours 59 minutes, initial encounter	Closed fracture of vault of skull with other and unspecified intracranial hemorrhage, with moderate [1-24 hours] loss of consciousness
S06364A	80033	Traumatic hemorrhage of cerebrum, unspecified, with loss of consciousness of 6 hours to 24 hours, initial encounter	Closed fracture of vault of skull with other and unspecified intracranial hemorrhage, with moderate [1-24 hours] loss of consciousness
S020XXA	80034	Fracture of vault of skull, initial encounter for closed fracture	Closed fracture of vault of skull with other and unspecified intracranial hemorrhage, with prolonged [more than 24 hours] loss of consciousness and return to pre-existing conscious level
S06365A	80034	Traumatic hemorrhage of cerebrum, unspecified, with loss of consciousness greater than 24 hours with return to pre-existing conscious level, initial encounter	Closed fracture of vault of skull with other and unspecified intracranial hemorrhage, with prolonged [more than 24 hours] loss of consciousness and return to pre-existing conscious level
S020XXA	80035	Fracture of vault of skull, initial encounter for closed fracture	Closed fracture of vault of skull with other and unspecified intracranial hemorrhage, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level
S06366A	80035	Traumatic hemorrhage of cerebrum, unspecified, with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving, initial encounter	Closed fracture of vault of skull with other and unspecified intracranial hemorrhage, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level
S06367A	80035	Traumatic hemorrhage of cerebrum, unspecified, with loss of consciousness of any duration with death due to brain injury prior to regaining consciousness, initial encounter	Closed fracture of vault of skull with other and unspecified intracranial hemorrhage, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level
S06368A	80035	Traumatic hemorrhage of cerebrum, unspecified, with loss of consciousness of any duration with death due to other cause prior to regaining consciousness, initial encounter	Closed fracture of vault of skull with other and unspecified intracranial hemorrhage, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level
S020XXA	80036	Fracture of vault of skull, initial encounter for closed fracture	Closed fracture of vault of skull with other and unspecified intracranial hemorrhage, with loss of consciousness of unspecified duration
S06369A	80036	Traumatic hemorrhage of cerebrum, unspecified, with loss of consciousness of unspecified duration, initial encounter	Closed fracture of vault of skull with other and unspecified intracranial hemorrhage, with loss of consciousness of unspecified duration
S020XXA	80039	Fracture of vault of skull, initial encounter for closed fracture	Closed fracture of vault of skull with other and unspecified intracranial hemorrhage, with concussion, unspecified
S06360A	80039	Traumatic hemorrhage of cerebrum, unspecified, without loss of consciousness, initial encounter	Closed fracture of vault of skull with other and unspecified intracranial hemorrhage, with concussion, unspecified
S020XXA	80040	Fracture of vault of skull, initial encounter for closed fracture	Closed fracture of vault of skull with intracranial injury of other and unspecified nature, unspecified state of consciousness
S06890A	80040	Other specified intracranial injury without loss of consciousness, initial encounter	Closed fracture of vault of skull with intracranial injury of other and unspecified nature, unspecified state of consciousness
S069X0A	80040	Unspecified intracranial injury without loss of consciousness, initial encounter	Closed fracture of vault of skull with intracranial injury of other and unspecified nature, unspecified state of consciousness
S020XXA	80041	Fracture of vault of skull, initial encounter for closed fracture	Closed fracture of vault of skull with intracranial injury of other and unspecified nature, with no loss of consciousness
S06890A	80041	Other specified intracranial injury without loss of consciousness, initial encounter	Closed fracture of vault of skull with intracranial injury of other and unspecified nature, with no loss of consciousness
S069X0A	80041	Unspecified intracranial injury without loss of consciousness, initial encounter	Closed fracture of vault of skull with intracranial injury of other and unspecified nature, with no loss of consciousness

Appendix A

Frailty markers

S020XXA	80042	Fracture of vault of skull, initial encounter for closed fracture	Closed fracture of vault of skull with intracranial injury of other and unspecified nature, with brief [less than one hour] loss of consciousness
S06891A	80042	Other specified intracranial injury with loss of consciousness of 30 minutes or less, initial encounter	Closed fracture of vault of skull with intracranial injury of other and unspecified nature, with brief [less than one hour] loss of consciousness
S06892A	80042	Other specified intracranial injury with loss of consciousness of 31 minutes to 59 minutes, initial encounter	Closed fracture of vault of skull with intracranial injury of other and unspecified nature, with brief [less than one hour] loss of consciousness
S069X1A	80042	Unspecified intracranial injury with loss of consciousness of 30 minutes or less, initial encounter	Closed fracture of vault of skull with intracranial injury of other and unspecified nature, with brief [less than one hour] loss of consciousness
S069X2A	80042	Unspecified intracranial injury with loss of consciousness of 31 minutes to 59 minutes, initial encounter	Closed fracture of vault of skull with intracranial injury of other and unspecified nature, with brief [less than one hour] loss of consciousness
S020XXA	80043	Fracture of vault of skull, initial encounter for closed fracture	Closed fracture of vault of skull with intracranial injury of other and unspecified nature, with moderate [1-24 hours] loss of consciousness
S06893A	80043	Other specified intracranial injury with loss of consciousness of 1 hour to 5 hours 59 minutes, initial encounter	Closed fracture of vault of skull with intracranial injury of other and unspecified nature, with moderate [1-24 hours] loss of consciousness
S06894A	80043	Other specified intracranial injury with loss of consciousness of 6 hours to 24 hours, initial encounter	Closed fracture of vault of skull with intracranial injury of other and unspecified nature, with moderate [1-24 hours] loss of consciousness
S069X3A	80043	Unspecified intracranial injury with loss of consciousness of 1 hour to 5 hours 59 minutes, initial encounter	Closed fracture of vault of skull with intracranial injury of other and unspecified nature, with moderate [1-24 hours] loss of consciousness
S069X4A	80043	Unspecified intracranial injury with loss of consciousness of 6 hours to 24 hours, initial encounter	Closed fracture of vault of skull with intracranial injury of other and unspecified nature, with moderate [1-24 hours] loss of consciousness
S020XXA	80044	Fracture of vault of skull, initial encounter for closed fracture	Closed fracture of vault of skull with intracranial injury of other and unspecified nature, with prolonged [more than 24 hours] loss of consciousness and return to pre-existing conscious level
S06895A	80044	Other specified intracranial injury with loss of consciousness greater than 24 hours with return to pre-existing conscious level, initial encounter	Closed fracture of vault of skull with intracranial injury of other and unspecified nature, with prolonged [more than 24 hours] loss of consciousness and return to pre-existing conscious level
S069X5A	80044	Unspecified intracranial injury with loss of consciousness greater than 24 hours with return to pre-existing conscious level, initial encounter	Closed fracture of vault of skull with intracranial injury of other and unspecified nature, with prolonged [more than 24 hours] loss of consciousness and return to pre-existing conscious level
S020XXA	80045	Fracture of vault of skull, initial encounter for closed fracture	Closed fracture of vault of skull with intracranial injury of other and unspecified nature, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level
S06896A	80045	Other specified intracranial injury with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving, initial encounter	Closed fracture of vault of skull with intracranial injury of other and unspecified nature, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level
S06897A	80045	Other specified intracranial injury with loss of consciousness of any duration with death due to brain injury prior to regaining consciousness, initial encounter	Closed fracture of vault of skull with intracranial injury of other and unspecified nature, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level
S06898A	80045	Other specified intracranial injury with loss of consciousness of any duration with death due to other cause prior to regaining consciousness, initial encounter	Closed fracture of vault of skull with intracranial injury of other and unspecified nature, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level
S069X6A	80045	Unspecified intracranial injury with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving, initial encounter	Closed fracture of vault of skull with intracranial injury of other and unspecified nature, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level

Appendix A

Frailty markers

S069X7A	80045	Unspecified intracranial injury with loss of consciousness of any duration with death due to brain injury prior to regaining consciousness, initial encounter	Closed fracture of vault of skull with intracranial injury of other and unspecified nature, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level
S069X8A	80045	Unspecified intracranial injury with loss of consciousness of any duration with death due to other cause prior to regaining consciousness, initial encounter	Closed fracture of vault of skull with intracranial injury of other and unspecified nature, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level
S020XXA	80046	Fracture of vault of skull, initial encounter for closed fracture	Closed fracture of vault of skull with intracranial injury of other and unspecified nature, with loss of consciousness of unspecified duration
S06899A	80046	Other specified intracranial injury with loss of consciousness of unspecified duration, initial encounter	Closed fracture of vault of skull with intracranial injury of other and unspecified nature, with loss of consciousness of unspecified duration
S069X9A	80046	Unspecified intracranial injury with loss of consciousness of unspecified duration, initial encounter	Closed fracture of vault of skull with intracranial injury of other and unspecified nature, with loss of consciousness of unspecified duration
S020XXA	80049	Fracture of vault of skull, initial encounter for closed fracture	Closed fracture of vault of skull with intracranial injury of other and unspecified nature, with concussion, unspecified
S06890A	80049	Other specified intracranial injury without loss of consciousness, initial encounter	Closed fracture of vault of skull with intracranial injury of other and unspecified nature, with concussion, unspecified
S069X0A	80049	Unspecified intracranial injury without loss of consciousness, initial encounter	Closed fracture of vault of skull with intracranial injury of other and unspecified nature, with concussion, unspecified
S020XXB	80051	Fracture of vault of skull, initial encounter for open fracture	Open fracture of vault of skull without mention of intracranial injury, with no loss of consciousness
S020XXB	80052	Fracture of vault of skull, initial encounter for open fracture	Open fracture of vault of skull without mention of intracranial injury, with brief [less than one hour] loss of consciousness
S020XXB	80053	Fracture of vault of skull, initial encounter for open fracture	Open fracture of vault of skull without mention of intracranial injury, with moderate [1-24 hours] loss of consciousness
S020XXB	80054	Fracture of vault of skull, initial encounter for open fracture	Open fracture of vault of skull without mention of intracranial injury, with prolonged [more than 24 hours] loss of consciousness and return to pre-existing conscious level
S020XXB	80055	Fracture of vault of skull, initial encounter for open fracture	Open fracture of vault of skull without mention of intracranial injury, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level
S020XXB	80056	Fracture of vault of skull, initial encounter for open fracture	Open fracture of vault of skull without mention of intracranial injury, with loss of consciousness of unspecified duration
S020XXB	80059	Fracture of vault of skull, initial encounter for open fracture	Open fracture of vault of skull without mention of intracranial injury, with concussion, unspecified
S020XXB	80060	Fracture of vault of skull, initial encounter for open fracture	Open fracture of vault of skull with cerebral laceration and contusion, unspecified state of consciousness
S06330A	80060	Contusion and laceration of cerebrum, unspecified, without loss of consciousness, initial encounter	Open fracture of vault of skull with cerebral laceration and contusion, unspecified state of consciousness
S020XXB	80061	Fracture of vault of skull, initial encounter for open fracture	Open fracture of vault of skull with cerebral laceration and contusion, with no loss of consciousness
S06330A	80061	Contusion and laceration of cerebrum, unspecified, without loss of consciousness, initial encounter	Open fracture of vault of skull with cerebral laceration and contusion, with no loss of consciousness
S020XXB	80062	Fracture of vault of skull, initial encounter for open fracture	Open fracture of vault of skull with cerebral laceration and contusion, with brief [less than one hour] loss of consciousness
S06331A	80062	Contusion and laceration of cerebrum, unspecified, with loss of consciousness of 30 minutes or less, initial encounter	Open fracture of vault of skull with cerebral laceration and contusion, with brief [less than one hour] loss of consciousness
S06332A	80062	Contusion and laceration of cerebrum, unspecified, with loss of consciousness of 31 minutes to 59 minutes, initial encounter	Open fracture of vault of skull with cerebral laceration and contusion, with brief [less than one hour] loss of consciousness

Appendix A

Frailty markers

S020XXB	80063	Fracture of vault of skull, initial encounter for open fracture	Open fracture of vault of skull with cerebral laceration and contusion, with moderate [1-24 hours] loss of consciousness
S06333A	80063	Contusion and laceration of cerebrum, unspecified, with loss of consciousness of 1 hour to 5 hours 59 minutes, initial encounter	Open fracture of vault of skull with cerebral laceration and contusion, with moderate [1-24 hours] loss of consciousness
S06334A	80063	Contusion and laceration of cerebrum, unspecified, with loss of consciousness of 6 hours to 24 hours, initial encounter	Open fracture of vault of skull with cerebral laceration and contusion, with moderate [1-24 hours] loss of consciousness
S020XXB	80064	Fracture of vault of skull, initial encounter for open fracture	Open fracture of vault of skull with cerebral laceration and contusion, with prolonged [more than 24 hours] loss of consciousness and return to pre-existing conscious level
S06335A	80064	Contusion and laceration of cerebrum, unspecified, with loss of consciousness greater than 24 hours with return to pre-existing conscious level, initial encounter	Open fracture of vault of skull with cerebral laceration and contusion, with prolonged [more than 24 hours] loss of consciousness and return to pre-existing conscious level
S020XXB	80065	Fracture of vault of skull, initial encounter for open fracture	Open fracture of vault of skull with cerebral laceration and contusion, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level
S06336A	80065	Contusion and laceration of cerebrum, unspecified, with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving, initial encounter	Open fracture of vault of skull with cerebral laceration and contusion, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level
S06337A	80065	Contusion and laceration of cerebrum, unspecified, with loss of consciousness of any duration with death due to brain injury prior to regaining consciousness, initial encounter	Open fracture of vault of skull with cerebral laceration and contusion, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level
S06338A	80065	Contusion and laceration of cerebrum, unspecified, with loss of consciousness of any duration with death due to other cause prior to regaining consciousness, initial encounter	Open fracture of vault of skull with cerebral laceration and contusion, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level
S020XXB	80066	Fracture of vault of skull, initial encounter for open fracture	Open fracture of vault of skull with cerebral laceration and contusion, with loss of consciousness of unspecified duration
S06339A	80066	Contusion and laceration of cerebrum, unspecified, with loss of consciousness of unspecified duration, initial encounter	Open fracture of vault of skull with cerebral laceration and contusion, with loss of consciousness of unspecified duration
S020XXB	80069	Fracture of vault of skull, initial encounter for open fracture	Open fracture of vault of skull with cerebral laceration and contusion, with concussion, unspecified
S06330A	80069	Contusion and laceration of cerebrum, unspecified, without loss of consciousness, initial encounter	Open fracture of vault of skull with cerebral laceration and contusion, with concussion, unspecified
S020XXB	80070	Fracture of vault of skull, initial encounter for open fracture	Open fracture of vault of skull with subarachnoid, subdural, and extradural hemorrhage, unspecified state of consciousness
S064X0A	80070	Epidural hemorrhage without loss of consciousness, initial encounter	Open fracture of vault of skull with subarachnoid, subdural, and extradural hemorrhage, unspecified state of consciousness
S065X0A	80070	Traumatic subdural hemorrhage without loss of consciousness, initial encounter	Open fracture of vault of skull with subarachnoid, subdural, and extradural hemorrhage, unspecified state of consciousness
S066X0A	80070	Traumatic subarachnoid hemorrhage without loss of consciousness, initial encounter	Open fracture of vault of skull with subarachnoid, subdural, and extradural hemorrhage, unspecified state of consciousness
S020XXB	80071	Fracture of vault of skull, initial encounter for open fracture	Open fracture of vault of skull with subarachnoid, subdural, and extradural hemorrhage, with no loss of consciousness
S064X0A	80071	Epidural hemorrhage without loss of consciousness, initial encounter	Open fracture of vault of skull with subarachnoid, subdural, and extradural hemorrhage, with no loss of consciousness
S065X0A	80071	Traumatic subdural hemorrhage without loss of consciousness, initial encounter	Open fracture of vault of skull with subarachnoid, subdural, and extradural hemorrhage, with no loss of consciousness
S066X0A	80071	Traumatic subarachnoid hemorrhage without loss of consciousness, initial encounter	Open fracture of vault of skull with subarachnoid, subdural, and extradural hemorrhage, with no loss of consciousness
S020XXB	80072	Fracture of vault of skull, initial encounter for open fracture	Open fracture of vault of skull with subarachnoid, subdural, and extradural hemorrhage, with brief [less than one hour] loss of consciousness

Appendix A

Frailty markers

S064X1A	80072	Epidural hemorrhage with loss of consciousness of 30 minutes or less, initial encounter	Open fracture of vault of skull with subarachnoid, subdural, and extradural hemorrhage, with brief [less than one hour] loss of consciousness
S064X2A	80072	Epidural hemorrhage with loss of consciousness of 31 minutes to 59 minutes, initial encounter	Open fracture of vault of skull with subarachnoid, subdural, and extradural hemorrhage, with brief [less than one hour] loss of consciousness
S065X1A	80072	Traumatic subdural hemorrhage with loss of consciousness of 30 minutes or less, initial encounter	Open fracture of vault of skull with subarachnoid, subdural, and extradural hemorrhage, with brief [less than one hour] loss of consciousness
S065X2A	80072	Traumatic subdural hemorrhage with loss of consciousness of 31 minutes to 59 minutes, initial encounter	Open fracture of vault of skull with subarachnoid, subdural, and extradural hemorrhage, with brief [less than one hour] loss of consciousness
S066X1A	80072	Traumatic subarachnoid hemorrhage with loss of consciousness of 30 minutes or less, initial encounter	Open fracture of vault of skull with subarachnoid, subdural, and extradural hemorrhage, with brief [less than one hour] loss of consciousness
S066X2A	80072	Traumatic subarachnoid hemorrhage with loss of consciousness of 31 minutes to 59 minutes, initial encounter	Open fracture of vault of skull with subarachnoid, subdural, and extradural hemorrhage, with brief [less than one hour] loss of consciousness
S020XXB	80073	Fracture of vault of skull, initial encounter for open fracture	Open fracture of vault of skull with subarachnoid, subdural, and extradural hemorrhage, with moderate [1-24 hours] loss of consciousness
S064X3A	80073	Epidural hemorrhage with loss of consciousness of 1 hour to 5 hours 59 minutes, initial encounter	Open fracture of vault of skull with subarachnoid, subdural, and extradural hemorrhage, with moderate [1-24 hours] loss of consciousness
S064X4A	80073	Epidural hemorrhage with loss of consciousness of 6 hours to 24 hours, initial encounter	Open fracture of vault of skull with subarachnoid, subdural, and extradural hemorrhage, with moderate [1-24 hours] loss of consciousness
S065X3A	80073	Traumatic subdural hemorrhage with loss of consciousness of 1 hour to 5 hours 59 minutes, initial encounter	Open fracture of vault of skull with subarachnoid, subdural, and extradural hemorrhage, with moderate [1-24 hours] loss of consciousness
S065X4A	80073	Traumatic subdural hemorrhage with loss of consciousness of 6 hours to 24 hours, initial encounter	Open fracture of vault of skull with subarachnoid, subdural, and extradural hemorrhage, with moderate [1-24 hours] loss of consciousness
S066X3A	80073	Traumatic subarachnoid hemorrhage with loss of consciousness of 1 hour to 5 hours 59 minutes, initial encounter	Open fracture of vault of skull with subarachnoid, subdural, and extradural hemorrhage, with moderate [1-24 hours] loss of consciousness
S066X4A	80073	Traumatic subarachnoid hemorrhage with loss of consciousness of 6 hours to 24 hours, initial encounter	Open fracture of vault of skull with subarachnoid, subdural, and extradural hemorrhage, with moderate [1-24 hours] loss of consciousness
S020XXB	80074	Fracture of vault of skull, initial encounter for open fracture	Open fracture of vault of skull with subarachnoid, subdural, and extradural hemorrhage, with prolonged [more than 24 hours] loss of consciousness and return to pre-existing conscious level
S064X5A	80074	Epidural hemorrhage with loss of consciousness greater than 24 hours with return to pre-existing conscious level, initial encounter	Open fracture of vault of skull with subarachnoid, subdural, and extradural hemorrhage, with prolonged [more than 24 hours] loss of consciousness and return to pre-existing conscious level
S065X5A	80074	Traumatic subdural hemorrhage with loss of consciousness greater than 24 hours with return to pre-existing conscious level, initial encounter	Open fracture of vault of skull with subarachnoid, subdural, and extradural hemorrhage, with prolonged [more than 24 hours] loss of consciousness and return to pre-existing conscious level
S066X5A	80074	Traumatic subarachnoid hemorrhage with loss of consciousness greater than 24 hours with return to pre-existing conscious level, initial encounter	Open fracture of vault of skull with subarachnoid, subdural, and extradural hemorrhage, with prolonged [more than 24 hours] loss of consciousness and return to pre-existing conscious level
S020XXB	80075	Fracture of vault of skull, initial encounter for open fracture	Open fracture of vault of skull with subarachnoid, subdural, and extradural hemorrhage, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level

Appendix A

Frailty markers

S064X6A	80075	Epidural hemorrhage with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving, initial encounter	Open fracture of vault of skull with subarachnoid, subdural, and extradural hemorrhage, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level
S064X7A	80075	Epidural hemorrhage with loss of consciousness of any duration with death due to brain injury prior to regaining consciousness, initial encounter	Open fracture of vault of skull with subarachnoid, subdural, and extradural hemorrhage, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level
S064X8A	80075	Epidural hemorrhage with loss of consciousness of any duration with death due to other causes prior to regaining consciousness, initial encounter	Open fracture of vault of skull with subarachnoid, subdural, and extradural hemorrhage, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level
S065X6A	80075	Traumatic subdural hemorrhage with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving, initial encounter	Open fracture of vault of skull with subarachnoid, subdural, and extradural hemorrhage, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level
S065X7A	80075	Traumatic subdural hemorrhage with loss of consciousness of any duration with death due to brain injury before regaining consciousness, initial encounter	Open fracture of vault of skull with subarachnoid, subdural, and extradural hemorrhage, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level
S065X8A	80075	Traumatic subdural hemorrhage with loss of consciousness of any duration with death due to other cause before regaining consciousness, initial encounter	Open fracture of vault of skull with subarachnoid, subdural, and extradural hemorrhage, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level
S066X6A	80075	Traumatic subarachnoid hemorrhage with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving, initial encounter	Open fracture of vault of skull with subarachnoid, subdural, and extradural hemorrhage, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level
S066X7A	80075	Traumatic subarachnoid hemorrhage with loss of consciousness of any duration with death due to brain injury prior to regaining consciousness, initial encounter	Open fracture of vault of skull with subarachnoid, subdural, and extradural hemorrhage, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level
S066X8A	80075	Traumatic subarachnoid hemorrhage with loss of consciousness of any duration with death due to other cause prior to regaining consciousness, initial encounter	Open fracture of vault of skull with subarachnoid, subdural, and extradural hemorrhage, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level
S020XXB	80076	Fracture of vault of skull, initial encounter for open fracture	Open fracture of vault of skull with subarachnoid, subdural, and extradural hemorrhage, with loss of consciousness of unspecified duration
S064X9A	80076	Epidural hemorrhage with loss of consciousness of unspecified duration, initial encounter	Open fracture of vault of skull with subarachnoid, subdural, and extradural hemorrhage, with loss of consciousness of unspecified duration
S065X9A	80076	Traumatic subdural hemorrhage with loss of consciousness of unspecified duration, initial encounter	Open fracture of vault of skull with subarachnoid, subdural, and extradural hemorrhage, with loss of consciousness of unspecified duration
S066X9A	80076	Traumatic subarachnoid hemorrhage with loss of consciousness of unspecified duration, initial encounter	Open fracture of vault of skull with subarachnoid, subdural, and extradural hemorrhage, with loss of consciousness of unspecified duration
S020XXB	80079	Fracture of vault of skull, initial encounter for open fracture	Open fracture of vault of skull with subarachnoid, subdural, and extradural hemorrhage, with concussion, unspecified
S064X0A	80079	Epidural hemorrhage without loss of consciousness, initial encounter	Open fracture of vault of skull with subarachnoid, subdural, and extradural hemorrhage, with concussion, unspecified
S065X0A	80079	Traumatic subdural hemorrhage without loss of consciousness, initial encounter	Open fracture of vault of skull with subarachnoid, subdural, and extradural hemorrhage, with concussion, unspecified
S066X0A	80079	Traumatic subarachnoid hemorrhage without loss of consciousness, initial encounter	Open fracture of vault of skull with subarachnoid, subdural, and extradural hemorrhage, with concussion, unspecified
S020XXB	80080	Fracture of vault of skull, initial encounter for open fracture	Open fracture of vault of skull with other and unspecified intracranial hemorrhage, unspecified state of consciousness
S06360A	80080	Traumatic hemorrhage of cerebrum, unspecified, without loss of consciousness, initial encounter	Open fracture of vault of skull with other and unspecified intracranial hemorrhage, unspecified state of consciousness
S020XXB	80081	Fracture of vault of skull, initial encounter for open fracture	Open fracture of vault of skull with other and unspecified intracranial hemorrhage, with no loss of consciousness

Appendix A

Frailty markers

S06360A	80081	Traumatic hemorrhage of cerebrum, unspecified, without loss of consciousness, initial encounter	Open fracture of vault of skull with other and unspecified intracranial hemorrhage, with no loss of consciousness
S020XXB	80082	Fracture of vault of skull, initial encounter for open fracture	Open fracture of vault of skull with other and unspecified intracranial hemorrhage, with brief [less than one hour] loss of consciousness
S06361A	80082	Traumatic hemorrhage of cerebrum, unspecified, with loss of consciousness of 30 minutes or less, initial encounter	Open fracture of vault of skull with other and unspecified intracranial hemorrhage, with brief [less than one hour] loss of consciousness
S06362A	80082	Traumatic hemorrhage of cerebrum, unspecified, with loss of consciousness of 31 minutes to 59 minutes, initial encounter	Open fracture of vault of skull with other and unspecified intracranial hemorrhage, with brief [less than one hour] loss of consciousness
S020XXB	80083	Fracture of vault of skull, initial encounter for open fracture	Open fracture of vault of skull with other and unspecified intracranial hemorrhage, with moderate [1-24 hours] loss of consciousness
S06363A	80083	Traumatic hemorrhage of cerebrum, unspecified, with loss of consciousness of 1 hours to 5 hours 59 minutes, initial encounter	Open fracture of vault of skull with other and unspecified intracranial hemorrhage, with moderate [1-24 hours] loss of consciousness
S06364A	80083	Traumatic hemorrhage of cerebrum, unspecified, with loss of consciousness of 6 hours to 24 hours, initial encounter	Open fracture of vault of skull with other and unspecified intracranial hemorrhage, with moderate [1-24 hours] loss of consciousness
S020XXB	80084	Fracture of vault of skull, initial encounter for open fracture	Open fracture of vault of skull with other and unspecified intracranial hemorrhage, with prolonged [more than 24 hours] loss of consciousness and return to pre-existing conscious level
S06365A	80084	Traumatic hemorrhage of cerebrum, unspecified, with loss of consciousness greater than 24 hours with return to pre-existing conscious level, initial encounter	Open fracture of vault of skull with other and unspecified intracranial hemorrhage, with prolonged [more than 24 hours] loss of consciousness and return to pre-existing conscious level
S020XXB	80085	Fracture of vault of skull, initial encounter for open fracture	Open fracture of vault of skull with other and unspecified intracranial hemorrhage, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level
S06366A	80085	Traumatic hemorrhage of cerebrum, unspecified, with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving, initial encounter	Open fracture of vault of skull with other and unspecified intracranial hemorrhage, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level
S06367A	80085	Traumatic hemorrhage of cerebrum, unspecified, with loss of consciousness of any duration with death due to brain injury prior to regaining consciousness, initial encounter	Open fracture of vault of skull with other and unspecified intracranial hemorrhage, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level
S06368A	80085	Traumatic hemorrhage of cerebrum, unspecified, with loss of consciousness of any duration with death due to other cause prior to regaining consciousness, initial encounter	Open fracture of vault of skull with other and unspecified intracranial hemorrhage, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level
S020XXB	80086	Fracture of vault of skull, initial encounter for open fracture	Open fracture of vault of skull with other and unspecified intracranial hemorrhage, with loss of consciousness of unspecified duration
S06369A	80086	Traumatic hemorrhage of cerebrum, unspecified, with loss of consciousness of unspecified duration, initial encounter	Open fracture of vault of skull with other and unspecified intracranial hemorrhage, with loss of consciousness of unspecified duration
S020XXB	80089	Fracture of vault of skull, initial encounter for open fracture	Open fracture of vault of skull with other and unspecified intracranial hemorrhage, with concussion, unspecified
S06360A	80089	Traumatic hemorrhage of cerebrum, unspecified, without loss of consciousness, initial encounter	Open fracture of vault of skull with other and unspecified intracranial hemorrhage, with concussion, unspecified
S020XXB	80090	Fracture of vault of skull, initial encounter for open fracture	Open fracture of vault of skull with intracranial injury of other and unspecified nature, unspecified state of consciousness
S06890A	80090	Other specified intracranial injury without loss of consciousness, initial encounter	Open fracture of vault of skull with intracranial injury of other and unspecified nature, unspecified state of consciousness

Appendix A

Frailty markers

S069X0A	80090	Unspecified intracranial injury without loss of consciousness, initial encounter	Open fracture of vault of skull with intracranial injury of other and unspecified nature, unspecified state of consciousness
S020XXB	80091	Fracture of vault of skull, initial encounter for open fracture	Open fracture of vault of skull with intracranial injury of other and unspecified nature, with no loss of consciousness
S06890A	80091	Other specified intracranial injury without loss of consciousness, initial encounter	Open fracture of vault of skull with intracranial injury of other and unspecified nature, with no loss of consciousness
S069X0A	80091	Unspecified intracranial injury without loss of consciousness, initial encounter	Open fracture of vault of skull with intracranial injury of other and unspecified nature, with no loss of consciousness
S020XXB	80092	Fracture of vault of skull, initial encounter for open fracture	Open fracture of vault of skull with intracranial injury of other and unspecified nature, with brief [less than one hour] loss of consciousness
S06891A	80092	Other specified intracranial injury with loss of consciousness of 30 minutes or less, initial encounter	Open fracture of vault of skull with intracranial injury of other and unspecified nature, with brief [less than one hour] loss of consciousness
S06892A	80092	Other specified intracranial injury with loss of consciousness of 31 minutes to 59 minutes, initial encounter	Open fracture of vault of skull with intracranial injury of other and unspecified nature, with brief [less than one hour] loss of consciousness
S069X1A	80092	Unspecified intracranial injury with loss of consciousness of 30 minutes or less, initial encounter	Open fracture of vault of skull with intracranial injury of other and unspecified nature, with brief [less than one hour] loss of consciousness
S069X2A	80092	Unspecified intracranial injury with loss of consciousness of 31 minutes to 59 minutes, initial encounter	Open fracture of vault of skull with intracranial injury of other and unspecified nature, with brief [less than one hour] loss of consciousness
S020XXB	80093	Fracture of vault of skull, initial encounter for open fracture	Open fracture of vault of skull with intracranial injury of other and unspecified nature, with moderate [1-24 hours] loss of consciousness
S06893A	80093	Other specified intracranial injury with loss of consciousness of 1 hour to 5 hours 59 minutes, initial encounter	Open fracture of vault of skull with intracranial injury of other and unspecified nature, with moderate [1-24 hours] loss of consciousness
S06894A	80093	Other specified intracranial injury with loss of consciousness of 6 hours to 24 hours, initial encounter	Open fracture of vault of skull with intracranial injury of other and unspecified nature, with moderate [1-24 hours] loss of consciousness
S069X3A	80093	Unspecified intracranial injury with loss of consciousness of 1 hour to 5 hours 59 minutes, initial encounter	Open fracture of vault of skull with intracranial injury of other and unspecified nature, with moderate [1-24 hours] loss of consciousness
S069X4A	80093	Unspecified intracranial injury with loss of consciousness of 6 hours to 24 hours, initial encounter	Open fracture of vault of skull with intracranial injury of other and unspecified nature, with moderate [1-24 hours] loss of consciousness
S020XXB	80094	Fracture of vault of skull, initial encounter for open fracture	Open fracture of vault of skull with intracranial injury of other and unspecified nature, with prolonged [more than 24 hours] loss of consciousness and return to pre-existing conscious level
S06895A	80094	Other specified intracranial injury with loss of consciousness greater than 24 hours with return to pre-existing conscious level, initial encounter	Open fracture of vault of skull with intracranial injury of other and unspecified nature, with prolonged [more than 24 hours] loss of consciousness and return to pre-existing conscious level
S069X5A	80094	Unspecified intracranial injury with loss of consciousness greater than 24 hours with return to pre-existing conscious level, initial encounter	Open fracture of vault of skull with intracranial injury of other and unspecified nature, with prolonged [more than 24 hours] loss of consciousness and return to pre-existing conscious level
S020XXB	80095	Fracture of vault of skull, initial encounter for open fracture	Open fracture of vault of skull with intracranial injury of other and unspecified nature, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level
S06896A	80095	Other specified intracranial injury with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving, initial encounter	Open fracture of vault of skull with intracranial injury of other and unspecified nature, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level

Appendix A

Frailty markers

S06897A	80095	Other specified intracranial injury with loss of consciousness of any duration with death due to brain injury prior to regaining consciousness, initial encounter	Open fracture of vault of skull with intracranial injury of other and unspecified nature, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level
S06898A	80095	Other specified intracranial injury with loss of consciousness of any duration with death due to other cause prior to regaining consciousness, initial encounter	Open fracture of vault of skull with intracranial injury of other and unspecified nature, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level
S069X6A	80095	Unspecified intracranial injury with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving, initial encounter	Open fracture of vault of skull with intracranial injury of other and unspecified nature, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level
S069X7A	80095	Unspecified intracranial injury with loss of consciousness of any duration with death due to brain injury prior to regaining consciousness, initial encounter	Open fracture of vault of skull with intracranial injury of other and unspecified nature, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level
S069X8A	80095	Unspecified intracranial injury with loss of consciousness of any duration with death due to other cause prior to regaining consciousness, initial encounter	Open fracture of vault of skull with intracranial injury of other and unspecified nature, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level
S020XXB	80096	Fracture of vault of skull, initial encounter for open fracture	Open fracture of vault of skull with intracranial injury of other and unspecified nature, with loss of consciousness of unspecified duration
S06899A	80096	Other specified intracranial injury with loss of consciousness of unspecified duration, initial encounter	Open fracture of vault of skull with intracranial injury of other and unspecified nature, with loss of consciousness of unspecified duration
S069X9A	80096	Unspecified intracranial injury with loss of consciousness of unspecified duration, initial encounter	Open fracture of vault of skull with intracranial injury of other and unspecified nature, with loss of consciousness of unspecified duration
S020XXB	80099	Fracture of vault of skull, initial encounter for open fracture	Open fracture of vault of skull with intracranial injury of other and unspecified nature, with concussion, unspecified
S06890A	80099	Other specified intracranial injury without loss of consciousness, initial encounter	Open fracture of vault of skull with intracranial injury of other and unspecified nature, with concussion, unspecified
S069X0A	80099	Unspecified intracranial injury without loss of consciousness, initial encounter	Open fracture of vault of skull with intracranial injury of other and unspecified nature, with concussion, unspecified
S02110A	80100	Type I occipital condyle fracture, unspecified side, initial encounter for closed fracture	Closed fracture of base of skull without mention of intracranial injury, unspecified state of consciousness
S02111A	80100	Type II occipital condyle fracture, unspecified side, initial encounter for closed fracture	Closed fracture of base of skull without mention of intracranial injury, unspecified state of consciousness
S02112A	80100	Type III occipital condyle fracture, unspecified side, initial encounter for closed fracture	Closed fracture of base of skull without mention of intracranial injury, unspecified state of consciousness
S02113A	80100	Unspecified occipital condyle fracture, initial encounter for closed fracture	Closed fracture of base of skull without mention of intracranial injury, unspecified state of consciousness
S02118A	80100	Other fracture of occiput, unspecified side, initial encounter for closed fracture	Closed fracture of base of skull without mention of intracranial injury, unspecified state of consciousness
S02119A	80100	Unspecified fracture of occiput, initial encounter for closed fracture	Closed fracture of base of skull without mention of intracranial injury, unspecified state of consciousness
S0211AA	80100	Type I occipital condyle fracture, right side, initial encounter for closed fracture	Closed fracture of base of skull without mention of intracranial injury, unspecified state of consciousness
S0211BA	80100	Type I occipital condyle fracture, left side, initial encounter for closed fracture	Closed fracture of base of skull without mention of intracranial injury, unspecified state of consciousness
S0211CA	80100	Type II occipital condyle fracture, right side, initial encounter for closed fracture	Closed fracture of base of skull without mention of intracranial injury, unspecified state of consciousness
S0211DA	80100	Type II occipital condyle fracture, left side, initial encounter for closed fracture	Closed fracture of base of skull without mention of intracranial injury, unspecified state of consciousness
S0211EA	80100	Type III occipital condyle fracture, right side, initial encounter for closed fracture	Closed fracture of base of skull without mention of intracranial injury, unspecified state of consciousness
S0211FA	80100	Type III occipital condyle fracture, left side, initial encounter for closed fracture	Closed fracture of base of skull without mention of intracranial injury, unspecified state of consciousness
S0211GA	80100	Other fracture of occiput, right side, initial encounter for closed fracture	Closed fracture of base of skull without mention of intracranial injury, unspecified state of consciousness

Appendix A

Frailty markers

S0211HA	80100	Other fracture of occiput, left side, initial encounter for closed fracture	Closed fracture of base of skull without mention of intra cranial injury, unspecified state of consciousness
S0219XA	80100	Other fracture of base of skull, initial encounter for closed fracture	Closed fracture of base of skull without mention of intra cranial injury, unspecified state of consciousness
S02101A	80101	Fracture of base of skull, right side, initial encounter for closed fracture	Closed fracture of base of skull without mention of intra cranial injury, with no loss of consciousness
S02102A	80101	Fracture of base of skull, left side, initial encounter for closed fracture	Closed fracture of base of skull without mention of intra cranial injury, with no loss of consciousness
S02109A	80101	Fracture of base of skull, unspecified side, initial encounter for closed fracture	Closed fracture of base of skull without mention of intra cranial injury, with no loss of consciousness
S02101A	80102	Fracture of base of skull, right side, initial encounter for closed fracture	Closed fracture of base of skull without mention of intra cranial injury, with brief [less than one hour] loss of consciousness
S02102A	80102	Fracture of base of skull, left side, initial encounter for closed fracture	Closed fracture of base of skull without mention of intra cranial injury, with brief [less than one hour] loss of consciousness
S02109A	80102	Fracture of base of skull, unspecified side, initial encounter for closed fracture	Closed fracture of base of skull without mention of intra cranial injury, with brief [less than one hour] loss of consciousness
S02101A	80103	Fracture of base of skull, right side, initial encounter for closed fracture	Closed fracture of base of skull without mention of intra cranial injury, with moderate [1-24 hours] loss of consciousness
S02102A	80103	Fracture of base of skull, left side, initial encounter for closed fracture	Closed fracture of base of skull without mention of intra cranial injury, with moderate [1-24 hours] loss of consciousness
S02109A	80103	Fracture of base of skull, unspecified side, initial encounter for closed fracture	Closed fracture of base of skull without mention of intra cranial injury, with moderate [1-24 hours] loss of consciousness
S02101A	80104	Fracture of base of skull, right side, initial encounter for closed fracture	Closed fracture of base of skull without mention of intra cranial injury, with prolonged [more than 24 hours] loss of consciousness and return to pre-existing conscious level
S02102A	80104	Fracture of base of skull, left side, initial encounter for closed fracture	Closed fracture of base of skull without mention of intra cranial injury, with prolonged [more than 24 hours] loss of consciousness and return to pre-existing conscious level
S02109A	80104	Fracture of base of skull, unspecified side, initial encounter for closed fracture	Closed fracture of base of skull without mention of intra cranial injury, with prolonged [more than 24 hours] loss of consciousness and return to pre-existing conscious level
S02101A	80105	Fracture of base of skull, right side, initial encounter for closed fracture	Closed fracture of base of skull without mention of intra cranial injury, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level
S02102A	80105	Fracture of base of skull, left side, initial encounter for closed fracture	Closed fracture of base of skull without mention of intra cranial injury, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level
S02109A	80105	Fracture of base of skull, unspecified side, initial encounter for closed fracture	Closed fracture of base of skull without mention of intra cranial injury, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level
S02101A	80106	Fracture of base of skull, right side, initial encounter for closed fracture	Closed fracture of base of skull without mention of intra cranial injury, with loss of consciousness of unspecified duration
S02102A	80106	Fracture of base of skull, left side, initial encounter for closed fracture	Closed fracture of base of skull without mention of intra cranial injury, with loss of consciousness of unspecified duration
S02109A	80106	Fracture of base of skull, unspecified side, initial encounter for closed fracture	Closed fracture of base of skull without mention of intra cranial injury, with loss of consciousness of unspecified duration
S02101A	80109	Fracture of base of skull, right side, initial encounter for closed fracture	Closed fracture of base of skull without mention of intra cranial injury, with concussion, unspecified
S02102A	80109	Fracture of base of skull, left side, initial encounter for closed fracture	Closed fracture of base of skull without mention of intra cranial injury, with concussion, unspecified

Appendix A

Frailty markers

S02109A	80109	Fracture of base of skull, unspecified side, initial encounter for closed fracture	Closed fracture of base of skull without mention of intra cranial injury, with concussion, unspecified
S02109A	80110	Fracture of base of skull, unspecified side, initial encounter for closed fracture	Closed fracture of base of skull with cerebral laceration and contusion, unspecified state of consciousness
S06330A	80110	Contusion and laceration of cerebrum, unspecified, without loss of consciousness, initial encounter	Closed fracture of base of skull with cerebral laceration and contusion, unspecified state of consciousness
S02109A	80111	Fracture of base of skull, unspecified side, initial encounter for closed fracture	Closed fracture of base of skull with cerebral laceration and contusion, with no loss of consciousness
S06330A	80111	Contusion and laceration of cerebrum, unspecified, without loss of consciousness, initial encounter	Closed fracture of base of skull with cerebral laceration and contusion, with no loss of consciousness
S02109A	80112	Fracture of base of skull, unspecified side, initial encounter for closed fracture	Closed fracture of base of skull with cerebral laceration and contusion, with brief [less than one hour] loss of consciousness
S06331A	80112	Contusion and laceration of cerebrum, unspecified, with loss of consciousness of 30 minutes or less, initial encounter	Closed fracture of base of skull with cerebral laceration and contusion, with brief [less than one hour] loss of consciousness
S06332A	80112	Contusion and laceration of cerebrum, unspecified, with loss of consciousness of 31 minutes to 59 minutes, initial encounter	Closed fracture of base of skull with cerebral laceration and contusion, with brief [less than one hour] loss of consciousness
S02109A	80113	Fracture of base of skull, unspecified side, initial encounter for closed fracture	Closed fracture of base of skull with cerebral laceration and contusion, with moderate [1-24 hours] loss of consciousness
S06333A	80113	Contusion and laceration of cerebrum, unspecified, with loss of consciousness of 1 hour to 5 hours 59 minutes, initial encounter	Closed fracture of base of skull with cerebral laceration and contusion, with moderate [1-24 hours] loss of consciousness
S06334A	80113	Contusion and laceration of cerebrum, unspecified, with loss of consciousness of 6 hours to 24 hours, initial encounter	Closed fracture of base of skull with cerebral laceration and contusion, with moderate [1-24 hours] loss of consciousness
S02109A	80114	Fracture of base of skull, unspecified side, initial encounter for closed fracture	Closed fracture of base of skull with cerebral laceration and contusion, with prolonged [more than 24 hours] loss of consciousness and return to pre-existing conscious level
S06335A	80114	Contusion and laceration of cerebrum, unspecified, with loss of consciousness greater than 24 hours with return to pre-existing conscious level, initial encounter	Closed fracture of base of skull with cerebral laceration and contusion, with prolonged [more than 24 hours] loss of consciousness and return to pre-existing conscious level
S02109A	80115	Fracture of base of skull, unspecified side, initial encounter for closed fracture	Closed fracture of base of skull with cerebral laceration and contusion, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level
S06336A	80115	Contusion and laceration of cerebrum, unspecified, with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving, initial encounter	Closed fracture of base of skull with cerebral laceration and contusion, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level
S06337A	80115	Contusion and laceration of cerebrum, unspecified, with loss of consciousness of any duration with death due to brain injury prior to regaining consciousness, initial encounter	Closed fracture of base of skull with cerebral laceration and contusion, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level
S06338A	80115	Contusion and laceration of cerebrum, unspecified, with loss of consciousness of any duration with death due to other cause prior to regaining consciousness, initial encounter	Closed fracture of base of skull with cerebral laceration and contusion, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level
S02109A	80116	Fracture of base of skull, unspecified side, initial encounter for closed fracture	Closed fracture of base of skull with cerebral laceration and contusion, with loss of consciousness of unspecified duration
S06339A	80116	Contusion and laceration of cerebrum, unspecified, with loss of consciousness of unspecified duration, initial encounter	Closed fracture of base of skull with cerebral laceration and contusion, with loss of consciousness of unspecified duration
S02109A	80119	Fracture of base of skull, unspecified side, initial encounter for closed fracture	Closed fracture of base of skull with cerebral laceration and contusion, with concussion, unspecified
S06330A	80119	Contusion and laceration of cerebrum, unspecified, without loss of consciousness, initial encounter	Closed fracture of base of skull with cerebral laceration and contusion, with concussion, unspecified
S02109A	80120	Fracture of base of skull, unspecified side, initial encounter for closed fracture	Closed fracture of base of skull with subarachnoid, subdural, and extradural hemorrhage, unspecified state of consciousness

Appendix A

Frailty markers

S064X0A	80120	Epidural hemorrhage without loss of consciousness, initial encounter	Closed fracture of base of skull with subarachnoid, subdural, and extradural hemorrhage, unspecified state of consciousness
S065X0A	80120	Traumatic subdural hemorrhage without loss of consciousness, initial encounter	Closed fracture of base of skull with subarachnoid, subdural, and extradural hemorrhage, unspecified state of consciousness
S066X0A	80120	Traumatic subarachnoid hemorrhage without loss of consciousness, initial encounter	Closed fracture of base of skull with subarachnoid, subdural, and extradural hemorrhage, unspecified state of consciousness
S02109A	80121	Fracture of base of skull, unspecified side, initial encounter for closed fracture	Closed fracture of base of skull with subarachnoid, subdural, and extradural hemorrhage, with no loss of consciousness
S064X0A	80121	Epidural hemorrhage without loss of consciousness, initial encounter	Closed fracture of base of skull with subarachnoid, subdural, and extradural hemorrhage, with no loss of consciousness
S065X0A	80121	Traumatic subdural hemorrhage without loss of consciousness, initial encounter	Closed fracture of base of skull with subarachnoid, subdural, and extradural hemorrhage, with no loss of consciousness
S066X0A	80121	Traumatic subarachnoid hemorrhage without loss of consciousness, initial encounter	Closed fracture of base of skull with subarachnoid, subdural, and extradural hemorrhage, with no loss of consciousness
S02109A	80122	Fracture of base of skull, unspecified side, initial encounter for closed fracture	Closed fracture of base of skull with subarachnoid, subdural, and extradural hemorrhage, with brief [less than one hour] loss of consciousness
S064X1A	80122	Epidural hemorrhage with loss of consciousness of 30 minutes or less, initial encounter	Closed fracture of base of skull with subarachnoid, subdural, and extradural hemorrhage, with brief [less than one hour] loss of consciousness
S064X2A	80122	Epidural hemorrhage with loss of consciousness of 31 minutes to 59 minutes, initial encounter	Closed fracture of base of skull with subarachnoid, subdural, and extradural hemorrhage, with brief [less than one hour] loss of consciousness
S065X1A	80122	Traumatic subdural hemorrhage with loss of consciousness of 30 minutes or less, initial encounter	Closed fracture of base of skull with subarachnoid, subdural, and extradural hemorrhage, with brief [less than one hour] loss of consciousness
S065X2A	80122	Traumatic subdural hemorrhage with loss of consciousness of 31 minutes to 59 minutes, initial encounter	Closed fracture of base of skull with subarachnoid, subdural, and extradural hemorrhage, with brief [less than one hour] loss of consciousness
S066X1A	80122	Traumatic subarachnoid hemorrhage with loss of consciousness of 30 minutes or less, initial encounter	Closed fracture of base of skull with subarachnoid, subdural, and extradural hemorrhage, with brief [less than one hour] loss of consciousness
S066X2A	80122	Traumatic subarachnoid hemorrhage with loss of consciousness of 31 minutes to 59 minutes, initial encounter	Closed fracture of base of skull with subarachnoid, subdural, and extradural hemorrhage, with brief [less than one hour] loss of consciousness
S02109A	80123	Fracture of base of skull, unspecified side, initial encounter for closed fracture	Closed fracture of base of skull with subarachnoid, subdural, and extradural hemorrhage, with moderate [1-24 hours] loss of consciousness
S064X3A	80123	Epidural hemorrhage with loss of consciousness of 1 hour to 5 hours 59 minutes, initial encounter	Closed fracture of base of skull with subarachnoid, subdural, and extradural hemorrhage, with moderate [1-24 hours] loss of consciousness
S064X4A	80123	Epidural hemorrhage with loss of consciousness of 6 hours to 24 hours, initial encounter	Closed fracture of base of skull with subarachnoid, subdural, and extradural hemorrhage, with moderate [1-24 hours] loss of consciousness
S065X3A	80123	Traumatic subdural hemorrhage with loss of consciousness of 1 hour to 5 hours 59 minutes, initial encounter	Closed fracture of base of skull with subarachnoid, subdural, and extradural hemorrhage, with moderate [1-24 hours] loss of consciousness
S065X4A	80123	Traumatic subdural hemorrhage with loss of consciousness of 6 hours to 24 hours, initial encounter	Closed fracture of base of skull with subarachnoid, subdural, and extradural hemorrhage, with moderate [1-24 hours] loss of consciousness
S066X3A	80123	Traumatic subarachnoid hemorrhage with loss of consciousness of 1 hour to 5 hours 59 minutes, initial encounter	Closed fracture of base of skull with subarachnoid, subdural, and extradural hemorrhage, with moderate [1-24 hours] loss of consciousness

Appendix A

Frailty markers

S066X4A	80123	Traumatic subarachnoid hemorrhage with loss of consciousness of 6 hours to 24 hours, initial encounter	Closed fracture of base of skull with subarachnoid, subdural, and extradural hemorrhage, with moderate [1-24 hours] loss of consciousness
S02109A	80124	Fracture of base of skull, unspecified side, initial encounter for closed fracture	Closed fracture of base of skull with subarachnoid, subdural, and extradural hemorrhage, with prolonged [more than 24 hours] loss of consciousness and return to pre-existing conscious level
S064X5A	80124	Epidural hemorrhage with loss of consciousness greater than 24 hours with return to pre-existing conscious level, initial encounter	Closed fracture of base of skull with subarachnoid, subdural, and extradural hemorrhage, with prolonged [more than 24 hours] loss of consciousness and return to pre-existing conscious level
S065X5A	80124	Traumatic subdural hemorrhage with loss of consciousness greater than 24 hours with return to pre-existing conscious level, initial encounter	Closed fracture of base of skull with subarachnoid, subdural, and extradural hemorrhage, with prolonged [more than 24 hours] loss of consciousness and return to pre-existing conscious level
S066X5A	80124	Traumatic subarachnoid hemorrhage with loss of consciousness greater than 24 hours with return to pre-existing conscious level, initial encounter	Closed fracture of base of skull with subarachnoid, subdural, and extradural hemorrhage, with prolonged [more than 24 hours] loss of consciousness and return to pre-existing conscious level
S02109A	80125	Fracture of base of skull, unspecified side, initial encounter for closed fracture	Closed fracture of base of skull with subarachnoid, subdural, and extradural hemorrhage, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level
S064X6A	80125	Epidural hemorrhage with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving, initial encounter	Closed fracture of base of skull with subarachnoid, subdural, and extradural hemorrhage, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level
S064X7A	80125	Epidural hemorrhage with loss of consciousness of any duration with death due to brain injury prior to regaining consciousness, initial encounter	Closed fracture of base of skull with subarachnoid, subdural, and extradural hemorrhage, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level
S064X8A	80125	Epidural hemorrhage with loss of consciousness of any duration with death due to other causes prior to regaining consciousness, initial encounter	Closed fracture of base of skull with subarachnoid, subdural, and extradural hemorrhage, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level
S065X6A	80125	Traumatic subdural hemorrhage with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving, initial encounter	Closed fracture of base of skull with subarachnoid, subdural, and extradural hemorrhage, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level
S065X7A	80125	Traumatic subdural hemorrhage with loss of consciousness of any duration with death due to brain injury before regaining consciousness, initial encounter	Closed fracture of base of skull with subarachnoid, subdural, and extradural hemorrhage, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level
S065X8A	80125	Traumatic subdural hemorrhage with loss of consciousness of any duration with death due to other cause before regaining consciousness, initial encounter	Closed fracture of base of skull with subarachnoid, subdural, and extradural hemorrhage, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level
S066X6A	80125	Traumatic subarachnoid hemorrhage with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving, initial encounter	Closed fracture of base of skull with subarachnoid, subdural, and extradural hemorrhage, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level
S066X7A	80125	Traumatic subarachnoid hemorrhage with loss of consciousness of any duration with death due to brain injury prior to regaining consciousness, initial encounter	Closed fracture of base of skull with subarachnoid, subdural, and extradural hemorrhage, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level
S066X8A	80125	Traumatic subarachnoid hemorrhage with loss of consciousness of any duration with death due to other cause prior to regaining consciousness, initial encounter	Closed fracture of base of skull with subarachnoid, subdural, and extradural hemorrhage, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level
S02109A	80126	Fracture of base of skull, unspecified side, initial encounter for closed fracture	Closed fracture of base of skull with subarachnoid, subdural, and extradural hemorrhage, with loss of consciousness of unspecified duration

Appendix A

Frailty markers

S064X9A	80126	Epidural hemorrhage with loss of consciousness of unspecified duration, initial encounter	Closed fracture of base of skull with subarachnoid, subdural, and extradural hemorrhage, with loss of consciousness of unspecified duration
S065X9A	80126	Traumatic subdural hemorrhage with loss of consciousness of unspecified duration, initial encounter	Closed fracture of base of skull with subarachnoid, subdural, and extradural hemorrhage, with loss of consciousness of unspecified duration
S066X9A	80126	Traumatic subarachnoid hemorrhage with loss of consciousness of unspecified duration, initial encounter	Closed fracture of base of skull with subarachnoid, subdural, and extradural hemorrhage, with loss of consciousness of unspecified duration
S02109A	80129	Fracture of base of skull, unspecified side, initial encounter for closed fracture	Closed fracture of base of skull with subarachnoid, subdural, and extradural hemorrhage, with concussion, unspecified
S064X0A	80129	Epidural hemorrhage without loss of consciousness, initial encounter	Closed fracture of base of skull with subarachnoid, subdural, and extradural hemorrhage, with concussion, unspecified
S065X0A	80129	Traumatic subdural hemorrhage without loss of consciousness, initial encounter	Closed fracture of base of skull with subarachnoid, subdural, and extradural hemorrhage, with concussion, unspecified
S066X0A	80129	Traumatic subarachnoid hemorrhage without loss of consciousness, initial encounter	Closed fracture of base of skull with subarachnoid, subdural, and extradural hemorrhage, with concussion, unspecified
S02109A	80130	Fracture of base of skull, unspecified side, initial encounter for closed fracture	Closed fracture of base of skull with other and unspecified intracranial hemorrhage, unspecified state of consciousness
S06360A	80130	Traumatic hemorrhage of cerebrum, unspecified, without loss of consciousness, initial encounter	Closed fracture of base of skull with other and unspecified intracranial hemorrhage, unspecified state of consciousness
S02109A	80131	Fracture of base of skull, unspecified side, initial encounter for closed fracture	Closed fracture of base of skull with other and unspecified intracranial hemorrhage, with no loss of consciousness
S06360A	80131	Traumatic hemorrhage of cerebrum, unspecified, without loss of consciousness, initial encounter	Closed fracture of base of skull with other and unspecified intracranial hemorrhage, with no loss of consciousness
S02109A	80132	Fracture of base of skull, unspecified side, initial encounter for closed fracture	Closed fracture of base of skull with other and unspecified intracranial hemorrhage, with brief [less than one hour] loss of consciousness
S06361A	80132	Traumatic hemorrhage of cerebrum, unspecified, with loss of consciousness of 30 minutes or less, initial encounter	Closed fracture of base of skull with other and unspecified intracranial hemorrhage, with brief [less than one hour] loss of consciousness
S06362A	80132	Traumatic hemorrhage of cerebrum, unspecified, with loss of consciousness of 31 minutes to 59 minutes, initial encounter	Closed fracture of base of skull with other and unspecified intracranial hemorrhage, with brief [less than one hour] loss of consciousness
S02109A	80133	Fracture of base of skull, unspecified side, initial encounter for closed fracture	Closed fracture of base of skull with other and unspecified intracranial hemorrhage, with moderate [1-24 hours] loss of consciousness
S06363A	80133	Traumatic hemorrhage of cerebrum, unspecified, with loss of consciousness of 1 hours to 5 hours 59 minutes, initial encounter	Closed fracture of base of skull with other and unspecified intracranial hemorrhage, with moderate [1-24 hours] loss of consciousness
S06364A	80133	Traumatic hemorrhage of cerebrum, unspecified, with loss of consciousness of 6 hours to 24 hours, initial encounter	Closed fracture of base of skull with other and unspecified intracranial hemorrhage, with moderate [1-24 hours] loss of consciousness
S02109A	80134	Fracture of base of skull, unspecified side, initial encounter for closed fracture	Closed fracture of base of skull with other and unspecified intracranial hemorrhage, with prolonged [more than 24 hours] loss of consciousness and return to pre-existing conscious level
S06365A	80134	Traumatic hemorrhage of cerebrum, unspecified, with loss of consciousness greater than 24 hours with return to pre-existing conscious level, initial encounter	Closed fracture of base of skull with other and unspecified intracranial hemorrhage, with prolonged [more than 24 hours] loss of consciousness and return to pre-existing conscious level
S02109A	80135	Fracture of base of skull, unspecified side, initial encounter for closed fracture	Closed fracture of base of skull with other and unspecified intracranial hemorrhage, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level

Appendix A

Frailty markers

S06366A	80135	Traumatic hemorrhage of cerebrum, unspecified, with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving, initial encounter	Closed fracture of base of skull with other and unspecified intracranial hemorrhage, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level
S06367A	80135	Traumatic hemorrhage of cerebrum, unspecified, with loss of consciousness of any duration with death due to brain injury prior to regaining consciousness, initial encounter	Closed fracture of base of skull with other and unspecified intracranial hemorrhage, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level
S06368A	80135	Traumatic hemorrhage of cerebrum, unspecified, with loss of consciousness of any duration with death due to other cause prior to regaining consciousness, initial encounter	Closed fracture of base of skull with other and unspecified intracranial hemorrhage, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level
S02109A	80136	Fracture of base of skull, unspecified side, initial encounter for closed fracture	Closed fracture of base of skull with other and unspecified intracranial hemorrhage, with loss of consciousness of unspecified duration
S06369A	80136	Traumatic hemorrhage of cerebrum, unspecified, with loss of consciousness of unspecified duration, initial encounter	Closed fracture of base of skull with other and unspecified intracranial hemorrhage, with loss of consciousness of unspecified duration
S02109A	80139	Fracture of base of skull, unspecified side, initial encounter for closed fracture	Closed fracture of base of skull with other and unspecified intracranial hemorrhage, with concussion, unspecified
S06360A	80139	Traumatic hemorrhage of cerebrum, unspecified, without loss of consciousness, initial encounter	Closed fracture of base of skull with other and unspecified intracranial hemorrhage, with concussion, unspecified
S02109A	80140	Fracture of base of skull, unspecified side, initial encounter for closed fracture	Closed fracture of base of skull with intracranial injury of other and unspecified nature, unspecified state of consciousness
S06890A	80140	Other specified intracranial injury without loss of consciousness, initial encounter	Closed fracture of base of skull with intracranial injury of other and unspecified nature, unspecified state of consciousness
S069X0A	80140	Unspecified intracranial injury without loss of consciousness, initial encounter	Closed fracture of base of skull with intracranial injury of other and unspecified nature, unspecified state of consciousness
S02109A	80141	Fracture of base of skull, unspecified side, initial encounter for closed fracture	Closed fracture of base of skull with intracranial injury of other and unspecified nature, with no loss of consciousness
S06890A	80141	Other specified intracranial injury without loss of consciousness, initial encounter	Closed fracture of base of skull with intracranial injury of other and unspecified nature, with no loss of consciousness
S069X0A	80141	Unspecified intracranial injury without loss of consciousness, initial encounter	Closed fracture of base of skull with intracranial injury of other and unspecified nature, with no loss of consciousness
S02109A	80142	Fracture of base of skull, unspecified side, initial encounter for closed fracture	Closed fracture of base of skull with intracranial injury of other and unspecified nature, with brief [less than one hour] loss of consciousness
S06891A	80142	Other specified intracranial injury with loss of consciousness of 30 minutes or less, initial encounter	Closed fracture of base of skull with intracranial injury of other and unspecified nature, with brief [less than one hour] loss of consciousness
S06892A	80142	Other specified intracranial injury with loss of consciousness of 31 minutes to 59 minutes, initial encounter	Closed fracture of base of skull with intracranial injury of other and unspecified nature, with brief [less than one hour] loss of consciousness
S069X1A	80142	Unspecified intracranial injury with loss of consciousness of 30 minutes or less, initial encounter	Closed fracture of base of skull with intracranial injury of other and unspecified nature, with brief [less than one hour] loss of consciousness
S069X2A	80142	Unspecified intracranial injury with loss of consciousness of 31 minutes to 59 minutes, initial encounter	Closed fracture of base of skull with intracranial injury of other and unspecified nature, with brief [less than one hour] loss of consciousness
S02109A	80143	Fracture of base of skull, unspecified side, initial encounter for closed fracture	Closed fracture of base of skull with intracranial injury of other and unspecified nature, with moderate [1-24 hours] loss of consciousness
S06893A	80143	Other specified intracranial injury with loss of consciousness of 1 hour to 5 hours 59 minutes, initial encounter	Closed fracture of base of skull with intracranial injury of other and unspecified nature, with moderate [1-24 hours] loss of consciousness
S06894A	80143	Other specified intracranial injury with loss of consciousness of 6 hours to 24 hours, initial encounter	Closed fracture of base of skull with intracranial injury of other and unspecified nature, with moderate [1-24 hours] loss of consciousness

Appendix A

Frailty markers

S069X3A	80143	Unspecified intracranial injury with loss of consciousness of 1 hour to 5 hours 59 minutes, initial encounter	Closed fracture of base of skull with intracranial injury of other and unspecified nature, with moderate [1-24 hours] loss of consciousness
S069X4A	80143	Unspecified intracranial injury with loss of consciousness of 6 hours to 24 hours, initial encounter	Closed fracture of base of skull with intracranial injury of other and unspecified nature, with moderate [1-24 hours] loss of consciousness
S02109A	80144	Fracture of base of skull, unspecified side, initial encounter for closed fracture	Closed fracture of base of skull with intracranial injury of other and unspecified nature, with prolonged [more than 24 hours] loss of consciousness and return to pre-existing conscious level
S06895A	80144	Other specified intracranial injury with loss of consciousness greater than 24 hours with return to pre-existing conscious level, initial encounter	Closed fracture of base of skull with intracranial injury of other and unspecified nature, with prolonged [more than 24 hours] loss of consciousness and return to pre-existing conscious level
S069X5A	80144	Unspecified intracranial injury with loss of consciousness greater than 24 hours with return to pre-existing conscious level, initial encounter	Closed fracture of base of skull with intracranial injury of other and unspecified nature, with prolonged [more than 24 hours] loss of consciousness and return to pre-existing conscious level
S02109A	80145	Fracture of base of skull, unspecified side, initial encounter for closed fracture	Closed fracture of base of skull with intracranial injury of other and unspecified nature, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level
S06896A	80145	Other specified intracranial injury with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving, initial encounter	Closed fracture of base of skull with intracranial injury of other and unspecified nature, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level
S06897A	80145	Other specified intracranial injury with loss of consciousness of any duration with death due to brain injury prior to regaining consciousness, initial encounter	Closed fracture of base of skull with intracranial injury of other and unspecified nature, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level
S06898A	80145	Other specified intracranial injury with loss of consciousness of any duration with death due to other cause prior to regaining consciousness, initial encounter	Closed fracture of base of skull with intracranial injury of other and unspecified nature, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level
S069X6A	80145	Unspecified intracranial injury with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving, initial encounter	Closed fracture of base of skull with intracranial injury of other and unspecified nature, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level
S069X7A	80145	Unspecified intracranial injury with loss of consciousness of any duration with death due to brain injury prior to regaining consciousness, initial encounter	Closed fracture of base of skull with intracranial injury of other and unspecified nature, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level
S069X8A	80145	Unspecified intracranial injury with loss of consciousness of any duration with death due to other cause prior to regaining consciousness, initial encounter	Closed fracture of base of skull with intracranial injury of other and unspecified nature, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level
S02109A	80146	Fracture of base of skull, unspecified side, initial encounter for closed fracture	Closed fracture of base of skull with intracranial injury of other and unspecified nature, with loss of consciousness of unspecified duration
S06899A	80146	Other specified intracranial injury with loss of consciousness of unspecified duration, initial encounter	Closed fracture of base of skull with intracranial injury of other and unspecified nature, with loss of consciousness of unspecified duration
S069X9A	80146	Unspecified intracranial injury with loss of consciousness of unspecified duration, initial encounter	Closed fracture of base of skull with intracranial injury of other and unspecified nature, with loss of consciousness of unspecified duration
S02109A	80149	Fracture of base of skull, unspecified side, initial encounter for closed fracture	Closed fracture of base of skull with intracranial injury of other and unspecified nature, with concussion, unspecified
S06890A	80149	Other specified intracranial injury without loss of consciousness, initial encounter	Closed fracture of base of skull with intracranial injury of other and unspecified nature, with concussion, unspecified
S069X0A	80149	Unspecified intracranial injury without loss of consciousness, initial encounter	Closed fracture of base of skull with intracranial injury of other and unspecified nature, with concussion, unspecified

Appendix A

Frailty markers

[illegible]

Appendix A

Frailty markers

S02109B	80154	Fracture of base of skull, unspecified side, initial encounter for open fracture	Open fracture of base of skull without mention of intracranial injury, with prolonged [more than 24 hours] loss of consciousness and return to pre-existing conscious level
S02101B	80155	Fracture of base of skull, right side, initial encounter for open fracture	Open fracture of base of skull without mention of intracranial injury, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level
S02102B	80155	Fracture of base of skull, left side, initial encounter for open fracture	Open fracture of base of skull without mention of intracranial injury, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level
S02109B	80155	Fracture of base of skull, unspecified side, initial encounter for open fracture	Open fracture of base of skull without mention of intracranial injury, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level
S02101B	80156	Fracture of base of skull, right side, initial encounter for open fracture	Open fracture of base of skull without mention of intracranial injury, with loss of consciousness of unspecified duration
S02102B	80156	Fracture of base of skull, left side, initial encounter for open fracture	Open fracture of base of skull without mention of intracranial injury, with loss of consciousness of unspecified duration
S02109B	80156	Fracture of base of skull, unspecified side, initial encounter for open fracture	Open fracture of base of skull without mention of intracranial injury, with loss of consciousness of unspecified duration
S02101B	80159	Fracture of base of skull, right side, initial encounter for open fracture	Open fracture of base of skull without mention of intracranial injury, with concussion, unspecified
S02102B	80159	Fracture of base of skull, left side, initial encounter for open fracture	Open fracture of base of skull without mention of intracranial injury, with concussion, unspecified
S02109B	80159	Fracture of base of skull, unspecified side, initial encounter for open fracture	Open fracture of base of skull without mention of intracranial injury, with concussion, unspecified
S02109B	80160	Fracture of base of skull, unspecified side, initial encounter for open fracture	Open fracture of base of skull with cerebral laceration and contusion, unspecified state of consciousness
S06330A	80160	Contusion and laceration of cerebrum, unspecified, without loss of consciousness, initial encounter	Open fracture of base of skull with cerebral laceration and contusion, unspecified state of consciousness
S02109B	80161	Fracture of base of skull, unspecified side, initial encounter for open fracture	Open fracture of base of skull with cerebral laceration and contusion, with no loss of consciousness
S06330A	80161	Contusion and laceration of cerebrum, unspecified, without loss of consciousness, initial encounter	Open fracture of base of skull with cerebral laceration and contusion, with no loss of consciousness
S02109B	80162	Fracture of base of skull, unspecified side, initial encounter for open fracture	Open fracture of base of skull with cerebral laceration and contusion, with brief [less than one hour] loss of consciousness
S06331A	80162	Contusion and laceration of cerebrum, unspecified, with loss of consciousness of 30 minutes or less, initial encounter	Open fracture of base of skull with cerebral laceration and contusion, with brief [less than one hour] loss of consciousness
S06332A	80162	Contusion and laceration of cerebrum, unspecified, with loss of consciousness of 31 minutes to 59 minutes, initial encounter	Open fracture of base of skull with cerebral laceration and contusion, with brief [less than one hour] loss of consciousness
S02109B	80163	Fracture of base of skull, unspecified side, initial encounter for open fracture	Open fracture of base of skull with cerebral laceration and contusion, with moderate [1-24 hours] loss of consciousness
S06333A	80163	Contusion and laceration of cerebrum, unspecified, with loss of consciousness of 1 hour to 5 hours 59 minutes, initial encounter	Open fracture of base of skull with cerebral laceration and contusion, with moderate [1-24 hours] loss of consciousness
S06334A	80163	Contusion and laceration of cerebrum, unspecified, with loss of consciousness of 6 hours to 24 hours, initial encounter	Open fracture of base of skull with cerebral laceration and contusion, with moderate [1-24 hours] loss of consciousness
S02109B	80164	Fracture of base of skull, unspecified side, initial encounter for open fracture	Open fracture of base of skull with cerebral laceration and contusion, with prolonged [more than 24 hours] loss of consciousness and return to pre-existing conscious level
S06335A	80164	Contusion and laceration of cerebrum, unspecified, with loss of consciousness greater than 24 hours with return to pre-existing conscious level, initial encounter	Open fracture of base of skull with cerebral laceration and contusion, with prolonged [more than 24 hours] loss of consciousness and return to pre-existing conscious level

Appendix A

Frailty markers

S02109B	80165	Fracture of base of skull, unspecified side, initial encounter for open fracture	Open fracture of base of skull with cerebral laceration and contusion, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level
S06336A	80165	Contusion and laceration of cerebrum, unspecified, with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving, initial encounter	Open fracture of base of skull with cerebral laceration and contusion, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level
S06337A	80165	Contusion and laceration of cerebrum, unspecified, with loss of consciousness of any duration with death due to brain injury prior to regaining consciousness, initial encounter	Open fracture of base of skull with cerebral laceration and contusion, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level
S06338A	80165	Contusion and laceration of cerebrum, unspecified, with loss of consciousness of any duration with death due to other cause prior to regaining consciousness, initial encounter	Open fracture of base of skull with cerebral laceration and contusion, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level
S02109B	80166	Fracture of base of skull, unspecified side, initial encounter for open fracture	Open fracture of base of skull with cerebral laceration and contusion, with loss of consciousness of unspecified duration
S06339A	80166	Contusion and laceration of cerebrum, unspecified, with loss of consciousness of unspecified duration, initial encounter	Open fracture of base of skull with cerebral laceration and contusion, with loss of consciousness of unspecified duration
S02109B	80169	Fracture of base of skull, unspecified side, initial encounter for open fracture	Open fracture of base of skull with cerebral laceration and contusion, with concussion, unspecified
S06330A	80169	Contusion and laceration of cerebrum, unspecified, without loss of consciousness, initial encounter	Open fracture of base of skull with cerebral laceration and contusion, with concussion, unspecified
S02109B	80170	Fracture of base of skull, unspecified side, initial encounter for open fracture	Open fracture of base of skull with subarachnoid, subdural, and extradural hemorrhage, unspecified state of consciousness
S064X0A	80170	Epidural hemorrhage without loss of consciousness, initial encounter	Open fracture of base of skull with subarachnoid, subdural, and extradural hemorrhage, unspecified state of consciousness
S065X0A	80170	Traumatic subdural hemorrhage without loss of consciousness, initial encounter	Open fracture of base of skull with subarachnoid, subdural, and extradural hemorrhage, unspecified state of consciousness
S066X0A	80170	Traumatic subarachnoid hemorrhage without loss of consciousness, initial encounter	Open fracture of base of skull with subarachnoid, subdural, and extradural hemorrhage, unspecified state of consciousness
S02109B	80171	Fracture of base of skull, unspecified side, initial encounter for open fracture	Open fracture of base of skull with subarachnoid, subdural, and extradural hemorrhage, with no loss of consciousness
S064X0A	80171	Epidural hemorrhage without loss of consciousness, initial encounter	Open fracture of base of skull with subarachnoid, subdural, and extradural hemorrhage, with no loss of consciousness
S065X0A	80171	Traumatic subdural hemorrhage without loss of consciousness, initial encounter	Open fracture of base of skull with subarachnoid, subdural, and extradural hemorrhage, with no loss of consciousness
S066X0A	80171	Traumatic subarachnoid hemorrhage without loss of consciousness, initial encounter	Open fracture of base of skull with subarachnoid, subdural, and extradural hemorrhage, with no loss of consciousness
S02109B	80172	Fracture of base of skull, unspecified side, initial encounter for open fracture	Open fracture of base of skull with subarachnoid, subdural, and extradural hemorrhage, with brief [less than one hour] loss of consciousness
S064X1A	80172	Epidural hemorrhage with loss of consciousness of 30 minutes or less, initial encounter	Open fracture of base of skull with subarachnoid, subdural, and extradural hemorrhage, with brief [less than one hour] loss of consciousness
S064X2A	80172	Epidural hemorrhage with loss of consciousness of 31 minutes to 59 minutes, initial encounter	Open fracture of base of skull with subarachnoid, subdural, and extradural hemorrhage, with brief [less than one hour] loss of consciousness
S065X1A	80172	Traumatic subdural hemorrhage with loss of consciousness of 30 minutes or less, initial encounter	Open fracture of base of skull with subarachnoid, subdural, and extradural hemorrhage, with brief [less than one hour] loss of consciousness
S065X2A	80172	Traumatic subdural hemorrhage with loss of consciousness of 31 minutes to 59 minutes, initial encounter	Open fracture of base of skull with subarachnoid, subdural, and extradural hemorrhage, with brief [less than one hour] loss of consciousness

Appendix A

Frailty markers

S066X1A	80172	Traumatic subarachnoid hemorrhage with loss of consciousness of 30 minutes or less, initial encounter	Open fracture of base of skull with subarachnoid, subdural, and extradural hemorrhage, with brief [less than one hour] loss of consciousness
S066X2A	80172	Traumatic subarachnoid hemorrhage with loss of consciousness of 31 minutes to 59 minutes, initial encounter	Open fracture of base of skull with subarachnoid, subdural, and extradural hemorrhage, with brief [less than one hour] loss of consciousness
S02109B	80173	Fracture of base of skull, unspecified side, initial encounter for open fracture	Open fracture of base of skull with subarachnoid, subdural, and extradural hemorrhage, with moderate [1-24 hours] loss of consciousness
S064X3A	80173	Epidural hemorrhage with loss of consciousness of 1 hour to 5 hours 59 minutes, initial encounter	Open fracture of base of skull with subarachnoid, subdural, and extradural hemorrhage, with moderate [1-24 hours] loss of consciousness
S064X4A	80173	Epidural hemorrhage with loss of consciousness of 6 hours to 24 hours, initial encounter	Open fracture of base of skull with subarachnoid, subdural, and extradural hemorrhage, with moderate [1-24 hours] loss of consciousness
S065X3A	80173	Traumatic subdural hemorrhage with loss of consciousness of 1 hour to 5 hours 59 minutes, initial encounter	Open fracture of base of skull with subarachnoid, subdural, and extradural hemorrhage, with moderate [1-24 hours] loss of consciousness
S065X4A	80173	Traumatic subdural hemorrhage with loss of consciousness of 6 hours to 24 hours, initial encounter	Open fracture of base of skull with subarachnoid, subdural, and extradural hemorrhage, with moderate [1-24 hours] loss of consciousness
S066X3A	80173	Traumatic subarachnoid hemorrhage with loss of consciousness of 1 hour to 5 hours 59 minutes, initial encounter	Open fracture of base of skull with subarachnoid, subdural, and extradural hemorrhage, with moderate [1-24 hours] loss of consciousness
S066X4A	80173	Traumatic subarachnoid hemorrhage with loss of consciousness of 6 hours to 24 hours, initial encounter	Open fracture of base of skull with subarachnoid, subdural, and extradural hemorrhage, with moderate [1-24 hours] loss of consciousness
S02109B	80174	Fracture of base of skull, unspecified side, initial encounter for open fracture	Open fracture of base of skull with subarachnoid, subdural, and extradural hemorrhage, with prolonged [more than 24 hours] loss of consciousness and return to pre-existing conscious level
S064X5A	80174	Epidural hemorrhage with loss of consciousness greater than 24 hours with return to pre-existing conscious level, initial encounter	Open fracture of base of skull with subarachnoid, subdural, and extradural hemorrhage, with prolonged [more than 24 hours] loss of consciousness and return to pre-existing conscious level
S065X5A	80174	Traumatic subdural hemorrhage with loss of consciousness greater than 24 hours with return to pre-existing conscious level, initial encounter	Open fracture of base of skull with subarachnoid, subdural, and extradural hemorrhage, with prolonged [more than 24 hours] loss of consciousness and return to pre-existing conscious level
S066X5A	80174	Traumatic subarachnoid hemorrhage with loss of consciousness greater than 24 hours with return to pre-existing conscious level, initial encounter	Open fracture of base of skull with subarachnoid, subdural, and extradural hemorrhage, with prolonged [more than 24 hours] loss of consciousness and return to pre-existing conscious level
S02109B	80175	Fracture of base of skull, unspecified side, initial encounter for open fracture	Open fracture of base of skull with subarachnoid, subdural, and extradural hemorrhage, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level
S064X6A	80175	Epidural hemorrhage with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving, initial encounter	Open fracture of base of skull with subarachnoid, subdural, and extradural hemorrhage, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level
S064X7A	80175	Epidural hemorrhage with loss of consciousness of any duration with death due to brain injury prior to regaining consciousness, initial encounter	Open fracture of base of skull with subarachnoid, subdural, and extradural hemorrhage, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level
S064X8A	80175	Epidural hemorrhage with loss of consciousness of any duration with death due to other causes prior to regaining consciousness, initial encounter	Open fracture of base of skull with subarachnoid, subdural, and extradural hemorrhage, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level

Appendix A

Frailty markers

S065X6A	80175	Traumatic subdural hemorrhage with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving, initial encounter	Open fracture of base of skull with subarachnoid, subdural, and extradural hemorrhage, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level
S065X7A	80175	Traumatic subdural hemorrhage with loss of consciousness of any duration with death due to brain injury before regaining consciousness, initial encounter	Open fracture of base of skull with subarachnoid, subdural, and extradural hemorrhage, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level
S065X8A	80175	Traumatic subdural hemorrhage with loss of consciousness of any duration with death due to other cause before regaining consciousness, initial encounter	Open fracture of base of skull with subarachnoid, subdural, and extradural hemorrhage, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level
S066X6A	80175	Traumatic subarachnoid hemorrhage with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving, initial encounter	Open fracture of base of skull with subarachnoid, subdural, and extradural hemorrhage, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level
S066X7A	80175	Traumatic subarachnoid hemorrhage with loss of consciousness of any duration with death due to brain injury prior to regaining consciousness, initial encounter	Open fracture of base of skull with subarachnoid, subdural, and extradural hemorrhage, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level
S066X8A	80175	Traumatic subarachnoid hemorrhage with loss of consciousness of any duration with death due to other cause prior to regaining consciousness, initial encounter	Open fracture of base of skull with subarachnoid, subdural, and extradural hemorrhage, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level
S02109B	80176	Fracture of base of skull, unspecified side, initial encounter for open fracture	Open fracture of base of skull with subarachnoid, subdural, and extradural hemorrhage, with loss of consciousness of unspecified duration
S064X9A	80176	Epidural hemorrhage with loss of consciousness of unspecified duration, initial encounter	Open fracture of base of skull with subarachnoid, subdural, and extradural hemorrhage, with loss of consciousness of unspecified duration
S065X9A	80176	Traumatic subdural hemorrhage with loss of consciousness of unspecified duration, initial encounter	Open fracture of base of skull with subarachnoid, subdural, and extradural hemorrhage, with loss of consciousness of unspecified duration
S066X9A	80176	Traumatic subarachnoid hemorrhage with loss of consciousness of unspecified duration, initial encounter	Open fracture of base of skull with subarachnoid, subdural, and extradural hemorrhage, with loss of consciousness of unspecified duration
S02109B	80179	Fracture of base of skull, unspecified side, initial encounter for open fracture	Open fracture of base of skull with subarachnoid, subdural, and extradural hemorrhage, with concussion, unspecified
S064X0A	80179	Epidural hemorrhage without loss of consciousness, initial encounter	Open fracture of base of skull with subarachnoid, subdural, and extradural hemorrhage, with concussion, unspecified
S065X0A	80179	Traumatic subdural hemorrhage without loss of consciousness, initial encounter	Open fracture of base of skull with subarachnoid, subdural, and extradural hemorrhage, with concussion, unspecified
S066X0A	80179	Traumatic subarachnoid hemorrhage without loss of consciousness, initial encounter	Open fracture of base of skull with subarachnoid, subdural, and extradural hemorrhage, with concussion, unspecified
S02109B	80180	Fracture of base of skull, unspecified side, initial encounter for open fracture	Open fracture of base of skull with other and unspecified intracranial hemorrhage, unspecified state of consciousness
S06360A	80180	Traumatic hemorrhage of cerebrum, unspecified, without loss of consciousness, initial encounter	Open fracture of base of skull with other and unspecified intracranial hemorrhage, unspecified state of consciousness
S02109B	80181	Fracture of base of skull, unspecified side, initial encounter for open fracture	Open fracture of base of skull with other and unspecified intracranial hemorrhage, with no loss of consciousness
S06360A	80181	Traumatic hemorrhage of cerebrum, unspecified, without loss of consciousness, initial encounter	Open fracture of base of skull with other and unspecified intracranial hemorrhage, with no loss of consciousness
S02109B	80182	Fracture of base of skull, unspecified side, initial encounter for open fracture	Open fracture of base of skull with other and unspecified intracranial hemorrhage, with brief [less than one hour] loss of consciousness
S06361A	80182	Traumatic hemorrhage of cerebrum, unspecified, with loss of consciousness of 30 minutes or less, initial encounter	Open fracture of base of skull with other and unspecified intracranial hemorrhage, with brief [less than one hour] loss of consciousness
S06362A	80182	Traumatic hemorrhage of cerebrum, unspecified, with loss of consciousness of 31 minutes to 59 minutes, initial encounter	Open fracture of base of skull with other and unspecified intracranial hemorrhage, with brief [less than one hour] loss of consciousness

Appendix A

Frailty markers

S02109B	80183	Fracture of base of skull, unspecified side, initial encounter for open fracture	Open fracture of base of skull with other and unspecified intracranial hemorrhage, with moderate [1-24 hours] loss of consciousness
S06363A	80183	Traumatic hemorrhage of cerebrum, unspecified, with loss of consciousness of 1 hours to 5 hours 59 minutes, initial encounter	Open fracture of base of skull with other and unspecified intracranial hemorrhage, with moderate [1-24 hours] loss of consciousness
S06364A	80183	Traumatic hemorrhage of cerebrum, unspecified, with loss of consciousness of 6 hours to 24 hours, initial encounter	Open fracture of base of skull with other and unspecified intracranial hemorrhage, with moderate [1-24 hours] loss of consciousness
S02109B	80184	Fracture of base of skull, unspecified side, initial encounter for open fracture	Open fracture of base of skull with other and unspecified intracranial hemorrhage, with prolonged [more than 24 hours] loss of consciousness and return to pre-existing conscious level
S06365A	80184	Traumatic hemorrhage of cerebrum, unspecified, with loss of consciousness greater than 24 hours with return to pre-existing conscious level, initial encounter	Open fracture of base of skull with other and unspecified intracranial hemorrhage, with prolonged [more than 24 hours] loss of consciousness and return to pre-existing conscious level
S02109B	80185	Fracture of base of skull, unspecified side, initial encounter for open fracture	Open fracture of base of skull with other and unspecified intracranial hemorrhage, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level
S06366A	80185	Traumatic hemorrhage of cerebrum, unspecified, with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving, initial encounter	Open fracture of base of skull with other and unspecified intracranial hemorrhage, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level
S06367A	80185	Traumatic hemorrhage of cerebrum, unspecified, with loss of consciousness of any duration with death due to brain injury prior to regaining consciousness, initial encounter	Open fracture of base of skull with other and unspecified intracranial hemorrhage, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level
S06368A	80185	Traumatic hemorrhage of cerebrum, unspecified, with loss of consciousness of any duration with death due to other cause prior to regaining consciousness, initial encounter	Open fracture of base of skull with other and unspecified intracranial hemorrhage, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level
S02109B	80186	Fracture of base of skull, unspecified side, initial encounter for open fracture	Open fracture of base of skull with other and unspecified intracranial hemorrhage, with loss of consciousness of unspecified duration
S06369A	80186	Traumatic hemorrhage of cerebrum, unspecified, with loss of consciousness of unspecified duration, initial encounter	Open fracture of base of skull with other and unspecified intracranial hemorrhage, with loss of consciousness of unspecified duration
S02109B	80189	Fracture of base of skull, unspecified side, initial encounter for open fracture	Open fracture of base of skull with other and unspecified intracranial hemorrhage, with concussion, unspecified
S06360A	80189	Traumatic hemorrhage of cerebrum, unspecified, without loss of consciousness, initial encounter	Open fracture of base of skull with other and unspecified intracranial hemorrhage, with concussion, unspecified
S02109B	80190	Fracture of base of skull, unspecified side, initial encounter for open fracture	Open fracture of base of skull with intracranial injury of other and unspecified nature, unspecified state of consciousness
S06890A	80190	Other specified intracranial injury without loss of consciousness, initial encounter	Open fracture of base of skull with intracranial injury of other and unspecified nature, unspecified state of consciousness
S069X0A	80190	Unspecified intracranial injury without loss of consciousness, initial encounter	Open fracture of base of skull with intracranial injury of other and unspecified nature, unspecified state of consciousness
S02109B	80191	Fracture of base of skull, unspecified side, initial encounter for open fracture	Open fracture of base of skull with intracranial injury of other and unspecified nature, with no loss of consciousness
S06890A	80191	Other specified intracranial injury without loss of consciousness, initial encounter	Open fracture of base of skull with intracranial injury of other and unspecified nature, with no loss of consciousness
S069X0A	80191	Unspecified intracranial injury without loss of consciousness, initial encounter	Open fracture of base of skull with intracranial injury of other and unspecified nature, with no loss of consciousness
S02109B	80192	Fracture of base of skull, unspecified side, initial encounter for open fracture	Open fracture of base of skull with intracranial injury of other and unspecified nature, with brief [less than one hour] loss of consciousness

Appendix A

Frailty markers

S06891A	80192	Other specified intracranial injury with loss of consciousness of 30 minutes or less, initial encounter	Open fracture of base of skull with intracranial injury of other and unspecified nature, with brief [less than one hour] loss of consciousness
S06892A	80192	Other specified intracranial injury with loss of consciousness of 31 minutes to 59 minutes, initial encounter	Open fracture of base of skull with intracranial injury of other and unspecified nature, with brief [less than one hour] loss of consciousness
S069X1A	80192	Unspecified intracranial injury with loss of consciousness of 30 minutes or less, initial encounter	Open fracture of base of skull with intracranial injury of other and unspecified nature, with brief [less than one hour] loss of consciousness
S069X2A	80192	Unspecified intracranial injury with loss of consciousness of 31 minutes to 59 minutes, initial encounter	Open fracture of base of skull with intracranial injury of other and unspecified nature, with brief [less than one hour] loss of consciousness
S02109B	80193	Fracture of base of skull, unspecified side, initial encounter for open fracture	Open fracture of base of skull with intracranial injury of other and unspecified nature, with moderate [1-24 hours] loss of consciousness
S06893A	80193	Other specified intracranial injury with loss of consciousness of 1 hour to 5 hours 59 minutes, initial encounter	Open fracture of base of skull with intracranial injury of other and unspecified nature, with moderate [1-24 hours] loss of consciousness
S06894A	80193	Other specified intracranial injury with loss of consciousness of 6 hours to 24 hours, initial encounter	Open fracture of base of skull with intracranial injury of other and unspecified nature, with moderate [1-24 hours] loss of consciousness
S069X3A	80193	Unspecified intracranial injury with loss of consciousness of 1 hour to 5 hours 59 minutes, initial encounter	Open fracture of base of skull with intracranial injury of other and unspecified nature, with moderate [1-24 hours] loss of consciousness
S069X4A	80193	Unspecified intracranial injury with loss of consciousness of 6 hours to 24 hours, initial encounter	Open fracture of base of skull with intracranial injury of other and unspecified nature, with moderate [1-24 hours] loss of consciousness
S02109B	80194	Fracture of base of skull, unspecified side, initial encounter for open fracture	Open fracture of base of skull with intracranial injury of other and unspecified nature, with prolonged [more than 24 hours] loss of consciousness and return to pre-existing conscious level
S06895A	80194	Other specified intracranial injury with loss of consciousness greater than 24 hours with return to pre-existing conscious level, initial encounter	Open fracture of base of skull with intracranial injury of other and unspecified nature, with prolonged [more than 24 hours] loss of consciousness and return to pre-existing conscious level
S069X5A	80194	Unspecified intracranial injury with loss of consciousness greater than 24 hours with return to pre-existing conscious level, initial encounter	Open fracture of base of skull with intracranial injury of other and unspecified nature, with prolonged [more than 24 hours] loss of consciousness and return to pre-existing conscious level
S02109B	80195	Fracture of base of skull, unspecified side, initial encounter for open fracture	Open fracture of base of skull with intracranial injury of other and unspecified nature, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level
S06896A	80195	Other specified intracranial injury with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving, initial encounter	Open fracture of base of skull with intracranial injury of other and unspecified nature, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level
S06897A	80195	Other specified intracranial injury with loss of consciousness of any duration with death due to brain injury prior to regaining consciousness, initial encounter	Open fracture of base of skull with intracranial injury of other and unspecified nature, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level
S06898A	80195	Other specified intracranial injury with loss of consciousness of any duration with death due to other cause prior to regaining consciousness, initial encounter	Open fracture of base of skull with intracranial injury of other and unspecified nature, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level
S069X6A	80195	Unspecified intracranial injury with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving, initial encounter	Open fracture of base of skull with intracranial injury of other and unspecified nature, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level

Appendix A

Frailty markers

S069X7A	80195	Unspecified intracranial injury with loss of consciousness of any duration with death due to brain injury prior to regaining consciousness, initial encounter	Open fracture of base of skull with intracranial injury of other and unspecified nature, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level
S069X8A	80195	Unspecified intracranial injury with loss of consciousness of any duration with death due to other cause prior to regaining consciousness, initial encounter	Open fracture of base of skull with intracranial injury of other and unspecified nature, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level
S02109B	80196	Fracture of base of skull, unspecified side, initial encounter for open fracture	Open fracture of base of skull with intracranial injury of other and unspecified nature, with loss of consciousness of unspecified duration
S06899A	80196	Other specified intracranial injury with loss of consciousness of unspecified duration, initial encounter	Open fracture of base of skull with intracranial injury of other and unspecified nature, with loss of consciousness of unspecified duration
S069X9A	80196	Unspecified intracranial injury with loss of consciousness of unspecified duration, initial encounter	Open fracture of base of skull with intracranial injury of other and unspecified nature, with loss of consciousness of unspecified duration
S02109B	80199	Fracture of base of skull, unspecified side, initial encounter for open fracture	Open fracture of base of skull with intracranial injury of other and unspecified nature, with concussion, unspecified
S06890A	80199	Other specified intracranial injury without loss of consciousness, initial encounter	Open fracture of base of skull with intracranial injury of other and unspecified nature, with concussion, unspecified
S069X0A	80199	Unspecified intracranial injury without loss of consciousness, initial encounter	Open fracture of base of skull with intracranial injury of other and unspecified nature, with concussion, unspecified
S02609A	80229	Fracture of mandible, unspecified, initial encounter for closed fracture	Closed fracture of mandible, multiple sites
S0269XA	80229	Fracture of mandible of other specified site, initial encounter for closed fracture	Closed fracture of mandible, multiple sites
S02609B	80239	Fracture of mandible, unspecified, initial encounter for open fracture	Open fracture of mandible, multiple sites
S0269XB	80239	Fracture of mandible of other specified site, initial encounter for open fracture	Open fracture of mandible, multiple sites
S02411A	8024	LeFort I fracture, initial encounter for closed fracture	Closed fracture of malar and maxillary bones
S02412A	8024	LeFort II fracture, initial encounter for closed fracture	Closed fracture of malar and maxillary bones
S02413A	8024	LeFort III fracture, initial encounter for closed fracture	Closed fracture of malar and maxillary bones
S02411B	8025	LeFort I fracture, initial encounter for open fracture	Open fracture of malar and maxillary bones
S02412B	8025	LeFort II fracture, initial encounter for open fracture	Open fracture of malar and maxillary bones
S02413B	8025	LeFort III fracture, initial encounter for open fracture	Open fracture of malar and maxillary bones
S0280XA	8028	Fracture of other specified skull and facial bones, unspecified side, initial encounter for closed fracture	Closed fracture of other facial bones
S0281XA	8028	Fracture of other specified skull and facial bones, right side, initial encounter for closed fracture	Closed fracture of other facial bones
S0282XA	8028	Fracture of other specified skull and facial bones, left side, initial encounter for closed fracture	Closed fracture of other facial bones
S0280XB	8029	Fracture of other specified skull and facial bones, unspecified side, initial encounter for open fracture	Open fracture of other facial bones
S0281XB	8029	Fracture of other specified skull and facial bones, right side, initial encounter for open fracture	Open fracture of other facial bones
S0282XB	8029	Fracture of other specified skull and facial bones, left side, initial encounter for open fracture	Open fracture of other facial bones
S0291XA	80301	Unspecified fracture of skull, initial encounter for closed fracture	Other closed skull fracture without mention of intracranial injury, with no loss of consciousness
S0291XA	80302	Unspecified fracture of skull, initial encounter for closed fracture	Other closed skull fracture without mention of intracranial injury, with brief [less than one hour] loss of consciousness
S0291XA	80303	Unspecified fracture of skull, initial encounter for closed fracture	Other closed skull fracture without mention of intracranial injury, with moderate [1-24 hours] loss of consciousness
S0291XA	80304	Unspecified fracture of skull, initial encounter for closed fracture	Other closed skull fracture without mention of intracranial injury, with prolonged [more than 24 hours] loss of consciousness and return to pre-existing conscious level
S0291XA	80305	Unspecified fracture of skull, initial encounter for closed fracture	Other closed skull fracture without mention of intracranial injury, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level

Appendix A

Frailty markers

S0291XA	80306	Unspecified fracture of skull, initial encounter for closed fracture	Other closed skull fracture without mention of intracranial injury, with loss of consciousness of unspecified duration
S0291XA	80309	Unspecified fracture of skull, initial encounter for closed fracture	Other closed skull fracture without mention of intracranial injury, with concussion, unspecified
S0291XA	80310	Unspecified fracture of skull, initial encounter for closed fracture	Other closed skull fracture with cerebral laceration and contusion, unspecified state of consciousness
S06330A	80310	Contusion and laceration of cerebrum, unspecified, without loss of consciousness, initial encounter	Other closed skull fracture with cerebral laceration and contusion, unspecified state of consciousness
S0291XA	80311	Unspecified fracture of skull, initial encounter for closed fracture	Other closed skull fracture with cerebral laceration and contusion, with no loss of consciousness
S06330A	80311	Contusion and laceration of cerebrum, unspecified, without loss of consciousness, initial encounter	Other closed skull fracture with cerebral laceration and contusion, with no loss of consciousness
S0291XA	80312	Unspecified fracture of skull, initial encounter for closed fracture	Other closed skull fracture with cerebral laceration and contusion, with brief [less than one hour] loss of consciousness
S06331A	80312	Contusion and laceration of cerebrum, unspecified, with loss of consciousness of 30 minutes or less, initial encounter	Other closed skull fracture with cerebral laceration and contusion, with brief [less than one hour] loss of consciousness
S06332A	80312	Contusion and laceration of cerebrum, unspecified, with loss of consciousness of 31 minutes to 59 minutes, initial encounter	Other closed skull fracture with cerebral laceration and contusion, with brief [less than one hour] loss of consciousness
S0291XA	80313	Unspecified fracture of skull, initial encounter for closed fracture	Other closed skull fracture with cerebral laceration and contusion, with moderate [1-24 hours] loss of consciousness
S06333A	80313	Contusion and laceration of cerebrum, unspecified, with loss of consciousness of 1 hour to 5 hours 59 minutes, initial encounter	Other closed skull fracture with cerebral laceration and contusion, with moderate [1-24 hours] loss of consciousness
S06334A	80313	Contusion and laceration of cerebrum, unspecified, with loss of consciousness of 6 hours to 24 hours, initial encounter	Other closed skull fracture with cerebral laceration and contusion, with moderate [1-24 hours] loss of consciousness
S0291XA	80314	Unspecified fracture of skull, initial encounter for closed fracture	Other closed skull fracture with cerebral laceration and contusion, with prolonged [more than 24 hours] loss of consciousness and return to pre-existing conscious level
S06335A	80314	Contusion and laceration of cerebrum, unspecified, with loss of consciousness greater than 24 hours with return to pre-existing conscious level, initial encounter	Other closed skull fracture with cerebral laceration and contusion, with prolonged [more than 24 hours] loss of consciousness and return to pre-existing conscious level
S0291XA	80315	Unspecified fracture of skull, initial encounter for closed fracture	Other closed skull fracture with cerebral laceration and contusion, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level
S06336A	80315	Contusion and laceration of cerebrum, unspecified, with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving, initial encounter	Other closed skull fracture with cerebral laceration and contusion, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level
S06337A	80315	Contusion and laceration of cerebrum, unspecified, with loss of consciousness of any duration with death due to brain injury prior to regaining consciousness, initial encounter	Other closed skull fracture with cerebral laceration and contusion, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level
S06338A	80315	Contusion and laceration of cerebrum, unspecified, with loss of consciousness of any duration with death due to other cause prior to regaining consciousness, initial encounter	Other closed skull fracture with cerebral laceration and contusion, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level
S0291XA	80316	Unspecified fracture of skull, initial encounter for closed fracture	Other closed skull fracture with cerebral laceration and contusion, with loss of consciousness of unspecified duration
S06339A	80316	Contusion and laceration of cerebrum, unspecified, with loss of consciousness of unspecified duration, initial encounter	Other closed skull fracture with cerebral laceration and contusion, with loss of consciousness of unspecified duration
S0291XA	80319	Unspecified fracture of skull, initial encounter for closed fracture	Other closed skull fracture with cerebral laceration and contusion, with concussion, unspecified
S06330A	80319	Contusion and laceration of cerebrum, unspecified, without loss of consciousness, initial encounter	Other closed skull fracture with cerebral laceration and contusion, with concussion, unspecified

Appendix A

Frailty markers

[illegible]

Appendix A

Frailty markers

S0291XA	80324	Unspecified fracture of skull, initial encounter for closed fracture	Other closed skull fracture with subarachnoid, subdural, and extradural hemorrhage, with prolonged [more than 24 hours] loss of consciousness and return to pre-existing conscious level
S064X5A	80324	Epidural hemorrhage with loss of consciousness greater than 24 hours with return to pre-existing conscious level, initial encounter	Other closed skull fracture with subarachnoid, subdural, and extradural hemorrhage, with prolonged [more than 24 hours] loss of consciousness and return to pre-existing conscious level
S065X5A	80324	Traumatic subdural hemorrhage with loss of consciousness greater than 24 hours with return to pre-existing conscious level, initial encounter	Other closed skull fracture with subarachnoid, subdural, and extradural hemorrhage, with prolonged [more than 24 hours] loss of consciousness and return to pre-existing conscious level
S066X5A	80324	Traumatic subarachnoid hemorrhage with loss of consciousness greater than 24 hours with return to pre-existing conscious level, initial encounter	Other closed skull fracture with subarachnoid, subdural, and extradural hemorrhage, with prolonged [more than 24 hours] loss of consciousness and return to pre-existing conscious level
S0291XA	80325	Unspecified fracture of skull, initial encounter for closed fracture	Other closed skull fracture with subarachnoid, subdural, and extradural hemorrhage, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level
S064X6A	80325	Epidural hemorrhage with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving, initial encounter	Other closed skull fracture with subarachnoid, subdural, and extradural hemorrhage, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level
S064X7A	80325	Epidural hemorrhage with loss of consciousness of any duration with death due to brain injury prior to regaining consciousness, initial encounter	Other closed skull fracture with subarachnoid, subdural, and extradural hemorrhage, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level
S064X8A	80325	Epidural hemorrhage with loss of consciousness of any duration with death due to other causes prior to regaining consciousness, initial encounter	Other closed skull fracture with subarachnoid, subdural, and extradural hemorrhage, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level
S065X6A	80325	Traumatic subdural hemorrhage with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving, initial encounter	Other closed skull fracture with subarachnoid, subdural, and extradural hemorrhage, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level
S065X7A	80325	Traumatic subdural hemorrhage with loss of consciousness of any duration with death due to brain injury before regaining consciousness, initial encounter	Other closed skull fracture with subarachnoid, subdural, and extradural hemorrhage, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level
S065X8A	80325	Traumatic subdural hemorrhage with loss of consciousness of any duration with death due to other cause before regaining consciousness, initial encounter	Other closed skull fracture with subarachnoid, subdural, and extradural hemorrhage, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level
S066X6A	80325	Traumatic subarachnoid hemorrhage with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving, initial encounter	Other closed skull fracture with subarachnoid, subdural, and extradural hemorrhage, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level
S066X7A	80325	Traumatic subarachnoid hemorrhage with loss of consciousness of any duration with death due to brain injury prior to regaining consciousness, initial encounter	Other closed skull fracture with subarachnoid, subdural, and extradural hemorrhage, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level
S066X8A	80325	Traumatic subarachnoid hemorrhage with loss of consciousness of any duration with death due to other cause prior to regaining consciousness, initial encounter	Other closed skull fracture with subarachnoid, subdural, and extradural hemorrhage, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level
S0291XA	80326	Unspecified fracture of skull, initial encounter for closed fracture	Other closed skull fracture with subarachnoid, subdural, and extradural hemorrhage, with loss of consciousness of unspecified duration
S064X9A	80326	Epidural hemorrhage with loss of consciousness of unspecified duration, initial encounter	Other closed skull fracture with subarachnoid, subdural, and extradural hemorrhage, with loss of consciousness of unspecified duration

Appendix A

Frailty markers

S065X9A	80326	Traumatic subdural hemorrhage with loss of consciousness of unspecified duration, initial encounter	Other closed skull fracture with subarachnoid, subdural, and extradural hemorrhage, with loss of consciousness of unspecified duration
S066X9A	80326	Traumatic subarachnoid hemorrhage with loss of consciousness of unspecified duration, initial encounter	Other closed skull fracture with subarachnoid, subdural, and extradural hemorrhage, with loss of consciousness of unspecified duration
S0291XA	80329	Unspecified fracture of skull, initial encounter for closed fracture	Other closed skull fracture with subarachnoid, subdural, and extradural hemorrhage, with concussion, unspecified
S064X0A	80329	Epidural hemorrhage without loss of consciousness, initial encounter	Other closed skull fracture with subarachnoid, subdural, and extradural hemorrhage, with concussion, unspecified
S065X0A	80329	Traumatic subdural hemorrhage without loss of consciousness, initial encounter	Other closed skull fracture with subarachnoid, subdural, and extradural hemorrhage, with concussion, unspecified
S066X0A	80329	Traumatic subarachnoid hemorrhage without loss of consciousness, initial encounter	Other closed skull fracture with subarachnoid, subdural, and extradural hemorrhage, with concussion, unspecified
S0291XA	80330	Unspecified fracture of skull, initial encounter for closed fracture	Other closed skull fracture with other and unspecified intracranial hemorrhage, unspecified state of unconsciousness
S06369A	80330	Traumatic hemorrhage of cerebrum, unspecified, with loss of consciousness of unspecified duration, initial encounter	Other closed skull fracture with other and unspecified intracranial hemorrhage, unspecified state of unconsciousness
S0291XA	80331	Unspecified fracture of skull, initial encounter for closed fracture	Other closed skull fracture with other and unspecified intracranial hemorrhage, with no loss of consciousness
S06360A	80331	Traumatic hemorrhage of cerebrum, unspecified, without loss of consciousness, initial encounter	Other closed skull fracture with other and unspecified intracranial hemorrhage, with no loss of consciousness
S0291XA	80332	Unspecified fracture of skull, initial encounter for closed fracture	Other closed skull fracture with other and unspecified intracranial hemorrhage, with brief [less than one hour] loss of consciousness
S06361A	80332	Traumatic hemorrhage of cerebrum, unspecified, with loss of consciousness of 30 minutes or less, initial encounter	Other closed skull fracture with other and unspecified intracranial hemorrhage, with brief [less than one hour] loss of consciousness
S06362A	80332	Traumatic hemorrhage of cerebrum, unspecified, with loss of consciousness of 31 minutes to 59 minutes, initial encounter	Other closed skull fracture with other and unspecified intracranial hemorrhage, with brief [less than one hour] loss of consciousness
S0291XA	80333	Unspecified fracture of skull, initial encounter for closed fracture	Other closed skull fracture with other and unspecified intracranial hemorrhage, with moderate [1-24 hours] loss of consciousness
S06363A	80333	Traumatic hemorrhage of cerebrum, unspecified, with loss of consciousness of 1 hours to 5 hours 59 minutes, initial encounter	Other closed skull fracture with other and unspecified intracranial hemorrhage, with moderate [1-24 hours] loss of consciousness
S06364A	80333	Traumatic hemorrhage of cerebrum, unspecified, with loss of consciousness of 6 hours to 24 hours, initial encounter	Other closed skull fracture with other and unspecified intracranial hemorrhage, with moderate [1-24 hours] loss of consciousness
S0291XA	80334	Unspecified fracture of skull, initial encounter for closed fracture	Other closed skull fracture with other and unspecified intracranial hemorrhage, with prolonged [more than 24 hours] loss of consciousness and return to pre-existing conscious level
S06365A	80334	Traumatic hemorrhage of cerebrum, unspecified, with loss of consciousness greater than 24 hours with return to pre-existing conscious level, initial encounter	Other closed skull fracture with other and unspecified intracranial hemorrhage, with prolonged [more than 24 hours] loss of consciousness and return to pre-existing conscious level
S0291XA	80335	Unspecified fracture of skull, initial encounter for closed fracture	Other closed skull fracture with other and unspecified intracranial hemorrhage, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level
S06366A	80335	Traumatic hemorrhage of cerebrum, unspecified, with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving, initial encounter	Other closed skull fracture with other and unspecified intracranial hemorrhage, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level
S06367A	80335	Traumatic hemorrhage of cerebrum, unspecified, with loss of consciousness of any duration with death due to brain injury prior to regaining consciousness, initial encounter	Other closed skull fracture with other and unspecified intracranial hemorrhage, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level

Appendix A

Frailty markers

S06368A	80335	Traumatic hemorrhage of cerebrum, unspecified, with loss of consciousness of any duration with death due to other cause prior to regaining consciousness, initial encounter	Other closed skull fracture with other and unspecified intracranial hemorrhage, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level
S0291XA	80336	Unspecified fracture of skull, initial encounter for closed fracture	Other closed skull fracture with other and unspecified intracranial hemorrhage, with loss of consciousness of unspecified duration
S06369A	80336	Traumatic hemorrhage of cerebrum, unspecified, with loss of consciousness of unspecified duration, initial encounter	Other closed skull fracture with other and unspecified intracranial hemorrhage, with loss of consciousness of unspecified duration
S0291XA	80339	Unspecified fracture of skull, initial encounter for closed fracture	Other closed skull fracture with other and unspecified intracranial hemorrhage, with concussion, unspecified
S06360A	80339	Traumatic hemorrhage of cerebrum, unspecified, without loss of consciousness, initial encounter	Other closed skull fracture with other and unspecified intracranial hemorrhage, with concussion, unspecified
S0291XA	80340	Unspecified fracture of skull, initial encounter for closed fracture	Other closed skull fracture with intracranial injury of other and unspecified nature, unspecified state of consciousness
S06890A	80340	Other specified intracranial injury without loss of consciousness, initial encounter	Other closed skull fracture with intracranial injury of other and unspecified nature, unspecified state of consciousness
S069X0A	80340	Unspecified intracranial injury without loss of consciousness, initial encounter	Other closed skull fracture with intracranial injury of other and unspecified nature, unspecified state of consciousness
S0291XA	80341	Unspecified fracture of skull, initial encounter for closed fracture	Other closed skull fracture with intracranial injury of other and unspecified nature, with no loss of consciousness
S06890A	80341	Other specified intracranial injury without loss of consciousness, initial encounter	Other closed skull fracture with intracranial injury of other and unspecified nature, with no loss of consciousness
S069X0A	80341	Unspecified intracranial injury without loss of consciousness, initial encounter	Other closed skull fracture with intracranial injury of other and unspecified nature, with no loss of consciousness
S0291XA	80342	Unspecified fracture of skull, initial encounter for closed fracture	Other closed skull fracture with intracranial injury of other and unspecified nature, with brief [less than one hour] loss of consciousness
S06891A	80342	Other specified intracranial injury with loss of consciousness of 30 minutes or less, initial encounter	Other closed skull fracture with intracranial injury of other and unspecified nature, with brief [less than one hour] loss of consciousness
S06892A	80342	Other specified intracranial injury with loss of consciousness of 31 minutes to 59 minutes, initial encounter	Other closed skull fracture with intracranial injury of other and unspecified nature, with brief [less than one hour] loss of consciousness
S069X1A	80342	Unspecified intracranial injury with loss of consciousness of 30 minutes or less, initial encounter	Other closed skull fracture with intracranial injury of other and unspecified nature, with brief [less than one hour] loss of consciousness
S069X2A	80342	Unspecified intracranial injury with loss of consciousness of 31 minutes to 59 minutes, initial encounter	Other closed skull fracture with intracranial injury of other and unspecified nature, with brief [less than one hour] loss of consciousness
S0291XA	80343	Unspecified fracture of skull, initial encounter for closed fracture	Other closed skull fracture with intracranial injury of other and unspecified nature, with moderate [1-24 hours] loss of consciousness
S06893A	80343	Other specified intracranial injury with loss of consciousness of 1 hour to 5 hours 59 minutes, initial encounter	Other closed skull fracture with intracranial injury of other and unspecified nature, with moderate [1-24 hours] loss of consciousness
S06894A	80343	Other specified intracranial injury with loss of consciousness of 6 hours to 24 hours, initial encounter	Other closed skull fracture with intracranial injury of other and unspecified nature, with moderate [1-24 hours] loss of consciousness
S069X3A	80343	Unspecified intracranial injury with loss of consciousness of 1 hour to 5 hours 59 minutes, initial encounter	Other closed skull fracture with intracranial injury of other and unspecified nature, with moderate [1-24 hours] loss of consciousness
S069X4A	80343	Unspecified intracranial injury with loss of consciousness of 6 hours to 24 hours, initial encounter	Other closed skull fracture with intracranial injury of other and unspecified nature, with moderate [1-24 hours] loss of consciousness
S0291XA	80344	Unspecified fracture of skull, initial encounter for closed fracture	Other closed skull fracture with intracranial injury of other and unspecified nature, with prolonged [more than 24 hours] loss of consciousness and return to pre-existing conscious level

Appendix A

Frailty markers

S06895A	80344	Other specified intracranial injury with loss of consciousness greater than 24 hours with return to pre-existing conscious level, initial encounter	Other closed skull fracture with intracranial injury of other and unspecified nature, with prolonged [more than 24 hours] loss of consciousness and return to pre-existing conscious level
S069X5A	80344	Unspecified intracranial injury with loss of consciousness greater than 24 hours with return to pre-existing conscious level, initial encounter	Other closed skull fracture with intracranial injury of other and unspecified nature, with prolonged [more than 24 hours] loss of consciousness and return to pre-existing conscious level
S0291XA	80345	Unspecified fracture of skull, initial encounter for closed fracture	Other closed skull fracture with intracranial injury of other and unspecified nature, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level
S06896A	80345	Other specified intracranial injury with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving, initial encounter	Other closed skull fracture with intracranial injury of other and unspecified nature, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level
S06897A	80345	Other specified intracranial injury with loss of consciousness of any duration with death due to brain injury prior to regaining consciousness, initial encounter	Other closed skull fracture with intracranial injury of other and unspecified nature, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level
S06898A	80345	Other specified intracranial injury with loss of consciousness of any duration with death due to other cause prior to regaining consciousness, initial encounter	Other closed skull fracture with intracranial injury of other and unspecified nature, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level
S069X6A	80345	Unspecified intracranial injury with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving, initial encounter	Other closed skull fracture with intracranial injury of other and unspecified nature, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level
S069X7A	80345	Unspecified intracranial injury with loss of consciousness of any duration with death due to brain injury prior to regaining consciousness, initial encounter	Other closed skull fracture with intracranial injury of other and unspecified nature, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level
S069X8A	80345	Unspecified intracranial injury with loss of consciousness of any duration with death due to other cause prior to regaining consciousness, initial encounter	Other closed skull fracture with intracranial injury of other and unspecified nature, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level
S0291XA	80346	Unspecified fracture of skull, initial encounter for closed fracture	Other closed skull fracture with intracranial injury of other and unspecified nature, with loss of consciousness of unspecified duration
S06899A	80346	Other specified intracranial injury with loss of consciousness of unspecified duration, initial encounter	Other closed skull fracture with intracranial injury of other and unspecified nature, with loss of consciousness of unspecified duration
S069X9A	80346	Unspecified intracranial injury with loss of consciousness of unspecified duration, initial encounter	Other closed skull fracture with intracranial injury of other and unspecified nature, with loss of consciousness of unspecified duration
S0291XA	80349	Unspecified fracture of skull, initial encounter for closed fracture	Other closed skull fracture with intracranial injury of other and unspecified nature, with concussion, unspecified
S06890A	80349	Other specified intracranial injury without loss of consciousness, initial encounter	Other closed skull fracture with intracranial injury of other and unspecified nature, with concussion, unspecified
S069X0A	80349	Unspecified intracranial injury without loss of consciousness, initial encounter	Other closed skull fracture with intracranial injury of other and unspecified nature, with concussion, unspecified
S0291XB	80351	Unspecified fracture of skull, initial encounter for open fracture	Other open skull fracture without mention of intracranial injury, with no loss of consciousness
S0291XB	80352	Unspecified fracture of skull, initial encounter for open fracture	Other open skull fracture without mention of intracranial injury, with brief [less than one hour] loss of consciousness
S0291XB	80353	Unspecified fracture of skull, initial encounter for open fracture	Other open skull fracture without mention of intracranial injury, with moderate [1-24 hours] loss of consciousness
S0291XB	80354	Unspecified fracture of skull, initial encounter for open fracture	Other open skull fracture without mention of intracranial injury, with prolonged [more than 24 hours] loss of consciousness and return to pre-existing conscious level

Appendix A

Frailty markers

S0291XB	80355	Unspecified fracture of skull, initial encounter for open fracture	Other open skull fracture without mention of intracranial injury, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level
S0291XB	80356	Unspecified fracture of skull, initial encounter for open fracture	Other open skull fracture without mention of intracranial injury, with loss of consciousness of unspecified duration
S0291XB	80359	Unspecified fracture of skull, initial encounter for open fracture	Other open skull fracture without mention of intracranial injury, with concussion, unspecified
S0291XB	80360	Unspecified fracture of skull, initial encounter for open fracture	Other open skull fracture with cerebral laceration and contusion, unspecified state of consciousness
S06330A	80360	Contusion and laceration of cerebrum, unspecified, without loss of consciousness, initial encounter	Other open skull fracture with cerebral laceration and contusion, unspecified state of consciousness
S0291XB	80361	Unspecified fracture of skull, initial encounter for open fracture	Other open skull fracture with cerebral laceration and contusion, with no loss of consciousness
S06330A	80361	Contusion and laceration of cerebrum, unspecified, without loss of consciousness, initial encounter	Other open skull fracture with cerebral laceration and contusion, with no loss of consciousness
S0291XB	80362	Unspecified fracture of skull, initial encounter for open fracture	Other open skull fracture with cerebral laceration and contusion, with brief [less than one hour] loss of consciousness
S06331A	80362	Contusion and laceration of cerebrum, unspecified, with loss of consciousness of 30 minutes or less, initial encounter	Other open skull fracture with cerebral laceration and contusion, with brief [less than one hour] loss of consciousness
S06332A	80362	Contusion and laceration of cerebrum, unspecified, with loss of consciousness of 31 minutes to 59 minutes, initial encounter	Other open skull fracture with cerebral laceration and contusion, with brief [less than one hour] loss of consciousness
S0291XB	80363	Unspecified fracture of skull, initial encounter for open fracture	Other open skull fracture with cerebral laceration and contusion, with moderate [1-24 hours] loss of consciousness
S06333A	80363	Contusion and laceration of cerebrum, unspecified, with loss of consciousness of 1 hour to 5 hours 59 minutes, initial encounter	Other open skull fracture with cerebral laceration and contusion, with moderate [1-24 hours] loss of consciousness
S06334A	80363	Contusion and laceration of cerebrum, unspecified, with loss of consciousness of 6 hours to 24 hours, initial encounter	Other open skull fracture with cerebral laceration and contusion, with moderate [1-24 hours] loss of consciousness
S0291XB	80364	Unspecified fracture of skull, initial encounter for open fracture	Other open skull fracture with cerebral laceration and contusion, with prolonged [more than 24 hours] loss of consciousness and return to pre-existing conscious level
S06335A	80364	Contusion and laceration of cerebrum, unspecified, with loss of consciousness greater than 24 hours with return to pre-existing conscious level, initial encounter	Other open skull fracture with cerebral laceration and contusion, with prolonged [more than 24 hours] loss of consciousness and return to pre-existing conscious level
S0291XB	80365	Unspecified fracture of skull, initial encounter for open fracture	Other open skull fracture with cerebral laceration and contusion, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level
S06336A	80365	Contusion and laceration of cerebrum, unspecified, with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving, initial encounter	Other open skull fracture with cerebral laceration and contusion, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level
S06337A	80365	Contusion and laceration of cerebrum, unspecified, with loss of consciousness of any duration with death due to brain injury prior to regaining consciousness, initial encounter	Other open skull fracture with cerebral laceration and contusion, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level
S06338A	80365	Contusion and laceration of cerebrum, unspecified, with loss of consciousness of any duration with death due to other cause prior to regaining consciousness, initial encounter	Other open skull fracture with cerebral laceration and contusion, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level
S0291XB	80366	Unspecified fracture of skull, initial encounter for open fracture	Other open skull fracture with cerebral laceration and contusion, with loss of consciousness of unspecified duration
S06339A	80366	Contusion and laceration of cerebrum, unspecified, with loss of consciousness of unspecified duration, initial encounter	Other open skull fracture with cerebral laceration and contusion, with loss of consciousness of unspecified duration
S0291XB	80369	Unspecified fracture of skull, initial encounter for open fracture	Other open skull fracture with cerebral laceration and contusion, with concussion, unspecified

Appendix A

Frailty markers

S06330A	80369	Contusion and laceration of cerebrum, unspecified, without loss of consciousness, initial encounter	Other open skull fracture with cerebral laceration and contusion, with concussion, unspecified
S0291XB	80370	Unspecified fracture of skull, initial encounter for open fracture	Other open skull fracture with subarachnoid, subdural, and extradural hemorrhage, unspecified state of consciousness
S064X0A	80370	Epidural hemorrhage without loss of consciousness, initial encounter	Other open skull fracture with subarachnoid, subdural, and extradural hemorrhage, unspecified state of consciousness
S065X0A	80370	Traumatic subdural hemorrhage without loss of consciousness, initial encounter	Other open skull fracture with subarachnoid, subdural, and extradural hemorrhage, unspecified state of consciousness
S066X0A	80370	Traumatic subarachnoid hemorrhage without loss of consciousness, initial encounter	Other open skull fracture with subarachnoid, subdural, and extradural hemorrhage, unspecified state of consciousness
S0291XB	80371	Unspecified fracture of skull, initial encounter for open fracture	Other open skull fracture with subarachnoid, subdural, and extradural hemorrhage, with no loss of consciousness
S064X0A	80371	Epidural hemorrhage without loss of consciousness, initial encounter	Other open skull fracture with subarachnoid, subdural, and extradural hemorrhage, with no loss of consciousness
S065X0A	80371	Traumatic subdural hemorrhage without loss of consciousness, initial encounter	Other open skull fracture with subarachnoid, subdural, and extradural hemorrhage, with no loss of consciousness
S066X0A	80371	Traumatic subarachnoid hemorrhage without loss of consciousness, initial encounter	Other open skull fracture with subarachnoid, subdural, and extradural hemorrhage, with no loss of consciousness
S0291XB	80372	Unspecified fracture of skull, initial encounter for open fracture	Other open skull fracture with subarachnoid, subdural, and extradural hemorrhage, with brief [less than one hour] loss of consciousness
S064X1A	80372	Epidural hemorrhage with loss of consciousness of 30 minutes or less, initial encounter	Other open skull fracture with subarachnoid, subdural, and extradural hemorrhage, with brief [less than one hour] loss of consciousness
S064X2A	80372	Epidural hemorrhage with loss of consciousness of 31 minutes to 59 minutes, initial encounter	Other open skull fracture with subarachnoid, subdural, and extradural hemorrhage, with brief [less than one hour] loss of consciousness
S065X1A	80372	Traumatic subdural hemorrhage with loss of consciousness of 30 minutes or less, initial encounter	Other open skull fracture with subarachnoid, subdural, and extradural hemorrhage, with brief [less than one hour] loss of consciousness
S065X2A	80372	Traumatic subdural hemorrhage with loss of consciousness of 31 minutes to 59 minutes, initial encounter	Other open skull fracture with subarachnoid, subdural, and extradural hemorrhage, with brief [less than one hour] loss of consciousness
S066X1A	80372	Traumatic subarachnoid hemorrhage with loss of consciousness of 30 minutes or less, initial encounter	Other open skull fracture with subarachnoid, subdural, and extradural hemorrhage, with brief [less than one hour] loss of consciousness
S066X2A	80372	Traumatic subarachnoid hemorrhage with loss of consciousness of 31 minutes to 59 minutes, initial encounter	Other open skull fracture with subarachnoid, subdural, and extradural hemorrhage, with brief [less than one hour] loss of consciousness
S0291XB	80373	Unspecified fracture of skull, initial encounter for open fracture	Other open skull fracture with subarachnoid, subdural, and extradural hemorrhage, with moderate [1-24 hours] loss of consciousness
S064X3A	80373	Epidural hemorrhage with loss of consciousness of 1 hour to 5 hours 59 minutes, initial encounter	Other open skull fracture with subarachnoid, subdural, and extradural hemorrhage, with moderate [1-24 hours] loss of consciousness
S064X4A	80373	Epidural hemorrhage with loss of consciousness of 6 hours to 24 hours, initial encounter	Other open skull fracture with subarachnoid, subdural, and extradural hemorrhage, with moderate [1-24 hours] loss of consciousness
S065X3A	80373	Traumatic subdural hemorrhage with loss of consciousness of 1 hour to 5 hours 59 minutes, initial encounter	Other open skull fracture with subarachnoid, subdural, and extradural hemorrhage, with moderate [1-24 hours] loss of consciousness
S065X4A	80373	Traumatic subdural hemorrhage with loss of consciousness of 6 hours to 24 hours, initial encounter	Other open skull fracture with subarachnoid, subdural, and extradural hemorrhage, with moderate [1-24 hours] loss of consciousness
S066X3A	80373	Traumatic subarachnoid hemorrhage with loss of consciousness of 1 hour to 5 hours 59 minutes, initial encounter	Other open skull fracture with subarachnoid, subdural, and extradural hemorrhage, with moderate [1-24 hours] loss of consciousness
S066X4A	80373	Traumatic subarachnoid hemorrhage with loss of consciousness of 6 hours to 24 hours, initial encounter	Other open skull fracture with subarachnoid, subdural, and extradural hemorrhage, with moderate [1-24 hours] loss of consciousness

Appendix A

Frailty markers

S0291XB	80374	Unspecified fracture of skull, initial encounter for open fracture	Other open skull fracture with subarachnoid, subdural, and extradural hemorrhage, with prolonged [more than 24 hours] loss of consciousness and return to pre-existing conscious level
S064X5A	80374	Epidural hemorrhage with loss of consciousness greater than 24 hours with return to pre-existing conscious level, initial encounter	Other open skull fracture with subarachnoid, subdural, and extradural hemorrhage, with prolonged [more than 24 hours] loss of consciousness and return to pre-existing conscious level
S065X5A	80374	Traumatic subdural hemorrhage with loss of consciousness greater than 24 hours with return to pre-existing conscious level, initial encounter	Other open skull fracture with subarachnoid, subdural, and extradural hemorrhage, with prolonged [more than 24 hours] loss of consciousness and return to pre-existing conscious level
S066X5A	80374	Traumatic subarachnoid hemorrhage with loss of consciousness greater than 24 hours with return to pre-existing conscious level, initial encounter	Other open skull fracture with subarachnoid, subdural, and extradural hemorrhage, with prolonged [more than 24 hours] loss of consciousness and return to pre-existing conscious level
S0291XB	80375	Unspecified fracture of skull, initial encounter for open fracture	Other open skull fracture with subarachnoid, subdural, and extradural hemorrhage, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level
S064X6A	80375	Epidural hemorrhage with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving, initial encounter	Other open skull fracture with subarachnoid, subdural, and extradural hemorrhage, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level
S064X7A	80375	Epidural hemorrhage with loss of consciousness of any duration with death due to brain injury prior to regaining consciousness, initial encounter	Other open skull fracture with subarachnoid, subdural, and extradural hemorrhage, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level
S064X8A	80375	Epidural hemorrhage with loss of consciousness of any duration with death due to other causes prior to regaining consciousness, initial encounter	Other open skull fracture with subarachnoid, subdural, and extradural hemorrhage, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level
S065X6A	80375	Traumatic subdural hemorrhage with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving, initial encounter	Other open skull fracture with subarachnoid, subdural, and extradural hemorrhage, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level
S065X7A	80375	Traumatic subdural hemorrhage with loss of consciousness of any duration with death due to brain injury before regaining consciousness, initial encounter	Other open skull fracture with subarachnoid, subdural, and extradural hemorrhage, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level
S065X8A	80375	Traumatic subdural hemorrhage with loss of consciousness of any duration with death due to other cause before regaining consciousness, initial encounter	Other open skull fracture with subarachnoid, subdural, and extradural hemorrhage, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level
S066X6A	80375	Traumatic subarachnoid hemorrhage with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving, initial encounter	Other open skull fracture with subarachnoid, subdural, and extradural hemorrhage, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level
S066X7A	80375	Traumatic subarachnoid hemorrhage with loss of consciousness of any duration with death due to brain injury prior to regaining consciousness, initial encounter	Other open skull fracture with subarachnoid, subdural, and extradural hemorrhage, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level
S066X8A	80375	Traumatic subarachnoid hemorrhage with loss of consciousness of any duration with death due to other cause prior to regaining consciousness, initial encounter	Other open skull fracture with subarachnoid, subdural, and extradural hemorrhage, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level
S0291XB	80376	Unspecified fracture of skull, initial encounter for open fracture	Other open skull fracture with subarachnoid, subdural, and extradural hemorrhage, with loss of consciousness of unspecified duration
S064X9A	80376	Epidural hemorrhage with loss of consciousness of unspecified duration, initial encounter	Other open skull fracture with subarachnoid, subdural, and extradural hemorrhage, with loss of consciousness of unspecified duration

Appendix A

Frailty markers

S065X9A	80376	Traumatic subdural hemorrhage with loss of consciousness of unspecified duration, initial encounter	Other open skull fracture with subarachnoid, subdural, and extradural hemorrhage, with loss of consciousness of unspecified duration
S066X9A	80376	Traumatic subarachnoid hemorrhage with loss of consciousness of unspecified duration, initial encounter	Other open skull fracture with subarachnoid, subdural, and extradural hemorrhage, with loss of consciousness of unspecified duration
S0291XB	80379	Unspecified fracture of skull, initial encounter for open fracture	Other open skull fracture with subarachnoid, subdural, and extradural hemorrhage, with concussion, unspecified
S064X0A	80379	Epidural hemorrhage without loss of consciousness, initial encounter	Other open skull fracture with subarachnoid, subdural, and extradural hemorrhage, with concussion, unspecified
S065X0A	80379	Traumatic subdural hemorrhage without loss of consciousness, initial encounter	Other open skull fracture with subarachnoid, subdural, and extradural hemorrhage, with concussion, unspecified
S066X0A	80379	Traumatic subarachnoid hemorrhage without loss of consciousness, initial encounter	Other open skull fracture with subarachnoid, subdural, and extradural hemorrhage, with concussion, unspecified
S0291XB	80380	Unspecified fracture of skull, initial encounter for open fracture	Other open skull fracture with other and unspecified intracranial hemorrhage, unspecified state of consciousness
S06360A	80380	Traumatic hemorrhage of cerebrum, unspecified, without loss of consciousness, initial encounter	Other open skull fracture with other and unspecified intracranial hemorrhage, unspecified state of consciousness
S0291XB	80381	Unspecified fracture of skull, initial encounter for open fracture	Other open skull fracture with other and unspecified intracranial hemorrhage, with no loss of consciousness
S06360A	80381	Traumatic hemorrhage of cerebrum, unspecified, without loss of consciousness, initial encounter	Other open skull fracture with other and unspecified intracranial hemorrhage, with no loss of consciousness
S0291XB	80382	Unspecified fracture of skull, initial encounter for open fracture	Other open skull fracture with other and unspecified intracranial hemorrhage, with brief [less than one hour] loss of consciousness
S06361A	80382	Traumatic hemorrhage of cerebrum, unspecified, with loss of consciousness of 30 minutes or less, initial encounter	Other open skull fracture with other and unspecified intracranial hemorrhage, with brief [less than one hour] loss of consciousness
S06362A	80382	Traumatic hemorrhage of cerebrum, unspecified, with loss of consciousness of 31 minutes to 59 minutes, initial encounter	Other open skull fracture with other and unspecified intracranial hemorrhage, with brief [less than one hour] loss of consciousness
S0291XB	80383	Unspecified fracture of skull, initial encounter for open fracture	Other open skull fracture with other and unspecified intracranial hemorrhage, with moderate [1-24 hours] loss of consciousness
S06363A	80383	Traumatic hemorrhage of cerebrum, unspecified, with loss of consciousness of 1 hours to 5 hours 59 minutes, initial encounter	Other open skull fracture with other and unspecified intracranial hemorrhage, with moderate [1-24 hours] loss of consciousness
S06364A	80383	Traumatic hemorrhage of cerebrum, unspecified, with loss of consciousness of 6 hours to 24 hours, initial encounter	Other open skull fracture with other and unspecified intracranial hemorrhage, with moderate [1-24 hours] loss of consciousness
S0291XB	80384	Unspecified fracture of skull, initial encounter for open fracture	Other open skull fracture with other and unspecified intracranial hemorrhage, with prolonged [more than 24 hours] loss of consciousness and return to pre-existing conscious level
S06365A	80384	Traumatic hemorrhage of cerebrum, unspecified, with loss of consciousness greater than 24 hours with return to pre-existing conscious level, initial encounter	Other open skull fracture with other and unspecified intracranial hemorrhage, with prolonged [more than 24 hours] loss of consciousness and return to pre-existing conscious level
S0291XB	80385	Unspecified fracture of skull, initial encounter for open fracture	Other open skull fracture with other and unspecified intracranial hemorrhage, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level
S06366A	80385	Traumatic hemorrhage of cerebrum, unspecified, with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving, initial encounter	Other open skull fracture with other and unspecified intracranial hemorrhage, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level
S06367A	80385	Traumatic hemorrhage of cerebrum, unspecified, with loss of consciousness of any duration with death due to brain injury prior to regaining consciousness, initial encounter	Other open skull fracture with other and unspecified intracranial hemorrhage, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level

Appendix A

Frailty markers

S06368A	80385	Traumatic hemorrhage of cerebrum, unspecified, with loss of consciousness of any duration with death due to other cause prior to regaining consciousness, initial encounter	Other open skull fracture with other and unspecified intracranial hemorrhage, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level
S0291XB	80386	Unspecified fracture of skull, initial encounter for open fracture	Other open skull fracture with other and unspecified intracranial hemorrhage, with loss of consciousness of unspecified duration
S06369A	80386	Traumatic hemorrhage of cerebrum, unspecified, with loss of consciousness of unspecified duration, initial encounter	Other open skull fracture with other and unspecified intracranial hemorrhage, with loss of consciousness of unspecified duration
S0291XB	80389	Unspecified fracture of skull, initial encounter for open fracture	Other open skull fracture with other and unspecified intracranial hemorrhage, with concussion, unspecified
S06360A	80389	Traumatic hemorrhage of cerebrum, unspecified, without loss of consciousness, initial encounter	Other open skull fracture with other and unspecified intracranial hemorrhage, with concussion, unspecified
S0291XB	80390	Unspecified fracture of skull, initial encounter for open fracture	Other open skull fracture with intracranial injury of other and unspecified nature, unspecified state of consciousness
S06890A	80390	Other specified intracranial injury without loss of consciousness, initial encounter	Other open skull fracture with intracranial injury of other and unspecified nature, unspecified state of consciousness
S069X0A	80390	Unspecified intracranial injury without loss of consciousness, initial encounter	Other open skull fracture with intracranial injury of other and unspecified nature, unspecified state of consciousness
S0291XB	80391	Unspecified fracture of skull, initial encounter for open fracture	Other open skull fracture with intracranial injury of other and unspecified nature, with no loss of consciousness
S06890A	80391	Other specified intracranial injury without loss of consciousness, initial encounter	Other open skull fracture with intracranial injury of other and unspecified nature, with no loss of consciousness
S069X0A	80391	Unspecified intracranial injury without loss of consciousness, initial encounter	Other open skull fracture with intracranial injury of other and unspecified nature, with no loss of consciousness
S0291XB	80392	Unspecified fracture of skull, initial encounter for open fracture	Other open skull fracture with intracranial injury of other and unspecified nature, with brief [less than one hour] loss of consciousness
S06891A	80392	Other specified intracranial injury with loss of consciousness of 30 minutes or less, initial encounter	Other open skull fracture with intracranial injury of other and unspecified nature, with brief [less than one hour] loss of consciousness
S06892A	80392	Other specified intracranial injury with loss of consciousness of 31 minutes to 59 minutes, initial encounter	Other open skull fracture with intracranial injury of other and unspecified nature, with brief [less than one hour] loss of consciousness
S069X1A	80392	Unspecified intracranial injury with loss of consciousness of 30 minutes or less, initial encounter	Other open skull fracture with intracranial injury of other and unspecified nature, with brief [less than one hour] loss of consciousness
S069X2A	80392	Unspecified intracranial injury with loss of consciousness of 31 minutes to 59 minutes, initial encounter	Other open skull fracture with intracranial injury of other and unspecified nature, with brief [less than one hour] loss of consciousness
S0291XB	80393	Unspecified fracture of skull, initial encounter for open fracture	Other open skull fracture with intracranial injury of other and unspecified nature, with moderate [1-24 hours] loss of consciousness
S06893A	80393	Other specified intracranial injury with loss of consciousness of 1 hour to 5 hours 59 minutes, initial encounter	Other open skull fracture with intracranial injury of other and unspecified nature, with moderate [1-24 hours] loss of consciousness
S06894A	80393	Other specified intracranial injury with loss of consciousness of 6 hours to 24 hours, initial encounter	Other open skull fracture with intracranial injury of other and unspecified nature, with moderate [1-24 hours] loss of consciousness
S069X3A	80393	Unspecified intracranial injury with loss of consciousness of 1 hour to 5 hours 59 minutes, initial encounter	Other open skull fracture with intracranial injury of other and unspecified nature, with moderate [1-24 hours] loss of consciousness
S069X4A	80393	Unspecified intracranial injury with loss of consciousness of 6 hours to 24 hours, initial encounter	Other open skull fracture with intracranial injury of other and unspecified nature, with moderate [1-24 hours] loss of consciousness
S0291XB	80394	Unspecified fracture of skull, initial encounter for open fracture	Other open skull fracture with intracranial injury of other and unspecified nature, with prolonged [more than 24 hours] loss of consciousness and return to pre-existing conscious level

Appendix A

Frailty markers

S06895A	80394	Other specified intracranial injury with loss of consciousness greater than 24 hours with return to pre-existing conscious level, initial encounter	Other open skull fracture with intracranial injury of other and unspecified nature, with prolonged [more than 24 hours] loss of consciousness and return to pre-existing conscious level
S069X5A	80394	Unspecified intracranial injury with loss of consciousness greater than 24 hours with return to pre-existing conscious level, initial encounter	Other open skull fracture with intracranial injury of other and unspecified nature, with prolonged [more than 24 hours] loss of consciousness and return to pre-existing conscious level
S0291XB	80395	Unspecified fracture of skull, initial encounter for open fracture	Other open skull fracture with intracranial injury of other and unspecified nature, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level
S06896A	80395	Other specified intracranial injury with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving, initial encounter	Other open skull fracture with intracranial injury of other and unspecified nature, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level
S06897A	80395	Other specified intracranial injury with loss of consciousness of any duration with death due to brain injury prior to regaining consciousness, initial encounter	Other open skull fracture with intracranial injury of other and unspecified nature, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level
S06898A	80395	Other specified intracranial injury with loss of consciousness of any duration with death due to other cause prior to regaining consciousness, initial encounter	Other open skull fracture with intracranial injury of other and unspecified nature, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level
S069X6A	80395	Unspecified intracranial injury with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving, initial encounter	Other open skull fracture with intracranial injury of other and unspecified nature, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level
S069X7A	80395	Unspecified intracranial injury with loss of consciousness of any duration with death due to brain injury prior to regaining consciousness, initial encounter	Other open skull fracture with intracranial injury of other and unspecified nature, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level
S069X8A	80395	Unspecified intracranial injury with loss of consciousness of any duration with death due to other cause prior to regaining consciousness, initial encounter	Other open skull fracture with intracranial injury of other and unspecified nature, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level
S0291XB	80396	Unspecified fracture of skull, initial encounter for open fracture	Other open skull fracture with intracranial injury of other and unspecified nature, with loss of consciousness of unspecified duration
S06899A	80396	Other specified intracranial injury with loss of consciousness of unspecified duration, initial encounter	Other open skull fracture with intracranial injury of other and unspecified nature, with loss of consciousness of unspecified duration
S069X9A	80396	Unspecified intracranial injury with loss of consciousness of unspecified duration, initial encounter	Other open skull fracture with intracranial injury of other and unspecified nature, with loss of consciousness of unspecified duration
S0291XB	80399	Unspecified fracture of skull, initial encounter for open fracture	Other open skull fracture with intracranial injury of other and unspecified nature, with concussion, unspecified
S06890A	80399	Other specified intracranial injury without loss of consciousness, initial encounter	Other open skull fracture with intracranial injury of other and unspecified nature, with concussion, unspecified
S069X0A	80399	Unspecified intracranial injury without loss of consciousness, initial encounter	Other open skull fracture with intracranial injury of other and unspecified nature, with concussion, unspecified
S0291XA	80400	Unspecified fracture of skull, initial encounter for closed fracture	Closed fractures involving skull or face with other bones, without mention of intracranial injury, unspecified state of consciousness
S0291XA	80401	Unspecified fracture of skull, initial encounter for closed fracture	Closed fractures involving skull or face with other bones, without mention of intracranial injury, with no loss of consciousness
S0291XA	80402	Unspecified fracture of skull, initial encounter for closed fracture	Closed fractures involving skull or face with other bones, without mention of intracranial injury, with brief [less than one hour] loss of consciousness

Appendix A

Frailty markers

S0291XA	80403	Unspecified fracture of skull, initial encounter for closed fracture	Closed fractures involving skull or face with other bones, without mention of intracranial injury, with moderate [1-24 hours] loss of consciousness
S0291XA	80404	Unspecified fracture of skull, initial encounter for closed fracture	Closed fractures involving skull or face with other bones, without mention of intracranial injury, with prolonged [more than 24 hours] loss of consciousness and return to pre-existing conscious level
S0291XA	80405	Unspecified fracture of skull, initial encounter for closed fracture	Closed fractures involving skull of face with other bones, without mention of intracranial injury, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level
S0291XA	80406	Unspecified fracture of skull, initial encounter for closed fracture	Closed fractures involving skull of face with other bones, without mention of intracranial injury, with loss of consciousness of unspecified duration
S0291XA	80409	Unspecified fracture of skull, initial encounter for closed fracture	Closed fractures involving skull of face with other bones, without mention of intracranial injury, with concussion, unspecified
S0291XA	80410	Unspecified fracture of skull, initial encounter for closed fracture	Closed fractures involving skull or face with other bones, with cerebral laceration and contusion, unspecified state of consciousness
S06330A	80410	Contusion and laceration of cerebrum, unspecified, without loss of consciousness, initial encounter	Closed fractures involving skull or face with other bones, with cerebral laceration and contusion, unspecified state of consciousness
S0291XA	80411	Unspecified fracture of skull, initial encounter for closed fracture	Closed fractures involving skull or face with other bones, with cerebral laceration and contusion, with no loss of consciousness
S06330A	80411	Contusion and laceration of cerebrum, unspecified, without loss of consciousness, initial encounter	Closed fractures involving skull or face with other bones, with cerebral laceration and contusion, with no loss of consciousness
S0291XA	80412	Unspecified fracture of skull, initial encounter for closed fracture	Closed fractures involving skull or face with other bones, with cerebral laceration and contusion, with brief [less than one hour] loss of consciousness
S06331A	80412	Contusion and laceration of cerebrum, unspecified, with loss of consciousness of 30 minutes or less, initial encounter	Closed fractures involving skull or face with other bones, with cerebral laceration and contusion, with brief [less than one hour] loss of consciousness
S06332A	80412	Contusion and laceration of cerebrum, unspecified, with loss of consciousness of 31 minutes to 59 minutes, initial encounter	Closed fractures involving skull or face with other bones, with cerebral laceration and contusion, with brief [less than one hour] loss of consciousness
S0291XA	80413	Unspecified fracture of skull, initial encounter for closed fracture	Closed fractures involving skull or face with other bones, with cerebral laceration and contusion, with moderate [1-24 hours] loss of consciousness
S06333A	80413	Contusion and laceration of cerebrum, unspecified, with loss of consciousness of 1 hour to 5 hours 59 minutes, initial encounter	Closed fractures involving skull or face with other bones, with cerebral laceration and contusion, with moderate [1-24 hours] loss of consciousness
S06334A	80413	Contusion and laceration of cerebrum, unspecified, with loss of consciousness of 6 hours to 24 hours, initial encounter	Closed fractures involving skull or face with other bones, with cerebral laceration and contusion, with moderate [1-24 hours] loss of consciousness
S0291XA	80414	Unspecified fracture of skull, initial encounter for closed fracture	Closed fractures involving skull or face with other bones, with cerebral laceration and contusion, with prolonged [more than 24 hours] loss of consciousness and return to pre-existing conscious level
S06335A	80414	Contusion and laceration of cerebrum, unspecified, with loss of consciousness greater than 24 hours with return to pre-existing conscious level, initial encounter	Closed fractures involving skull or face with other bones, with cerebral laceration and contusion, with prolonged [more than 24 hours] loss of consciousness and return to pre-existing conscious level
S0291XA	80415	Unspecified fracture of skull, initial encounter for closed fracture	Closed fractures involving skull or face with other bones, with cerebral laceration and contusion, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level

Appendix A

Frailty markers

S06336A	80415	Contusion and laceration of cerebrum, unspecified, with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving, initial encounter	Closed fractures involving skull or face with other bones, with cerebral laceration and contusion, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level
S06337A	80415	Contusion and laceration of cerebrum, unspecified, with loss of consciousness of any duration with death due to brain injury prior to regaining consciousness, initial encounter	Closed fractures involving skull or face with other bones, with cerebral laceration and contusion, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level
S06338A	80415	Contusion and laceration of cerebrum, unspecified, with loss of consciousness of any duration with death due to other cause prior to regaining consciousness, initial encounter	Closed fractures involving skull or face with other bones, with cerebral laceration and contusion, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level
S0291XA	80416	Unspecified fracture of skull, initial encounter for closed fracture	Closed fractures involving skull or face with other bones, with cerebral laceration and contusion, with loss of consciousness of unspecified duration
S06339A	80416	Contusion and laceration of cerebrum, unspecified, with loss of consciousness of unspecified duration, initial encounter	Closed fractures involving skull or face with other bones, with cerebral laceration and contusion, with loss of consciousness of unspecified duration
S0291XA	80419	Unspecified fracture of skull, initial encounter for closed fracture	Closed fractures involving skull or face with other bones, with cerebral laceration and contusion, with concussion, unspecified
S06330A	80419	Contusion and laceration of cerebrum, unspecified, without loss of consciousness, initial encounter	Closed fractures involving skull or face with other bones, with cerebral laceration and contusion, with concussion, unspecified
S0291XA	80420	Unspecified fracture of skull, initial encounter for closed fracture	Closed fractures involving skull or face with other bones with subarachnoid, subdural, and extradural hemorrhage, unspecified state of consciousness
S064X0A	80420	Epidural hemorrhage without loss of consciousness, initial encounter	Closed fractures involving skull or face with other bones with subarachnoid, subdural, and extradural hemorrhage, unspecified state of consciousness
S065X0A	80420	Traumatic subdural hemorrhage without loss of consciousness, initial encounter	Closed fractures involving skull or face with other bones with subarachnoid, subdural, and extradural hemorrhage, unspecified state of consciousness
S066X0A	80420	Traumatic subarachnoid hemorrhage without loss of consciousness, initial encounter	Closed fractures involving skull or face with other bones with subarachnoid, subdural, and extradural hemorrhage, unspecified state of consciousness
S0291XA	80421	Unspecified fracture of skull, initial encounter for closed fracture	Closed fractures involving skull or face with other bones with subarachnoid, subdural, and extradural hemorrhage, with no loss of consciousness
S064X0A	80421	Epidural hemorrhage without loss of consciousness, initial encounter	Closed fractures involving skull or face with other bones with subarachnoid, subdural, and extradural hemorrhage, with no loss of consciousness
S065X0A	80421	Traumatic subdural hemorrhage without loss of consciousness, initial encounter	Closed fractures involving skull or face with other bones with subarachnoid, subdural, and extradural hemorrhage, with no loss of consciousness
S066X0A	80421	Traumatic subarachnoid hemorrhage without loss of consciousness, initial encounter	Closed fractures involving skull or face with other bones with subarachnoid, subdural, and extradural hemorrhage, with no loss of consciousness
S0291XA	80422	Unspecified fracture of skull, initial encounter for closed fracture	Closed fractures involving skull or face with other bones with subarachnoid, subdural, and extradural hemorrhage, with brief [less than one hour] loss of consciousness
S064X1A	80422	Epidural hemorrhage with loss of consciousness of 30 minutes or less, initial encounter	Closed fractures involving skull or face with other bones with subarachnoid, subdural, and extradural hemorrhage, with brief [less than one hour] loss of consciousness
S064X2A	80422	Epidural hemorrhage with loss of consciousness of 31 minutes to 59 minutes, initial encounter	Closed fractures involving skull or face with other bones with subarachnoid, subdural, and extradural hemorrhage, with brief [less than one hour] loss of consciousness
S065X1A	80422	Traumatic subdural hemorrhage with loss of consciousness of 30 minutes or less, initial encounter	Closed fractures involving skull or face with other bones with subarachnoid, subdural, and extradural hemorrhage, with brief [less than one hour] loss of consciousness

Appendix A

Frailty markers

S065X2A	80422	Traumatic subdural hemorrhage with loss of consciousness of 31 minutes to 59 minutes, initial encounter	Closed fractures involving skull or face with other bones with subarachnoid, subdural, and extradural hemorrhage, with brief [less than one hour] loss of consciousness
S066X1A	80422	Traumatic subarachnoid hemorrhage with loss of consciousness of 30 minutes or less, initial encounter	Closed fractures involving skull or face with other bones with subarachnoid, subdural, and extradural hemorrhage, with brief [less than one hour] loss of consciousness
S066X2A	80422	Traumatic subarachnoid hemorrhage with loss of consciousness of 31 minutes to 59 minutes, initial encounter	Closed fractures involving skull or face with other bones with subarachnoid, subdural, and extradural hemorrhage, with brief [less than one hour] loss of consciousness
S0291XA	80423	Unspecified fracture of skull, initial encounter for closed fracture	Closed fractures involving skull or face with other bones with subarachnoid, subdural, and extradural hemorrhage, with moderate [1-24 hours] loss of consciousness
S064X3A	80423	Epidural hemorrhage with loss of consciousness of 1 hour to 5 hours 59 minutes, initial encounter	Closed fractures involving skull or face with other bones with subarachnoid, subdural, and extradural hemorrhage, with moderate [1-24 hours] loss of consciousness
S064X4A	80423	Epidural hemorrhage with loss of consciousness of 6 hours to 24 hours, initial encounter	Closed fractures involving skull or face with other bones with subarachnoid, subdural, and extradural hemorrhage, with moderate [1-24 hours] loss of consciousness
S065X3A	80423	Traumatic subdural hemorrhage with loss of consciousness of 1 hour to 5 hours 59 minutes, initial encounter	Closed fractures involving skull or face with other bones with subarachnoid, subdural, and extradural hemorrhage, with moderate [1-24 hours] loss of consciousness
S065X4A	80423	Traumatic subdural hemorrhage with loss of consciousness of 6 hours to 24 hours, initial encounter	Closed fractures involving skull or face with other bones with subarachnoid, subdural, and extradural hemorrhage, with moderate [1-24 hours] loss of consciousness
S066X3A	80423	Traumatic subarachnoid hemorrhage with loss of consciousness of 1 hour to 5 hours 59 minutes, initial encounter	Closed fractures involving skull or face with other bones with subarachnoid, subdural, and extradural hemorrhage, with moderate [1-24 hours] loss of consciousness
S066X4A	80423	Traumatic subarachnoid hemorrhage with loss of consciousness of 6 hours to 24 hours, initial encounter	Closed fractures involving skull or face with other bones with subarachnoid, subdural, and extradural hemorrhage, with moderate [1-24 hours] loss of consciousness
S0291XA	80424	Unspecified fracture of skull, initial encounter for closed fracture	Closed fractures involving skull or face with other bones with subarachnoid, subdural, and extradural hemorrhage, with prolonged [more than 24 hours] loss of consciousness and return to pre-existing conscious level
S064X5A	80424	Epidural hemorrhage with loss of consciousness greater than 24 hours with return to pre-existing conscious level, initial encounter	Closed fractures involving skull or face with other bones with subarachnoid, subdural, and extradural hemorrhage, with prolonged [more than 24 hours] loss of consciousness and return to pre-existing conscious level
S065X5A	80424	Traumatic subdural hemorrhage with loss of consciousness greater than 24 hours with return to pre-existing conscious level, initial encounter	Closed fractures involving skull or face with other bones with subarachnoid, subdural, and extradural hemorrhage, with prolonged [more than 24 hours] loss of consciousness and return to pre-existing conscious level
S066X5A	80424	Traumatic subarachnoid hemorrhage with loss of consciousness greater than 24 hours with return to pre-existing conscious level, initial encounter	Closed fractures involving skull or face with other bones with subarachnoid, subdural, and extradural hemorrhage, with prolonged [more than 24 hours] loss of consciousness and return to pre-existing conscious level
S0291XA	80425	Unspecified fracture of skull, initial encounter for closed fracture	Closed fractures involving skull or face with other bones with subarachnoid, subdural, and extradural hemorrhage, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level
S064X6A	80425	Epidural hemorrhage with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving, initial encounter	Closed fractures involving skull or face with other bones with subarachnoid, subdural, and extradural hemorrhage, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level
S064X7A	80425	Epidural hemorrhage with loss of consciousness of any duration with death due to brain injury prior to regaining consciousness, initial encounter	Closed fractures involving skull or face with other bones with subarachnoid, subdural, and extradural hemorrhage, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level
S064X8A	80425	Epidural hemorrhage with loss of consciousness of any duration with death due to other causes prior to regaining consciousness, initial encounter	Closed fractures involving skull or face with other bones with subarachnoid, subdural, and extradural hemorrhage, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level

Appendix A

Frailty markers

S065X6A	80425	Traumatic subdural hemorrhage with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving, initial encounter	Closed fractures involving skull or face with other bones with subarachnoid, subdural, and extradural hemorrhage, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level
S065X7A	80425	Traumatic subdural hemorrhage with loss of consciousness of any duration with death due to brain injury before regaining consciousness, initial encounter	Closed fractures involving skull or face with other bones with subarachnoid, subdural, and extradural hemorrhage, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level
S065X8A	80425	Traumatic subdural hemorrhage with loss of consciousness of any duration with death due to other cause before regaining consciousness, initial encounter	Closed fractures involving skull or face with other bones with subarachnoid, subdural, and extradural hemorrhage, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level
S066X6A	80425	Traumatic subarachnoid hemorrhage with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving, initial encounter	Closed fractures involving skull or face with other bones with subarachnoid, subdural, and extradural hemorrhage, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level
S066X7A	80425	Traumatic subarachnoid hemorrhage with loss of consciousness of any duration with death due to brain injury prior to regaining consciousness, initial encounter	Closed fractures involving skull or face with other bones with subarachnoid, subdural, and extradural hemorrhage, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level
S066X8A	80425	Traumatic subarachnoid hemorrhage with loss of consciousness of any duration with death due to other cause prior to regaining consciousness, initial encounter	Closed fractures involving skull or face with other bones with subarachnoid, subdural, and extradural hemorrhage, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level
S0291XA	80426	Unspecified fracture of skull, initial encounter for closed fracture	Closed fractures involving skull or face with other bones with subarachnoid, subdural, and extradural hemorrhage, with loss of consciousness of unspecified duration
S064X9A	80426	Epidural hemorrhage with loss of consciousness of unspecified duration, initial encounter	Closed fractures involving skull or face with other bones with subarachnoid, subdural, and extradural hemorrhage, with loss of consciousness of unspecified duration
S065X9A	80426	Traumatic subdural hemorrhage with loss of consciousness of unspecified duration, initial encounter	Closed fractures involving skull or face with other bones with subarachnoid, subdural, and extradural hemorrhage, with loss of consciousness of unspecified duration
S066X9A	80426	Traumatic subarachnoid hemorrhage with loss of consciousness of unspecified duration, initial encounter	Closed fractures involving skull or face with other bones with subarachnoid, subdural, and extradural hemorrhage, with loss of consciousness of unspecified duration
S0291XA	80429	Unspecified fracture of skull, initial encounter for closed fracture	Closed fractures involving skull or face with other bones with subarachnoid, subdural, and extradural hemorrhage, with concussion, unspecified
S064X0A	80429	Epidural hemorrhage without loss of consciousness, initial encounter	Closed fractures involving skull or face with other bones with subarachnoid, subdural, and extradural hemorrhage, with concussion, unspecified
S065X0A	80429	Traumatic subdural hemorrhage without loss of consciousness, initial encounter	Closed fractures involving skull or face with other bones with subarachnoid, subdural, and extradural hemorrhage, with concussion, unspecified
S066X0A	80429	Traumatic subarachnoid hemorrhage without loss of consciousness, initial encounter	Closed fractures involving skull or face with other bones with subarachnoid, subdural, and extradural hemorrhage, with concussion, unspecified
S0291XA	80430	Unspecified fracture of skull, initial encounter for closed fracture	Closed fractures involving skull or face with other bones, with other and unspecified intracranial hemorrhage, unspecified state of consciousness
S06360A	80430	Traumatic hemorrhage of cerebrum, unspecified, without loss of consciousness, initial encounter	Closed fractures involving skull or face with other bones, with other and unspecified intracranial hemorrhage, unspecified state of consciousness
S0291XA	80431	Unspecified fracture of skull, initial encounter for closed fracture	Closed fractures involving skull or face with other bones, with other and unspecified intracranial hemorrhage, with no loss of consciousness
S06360A	80431	Traumatic hemorrhage of cerebrum, unspecified, without loss of consciousness, initial encounter	Closed fractures involving skull or face with other bones, with other and unspecified intracranial hemorrhage, with no loss of consciousness

Appendix A

Frailty markers

S0291XA	80432	Unspecified fracture of skull, initial encounter for closed fracture	Closed fractures involving skull or face with other bones, with other and unspecified intracranial hemorrhage, with brief [less than one hour] loss of consciousness
S06361A	80432	Traumatic hemorrhage of cerebrum, unspecified, with loss of consciousness of 30 minutes or less, initial encounter	Closed fractures involving skull or face with other bones, with other and unspecified intracranial hemorrhage, with brief [less than one hour] loss of consciousness
S06362A	80432	Traumatic hemorrhage of cerebrum, unspecified, with loss of consciousness of 31 minutes to 59 minutes, initial encounter	Closed fractures involving skull or face with other bones, with other and unspecified intracranial hemorrhage, with brief [less than one hour] loss of consciousness
S0291XA	80433	Unspecified fracture of skull, initial encounter for closed fracture	Closed fractures involving skull or face with other bones, with other and unspecified intracranial hemorrhage, with moderate [1-24 hours] loss of consciousness
S06363A	80433	Traumatic hemorrhage of cerebrum, unspecified, with loss of consciousness of 1 hours to 5 hours 59 minutes, initial encounter	Closed fractures involving skull or face with other bones, with other and unspecified intracranial hemorrhage, with moderate [1-24 hours] loss of consciousness
S06364A	80433	Traumatic hemorrhage of cerebrum, unspecified, with loss of consciousness of 6 hours to 24 hours, initial encounter	Closed fractures involving skull or face with other bones, with other and unspecified intracranial hemorrhage, with moderate [1-24 hours] loss of consciousness
S0291XA	80434	Unspecified fracture of skull, initial encounter for closed fracture	Closed fractures involving skull or face with other bones, with other and unspecified intracranial hemorrhage, with prolonged [more than 24 hours] loss of consciousness and return to pre-existing conscious level
S06365A	80434	Traumatic hemorrhage of cerebrum, unspecified, with loss of consciousness greater than 24 hours with return to pre-existing conscious level, initial encounter	Closed fractures involving skull or face with other bones, with other and unspecified intracranial hemorrhage, with prolonged [more than 24 hours] loss of consciousness and return to pre-existing conscious level
S0291XA	80435	Unspecified fracture of skull, initial encounter for closed fracture	Closed fractures involving skull or face with other bones, with other and unspecified intracranial hemorrhage, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level
S06366A	80435	Traumatic hemorrhage of cerebrum, unspecified, with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving, initial encounter	Closed fractures involving skull or face with other bones, with other and unspecified intracranial hemorrhage, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level
S06367A	80435	Traumatic hemorrhage of cerebrum, unspecified, with loss of consciousness of any duration with death due to brain injury prior to regaining consciousness, initial encounter	Closed fractures involving skull or face with other bones, with other and unspecified intracranial hemorrhage, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level
S06368A	80435	Traumatic hemorrhage of cerebrum, unspecified, with loss of consciousness of any duration with death due to other cause prior to regaining consciousness, initial encounter	Closed fractures involving skull or face with other bones, with other and unspecified intracranial hemorrhage, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level
S0291XA	80436	Unspecified fracture of skull, initial encounter for closed fracture	Closed fractures involving skull or face with other bones, with other and unspecified intracranial hemorrhage, with loss of consciousness of unspecified duration
S06369A	80436	Traumatic hemorrhage of cerebrum, unspecified, with loss of consciousness of unspecified duration, initial encounter	Closed fractures involving skull or face with other bones, with other and unspecified intracranial hemorrhage, with loss of consciousness of unspecified duration
S0291XA	80439	Unspecified fracture of skull, initial encounter for closed fracture	Closed fractures involving skull or face with other bones, with other and unspecified intracranial hemorrhage, with concussion, unspecified
S06360A	80439	Traumatic hemorrhage of cerebrum, unspecified, without loss of consciousness, initial encounter	Closed fractures involving skull or face with other bones, with other and unspecified intracranial hemorrhage, with concussion, unspecified
S0291XA	80440	Unspecified fracture of skull, initial encounter for closed fracture	Closed fractures involving skull or face with other bones, with intracranial injury of other and unspecified nature, unspecified state of consciousness
S06890A	80440	Other specified intracranial injury without loss of consciousness, initial encounter	Closed fractures involving skull or face with other bones, with intracranial injury of other and unspecified nature, unspecified state of consciousness

Appendix A

Frailty markers

S069X0A	80440	Unspecified intracranial injury without loss of consciousness, initial encounter	Closed fractures involving skull or face with other bones, with intracranial injury of other and unspecified nature, unspecified state of consciousness
S0291XA	80441	Unspecified fracture of skull, initial encounter for closed fracture	Closed fractures involving skull or face with other bones, with intracranial injury of other and unspecified nature, with no loss of consciousness
S06890A	80441	Other specified intracranial injury without loss of consciousness, initial encounter	Closed fractures involving skull or face with other bones, with intracranial injury of other and unspecified nature, with no loss of consciousness
S069X0A	80441	Unspecified intracranial injury without loss of consciousness, initial encounter	Closed fractures involving skull or face with other bones, with intracranial injury of other and unspecified nature, with no loss of consciousness
S0291XA	80442	Unspecified fracture of skull, initial encounter for closed fracture	Closed fractures involving skull or face with other bones, with intracranial injury of other and unspecified nature, with brief [less than one hour] loss of consciousness
S06891A	80442	Other specified intracranial injury with loss of consciousness of 30 minutes or less, initial encounter	Closed fractures involving skull or face with other bones, with intracranial injury of other and unspecified nature, with brief [less than one hour] loss of consciousness
S06892A	80442	Other specified intracranial injury with loss of consciousness of 31 minutes to 59 minutes, initial encounter	Closed fractures involving skull or face with other bones, with intracranial injury of other and unspecified nature, with brief [less than one hour] loss of consciousness
S069X1A	80442	Unspecified intracranial injury with loss of consciousness of 30 minutes or less, initial encounter	Closed fractures involving skull or face with other bones, with intracranial injury of other and unspecified nature, with brief [less than one hour] loss of consciousness
S069X2A	80442	Unspecified intracranial injury with loss of consciousness of 31 minutes to 59 minutes, initial encounter	Closed fractures involving skull or face with other bones, with intracranial injury of other and unspecified nature, with brief [less than one hour] loss of consciousness
S0291XA	80443	Unspecified fracture of skull, initial encounter for closed fracture	Closed fractures involving skull or face with other bones, with intracranial injury of other and unspecified nature, with moderate [1-24 hours] loss of consciousness
S06893A	80443	Other specified intracranial injury with loss of consciousness of 1 hour to 5 hours 59 minutes, initial encounter	Closed fractures involving skull or face with other bones, with intracranial injury of other and unspecified nature, with moderate [1-24 hours] loss of consciousness
S06894A	80443	Other specified intracranial injury with loss of consciousness of 6 hours to 24 hours, initial encounter	Closed fractures involving skull or face with other bones, with intracranial injury of other and unspecified nature, with moderate [1-24 hours] loss of consciousness
S069X4A	80443	Unspecified intracranial injury with loss of consciousness of 6 hours to 24 hours, initial encounter	Closed fractures involving skull or face with other bones, with intracranial injury of other and unspecified nature, with moderate [1-24 hours] loss of consciousness
S0291XA	80444	Unspecified fracture of skull, initial encounter for closed fracture	Closed fractures involving skull or face with other bones, with intracranial injury of other and unspecified nature, with prolonged [more than 24 hours] loss of consciousness and return to pre-existing conscious level
S06895A	80444	Other specified intracranial injury with loss of consciousness greater than 24 hours with return to pre-existing conscious level, initial encounter	Closed fractures involving skull or face with other bones, with intracranial injury of other and unspecified nature, with prolonged [more than 24 hours] loss of consciousness and return to pre-existing conscious level
S069X5A	80444	Unspecified intracranial injury with loss of consciousness greater than 24 hours with return to pre-existing conscious level, initial encounter	Closed fractures involving skull or face with other bones, with intracranial injury of other and unspecified nature, with prolonged [more than 24 hours] loss of consciousness and return to pre-existing conscious level
S0291XA	80445	Unspecified fracture of skull, initial encounter for closed fracture	Closed fractures involving skull or face with other bones, with intracranial injury of other and unspecified nature, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level
S06896A	80445	Other specified intracranial injury with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving, initial encounter	Closed fractures involving skull or face with other bones, with intracranial injury of other and unspecified nature, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level

Appendix A

Frailty markers

S06897A	80445	Other specified intracranial injury with loss of consciousness of any duration with death due to brain injury prior to regaining consciousness, initial encounter	Closed fractures involving skull or face with other bones, with intracranial injury of other and unspecified nature, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level
S06898A	80445	Other specified intracranial injury with loss of consciousness of any duration with death due to other cause prior to regaining consciousness, initial encounter	Closed fractures involving skull or face with other bones, with intracranial injury of other and unspecified nature, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level
S069X6A	80445	Unspecified intracranial injury with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving, initial encounter	Closed fractures involving skull or face with other bones, with intracranial injury of other and unspecified nature, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level
S069X7A	80445	Unspecified intracranial injury with loss of consciousness of any duration with death due to brain injury prior to regaining consciousness, initial encounter	Closed fractures involving skull or face with other bones, with intracranial injury of other and unspecified nature, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level
S069X8A	80445	Unspecified intracranial injury with loss of consciousness of any duration with death due to other cause prior to regaining consciousness, initial encounter	Closed fractures involving skull or face with other bones, with intracranial injury of other and unspecified nature, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level
S0291XA	80446	Unspecified fracture of skull, initial encounter for closed fracture	Closed fractures involving skull or face with other bones, with intracranial injury of other and unspecified nature, with loss of consciousness of unspecified duration
S06899A	80446	Other specified intracranial injury with loss of consciousness of unspecified duration, initial encounter	Closed fractures involving skull or face with other bones, with intracranial injury of other and unspecified nature, with loss of consciousness of unspecified duration
S069X9A	80446	Unspecified intracranial injury with loss of consciousness of unspecified duration, initial encounter	Closed fractures involving skull or face with other bones, with intracranial injury of other and unspecified nature, with loss of consciousness of unspecified duration
S0291XA	80449	Unspecified fracture of skull, initial encounter for closed fracture	Closed fractures involving skull or face with other bones, with intracranial injury of other and unspecified nature, with concussion, unspecified
S06890A	80449	Other specified intracranial injury without loss of consciousness, initial encounter	Closed fractures involving skull or face with other bones, with intracranial injury of other and unspecified nature, with concussion, unspecified
S069X9A	80449	Unspecified intracranial injury with loss of consciousness of unspecified duration, initial encounter	Closed fractures involving skull or face with other bones, with intracranial injury of other and unspecified nature, with concussion, unspecified
S0291XB	80450	Unspecified fracture of skull, initial encounter for open fracture	Open fractures involving skull or face with other bones, without mention of intracranial injury, unspecified state of consciousness
S0291XB	80451	Unspecified fracture of skull, initial encounter for open fracture	Open fractures involving skull or face with other bones, without mention of intracranial injury, with no loss of consciousness
S0291XB	80452	Unspecified fracture of skull, initial encounter for open fracture	Open fractures involving skull or face with other bones, without mention of intracranial injury, with brief [less than one hour] loss of consciousness
S0291XB	80453	Unspecified fracture of skull, initial encounter for open fracture	Open fractures involving skull or face with other bones, without mention of intracranial injury, with moderate [1-24 hours] loss of consciousness
S0291XB	80454	Unspecified fracture of skull, initial encounter for open fracture	Open fractures involving skull or face with other bones, without mention of intracranial injury, with prolonged [more than 24 hours] loss of consciousness and return to pre-existing conscious level
S0291XB	80455	Unspecified fracture of skull, initial encounter for open fracture	Open fractures involving skull or face with other bones, without mention of intracranial injury, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level
S0291XB	80456	Unspecified fracture of skull, initial encounter for open fracture	Open fractures involving skull or face with other bones, without mention of intracranial injury, with loss of consciousness of unspecified duration

Appendix A

Frailty markers

S0291XB	80459	Unspecified fracture of skull, initial encounter for open fracture	Open fractures involving skull or face with other bones, without mention of intracranial injury, with concussion, unspecified
S0291XB	80460	Unspecified fracture of skull, initial encounter for open fracture	Open fractures involving skull or face with other bones, with cerebral laceration and contusion, unspecified state of consciousness
S06330A	80460	Contusion and laceration of cerebrum, unspecified, without loss of consciousness, initial encounter	Open fractures involving skull or face with other bones, with cerebral laceration and contusion, unspecified state of consciousness
S0291XB	80461	Unspecified fracture of skull, initial encounter for open fracture	Open fractures involving skull or face with other bones, with cerebral laceration and contusion, with no loss of consciousness
S06330A	80461	Contusion and laceration of cerebrum, unspecified, without loss of consciousness, initial encounter	Open fractures involving skull or face with other bones, with cerebral laceration and contusion, with no loss of consciousness
S0291XB	80462	Unspecified fracture of skull, initial encounter for open fracture	Open fractures involving skull or face with other bones, with cerebral laceration and contusion, with brief [less than one hour] loss of consciousness
S06331A	80462	Contusion and laceration of cerebrum, unspecified, with loss of consciousness of 30 minutes or less, initial encounter	Open fractures involving skull or face with other bones, with cerebral laceration and contusion, with brief [less than one hour] loss of consciousness
S06332A	80462	Contusion and laceration of cerebrum, unspecified, with loss of consciousness of 31 minutes to 59 minutes, initial encounter	Open fractures involving skull or face with other bones, with cerebral laceration and contusion, with brief [less than one hour] loss of consciousness
S0291XB	80463	Unspecified fracture of skull, initial encounter for open fracture	Open fractures involving skull or face with other bones, with cerebral laceration and contusion, with moderate [1-24 hours] loss of consciousness
S06333A	80463	Contusion and laceration of cerebrum, unspecified, with loss of consciousness of 1 hour to 5 hours 59 minutes, initial encounter	Open fractures involving skull or face with other bones, with cerebral laceration and contusion, with moderate [1-24 hours] loss of consciousness
S06334A	80463	Contusion and laceration of cerebrum, unspecified, with loss of consciousness of 6 hours to 24 hours, initial encounter	Open fractures involving skull or face with other bones, with cerebral laceration and contusion, with moderate [1-24 hours] loss of consciousness
S0291XB	80464	Unspecified fracture of skull, initial encounter for open fracture	Open fractures involving skull or face with other bones, with cerebral laceration and contusion, with prolonged [more than 24 hours] loss of consciousness and return to pre-existing conscious level
S06335A	80464	Contusion and laceration of cerebrum, unspecified, with loss of consciousness greater than 24 hours with return to pre-existing conscious level, initial encounter	Open fractures involving skull or face with other bones, with cerebral laceration and contusion, with prolonged [more than 24 hours] loss of consciousness and return to pre-existing conscious level
S0291XB	80465	Unspecified fracture of skull, initial encounter for open fracture	Open fractures involving skull or face with other bones, with cerebral laceration and contusion, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level
S06336A	80465	Contusion and laceration of cerebrum, unspecified, with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving, initial encounter	Open fractures involving skull or face with other bones, with cerebral laceration and contusion, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level
S06337A	80465	Contusion and laceration of cerebrum, unspecified, with loss of consciousness of any duration with death due to brain injury prior to regaining consciousness, initial encounter	Open fractures involving skull or face with other bones, with cerebral laceration and contusion, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level
S06338A	80465	Contusion and laceration of cerebrum, unspecified, with loss of consciousness of any duration with death due to other cause prior to regaining consciousness, initial encounter	Open fractures involving skull or face with other bones, with cerebral laceration and contusion, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level
S0291XB	80466	Unspecified fracture of skull, initial encounter for open fracture	Open fractures involving skull or face with other bones, with cerebral laceration and contusion, with loss of consciousness of unspecified duration

Appendix A

Frailty markers

S06339A	80466	Contusion and laceration of cerebrum, unspecified, with loss of consciousness of unspecified duration, initial encounter	Open fractures involving skull or face with other bones, with cerebral laceration and contusion, with loss of consciousness of unspecified duration
S0291XB	80469	Unspecified fracture of skull, initial encounter for open fracture	Open fractures involving skull or face with other bones, with cerebral laceration and contusion, with concussion, unspecified
S06330A	80469	Contusion and laceration of cerebrum, unspecified, without loss of consciousness, initial encounter	Open fractures involving skull or face with other bones, with cerebral laceration and contusion, with concussion, unspecified
S0291XB	80470	Unspecified fracture of skull, initial encounter for open fracture	Open fractures involving skull or face with other bones with subarachnoid, subdural, and extradural hemorrhage, unspecified state of consciousness
S064X0A	80470	Epidural hemorrhage without loss of consciousness, initial encounter	Open fractures involving skull or face with other bones with subarachnoid, subdural, and extradural hemorrhage, unspecified state of consciousness
S065X0A	80470	Traumatic subdural hemorrhage without loss of consciousness, initial encounter	Open fractures involving skull or face with other bones with subarachnoid, subdural, and extradural hemorrhage, unspecified state of consciousness
S066X0A	80470	Traumatic subarachnoid hemorrhage without loss of consciousness, initial encounter	Open fractures involving skull or face with other bones with subarachnoid, subdural, and extradural hemorrhage, unspecified state of consciousness
S0291XB	80471	Unspecified fracture of skull, initial encounter for open fracture	Open fractures involving skull or face with other bones with subarachnoid, subdural, and extradural hemorrhage, with no loss of consciousness
S064X0A	80471	Epidural hemorrhage without loss of consciousness, initial encounter	Open fractures involving skull or face with other bones with subarachnoid, subdural, and extradural hemorrhage, with no loss of consciousness
S065X0A	80471	Traumatic subdural hemorrhage without loss of consciousness, initial encounter	Open fractures involving skull or face with other bones with subarachnoid, subdural, and extradural hemorrhage, with no loss of consciousness
S066X0A	80471	Traumatic subarachnoid hemorrhage without loss of consciousness, initial encounter	Open fractures involving skull or face with other bones with subarachnoid, subdural, and extradural hemorrhage, with no loss of consciousness
S0291XB	80472	Unspecified fracture of skull, initial encounter for open fracture	Open fractures involving skull or face with other bones with subarachnoid, subdural, and extradural hemorrhage, with brief [less than one hour] loss of consciousness
S064X1A	80472	Epidural hemorrhage with loss of consciousness of 30 minutes or less, initial encounter	Open fractures involving skull or face with other bones with subarachnoid, subdural, and extradural hemorrhage, with brief [less than one hour] loss of consciousness
S064X2A	80472	Epidural hemorrhage with loss of consciousness of 31 minutes to 59 minutes, initial encounter	Open fractures involving skull or face with other bones with subarachnoid, subdural, and extradural hemorrhage, with brief [less than one hour] loss of consciousness
S065X1A	80472	Traumatic subdural hemorrhage with loss of consciousness of 30 minutes or less, initial encounter	Open fractures involving skull or face with other bones with subarachnoid, subdural, and extradural hemorrhage, with brief [less than one hour] loss of consciousness
S065X2A	80472	Traumatic subdural hemorrhage with loss of consciousness of 31 minutes to 59 minutes, initial encounter	Open fractures involving skull or face with other bones with subarachnoid, subdural, and extradural hemorrhage, with brief [less than one hour] loss of consciousness
S066X1A	80472	Traumatic subarachnoid hemorrhage with loss of consciousness of 30 minutes or less, initial encounter	Open fractures involving skull or face with other bones with subarachnoid, subdural, and extradural hemorrhage, with brief [less than one hour] loss of consciousness
S066X2A	80472	Traumatic subarachnoid hemorrhage with loss of consciousness of 31 minutes to 59 minutes, initial encounter	Open fractures involving skull or face with other bones with subarachnoid, subdural, and extradural hemorrhage, with brief [less than one hour] loss of consciousness
S0291XB	80473	Unspecified fracture of skull, initial encounter for open fracture	Open fractures involving skull or face with other bones with subarachnoid, subdural, and extradural hemorrhage, with moderate [1-24 hours] loss of consciousness
S064X3A	80473	Epidural hemorrhage with loss of consciousness of 1 hour to 5 hours 59 minutes, initial encounter	Open fractures involving skull or face with other bones with subarachnoid, subdural, and extradural hemorrhage, with moderate [1-24 hours] loss of consciousness

Appendix A

Frailty markers

S064X4A	80473	Epidural hemorrhage with loss of consciousness of 6 hours to 24 hours, initial encounter	Open fractures involving skull or face with other bones with subarachnoid, subdural, and extradural hemorrhage, with moderate [1-24 hours] loss of consciousness
S065X3A	80473	Traumatic subdural hemorrhage with loss of consciousness of 1 hour to 5 hours 59 minutes, initial encounter	Open fractures involving skull or face with other bones with subarachnoid, subdural, and extradural hemorrhage, with moderate [1-24 hours] loss of consciousness
S065X4A	80473	Traumatic subdural hemorrhage with loss of consciousness of 6 hours to 24 hours, initial encounter	Open fractures involving skull or face with other bones with subarachnoid, subdural, and extradural hemorrhage, with moderate [1-24 hours] loss of consciousness
S066X3A	80473	Traumatic subarachnoid hemorrhage with loss of consciousness of 1 hour to 5 hours 59 minutes, initial encounter	Open fractures involving skull or face with other bones with subarachnoid, subdural, and extradural hemorrhage, with moderate [1-24 hours] loss of consciousness
S066X4A	80473	Traumatic subarachnoid hemorrhage with loss of consciousness of 6 hours to 24 hours, initial encounter	Open fractures involving skull or face with other bones with subarachnoid, subdural, and extradural hemorrhage, with moderate [1-24 hours] loss of consciousness
S0291XB	80474	Unspecified fracture of skull, initial encounter for open fracture	Open fractures involving skull or face with other bones with subarachnoid, subdural, and extradural hemorrhage, with prolonged [more than 24 hours] loss of consciousness and return to pre-existing conscious level
S064X5A	80474	Epidural hemorrhage with loss of consciousness greater than 24 hours with return to pre-existing conscious level, initial encounter	Open fractures involving skull or face with other bones with subarachnoid, subdural, and extradural hemorrhage, with prolonged [more than 24 hours] loss of consciousness and return to pre-existing conscious level
S065X5A	80474	Traumatic subdural hemorrhage with loss of consciousness greater than 24 hours with return to pre-existing conscious level, initial encounter	Open fractures involving skull or face with other bones with subarachnoid, subdural, and extradural hemorrhage, with prolonged [more than 24 hours] loss of consciousness and return to pre-existing conscious level
S066X5A	80474	Traumatic subarachnoid hemorrhage with loss of consciousness greater than 24 hours with return to pre-existing conscious level, initial encounter	Open fractures involving skull or face with other bones with subarachnoid, subdural, and extradural hemorrhage, with prolonged [more than 24 hours] loss of consciousness and return to pre-existing conscious level
S0291XB	80475	Unspecified fracture of skull, initial encounter for open fracture	Open fractures involving skull or face with other bones with subarachnoid, subdural, and extradural hemorrhage, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level
S064X6A	80475	Epidural hemorrhage with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving, initial encounter	Open fractures involving skull or face with other bones with subarachnoid, subdural, and extradural hemorrhage, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level
S064X7A	80475	Epidural hemorrhage with loss of consciousness of any duration with death due to brain injury prior to regaining consciousness, initial encounter	Open fractures involving skull or face with other bones with subarachnoid, subdural, and extradural hemorrhage, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level
S064X8A	80475	Epidural hemorrhage with loss of consciousness of any duration with death due to other causes prior to regaining consciousness, initial encounter	Open fractures involving skull or face with other bones with subarachnoid, subdural, and extradural hemorrhage, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level
S065X6A	80475	Traumatic subdural hemorrhage with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving, initial encounter	Open fractures involving skull or face with other bones with subarachnoid, subdural, and extradural hemorrhage, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level
S065X7A	80475	Traumatic subdural hemorrhage with loss of consciousness of any duration with death due to brain injury before regaining consciousness, initial encounter	Open fractures involving skull or face with other bones with subarachnoid, subdural, and extradural hemorrhage, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level
S065X8A	80475	Traumatic subdural hemorrhage with loss of consciousness of any duration with death due to other cause before regaining consciousness, initial encounter	Open fractures involving skull or face with other bones with subarachnoid, subdural, and extradural hemorrhage, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level

Appendix A

Frailty markers

S066X6A	80475	Traumatic subarachnoid hemorrhage with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving, initial encounter	Open fractures involving skull or face with other bones with subarachnoid, subdural, and extradural hemorrhage, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level
S066X7A	80475	Traumatic subarachnoid hemorrhage with loss of consciousness of any duration with death due to brain injury prior to regaining consciousness, initial encounter	Open fractures involving skull or face with other bones with subarachnoid, subdural, and extradural hemorrhage, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level
S066X8A	80475	Traumatic subarachnoid hemorrhage with loss of consciousness of any duration with death due to other cause prior to regaining consciousness, initial encounter	Open fractures involving skull or face with other bones with subarachnoid, subdural, and extradural hemorrhage, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level
S0291XB	80476	Unspecified fracture of skull, initial encounter for open fracture	Open fractures involving skull or face with other bones with subarachnoid, subdural, and extradural hemorrhage, with loss of consciousness of unspecified duration
S064X9A	80476	Epidural hemorrhage with loss of consciousness of unspecified duration, initial encounter	Open fractures involving skull or face with other bones with subarachnoid, subdural, and extradural hemorrhage, with loss of consciousness of unspecified duration
S065X9A	80476	Traumatic subdural hemorrhage with loss of consciousness of unspecified duration, initial encounter	Open fractures involving skull or face with other bones with subarachnoid, subdural, and extradural hemorrhage, with loss of consciousness of unspecified duration
S066X9A	80476	Traumatic subarachnoid hemorrhage with loss of consciousness of unspecified duration, initial encounter	Open fractures involving skull or face with other bones with subarachnoid, subdural, and extradural hemorrhage, with loss of consciousness of unspecified duration
S0291XB	80479	Unspecified fracture of skull, initial encounter for open fracture	Open fractures involving skull or face with other bones with subarachnoid, subdural, and extradural hemorrhage, with concussion, unspecified
S064X0A	80479	Epidural hemorrhage without loss of consciousness, initial encounter	Open fractures involving skull or face with other bones with subarachnoid, subdural, and extradural hemorrhage, with concussion, unspecified
S065X0A	80479	Traumatic subdural hemorrhage without loss of consciousness, initial encounter	Open fractures involving skull or face with other bones with subarachnoid, subdural, and extradural hemorrhage, with concussion, unspecified
S066X0A	80479	Traumatic subarachnoid hemorrhage without loss of consciousness, initial encounter	Open fractures involving skull or face with other bones with subarachnoid, subdural, and extradural hemorrhage, with concussion, unspecified
S0291XB	80480	Unspecified fracture of skull, initial encounter for open fracture	Open fractures involving skull or face with other bones, with other and unspecified intracranial hemorrhage, unspecified state of consciousness
S06360A	80480	Traumatic hemorrhage of cerebrum, unspecified, without loss of consciousness, initial encounter	Open fractures involving skull or face with other bones, with other and unspecified intracranial hemorrhage, unspecified state of consciousness
S0291XB	80481	Unspecified fracture of skull, initial encounter for open fracture	Open fractures involving skull or face with other bones, with other and unspecified intracranial hemorrhage, with no loss of consciousness
S06360A	80481	Traumatic hemorrhage of cerebrum, unspecified, without loss of consciousness, initial encounter	Open fractures involving skull or face with other bones, with other and unspecified intracranial hemorrhage, with no loss of consciousness
S0291XB	80482	Unspecified fracture of skull, initial encounter for open fracture	Open fractures involving skull or face with other bones, with other and unspecified intracranial hemorrhage, with brief [less than one hour] loss of consciousness
S06361A	80482	Traumatic hemorrhage of cerebrum, unspecified, with loss of consciousness of 30 minutes or less, initial encounter	Open fractures involving skull or face with other bones, with other and unspecified intracranial hemorrhage, with brief [less than one hour] loss of consciousness
S06362A	80482	Traumatic hemorrhage of cerebrum, unspecified, with loss of consciousness of 31 minutes to 59 minutes, initial encounter	Open fractures involving skull or face with other bones, with other and unspecified intracranial hemorrhage, with brief [less than one hour] loss of consciousness
S0291XB	80483	Unspecified fracture of skull, initial encounter for open fracture	Open fractures involving skull or face with other bones, with other and unspecified intracranial hemorrhage, with moderate [1-24 hours] loss of consciousness

Appendix A

Frailty markers

S06363A	80483	Traumatic hemorrhage of cerebrum, unspecified, with loss of consciousness of 1 hours to 5 hours 59 minutes, initial encounter	Open fractures involving skull or face with other bones, with other and unspecified intracranial hemorrhage, with moderate [1-24 hours] loss of consciousness
S06364A	80483	Traumatic hemorrhage of cerebrum, unspecified, with loss of consciousness of 6 hours to 24 hours, initial encounter	Open fractures involving skull or face with other bones, with other and unspecified intracranial hemorrhage, with moderate [1-24 hours] loss of consciousness
S0291XB	80484	Unspecified fracture of skull, initial encounter for open fracture	Open fractures involving skull or face with other bones, with other and unspecified intracranial hemorrhage, with prolonged [more than 24 hours] loss of consciousness and return to pre-existing conscious level
S06365A	80484	Traumatic hemorrhage of cerebrum, unspecified, with loss of consciousness greater than 24 hours with return to pre-existing conscious level, initial encounter	Open fractures involving skull or face with other bones, with other and unspecified intracranial hemorrhage, with prolonged [more than 24 hours] loss of consciousness and return to pre-existing conscious level
S0291XB	80485	Unspecified fracture of skull, initial encounter for open fracture	Open fractures involving skull or face with other bones, with other and unspecified intracranial hemorrhage, with prolonged [more than 24 hours] loss consciousness, without return to pre-existing conscious level
S06366A	80485	Traumatic hemorrhage of cerebrum, unspecified, with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving, initial encounter	Open fractures involving skull or face with other bones, with other and unspecified intracranial hemorrhage, with prolonged [more than 24 hours] loss consciousness, without return to pre-existing conscious level
S06367A	80485	Traumatic hemorrhage of cerebrum, unspecified, with loss of consciousness of any duration with death due to brain injury prior to regaining consciousness, initial encounter	Open fractures involving skull or face with other bones, with other and unspecified intracranial hemorrhage, with prolonged [more than 24 hours] loss consciousness, without return to pre-existing conscious level
S06368A	80485	Traumatic hemorrhage of cerebrum, unspecified, with loss of consciousness of any duration with death due to other cause prior to regaining consciousness, initial encounter	Open fractures involving skull or face with other bones, with other and unspecified intracranial hemorrhage, with prolonged [more than 24 hours] loss consciousness, without return to pre-existing conscious level
S0291XB	80486	Unspecified fracture of skull, initial encounter for open fracture	Open fractures involving skull or face with other bones, with other and unspecified intracranial hemorrhage, with loss of consciousness of unspecified duration
S06369A	80486	Traumatic hemorrhage of cerebrum, unspecified, with loss of consciousness of unspecified duration, initial encounter	Open fractures involving skull or face with other bones, with other and unspecified intracranial hemorrhage, with loss of consciousness of unspecified duration
S0291XB	80489	Unspecified fracture of skull, initial encounter for open fracture	Open fractures involving skull or face with other bones, with other and unspecified intracranial hemorrhage, with concussion, unspecified
S06360A	80489	Traumatic hemorrhage of cerebrum, unspecified, without loss of consciousness, initial encounter	Open fractures involving skull or face with other bones, with other and unspecified intracranial hemorrhage, with concussion, unspecified
S0291XB	80490	Unspecified fracture of skull, initial encounter for open fracture	Open fractures involving skull or face with other bones, with intracranial injury of other and unspecified nature, unspecified state of consciousness
S06890A	80490	Other specified intracranial injury without loss of consciousness, initial encounter	Open fractures involving skull or face with other bones, with intracranial injury of other and unspecified nature, unspecified state of consciousness
S069X0A	80490	Unspecified intracranial injury without loss of consciousness, initial encounter	Open fractures involving skull or face with other bones, with intracranial injury of other and unspecified nature, unspecified state of consciousness
S0291XB	80491	Unspecified fracture of skull, initial encounter for open fracture	Open fractures involving skull or face with other bones, with intracranial injury of other and unspecified nature, with no loss of consciousness
S06890A	80491	Other specified intracranial injury without loss of consciousness, initial encounter	Open fractures involving skull or face with other bones, with intracranial injury of other and unspecified nature, with no loss of consciousness
S069X0A	80491	Unspecified intracranial injury without loss of consciousness, initial encounter	Open fractures involving skull or face with other bones, with intracranial injury of other and unspecified nature, with no loss of consciousness

Appendix A

Frailty markers

S0291XB	80492	Unspecified fracture of skull, initial encounter for open fracture	Open fractures involving skull or face with other bones, with intracranial injury of other and unspecified nature, with brief [less than one hour] loss of consciousness
S06891A	80492	Other specified intracranial injury with loss of consciousness of 30 minutes or less, initial encounter	Open fractures involving skull or face with other bones, with intracranial injury of other and unspecified nature, with brief [less than one hour] loss of consciousness
S06892A	80492	Other specified intracranial injury with loss of consciousness of 31 minutes to 59 minutes, initial encounter	Open fractures involving skull or face with other bones, with intracranial injury of other and unspecified nature, with brief [less than one hour] loss of consciousness
S069X1A	80492	Unspecified intracranial injury with loss of consciousness of 30 minutes or less, initial encounter	Open fractures involving skull or face with other bones, with intracranial injury of other and unspecified nature, with brief [less than one hour] loss of consciousness
S069X2A	80492	Unspecified intracranial injury with loss of consciousness of 31 minutes to 59 minutes, initial encounter	Open fractures involving skull or face with other bones, with intracranial injury of other and unspecified nature, with brief [less than one hour] loss of consciousness
S0291XB	80493	Unspecified fracture of skull, initial encounter for open fracture	Open fractures involving skull or face with other bones, with intracranial injury of other and unspecified nature, with moderate [1-24 hours] loss of consciousness
S06893A	80493	Other specified intracranial injury with loss of consciousness of 1 hour to 5 hours 59 minutes, initial encounter	Open fractures involving skull or face with other bones, with intracranial injury of other and unspecified nature, with moderate [1-24 hours] loss of consciousness
S06894A	80493	Other specified intracranial injury with loss of consciousness of 6 hours to 24 hours, initial encounter	Open fractures involving skull or face with other bones, with intracranial injury of other and unspecified nature, with moderate [1-24 hours] loss of consciousness
S069X4A	80493	Unspecified intracranial injury with loss of consciousness of 6 hours to 24 hours, initial encounter	Open fractures involving skull or face with other bones, with intracranial injury of other and unspecified nature, with moderate [1-24 hours] loss of consciousness
S0291XB	80494	Unspecified fracture of skull, initial encounter for open fracture	Open fractures involving skull or face with other bones, with intracranial injury of other and unspecified nature, with prolonged [more than 24 hours] loss of consciousness and return to pre-existing conscious level
S06895A	80494	Other specified intracranial injury with loss of consciousness greater than 24 hours with return to pre-existing conscious level, initial encounter	Open fractures involving skull or face with other bones, with intracranial injury of other and unspecified nature, with prolonged [more than 24 hours] loss of consciousness and return to pre-existing conscious level
S069X5A	80494	Unspecified intracranial injury with loss of consciousness greater than 24 hours with return to pre-existing conscious level, initial encounter	Open fractures involving skull or face with other bones, with intracranial injury of other and unspecified nature, with prolonged [more than 24 hours] loss of consciousness and return to pre-existing conscious level
S0291XB	80495	Unspecified fracture of skull, initial encounter for open fracture	Open fractures involving skull or face with other bones, with intracranial injury of other and unspecified nature, with prolonged [more than 24 hours] loss of consciousness without return to pre-existing conscious level
S06896A	80495	Other specified intracranial injury with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving, initial encounter	Open fractures involving skull or face with other bones, with intracranial injury of other and unspecified nature, with prolonged [more than 24 hours] loss of consciousness without return to pre-existing conscious level
S06897A	80495	Other specified intracranial injury with loss of consciousness of any duration with death due to brain injury prior to regaining consciousness, initial encounter	Open fractures involving skull or face with other bones, with intracranial injury of other and unspecified nature, with prolonged [more than 24 hours] loss of consciousness without return to pre-existing conscious level
S06898A	80495	Other specified intracranial injury with loss of consciousness of any duration with death due to other cause prior to regaining consciousness, initial encounter	Open fractures involving skull or face with other bones, with intracranial injury of other and unspecified nature, with prolonged [more than 24 hours] loss of consciousness without return to pre-existing conscious level
S069X6A	80495	Unspecified intracranial injury with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving, initial encounter	Open fractures involving skull or face with other bones, with intracranial injury of other and unspecified nature, with prolonged [more than 24 hours] loss of consciousness without return to pre-existing conscious level

Appendix A

Frailty markers

S069X7A	80495	Unspecified intracranial injury with loss of consciousness of any duration with death due to brain injury prior to regaining consciousness, initial encounter	Open fractures involving skull or face with other bones, with intracranial injury of other and unspecified nature, with prolonged [more than 24 hours] loss of consciousness without return to pre-existing conscious level
S069X8A	80495	Unspecified intracranial injury with loss of consciousness of any duration with death due to other cause prior to regaining consciousness, initial encounter	Open fractures involving skull or face with other bones, with intracranial injury of other and unspecified nature, with prolonged [more than 24 hours] loss of consciousness without return to pre-existing conscious level
S0291XB	80496	Unspecified fracture of skull, initial encounter for open fracture	Open fractures involving skull or face with other bones, with intracranial injury of other and unspecified nature, with loss of consciousness of unspecified duration
S06899A	80496	Other specified intracranial injury with loss of consciousness of unspecified duration, initial encounter	Open fractures involving skull or face with other bones, with intracranial injury of other and unspecified nature, with loss of consciousness of unspecified duration
S069X9A	80496	Unspecified intracranial injury with loss of consciousness of unspecified duration, initial encounter	Open fractures involving skull or face with other bones, with intracranial injury of other and unspecified nature, with loss of consciousness of unspecified duration
S0291XB	80499	Unspecified fracture of skull, initial encounter for open fracture	Open fractures involving skull or face with other bones, with intracranial injury of other and unspecified nature, with concussion, unspecified
S06890A	80499	Other specified intracranial injury without loss of consciousness, initial encounter	Open fractures involving skull or face with other bones, with intracranial injury of other and unspecified nature, with concussion, unspecified
S069X0A	80499	Unspecified intracranial injury without loss of consciousness, initial encounter	Open fractures involving skull or face with other bones, with intracranial injury of other and unspecified nature, with concussion, unspecified
S1201XA	80501	Stable burst fracture of first cervical vertebra, initial encounter for closed fracture	Closed fracture of first cervical vertebra
S1202XA	80501	Unstable burst fracture of first cervical vertebra, initial encounter for closed fracture	Closed fracture of first cervical vertebra
S12030A	80501	Displaced posterior arch fracture of first cervical vertebra, initial encounter for closed fracture	Closed fracture of first cervical vertebra
S12031A	80501	Nondisplaced posterior arch fracture of first cervical vertebra, initial encounter for closed fracture	Closed fracture of first cervical vertebra
S12040A	80501	Displaced lateral mass fracture of first cervical vertebra, initial encounter for closed fracture	Closed fracture of first cervical vertebra
S12041A	80501	Nondisplaced lateral mass fracture of first cervical vertebra, initial encounter for closed fracture	Closed fracture of first cervical vertebra
S12090A	80501	Other displaced fracture of first cervical vertebra, initial encounter for closed fracture	Closed fracture of first cervical vertebra
S12091A	80501	Other nondisplaced fracture of first cervical vertebra, initial encounter for closed fracture	Closed fracture of first cervical vertebra
S12110A	80502	Anterior displaced Type II dens fracture, initial encounter for closed fracture	Closed fracture of second cervical vertebra
S12111A	80502	Posterior displaced Type II dens fracture, initial encounter for closed fracture	Closed fracture of second cervical vertebra
S12112A	80502	Nondisplaced Type II dens fracture, initial encounter for closed fracture	Closed fracture of second cervical vertebra
S12120A	80502	Other displaced dens fracture, initial encounter for closed fracture	Closed fracture of second cervical vertebra
S12121A	80502	Other nondisplaced dens fracture, initial encounter for closed fracture	Closed fracture of second cervical vertebra
S12130A	80502	Unspecified traumatic displaced spondylolisthesis of second cervical vertebra, initial encounter for closed fracture	Closed fracture of second cervical vertebra
S12131A	80502	Unspecified traumatic nondisplaced spondylolisthesis of second cervical vertebra, initial encounter for closed fracture	Closed fracture of second cervical vertebra
S1214XA	80502	Type III traumatic spondylolisthesis of second cervical vertebra, initial encounter for closed fracture	Closed fracture of second cervical vertebra
S12150A	80502	Other traumatic displaced spondylolisthesis of second cervical vertebra, initial encounter for closed fracture	Closed fracture of second cervical vertebra

Appendix A

Frailty markers

[illegible]

Appendix A

Frailty markers

S12591A	80506	Other nondisplaced fracture of sixth cervical vertebra, initial encounter for closed fracture	Closed fracture of sixth cervical vertebra
S12630A	80507	Unspecified traumatic displaced spondylolisthesis of seventh cervical vertebra, initial encounter for closed fracture	Closed fracture of seventh cervical vertebra
S12631A	80507	Unspecified traumatic nondisplaced spondylolisthesis of seventh cervical vertebra, initial encounter for closed fracture	Closed fracture of seventh cervical vertebra
S1264XA	80507	Type III traumatic spondylolisthesis of seventh cervical vertebra, initial encounter for closed fracture	Closed fracture of seventh cervical vertebra
S12650A	80507	Other traumatic displaced spondylolisthesis of seventh cervical vertebra, initial encounter for closed fracture	Closed fracture of seventh cervical vertebra
S12651A	80507	Other traumatic nondisplaced spondylolisthesis of seventh cervical vertebra, initial encounter for closed fracture	Closed fracture of seventh cervical vertebra
S12690A	80507	Other displaced fracture of seventh cervical vertebra, initial encounter for closed fracture	Closed fracture of seventh cervical vertebra
S12691A	80507	Other nondisplaced fracture of seventh cervical vertebra, initial encounter for closed fracture	Closed fracture of seventh cervical vertebra
S129XXA	80508	Fracture of neck, unspecified, initial encounter	Closed fracture of multiple cervical vertebrae
S129XXA	80510	Fracture of neck, unspecified, initial encounter	Open fracture of cervical vertebra, unspecified level
S1201XB	80511	Stable burst fracture of first cervical vertebra, initial encounter for open fracture	Open fracture of first cervical vertebra
S1202XB	80511	Unstable burst fracture of first cervical vertebra, initial encounter for open fracture	Open fracture of first cervical vertebra
S12030B	80511	Displaced posterior arch fracture of first cervical vertebra, initial encounter for open fracture	Open fracture of first cervical vertebra
S12031B	80511	Nondisplaced posterior arch fracture of first cervical vertebra, initial encounter for open fracture	Open fracture of first cervical vertebra
S12040B	80511	Displaced lateral mass fracture of first cervical vertebra, initial encounter for open fracture	Open fracture of first cervical vertebra
S12041B	80511	Nondisplaced lateral mass fracture of first cervical vertebra, initial encounter for open fracture	Open fracture of first cervical vertebra
S12090B	80511	Other displaced fracture of first cervical vertebra, initial encounter for open fracture	Open fracture of first cervical vertebra
S12091B	80511	Other nondisplaced fracture of first cervical vertebra, initial encounter for open fracture	Open fracture of first cervical vertebra
S12110B	80512	Anterior displaced Type II dens fracture, initial encounter for open fracture	Open fracture of second cervical vertebra
S12111B	80512	Posterior displaced Type II dens fracture, initial encounter for open fracture	Open fracture of second cervical vertebra
S12112B	80512	Nondisplaced Type II dens fracture, initial encounter for open fracture	Open fracture of second cervical vertebra
S12120B	80512	Other displaced dens fracture, initial encounter for open fracture	Open fracture of second cervical vertebra
S12121B	80512	Other nondisplaced dens fracture, initial encounter for open fracture	Open fracture of second cervical vertebra
S12130B	80512	Unspecified traumatic displaced spondylolisthesis of second cervical vertebra, initial encounter for open fracture	Open fracture of second cervical vertebra
S12131B	80512	Unspecified traumatic nondisplaced spondylolisthesis of second cervical vertebra, initial encounter for open fracture	Open fracture of second cervical vertebra
S1214XB	80512	Type III traumatic spondylolisthesis of second cervical vertebra, initial encounter for open fracture	Open fracture of second cervical vertebra
S12150B	80512	Other traumatic displaced spondylolisthesis of second cervical vertebra, initial encounter for open fracture	Open fracture of second cervical vertebra
S12151B	80512	Other traumatic nondisplaced spondylolisthesis of second cervical vertebra, initial encounter for open fracture	Open fracture of second cervical vertebra
S12190B	80512	Other displaced fracture of second cervical vertebra, initial encounter for open fracture	Open fracture of second cervical vertebra
S12191B	80512	Other nondisplaced fracture of second cervical vertebra, initial encounter for open fracture	Open fracture of second cervical vertebra

Appendix A

Frailty markers

[illegible]

Appendix A

Frailty markers

[illegible]

Appendix A

Frailty markers

[illegible]

Appendix A

Frailty markers

[illegible]

Appendix A

Frailty markers

[illegible]

Appendix A

Frailty markers

[illegible]

Appendix A

Frailty markers

[illegible]

Appendix A

Frailty markers

S129XXA	8058	Fracture of neck, unspecified, initial encounter	Closed fracture of unspecified vertebral column without mention of spinal cord injury
S22009A	8058	Unspecified fracture of unspecified thoracic vertebra, initial encounter for closed fracture	Closed fracture of unspecified vertebral column without mention of spinal cord injury
S32009A	8058	Unspecified fracture of unspecified lumbar vertebra, initial encounter for closed fracture	Closed fracture of unspecified vertebral column without mention of spinal cord injury
S3210XA	8058	Unspecified fracture of sacrum, initial encounter for closed fracture	Closed fracture of unspecified vertebral column without mention of spinal cord injury
S322XXA	8058	Fracture of coccyx, initial encounter for closed fracture	Closed fracture of unspecified vertebral column without mention of spinal cord injury
S129XXA	8059	Fracture of neck, unspecified, initial encounter	Open fracture of unspecified vertebral column without mention of spinal cord injury
S22009B	8059	Unspecified fracture of unspecified thoracic vertebra, initial encounter for open fracture	Open fracture of unspecified vertebral column without mention of spinal cord injury
S32009B	8059	Unspecified fracture of unspecified lumbar vertebra, initial encounter for open fracture	Open fracture of unspecified vertebral column without mention of spinal cord injury
S3210XB	8059	Unspecified fracture of sacrum, initial encounter for open fracture	Open fracture of unspecified vertebral column without mention of spinal cord injury
S322XXB	8059	Fracture of coccyx, initial encounter for open fracture	Open fracture of unspecified vertebral column without mention of spinal cord injury
S12000A	80600	Unspecified displaced fracture of first cervical vertebra, initial encounter for closed fracture	Closed fracture of C1-C4 level with unspecified spinal cord injury
S12001A	80600	Unspecified nondisplaced fracture of first cervical vertebra, initial encounter for closed fracture	Closed fracture of C1-C4 level with unspecified spinal cord injury
S12100A	80600	Unspecified displaced fracture of second cervical vertebra, initial encounter for closed fracture	Closed fracture of C1-C4 level with unspecified spinal cord injury
S12101A	80600	Unspecified nondisplaced fracture of second cervical vertebra, initial encounter for closed fracture	Closed fracture of C1-C4 level with unspecified spinal cord injury
S12200A	80600	Unspecified displaced fracture of third cervical vertebra, initial encounter for closed fracture	Closed fracture of C1-C4 level with unspecified spinal cord injury
S12201A	80600	Unspecified nondisplaced fracture of third cervical vertebra, initial encounter for closed fracture	Closed fracture of C1-C4 level with unspecified spinal cord injury
S12300A	80600	Unspecified displaced fracture of fourth cervical vertebra, initial encounter for closed fracture	Closed fracture of C1-C4 level with unspecified spinal cord injury
S12301A	80600	Unspecified nondisplaced fracture of fourth cervical vertebra, initial encounter for closed fracture	Closed fracture of C1-C4 level with unspecified spinal cord injury
S14101A	80600	Unspecified injury at C1 level of cervical spinal cord, initial encounter	Closed fracture of C1-C4 level with unspecified spinal cord injury
S14102A	80600	Unspecified injury at C2 level of cervical spinal cord, initial encounter	Closed fracture of C1-C4 level with unspecified spinal cord injury
S14103A	80600	Unspecified injury at C3 level of cervical spinal cord, initial encounter	Closed fracture of C1-C4 level with unspecified spinal cord injury
S14104A	80600	Unspecified injury at C4 level of cervical spinal cord, initial encounter	Closed fracture of C1-C4 level with unspecified spinal cord injury
S12000A	80601	Unspecified displaced fracture of first cervical vertebra, initial encounter for closed fracture	Closed fracture of C1-C4 level with complete lesion of cord
S12001A	80601	Unspecified nondisplaced fracture of first cervical vertebra, initial encounter for closed fracture	Closed fracture of C1-C4 level with complete lesion of cord
S12100A	80601	Unspecified displaced fracture of second cervical vertebra, initial encounter for closed fracture	Closed fracture of C1-C4 level with complete lesion of cord
S12101A	80601	Unspecified nondisplaced fracture of second cervical vertebra, initial encounter for closed fracture	Closed fracture of C1-C4 level with complete lesion of cord
S12200A	80601	Unspecified displaced fracture of third cervical vertebra, initial encounter for closed fracture	Closed fracture of C1-C4 level with complete lesion of cord
S12201A	80601	Unspecified nondisplaced fracture of third cervical vertebra, initial encounter for closed fracture	Closed fracture of C1-C4 level with complete lesion of cord
S12300A	80601	Unspecified displaced fracture of fourth cervical vertebra, initial encounter for closed fracture	Closed fracture of C1-C4 level with complete lesion of cord
S12301A	80601	Unspecified nondisplaced fracture of fourth cervical vertebra, initial encounter for closed fracture	Closed fracture of C1-C4 level with complete lesion of cord
S14111A	80601	Complete lesion at C1 level of cervical spinal cord, initial encounter	Closed fracture of C1-C4 level with complete lesion of cord

Appendix A

Frailty markers

[illegible]

Appendix A

Frailty markers

[illegible]

Appendix A

Frailty markers

S12601A	80607	Unspecified nondisplaced fracture of seventh cervical vertebra, initial encounter for closed fracture	Closed fracture of C5-C7 level with anterior cord syndrome
S14135A	80607	Anterior cord syndrome at C5 level of cervical spinal cord, initial encounter	Closed fracture of C5-C7 level with anterior cord syndrome
S14136A	80607	Anterior cord syndrome at C6 level of cervical spinal cord, initial encounter	Closed fracture of C5-C7 level with anterior cord syndrome
S14137A	80607	Anterior cord syndrome at C7 level of cervical spinal cord, initial encounter	Closed fracture of C5-C7 level with anterior cord syndrome
S12400A	80608	Unspecified displaced fracture of fifth cervical vertebra, initial encounter for closed fracture	Closed fracture of C5-C7 level with central cord syndrome
S12401A	80608	Unspecified nondisplaced fracture of fifth cervical vertebra, initial encounter for closed fracture	Closed fracture of C5-C7 level with central cord syndrome
S12500A	80608	Unspecified displaced fracture of sixth cervical vertebra, initial encounter for closed fracture	Closed fracture of C5-C7 level with central cord syndrome
S12501A	80608	Unspecified nondisplaced fracture of sixth cervical vertebra, initial encounter for closed fracture	Closed fracture of C5-C7 level with central cord syndrome
S12600A	80608	Unspecified displaced fracture of seventh cervical vertebra, initial encounter for closed fracture	Closed fracture of C5-C7 level with central cord syndrome
S12601A	80608	Unspecified nondisplaced fracture of seventh cervical vertebra, initial encounter for closed fracture	Closed fracture of C5-C7 level with central cord syndrome
S14125A	80608	Central cord syndrome at C5 level of cervical spinal cord, initial encounter	Closed fracture of C5-C7 level with central cord syndrome
S14126A	80608	Central cord syndrome at C6 level of cervical spinal cord, initial encounter	Closed fracture of C5-C7 level with central cord syndrome
S14127A	80608	Central cord syndrome at C7 level of cervical spinal cord, initial encounter	Closed fracture of C5-C7 level with central cord syndrome
S12400A	80609	Unspecified displaced fracture of fifth cervical vertebra, initial encounter for closed fracture	Closed fracture of C5-C7 level with other specified spinal cord injury
S12401A	80609	Unspecified nondisplaced fracture of fifth cervical vertebra, initial encounter for closed fracture	Closed fracture of C5-C7 level with other specified spinal cord injury
S12500A	80609	Unspecified displaced fracture of sixth cervical vertebra, initial encounter for closed fracture	Closed fracture of C5-C7 level with other specified spinal cord injury
S12501A	80609	Unspecified nondisplaced fracture of sixth cervical vertebra, initial encounter for closed fracture	Closed fracture of C5-C7 level with other specified spinal cord injury
S12600A	80609	Unspecified displaced fracture of seventh cervical vertebra, initial encounter for closed fracture	Closed fracture of C5-C7 level with other specified spinal cord injury
S12601A	80609	Unspecified nondisplaced fracture of seventh cervical vertebra, initial encounter for closed fracture	Closed fracture of C5-C7 level with other specified spinal cord injury
S14155A	80609	Other incomplete lesion at C5 level of cervical spinal cord, initial encounter	Closed fracture of C5-C7 level with other specified spinal cord injury
S14156A	80609	Other incomplete lesion at C6 level of cervical spinal cord, initial encounter	Closed fracture of C5-C7 level with other specified spinal cord injury
S14157A	80609	Other incomplete lesion at C7 level of cervical spinal cord, initial encounter	Closed fracture of C5-C7 level with other specified spinal cord injury
S12000B	80610	Unspecified displaced fracture of first cervical vertebra, initial encounter for open fracture	Open fracture of C1-C4 level with unspecified spinal cord injury
S12001B	80610	Unspecified nondisplaced fracture of first cervical vertebra, initial encounter for open fracture	Open fracture of C1-C4 level with unspecified spinal cord injury
S12100B	80610	Unspecified displaced fracture of second cervical vertebra, initial encounter for open fracture	Open fracture of C1-C4 level with unspecified spinal cord injury
S12101B	80610	Unspecified nondisplaced fracture of second cervical vertebra, initial encounter for open fracture	Open fracture of C1-C4 level with unspecified spinal cord injury
S12200B	80610	Unspecified displaced fracture of third cervical vertebra, initial encounter for open fracture	Open fracture of C1-C4 level with unspecified spinal cord injury
S12201B	80610	Unspecified nondisplaced fracture of third cervical vertebra, initial encounter for open fracture	Open fracture of C1-C4 level with unspecified spinal cord injury
S12300B	80610	Unspecified displaced fracture of fourth cervical vertebra, initial encounter for open fracture	Open fracture of C1-C4 level with unspecified spinal cord injury
S12301B	80610	Unspecified nondisplaced fracture of fourth cervical vertebra, initial encounter for open fracture	Open fracture of C1-C4 level with unspecified spinal cord injury
S14101A	80610	Unspecified injury at C1 level of cervical spinal cord, initial encounter	Open fracture of C1-C4 level with unspecified spinal cord injury

Appendix A

Frailty markers

S14102A	80610	Unspecified injury at C2 level of cervical spinal cord, initial encounter	Open fracture of C1-C4 level with unspecified spinal cord injury
S14103A	80610	Unspecified injury at C3 level of cervical spinal cord, initial encounter	Open fracture of C1-C4 level with unspecified spinal cord injury
S14104A	80610	Unspecified injury at C4 level of cervical spinal cord, initial encounter	Open fracture of C1-C4 level with unspecified spinal cord injury
S12000B	80611	Unspecified displaced fracture of first cervical vertebra, initial encounter for open fracture	Open fracture of C1-C4 level with complete lesion of cord
S12001B	80611	Unspecified nondisplaced fracture of first cervical vertebra, initial encounter for open fracture	Open fracture of C1-C4 level with complete lesion of cord
S12100B	80611	Unspecified displaced fracture of second cervical vertebra, initial encounter for open fracture	Open fracture of C1-C4 level with complete lesion of cord
S12101B	80611	Unspecified nondisplaced fracture of second cervical vertebra, initial encounter for open fracture	Open fracture of C1-C4 level with complete lesion of cord
S12200B	80611	Unspecified displaced fracture of third cervical vertebra, initial encounter for open fracture	Open fracture of C1-C4 level with complete lesion of cord
S12201B	80611	Unspecified nondisplaced fracture of third cervical vertebra, initial encounter for open fracture	Open fracture of C1-C4 level with complete lesion of cord
S12300B	80611	Unspecified displaced fracture of fourth cervical vertebra, initial encounter for open fracture	Open fracture of C1-C4 level with complete lesion of cord
S12301B	80611	Unspecified nondisplaced fracture of fourth cervical vertebra, initial encounter for open fracture	Open fracture of C1-C4 level with complete lesion of cord
S14111A	80611	Complete lesion at C1 level of cervical spinal cord, initial encounter	Open fracture of C1-C4 level with complete lesion of cord
S14112A	80611	Complete lesion at C2 level of cervical spinal cord, initial encounter	Open fracture of C1-C4 level with complete lesion of cord
S14113A	80611	Complete lesion at C3 level of cervical spinal cord, initial encounter	Open fracture of C1-C4 level with complete lesion of cord
S14114A	80611	Complete lesion at C4 level of cervical spinal cord, initial encounter	Open fracture of C1-C4 level with complete lesion of cord
S12000B	80612	Unspecified displaced fracture of first cervical vertebra, initial encounter for open fracture	Open fracture of C1-C4 level with anterior cord syndrome
S12001B	80612	Unspecified nondisplaced fracture of first cervical vertebra, initial encounter for open fracture	Open fracture of C1-C4 level with anterior cord syndrome
S12100B	80612	Unspecified displaced fracture of second cervical vertebra, initial encounter for open fracture	Open fracture of C1-C4 level with anterior cord syndrome
S12101B	80612	Unspecified nondisplaced fracture of second cervical vertebra, initial encounter for open fracture	Open fracture of C1-C4 level with anterior cord syndrome
S12200B	80612	Unspecified displaced fracture of third cervical vertebra, initial encounter for open fracture	Open fracture of C1-C4 level with anterior cord syndrome
S12201B	80612	Unspecified nondisplaced fracture of third cervical vertebra, initial encounter for open fracture	Open fracture of C1-C4 level with anterior cord syndrome
S12300B	80612	Unspecified displaced fracture of fourth cervical vertebra, initial encounter for open fracture	Open fracture of C1-C4 level with anterior cord syndrome
S12301B	80612	Unspecified nondisplaced fracture of fourth cervical vertebra, initial encounter for open fracture	Open fracture of C1-C4 level with anterior cord syndrome
S14131A	80612	Anterior cord syndrome at C1 level of cervical spinal cord, initial encounter	Open fracture of C1-C4 level with anterior cord syndrome
S14132A	80612	Anterior cord syndrome at C2 level of cervical spinal cord, initial encounter	Open fracture of C1-C4 level with anterior cord syndrome
S14133A	80612	Anterior cord syndrome at C3 level of cervical spinal cord, initial encounter	Open fracture of C1-C4 level with anterior cord syndrome
S14134A	80612	Anterior cord syndrome at C4 level of cervical spinal cord, initial encounter	Open fracture of C1-C4 level with anterior cord syndrome
S12000B	80613	Unspecified displaced fracture of first cervical vertebra, initial encounter for open fracture	Open fracture of C1-C4 level with central cord syndrome
S12001B	80613	Unspecified nondisplaced fracture of first cervical vertebra, initial encounter for open fracture	Open fracture of C1-C4 level with central cord syndrome
S12100B	80613	Unspecified displaced fracture of second cervical vertebra, initial encounter for open fracture	Open fracture of C1-C4 level with central cord syndrome
S12101B	80613	Unspecified nondisplaced fracture of second cervical vertebra, initial encounter for open fracture	Open fracture of C1-C4 level with central cord syndrome

Appendix A

Frailty markers

[illegible]

Appendix A

Frailty markers

[illegible]

Appendix A

Frailty markers

S14155A	80619	Other incomplete lesion at C5 level of cervical spinal cord, initial encounter	Open fracture of C5-C7 level with other specified spinal cord injury
S14156A	80619	Other incomplete lesion at C6 level of cervical spinal cord, initial encounter	Open fracture of C5-C7 level with other specified spinal cord injury
S14157A	80619	Other incomplete lesion at C7 level of cervical spinal cord, initial encounter	Open fracture of C5-C7 level with other specified spinal cord injury
S22019A	80620	Unspecified fracture of first thoracic vertebra, initial encounter for closed fracture	Closed fracture of T1-T6 level with unspecified spinal cord injury
S22029A	80620	Unspecified fracture of second thoracic vertebra, initial encounter for closed fracture	Closed fracture of T1-T6 level with unspecified spinal cord injury
S22039A	80620	Unspecified fracture of third thoracic vertebra, initial encounter for closed fracture	Closed fracture of T1-T6 level with unspecified spinal cord injury
S22049A	80620	Unspecified fracture of fourth thoracic vertebra, initial encounter for closed fracture	Closed fracture of T1-T6 level with unspecified spinal cord injury
S22059A	80620	Unspecified fracture of T5-T6 vertebra, initial encounter for closed fracture	Closed fracture of T1-T6 level with unspecified spinal cord injury
S24101A	80620	Unspecified injury at T1 level of thoracic spinal cord, initial encounter	Closed fracture of T1-T6 level with unspecified spinal cord injury
S24102A	80620	Unspecified injury at T2-T6 level of thoracic spinal cord, initial encounter	Closed fracture of T1-T6 level with unspecified spinal cord injury
S22019A	80621	Unspecified fracture of first thoracic vertebra, initial encounter for closed fracture	Closed fracture of T1-T6 level with complete lesion of cord
S22029A	80621	Unspecified fracture of second thoracic vertebra, initial encounter for closed fracture	Closed fracture of T1-T6 level with complete lesion of cord
S22039A	80621	Unspecified fracture of third thoracic vertebra, initial encounter for closed fracture	Closed fracture of T1-T6 level with complete lesion of cord
S22049A	80621	Unspecified fracture of fourth thoracic vertebra, initial encounter for closed fracture	Closed fracture of T1-T6 level with complete lesion of cord
S22059A	80621	Unspecified fracture of T5-T6 vertebra, initial encounter for closed fracture	Closed fracture of T1-T6 level with complete lesion of cord
S24111A	80621	Complete lesion at T1 level of thoracic spinal cord, initial encounter	Closed fracture of T1-T6 level with complete lesion of cord
S24112A	80621	Complete lesion at T2-T6 level of thoracic spinal cord, initial encounter	Closed fracture of T1-T6 level with complete lesion of cord
S22019A	80622	Unspecified fracture of first thoracic vertebra, initial encounter for closed fracture	Closed fracture of T1-T6 level with anterior cord syndrome
S22029A	80622	Unspecified fracture of second thoracic vertebra, initial encounter for closed fracture	Closed fracture of T1-T6 level with anterior cord syndrome
S22039A	80622	Unspecified fracture of third thoracic vertebra, initial encounter for closed fracture	Closed fracture of T1-T6 level with anterior cord syndrome
S22049A	80622	Unspecified fracture of fourth thoracic vertebra, initial encounter for closed fracture	Closed fracture of T1-T6 level with anterior cord syndrome
S22059A	80622	Unspecified fracture of T5-T6 vertebra, initial encounter for closed fracture	Closed fracture of T1-T6 level with anterior cord syndrome
S24131A	80622	Anterior cord syndrome at T1 level of thoracic spinal cord, initial encounter	Closed fracture of T1-T6 level with anterior cord syndrome
S24132A	80622	Anterior cord syndrome at T2-T6 level of thoracic spinal cord, initial encounter	Closed fracture of T1-T6 level with anterior cord syndrome
S22019A	80623	Unspecified fracture of first thoracic vertebra, initial encounter for closed fracture	Closed fracture of T1-T6 level with central cord syndrome
S22029A	80623	Unspecified fracture of second thoracic vertebra, initial encounter for closed fracture	Closed fracture of T1-T6 level with central cord syndrome
S22039A	80623	Unspecified fracture of third thoracic vertebra, initial encounter for closed fracture	Closed fracture of T1-T6 level with central cord syndrome
S22049A	80623	Unspecified fracture of fourth thoracic vertebra, initial encounter for closed fracture	Closed fracture of T1-T6 level with central cord syndrome
S22059A	80623	Unspecified fracture of T5-T6 vertebra, initial encounter for closed fracture	Closed fracture of T1-T6 level with central cord syndrome
S24151A	80623	Other incomplete lesion at T1 level of thoracic spinal cord, initial encounter	Closed fracture of T1-T6 level with central cord syndrome
S24152A	80623	Other incomplete lesion at T2-T6 level of thoracic spinal cord, initial encounter	Closed fracture of T1-T6 level with central cord syndrome

Appendix A

Frailty markers

S22019A	80624	Unspecified fracture of first thoracic vertebra, initial encounter for closed fracture	Closed fracture of T1-T6 level with other specified spinal cord injury
S22029A	80624	Unspecified fracture of second thoracic vertebra, initial encounter for closed fracture	Closed fracture of T1-T6 level with other specified spinal cord injury
S22039A	80624	Unspecified fracture of third thoracic vertebra, initial encounter for closed fracture	Closed fracture of T1-T6 level with other specified spinal cord injury
S22049A	80624	Unspecified fracture of fourth thoracic vertebra, initial encounter for closed fracture	Closed fracture of T1-T6 level with other specified spinal cord injury
S22059A	80624	Unspecified fracture of T5-T6 vertebra, initial encounter for closed fracture	Closed fracture of T1-T6 level with other specified spinal cord injury
S24151A	80624	Other incomplete lesion at T1 level of thoracic spinal cord, initial encounter	Closed fracture of T1-T6 level with other specified spinal cord injury
S24152A	80624	Other incomplete lesion at T2-T6 level of thoracic spinal cord, initial encounter	Closed fracture of T1-T6 level with other specified spinal cord injury
S22069A	80625	Unspecified fracture of T7-T8 vertebra, initial encounter for closed fracture	Closed fracture of T7-T12 level with unspecified spinal cord injury
S22079A	80625	Unspecified fracture of T9-T10 vertebra, initial encounter for closed fracture	Closed fracture of T7-T12 level with unspecified spinal cord injury
S22089A	80625	Unspecified fracture of T11-T12 vertebra, initial encounter for closed fracture	Closed fracture of T7-T12 level with unspecified spinal cord injury
S24103A	80625	Unspecified injury at T7-T10 level of thoracic spinal cord, initial encounter	Closed fracture of T7-T12 level with unspecified spinal cord injury
S24104A	80625	Unspecified injury at T11-T12 level of thoracic spinal cord, initial encounter	Closed fracture of T7-T12 level with unspecified spinal cord injury
S22069A	80626	Unspecified fracture of T7-T8 vertebra, initial encounter for closed fracture	Closed fracture of T7-T12 level with complete lesion of cord
S22079A	80626	Unspecified fracture of T9-T10 vertebra, initial encounter for closed fracture	Closed fracture of T7-T12 level with complete lesion of cord
S22089A	80626	Unspecified fracture of T11-T12 vertebra, initial encounter for closed fracture	Closed fracture of T7-T12 level with complete lesion of cord
S24113A	80626	Complete lesion at T7-T10 level of thoracic spinal cord, initial encounter	Closed fracture of T7-T12 level with complete lesion of cord
S24114A	80626	Complete lesion at T11-T12 level of thoracic spinal cord, initial encounter	Closed fracture of T7-T12 level with complete lesion of cord
S22069A	80627	Unspecified fracture of T7-T8 vertebra, initial encounter for closed fracture	Closed fracture of T7-T12 level with anterior cord syndrome
S22079A	80627	Unspecified fracture of T9-T10 vertebra, initial encounter for closed fracture	Closed fracture of T7-T12 level with anterior cord syndrome
S22089A	80627	Unspecified fracture of T11-T12 vertebra, initial encounter for closed fracture	Closed fracture of T7-T12 level with anterior cord syndrome
S24133A	80627	Anterior cord syndrome at T7-T10 level of thoracic spinal cord, initial encounter	Closed fracture of T7-T12 level with anterior cord syndrome
S24134A	80627	Anterior cord syndrome at T11-T12 level of thoracic spinal cord, initial encounter	Closed fracture of T7-T12 level with anterior cord syndrome
S22069A	80628	Unspecified fracture of T7-T8 vertebra, initial encounter for closed fracture	Closed fracture of T7-T12 level with central cord syndrome
S22079A	80628	Unspecified fracture of T9-T10 vertebra, initial encounter for closed fracture	Closed fracture of T7-T12 level with central cord syndrome
S22089A	80628	Unspecified fracture of T11-T12 vertebra, initial encounter for closed fracture	Closed fracture of T7-T12 level with central cord syndrome
S24153A	80628	Other incomplete lesion at T7-T10 level of thoracic spinal cord, initial encounter	Closed fracture of T7-T12 level with central cord syndrome
S24154A	80628	Other incomplete lesion at T11-T12 level of thoracic spinal cord, initial encounter	Closed fracture of T7-T12 level with central cord syndrome
S22069A	80629	Unspecified fracture of T7-T8 vertebra, initial encounter for closed fracture	Closed fracture of T7-T12 level with other specified spinal cord injury
S22079A	80629	Unspecified fracture of T9-T10 vertebra, initial encounter for closed fracture	Closed fracture of T7-T12 level with other specified spinal cord injury
S22089A	80629	Unspecified fracture of T11-T12 vertebra, initial encounter for closed fracture	Closed fracture of T7-T12 level with other specified spinal cord injury
S24153A	80629	Other incomplete lesion at T7-T10 level of thoracic spinal cord, initial encounter	Closed fracture of T7-T12 level with other specified spinal cord injury

Appendix A

Frailty markers

S24154A	80629	Other incomplete lesion at T11-T12 level of thoracic spinal cord, initial encounter	Closed fracture of T7-T12 level with other specified spinal cord injury
S22019B	80630	Unspecified fracture of first thoracic vertebra, initial encounter for open fracture	Open fracture of T1-T6 level with unspecified spinal cord injury
S22029B	80630	Unspecified fracture of second thoracic vertebra, initial encounter for open fracture	Open fracture of T1-T6 level with unspecified spinal cord injury
S22039B	80630	Unspecified fracture of third thoracic vertebra, initial encounter for open fracture	Open fracture of T1-T6 level with unspecified spinal cord injury
S22049B	80630	Unspecified fracture of fourth thoracic vertebra, initial encounter for open fracture	Open fracture of T1-T6 level with unspecified spinal cord injury
S22059B	80630	Unspecified fracture of T5-T6 vertebra, initial encounter for open fracture	Open fracture of T1-T6 level with unspecified spinal cord injury
S24101A	80630	Unspecified injury at T1 level of thoracic spinal cord, initial encounter	Open fracture of T1-T6 level with unspecified spinal cord injury
S24102A	80630	Unspecified injury at T2-T6 level of thoracic spinal cord, initial encounter	Open fracture of T1-T6 level with unspecified spinal cord injury
S22019B	80631	Unspecified fracture of first thoracic vertebra, initial encounter for open fracture	Open fracture of T1-T6 level with complete lesion of cord
S22029B	80631	Unspecified fracture of second thoracic vertebra, initial encounter for open fracture	Open fracture of T1-T6 level with complete lesion of cord
S22039B	80631	Unspecified fracture of third thoracic vertebra, initial encounter for open fracture	Open fracture of T1-T6 level with complete lesion of cord
S22049B	80631	Unspecified fracture of fourth thoracic vertebra, initial encounter for open fracture	Open fracture of T1-T6 level with complete lesion of cord
S22059B	80631	Unspecified fracture of T5-T6 vertebra, initial encounter for open fracture	Open fracture of T1-T6 level with complete lesion of cord
S24111A	80631	Complete lesion at T1 level of thoracic spinal cord, initial encounter	Open fracture of T1-T6 level with complete lesion of cord
S24112A	80631	Complete lesion at T2-T6 level of thoracic spinal cord, initial encounter	Open fracture of T1-T6 level with complete lesion of cord
S22019B	80632	Unspecified fracture of first thoracic vertebra, initial encounter for open fracture	Open fracture of T1-T6 level with anterior cord syndrome
S22029B	80632	Unspecified fracture of second thoracic vertebra, initial encounter for open fracture	Open fracture of T1-T6 level with anterior cord syndrome
S22039B	80632	Unspecified fracture of third thoracic vertebra, initial encounter for open fracture	Open fracture of T1-T6 level with anterior cord syndrome
S22049B	80632	Unspecified fracture of fourth thoracic vertebra, initial encounter for open fracture	Open fracture of T1-T6 level with anterior cord syndrome
S22059B	80632	Unspecified fracture of T5-T6 vertebra, initial encounter for open fracture	Open fracture of T1-T6 level with anterior cord syndrome
S24131A	80632	Anterior cord syndrome at T1 level of thoracic spinal cord, initial encounter	Open fracture of T1-T6 level with anterior cord syndrome
S24132A	80632	Anterior cord syndrome at T2-T6 level of thoracic spinal cord, initial encounter	Open fracture of T1-T6 level with anterior cord syndrome
S22019B	80633	Unspecified fracture of first thoracic vertebra, initial encounter for open fracture	Open fracture of T1-T6 level with central cord syndrome
S22029B	80633	Unspecified fracture of second thoracic vertebra, initial encounter for open fracture	Open fracture of T1-T6 level with central cord syndrome
S22039B	80633	Unspecified fracture of third thoracic vertebra, initial encounter for open fracture	Open fracture of T1-T6 level with central cord syndrome
S22049B	80633	Unspecified fracture of fourth thoracic vertebra, initial encounter for open fracture	Open fracture of T1-T6 level with central cord syndrome
S22059B	80633	Unspecified fracture of T5-T6 vertebra, initial encounter for open fracture	Open fracture of T1-T6 level with central cord syndrome
S24151A	80633	Other incomplete lesion at T1 level of thoracic spinal cord, initial encounter	Open fracture of T1-T6 level with central cord syndrome
S24152A	80633	Other incomplete lesion at T2-T6 level of thoracic spinal cord, initial encounter	Open fracture of T1-T6 level with central cord syndrome
S22019B	80634	Unspecified fracture of first thoracic vertebra, initial encounter for open fracture	Open fracture of T1-T6 level with other specified spinal cord injury
S22029B	80634	Unspecified fracture of second thoracic vertebra, initial encounter for open fracture	Open fracture of T1-T6 level with other specified spinal cord injury

Appendix A

Frailty markers

S22039B	80634	Unspecified fracture of third thoracic vertebra, initial encounter for open fracture	Open fracture of T1-T6 level with other specified spinal cord injury
S22049B	80634	Unspecified fracture of fourth thoracic vertebra, initial encounter for open fracture	Open fracture of T1-T6 level with other specified spinal cord injury
S22059B	80634	Unspecified fracture of T5-T6 vertebra, initial encounter for open fracture	Open fracture of T1-T6 level with other specified spinal cord injury
S24151A	80634	Other incomplete lesion at T1 level of thoracic spinal cord, initial encounter	Open fracture of T1-T6 level with other specified spinal cord injury
S24152A	80634	Other incomplete lesion at T2-T6 level of thoracic spinal cord, initial encounter	Open fracture of T1-T6 level with other specified spinal cord injury
S22069B	80635	Unspecified fracture of T7-T8 vertebra, initial encounter for open fracture	Open fracture of T7-T12 level with unspecified spinal cord injury
S22079B	80635	Unspecified fracture of T9-T10 vertebra, initial encounter for open fracture	Open fracture of T7-T12 level with unspecified spinal cord injury
S22089B	80635	Unspecified fracture of T11-T12 vertebra, initial encounter for open fracture	Open fracture of T7-T12 level with unspecified spinal cord injury
S24103A	80635	Unspecified injury at T7-T10 level of thoracic spinal cord, initial encounter	Open fracture of T7-T12 level with unspecified spinal cord injury
S24104A	80635	Unspecified injury at T11-T12 level of thoracic spinal cord, initial encounter	Open fracture of T7-T12 level with unspecified spinal cord injury
S22069B	80636	Unspecified fracture of T7-T8 vertebra, initial encounter for open fracture	Open fracture of T7-T12 level with complete lesion of cord
S22079B	80636	Unspecified fracture of T9-T10 vertebra, initial encounter for open fracture	Open fracture of T7-T12 level with complete lesion of cord
S22089B	80636	Unspecified fracture of T11-T12 vertebra, initial encounter for open fracture	Open fracture of T7-T12 level with complete lesion of cord
S24113A	80636	Complete lesion at T7-T10 level of thoracic spinal cord, initial encounter	Open fracture of T7-T12 level with complete lesion of cord
S24114A	80636	Complete lesion at T11-T12 level of thoracic spinal cord, initial encounter	Open fracture of T7-T12 level with complete lesion of cord
S22069B	80637	Unspecified fracture of T7-T8 vertebra, initial encounter for open fracture	Open fracture of T7-T12 level with anterior cord syndrome
S22079B	80637	Unspecified fracture of T9-T10 vertebra, initial encounter for open fracture	Open fracture of T7-T12 level with anterior cord syndrome
S22089B	80637	Unspecified fracture of T11-T12 vertebra, initial encounter for open fracture	Open fracture of T7-T12 level with anterior cord syndrome
S24133A	80637	Anterior cord syndrome at T7-T10 level of thoracic spinal cord, initial encounter	Open fracture of T7-T12 level with anterior cord syndrome
S24134A	80637	Anterior cord syndrome at T11-T12 level of thoracic spinal cord, initial encounter	Open fracture of T7-T12 level with anterior cord syndrome
S22069B	80638	Unspecified fracture of T7-T8 vertebra, initial encounter for open fracture	Open fracture of T7-T12 level with central cord syndrome
S22079B	80638	Unspecified fracture of T9-T10 vertebra, initial encounter for open fracture	Open fracture of T7-T12 level with central cord syndrome
S22089B	80638	Unspecified fracture of T11-T12 vertebra, initial encounter for open fracture	Open fracture of T7-T12 level with central cord syndrome
S24153A	80638	Other incomplete lesion at T7-T10 level of thoracic spinal cord, initial encounter	Open fracture of T7-T12 level with central cord syndrome
S24154A	80638	Other incomplete lesion at T11-T12 level of thoracic spinal cord, initial encounter	Open fracture of T7-T12 level with central cord syndrome
S22069B	80639	Unspecified fracture of T7-T8 vertebra, initial encounter for open fracture	Open fracture of T7-T12 level with other specified spinal cord injury
S22079B	80639	Unspecified fracture of T9-T10 vertebra, initial encounter for open fracture	Open fracture of T7-T12 level with other specified spinal cord injury
S22089B	80639	Unspecified fracture of T11-T12 vertebra, initial encounter for open fracture	Open fracture of T7-T12 level with other specified spinal cord injury
S24153A	80639	Other incomplete lesion at T7-T10 level of thoracic spinal cord, initial encounter	Open fracture of T7-T12 level with other specified spinal cord injury
S24154A	80639	Other incomplete lesion at T11-T12 level of thoracic spinal cord, initial encounter	Open fracture of T7-T12 level with other specified spinal cord injury
S32009A	8064	Unspecified fracture of unspecified lumbar vertebra, initial encounter for closed fracture	Closed fracture of lumbar spine with spinal cord injury

Appendix A

Frailty markers

[illegible]

Appendix A

Frailty markers

S34103A	8065	Unspecified injury to L3 level of lumbar spinal cord, initial encounter	Open fracture of lumbar spine with spinal cord injury
S34104A	8065	Unspecified injury to L4 level of lumbar spinal cord, initial encounter	Open fracture of lumbar spine with spinal cord injury
S34105A	8065	Unspecified injury to L5 level of lumbar spinal cord, initial encounter	Open fracture of lumbar spine with spinal cord injury
S34109A	8065	Unspecified injury to unspecified level of lumbar spinal cord, initial encounter	Open fracture of lumbar spine with spinal cord injury
S34111A	8065	Complete lesion of L1 level of lumbar spinal cord, initial encounter	Open fracture of lumbar spine with spinal cord injury
S34112A	8065	Complete lesion of L2 level of lumbar spinal cord, initial encounter	Open fracture of lumbar spine with spinal cord injury
S34113A	8065	Complete lesion of L3 level of lumbar spinal cord, initial encounter	Open fracture of lumbar spine with spinal cord injury
S34114A	8065	Complete lesion of L4 level of lumbar spinal cord, initial encounter	Open fracture of lumbar spine with spinal cord injury
S34115A	8065	Complete lesion of L5 level of lumbar spinal cord, initial encounter	Open fracture of lumbar spine with spinal cord injury
S34119A	8065	Complete lesion of unspecified level of lumbar spinal cord, initial encounter	Open fracture of lumbar spine with spinal cord injury
S34121A	8065	Incomplete lesion of L1 level of lumbar spinal cord, initial encounter	Open fracture of lumbar spine with spinal cord injury
S34122A	8065	Incomplete lesion of L2 level of lumbar spinal cord, initial encounter	Open fracture of lumbar spine with spinal cord injury
S34123A	8065	Incomplete lesion of L3 level of lumbar spinal cord, initial encounter	Open fracture of lumbar spine with spinal cord injury
S34124A	8065	Incomplete lesion of L4 level of lumbar spinal cord, initial encounter	Open fracture of lumbar spine with spinal cord injury
S34125A	8065	Incomplete lesion of L5 level of lumbar spinal cord, initial encounter	Open fracture of lumbar spine with spinal cord injury
S34129A	8065	Incomplete lesion of unspecified level of lumbar spinal cord, initial encounter	Open fracture of lumbar spine with spinal cord injury
S3210XA	80660	Unspecified fracture of sacrum, initial encounter for closed fracture	Closed fracture of sacrum and coccyx with unspecified spinal cord injury
S322XXA	80660	Fracture of coccyx, initial encounter for closed fracture	Closed fracture of sacrum and coccyx with unspecified spinal cord injury
S34139A	80660	Unspecified injury to sacral spinal cord, initial encounter	Closed fracture of sacrum and coccyx with unspecified spinal cord injury
S3210XA	80661	Unspecified fracture of sacrum, initial encounter for closed fracture	Closed fracture of sacrum and coccyx with complete cauda equina lesion
S322XXA	80661	Fracture of coccyx, initial encounter for closed fracture	Closed fracture of sacrum and coccyx with complete cauda equina lesion
S343XXA	80661	Injury of cauda equina, initial encounter	Closed fracture of sacrum and coccyx with complete cauda equina lesion
S3210XA	80662	Unspecified fracture of sacrum, initial encounter for closed fracture	Closed fracture of sacrum and coccyx with other cauda equina injury
S322XXA	80662	Fracture of coccyx, initial encounter for closed fracture	Closed fracture of sacrum and coccyx with other cauda equina injury
S343XXA	80662	Injury of cauda equina, initial encounter	Closed fracture of sacrum and coccyx with other cauda equina injury
S3210XA	80669	Unspecified fracture of sacrum, initial encounter for closed fracture	Closed fracture of sacrum and coccyx with other spinal cord injury
S322XXA	80669	Fracture of coccyx, initial encounter for closed fracture	Closed fracture of sacrum and coccyx with other spinal cord injury
S34131A	80669	Complete lesion of sacral spinal cord, initial encounter	Closed fracture of sacrum and coccyx with other spinal cord injury
S34132A	80669	Incomplete lesion of sacral spinal cord, initial encounter	Closed fracture of sacrum and coccyx with other spinal cord injury
S3210XB	80670	Unspecified fracture of sacrum, initial encounter for open fracture	Open fracture of sacrum and coccyx with unspecified spinal cord injury
S322XXB	80670	Fracture of coccyx, initial encounter for open fracture	Open fracture of sacrum and coccyx with unspecified spinal cord injury

Appendix A

Frailty markers

S34139A	80670	Unspecified injury to sacral spinal cord, initial encounter	Open fracture of sacrum and coccyx with unspecified spinal cord injury
S3210XB	80671	Unspecified fracture of sacrum, initial encounter for open fracture	Open fracture of sacrum and coccyx with complete cauda equina lesion
S322XXB	80671	Fracture of coccyx, initial encounter for open fracture	Open fracture of sacrum and coccyx with complete cauda equina lesion
S343XXA	80671	Injury of cauda equina, initial encounter	Open fracture of sacrum and coccyx with complete cauda equina lesion
S3210XB	80672	Unspecified fracture of sacrum, initial encounter for open fracture	Open fracture of sacrum and coccyx with other cauda equina injury
S322XXB	80672	Fracture of coccyx, initial encounter for open fracture	Open fracture of sacrum and coccyx with other cauda equina injury
S343XXA	80672	Injury of cauda equina, initial encounter	Open fracture of sacrum and coccyx with other cauda equina injury
S3210XB	80679	Unspecified fracture of sacrum, initial encounter for open fracture	Open fracture of sacrum and coccyx with other spinal cord injury
S322XXB	80679	Fracture of coccyx, initial encounter for open fracture	Open fracture of sacrum and coccyx with other spinal cord injury
S34131A	80679	Complete lesion of sacral spinal cord, initial encounter	Open fracture of sacrum and coccyx with other spinal cord injury
S34132A	80679	Incomplete lesion of sacral spinal cord, initial encounter	Open fracture of sacrum and coccyx with other spinal cord injury
S129XXA	8068	Fracture of neck, unspecified, initial encounter	Closed fracture of unspecified vertebral column with spinal cord injury
S14109A	8068	Unspecified injury at unspecified level of cervical spinal cord, initial encounter	Closed fracture of unspecified vertebral column with spinal cord injury
S22009A	8068	Unspecified fracture of unspecified thoracic vertebra, initial encounter for closed fracture	Closed fracture of unspecified vertebral column with spinal cord injury
S24109A	8068	Unspecified injury at unspecified level of thoracic spinal cord, initial encounter	Closed fracture of unspecified vertebral column with spinal cord injury
S32009A	8068	Unspecified fracture of unspecified lumbar vertebra, initial encounter for closed fracture	Closed fracture of unspecified vertebral column with spinal cord injury
S3210XA	8068	Unspecified fracture of sacrum, initial encounter for closed fracture	Closed fracture of unspecified vertebral column with spinal cord injury
S34109A	8068	Unspecified injury to unspecified level of lumbar spinal cord, initial encounter	Closed fracture of unspecified vertebral column with spinal cord injury
S34139A	8068	Unspecified injury to sacral spinal cord, initial encounter	Closed fracture of unspecified vertebral column with spinal cord injury
S129XXA	8069	Fracture of neck, unspecified, initial encounter	Open fracture of unspecified vertebral column with spinal cord injury
S14109A	8069	Unspecified injury at unspecified level of cervical spinal cord, initial encounter	Open fracture of unspecified vertebral column with spinal cord injury
S22009B	8069	Unspecified fracture of unspecified thoracic vertebra, initial encounter for open fracture	Open fracture of unspecified vertebral column with spinal cord injury
S24109A	8069	Unspecified injury at unspecified level of thoracic spinal cord, initial encounter	Open fracture of unspecified vertebral column with spinal cord injury
S32009B	8069	Unspecified fracture of unspecified lumbar vertebra, initial encounter for open fracture	Open fracture of unspecified vertebral column with spinal cord injury
S3210XB	8069	Unspecified fracture of sacrum, initial encounter for open fracture	Open fracture of unspecified vertebral column with spinal cord injury
S34109A	8069	Unspecified injury to unspecified level of lumbar spinal cord, initial encounter	Open fracture of unspecified vertebral column with spinal cord injury
S34139A	8069	Unspecified injury to sacral spinal cord, initial encounter	Open fracture of unspecified vertebral column with spinal cord injury
S2231XA	80701	Fracture of one rib, right side, initial encounter for closed fracture	Closed fracture of one rib
S2232XA	80701	Fracture of one rib, left side, initial encounter for closed fracture	Closed fracture of one rib
S2241XA	80702	Multiple fractures of ribs, right side, initial encounter for closed fracture	Closed fracture of two ribs
S2242XA	80702	Multiple fractures of ribs, left side, initial encounter for closed fracture	Closed fracture of two ribs

Appendix A
Frailty markers

S2243XA	80702	Multiple fractures of ribs, bilateral, initial encounter for closed fracture	Closed fracture of two ribs
S2241XA	80703	Multiple fractures of ribs, right side, initial encounter for closed fracture	Closed fracture of three ribs
S2242XA	80703	Multiple fractures of ribs, left side, initial encounter for closed fracture	Closed fracture of three ribs
S2243XA	80703	Multiple fractures of ribs, bilateral, initial encounter for closed fracture	Closed fracture of three ribs
S2249XA	80703	Multiple fractures of ribs, unspecified side, initial encounter for closed fracture	Closed fracture of three ribs
S2241XA	80704	Multiple fractures of ribs, right side, initial encounter for closed fracture	Closed fracture of four ribs
S2242XA	80704	Multiple fractures of ribs, left side, initial encounter for closed fracture	Closed fracture of four ribs
S2243XA	80704	Multiple fractures of ribs, bilateral, initial encounter for closed fracture	Closed fracture of four ribs
S2249XA	80704	Multiple fractures of ribs, unspecified side, initial encounter for closed fracture	Closed fracture of four ribs
S2241XA	80705	Multiple fractures of ribs, right side, initial encounter for closed fracture	Closed fracture of five ribs
S2242XA	80705	Multiple fractures of ribs, left side, initial encounter for closed fracture	Closed fracture of five ribs
S2243XA	80705	Multiple fractures of ribs, bilateral, initial encounter for closed fracture	Closed fracture of five ribs
S2249XA	80705	Multiple fractures of ribs, unspecified side, initial encounter for closed fracture	Closed fracture of five ribs
S2241XA	80706	Multiple fractures of ribs, right side, initial encounter for closed fracture	Closed fracture of six ribs
S2242XA	80706	Multiple fractures of ribs, left side, initial encounter for closed fracture	Closed fracture of six ribs
S2243XA	80706	Multiple fractures of ribs, bilateral, initial encounter for closed fracture	Closed fracture of six ribs
S2249XA	80706	Multiple fractures of ribs, unspecified side, initial encounter for closed fracture	Closed fracture of six ribs
S2241XA	80707	Multiple fractures of ribs, right side, initial encounter for closed fracture	Closed fracture of seven ribs
S2242XA	80707	Multiple fractures of ribs, left side, initial encounter for closed fracture	Closed fracture of seven ribs
S2243XA	80707	Multiple fractures of ribs, bilateral, initial encounter for closed fracture	Closed fracture of seven ribs
S2249XA	80707	Multiple fractures of ribs, unspecified side, initial encounter for closed fracture	Closed fracture of seven ribs
S2241XA	80708	Multiple fractures of ribs, right side, initial encounter for closed fracture	Closed fracture of eight or more ribs
S2242XA	80708	Multiple fractures of ribs, left side, initial encounter for closed fracture	Closed fracture of eight or more ribs
S2243XA	80708	Multiple fractures of ribs, bilateral, initial encounter for closed fracture	Closed fracture of eight or more ribs
S2249XA	80708	Multiple fractures of ribs, unspecified side, initial encounter for closed fracture	Closed fracture of eight or more ribs
S2241XA	80709	Multiple fractures of ribs, right side, initial encounter for closed fracture	Closed fracture of multiple ribs, unspecified
S2242XA	80709	Multiple fractures of ribs, left side, initial encounter for closed fracture	Closed fracture of multiple ribs, unspecified
S2243XA	80709	Multiple fractures of ribs, bilateral, initial encounter for closed fracture	Closed fracture of multiple ribs, unspecified
S2239XB	80710	Fracture of one rib, unspecified side, initial encounter for open fracture	Open fracture of rib(s), unspecified
S2231XB	80711	Fracture of one rib, right side, initial encounter for open fracture	Open fracture of one rib
S2232XB	80711	Fracture of one rib, left side, initial encounter for open fracture	Open fracture of one rib

Appendix A

Frailty markers

S2241XB	80712	Multiple fractures of ribs, right side, initial encounter for open fracture	Open fracture of two ribs
S2242XB	80712	Multiple fractures of ribs, left side, initial encounter for open fracture	Open fracture of two ribs
S2243XB	80712	Multiple fractures of ribs, bilateral, initial encounter for open fracture	Open fracture of two ribs
S2241XB	80713	Multiple fractures of ribs, right side, initial encounter for open fracture	Open fracture of three ribs
S2242XB	80713	Multiple fractures of ribs, left side, initial encounter for open fracture	Open fracture of three ribs
S2243XB	80713	Multiple fractures of ribs, bilateral, initial encounter for open fracture	Open fracture of three ribs
S2249XB	80713	Multiple fractures of ribs, unspecified side, initial encounter for open fracture	Open fracture of three ribs
S2241XB	80714	Multiple fractures of ribs, right side, initial encounter for open fracture	Open fracture of four ribs
S2242XB	80714	Multiple fractures of ribs, left side, initial encounter for open fracture	Open fracture of four ribs
S2243XB	80714	Multiple fractures of ribs, bilateral, initial encounter for open fracture	Open fracture of four ribs
S2249XB	80714	Multiple fractures of ribs, unspecified side, initial encounter for open fracture	Open fracture of four ribs
S2241XB	80715	Multiple fractures of ribs, right side, initial encounter for open fracture	Open fracture of five ribs
S2242XB	80715	Multiple fractures of ribs, left side, initial encounter for open fracture	Open fracture of five ribs
S2243XB	80715	Multiple fractures of ribs, bilateral, initial encounter for open fracture	Open fracture of five ribs
S2249XB	80715	Multiple fractures of ribs, unspecified side, initial encounter for open fracture	Open fracture of five ribs
S2241XB	80716	Multiple fractures of ribs, right side, initial encounter for open fracture	Open fracture of six ribs
S2242XB	80716	Multiple fractures of ribs, left side, initial encounter for open fracture	Open fracture of six ribs
S2243XB	80716	Multiple fractures of ribs, bilateral, initial encounter for open fracture	Open fracture of six ribs
S2249XB	80716	Multiple fractures of ribs, unspecified side, initial encounter for open fracture	Open fracture of six ribs
S2241XB	80717	Multiple fractures of ribs, right side, initial encounter for open fracture	Open fracture of seven ribs
S2242XB	80717	Multiple fractures of ribs, left side, initial encounter for open fracture	Open fracture of seven ribs
S2243XB	80717	Multiple fractures of ribs, bilateral, initial encounter for open fracture	Open fracture of seven ribs
S2249XB	80717	Multiple fractures of ribs, unspecified side, initial encounter for open fracture	Open fracture of seven ribs
S2241XB	80718	Multiple fractures of ribs, right side, initial encounter for open fracture	Open fracture of eight or more ribs
S2242XB	80718	Multiple fractures of ribs, left side, initial encounter for open fracture	Open fracture of eight or more ribs
S2243XB	80718	Multiple fractures of ribs, bilateral, initial encounter for open fracture	Open fracture of eight or more ribs
S2249XB	80718	Multiple fractures of ribs, unspecified side, initial encounter for open fracture	Open fracture of eight or more ribs
S2241XB	80719	Multiple fractures of ribs, right side, initial encounter for open fracture	Open fracture of multiple ribs, unspecified
S2242XB	80719	Multiple fractures of ribs, left side, initial encounter for open fracture	Open fracture of multiple ribs, unspecified
S2243XB	80719	Multiple fractures of ribs, bilateral, initial encounter for open fracture	Open fracture of multiple ribs, unspecified
S2221XA	8072	Fracture of manubrium, initial encounter for closed fracture	Closed fracture of sternum

Appendix A

Frailty markers

S2222XA	8072	Fracture of body of sternum, initial encounter for closed fracture	Closed fracture of sternum
S2223XA	8072	Sternal manubrial dissociation, initial encounter for closed fracture	Closed fracture of sternum
S2224XA	8072	Fracture of xiphoid process, initial encounter for closed fracture	Closed fracture of sternum
S2221XB	8073	Fracture of manubrium, initial encounter for open fracture	Open fracture of sternum
S2222XB	8073	Fracture of body of sternum, initial encounter for open fracture	Open fracture of sternum
S2223XB	8073	Sternal manubrial dissociation, initial encounter for open fracture	Open fracture of sternum
S2224XB	8073	Fracture of xiphoid process, initial encounter for open fracture	Open fracture of sternum
S128XXA	8076	Fracture of other parts of neck, initial encounter	Open fracture of larynx and trachea
S32401A	8080	Unspecified fracture of right acetabulum, initial encounter for closed fracture	Closed fracture of acetabulum
S32402A	8080	Unspecified fracture of left acetabulum, initial encounter for closed fracture	Closed fracture of acetabulum
S32411A	8080	Displaced fracture of anterior wall of right acetabulum, initial encounter for closed fracture	Closed fracture of acetabulum
S32412A	8080	Displaced fracture of anterior wall of left acetabulum, initial encounter for closed fracture	Closed fracture of acetabulum
S32413A	8080	Displaced fracture of anterior wall of unspecified acetabulum, initial encounter for closed fracture	Closed fracture of acetabulum
S32414A	8080	Nondisplaced fracture of anterior wall of right acetabulum, initial encounter for closed fracture	Closed fracture of acetabulum
S32415A	8080	Nondisplaced fracture of anterior wall of left acetabulum, initial encounter for closed fracture	Closed fracture of acetabulum
S32416A	8080	Nondisplaced fracture of anterior wall of unspecified acetabulum, initial encounter for closed fracture	Closed fracture of acetabulum
S32421A	8080	Displaced fracture of posterior wall of right acetabulum, initial encounter for closed fracture	Closed fracture of acetabulum
S32422A	8080	Displaced fracture of posterior wall of left acetabulum, initial encounter for closed fracture	Closed fracture of acetabulum
S32423A	8080	Displaced fracture of posterior wall of unspecified acetabulum, initial encounter for closed fracture	Closed fracture of acetabulum
S32424A	8080	Nondisplaced fracture of posterior wall of right acetabulum, initial encounter for closed fracture	Closed fracture of acetabulum
S32425A	8080	Nondisplaced fracture of posterior wall of left acetabulum, initial encounter for closed fracture	Closed fracture of acetabulum
S32426A	8080	Nondisplaced fracture of posterior wall of unspecified acetabulum, initial encounter for closed fracture	Closed fracture of acetabulum
S32431A	8080	Displaced fracture of anterior column [iliopubic] of right acetabulum, initial encounter for closed fracture	Closed fracture of acetabulum
S32432A	8080	Displaced fracture of anterior column [iliopubic] of left acetabulum, initial encounter for closed fracture	Closed fracture of acetabulum
S32433A	8080	Displaced fracture of anterior column [iliopubic] of unspecified acetabulum, initial encounter for closed fracture	Closed fracture of acetabulum
S32434A	8080	Nondisplaced fracture of anterior column [iliopubic] of right acetabulum, initial encounter for closed fracture	Closed fracture of acetabulum
S32435A	8080	Nondisplaced fracture of anterior column [iliopubic] of left acetabulum, initial encounter for closed fracture	Closed fracture of acetabulum
S32436A	8080	Nondisplaced fracture of anterior column [iliopubic] of unspecified acetabulum, initial encounter for closed fracture	Closed fracture of acetabulum
S32441A	8080	Displaced fracture of posterior column [ilioischial] of right acetabulum, initial encounter for closed fracture	Closed fracture of acetabulum
S32442A	8080	Displaced fracture of posterior column [ilioischial] of left acetabulum, initial encounter for closed fracture	Closed fracture of acetabulum

Appendix A

Frailty markers

S32443A	8080	Displaced fracture of posterior column [ilioischial] of unspecified acetabulum, initial encounter for closed fracture	Closed fracture of acetabulum
S32444A	8080	Nondisplaced fracture of posterior column [ilioischial] of right acetabulum, initial encounter for closed fracture	Closed fracture of acetabulum
S32445A	8080	Nondisplaced fracture of posterior column [ilioischial] of left acetabulum, initial encounter for closed fracture	Closed fracture of acetabulum
S32446A	8080	Nondisplaced fracture of posterior column [ilioischial] of unspecified acetabulum, initial encounter for closed fracture	Closed fracture of acetabulum
S32451A	8080	Displaced transverse fracture of right acetabulum, initial encounter for closed fracture	Closed fracture of acetabulum
S32452A	8080	Displaced transverse fracture of left acetabulum, initial encounter for closed fracture	Closed fracture of acetabulum
S32453A	8080	Displaced transverse fracture of unspecified acetabulum, initial encounter for closed fracture	Closed fracture of acetabulum
S32454A	8080	Nondisplaced transverse fracture of right acetabulum, initial encounter for closed fracture	Closed fracture of acetabulum
S32455A	8080	Nondisplaced transverse fracture of left acetabulum, initial encounter for closed fracture	Closed fracture of acetabulum
S32456A	8080	Nondisplaced transverse fracture of unspecified acetabulum, initial encounter for closed fracture	Closed fracture of acetabulum
S32461A	8080	Displaced associated transverse-posterior fracture of right acetabulum, initial encounter for closed fracture	Closed fracture of acetabulum
S32462A	8080	Displaced associated transverse-posterior fracture of left acetabulum, initial encounter for closed fracture	Closed fracture of acetabulum
S32463A	8080	Displaced associated transverse-posterior fracture of unspecified acetabulum, initial encounter for closed fracture	Closed fracture of acetabulum
S32464A	8080	Nondisplaced associated transverse-posterior fracture of right acetabulum, initial encounter for closed fracture	Closed fracture of acetabulum
S32465A	8080	Nondisplaced associated transverse-posterior fracture of left acetabulum, initial encounter for closed fracture	Closed fracture of acetabulum
S32466A	8080	Nondisplaced associated transverse-posterior fracture of unspecified acetabulum, initial encounter for closed fracture	Closed fracture of acetabulum
S32471A	8080	Displaced fracture of medial wall of right acetabulum, initial encounter for closed fracture	Closed fracture of acetabulum
S32472A	8080	Displaced fracture of medial wall of left acetabulum, initial encounter for closed fracture	Closed fracture of acetabulum
S32473A	8080	Displaced fracture of medial wall of unspecified acetabulum, initial encounter for closed fracture	Closed fracture of acetabulum
S32474A	8080	Nondisplaced fracture of medial wall of right acetabulum, initial encounter for closed fracture	Closed fracture of acetabulum
S32475A	8080	Nondisplaced fracture of medial wall of left acetabulum, initial encounter for closed fracture	Closed fracture of acetabulum
S32476A	8080	Nondisplaced fracture of medial wall of unspecified acetabulum, initial encounter for closed fracture	Closed fracture of acetabulum
S32481A	8080	Displaced dome fracture of right acetabulum, initial encounter for closed fracture	Closed fracture of acetabulum
S32482A	8080	Displaced dome fracture of left acetabulum, initial encounter for closed fracture	Closed fracture of acetabulum
S32483A	8080	Displaced dome fracture of unspecified acetabulum, initial encounter for closed fracture	Closed fracture of acetabulum
S32484A	8080	Nondisplaced dome fracture of right acetabulum, initial encounter for closed fracture	Closed fracture of acetabulum
S32485A	8080	Nondisplaced dome fracture of left acetabulum, initial encounter for closed fracture	Closed fracture of acetabulum
S32486A	8080	Nondisplaced dome fracture of unspecified acetabulum, initial encounter for closed fracture	Closed fracture of acetabulum
S32491A	8080	Other specified fracture of right acetabulum, initial encounter for closed fracture	Closed fracture of acetabulum

Appendix A

Frailty markers

S32492A	8080	Other specified fracture of left acetabulum, initial encounter for closed fracture	Closed fracture of acetabulum
S32499A	8080	Other specified fracture of unspecified acetabulum, initial encounter for closed fracture	Closed fracture of acetabulum
S32401B	8081	Unspecified fracture of right acetabulum, initial encounter for open fracture	Open fracture of acetabulum
S32402B	8081	Unspecified fracture of left acetabulum, initial encounter for open fracture	Open fracture of acetabulum
S32411B	8081	Displaced fracture of anterior wall of right acetabulum, initial encounter for open fracture	Open fracture of acetabulum
S32412B	8081	Displaced fracture of anterior wall of left acetabulum, initial encounter for open fracture	Open fracture of acetabulum
S32413B	8081	Displaced fracture of anterior wall of unspecified acetabulum, initial encounter for open fracture	Open fracture of acetabulum
S32414B	8081	Nondisplaced fracture of anterior wall of right acetabulum, initial encounter for open fracture	Open fracture of acetabulum
S32415B	8081	Nondisplaced fracture of anterior wall of left acetabulum, initial encounter for open fracture	Open fracture of acetabulum
S32416B	8081	Nondisplaced fracture of anterior wall of unspecified acetabulum, initial encounter for open fracture	Open fracture of acetabulum
S32421B	8081	Displaced fracture of posterior wall of right acetabulum, initial encounter for open fracture	Open fracture of acetabulum
S32422B	8081	Displaced fracture of posterior wall of left acetabulum, initial encounter for open fracture	Open fracture of acetabulum
S32423B	8081	Displaced fracture of posterior wall of unspecified acetabulum, initial encounter for open fracture	Open fracture of acetabulum
S32424B	8081	Nondisplaced fracture of posterior wall of right acetabulum, initial encounter for open fracture	Open fracture of acetabulum
S32425B	8081	Nondisplaced fracture of posterior wall of left acetabulum, initial encounter for open fracture	Open fracture of acetabulum
S32426B	8081	Nondisplaced fracture of posterior wall of unspecified acetabulum, initial encounter for open fracture	Open fracture of acetabulum
S32431B	8081	Displaced fracture of anterior column [iliopubic] of right acetabulum, initial encounter for open fracture	Open fracture of acetabulum
S32432B	8081	Displaced fracture of anterior column [iliopubic] of left acetabulum, initial encounter for open fracture	Open fracture of acetabulum
S32433B	8081	Displaced fracture of anterior column [iliopubic] of unspecified acetabulum, initial encounter for open fracture	Open fracture of acetabulum
S32434B	8081	Nondisplaced fracture of anterior column [iliopubic] of right acetabulum, initial encounter for open fracture	Open fracture of acetabulum
S32435B	8081	Nondisplaced fracture of anterior column [iliopubic] of left acetabulum, initial encounter for open fracture	Open fracture of acetabulum
S32436B	8081	Nondisplaced fracture of anterior column [iliopubic] of unspecified acetabulum, initial encounter for open fracture	Open fracture of acetabulum
S32441B	8081	Displaced fracture of posterior column [ilioischial] of right acetabulum, initial encounter for open fracture	Open fracture of acetabulum
S32442B	8081	Displaced fracture of posterior column [ilioischial] of left acetabulum, initial encounter for open fracture	Open fracture of acetabulum
S32443B	8081	Displaced fracture of posterior column [ilioischial] of unspecified acetabulum, initial encounter for open fracture	Open fracture of acetabulum
S32444B	8081	Nondisplaced fracture of posterior column [ilioischial] of right acetabulum, initial encounter for open fracture	Open fracture of acetabulum
S32445B	8081	Nondisplaced fracture of posterior column [ilioischial] of left acetabulum, initial encounter for open fracture	Open fracture of acetabulum
S32446B	8081	Nondisplaced fracture of posterior column [ilioischial] of unspecified acetabulum, initial encounter for open fracture	Open fracture of acetabulum
S32451B	8081	Displaced transverse fracture of right acetabulum, initial encounter for open fracture	Open fracture of acetabulum
S32452B	8081	Displaced transverse fracture of left acetabulum, initial encounter for open fracture	Open fracture of acetabulum
S32453B	8081	Displaced transverse fracture of unspecified acetabulum, initial encounter for open fracture	Open fracture of acetabulum

Appendix A

Frailty markers

S32454B	8081	Nondisplaced transverse fracture of right acetabulum, initial encounter for open fracture	Open fracture of acetabulum
S32455B	8081	Nondisplaced transverse fracture of left acetabulum, initial encounter for open fracture	Open fracture of acetabulum
S32456B	8081	Nondisplaced transverse fracture of unspecified acetabulum, initial encounter for open fracture	Open fracture of acetabulum
S32461B	8081	Displaced associated transverse-posterior fracture of right acetabulum, initial encounter for open fracture	Open fracture of acetabulum
S32462B	8081	Displaced associated transverse-posterior fracture of left acetabulum, initial encounter for open fracture	Open fracture of acetabulum
S32463B	8081	Displaced associated transverse-posterior fracture of unspecified acetabulum, initial encounter for open fracture	Open fracture of acetabulum
S32464B	8081	Nondisplaced associated transverse-posterior fracture of right acetabulum, initial encounter for open fracture	Open fracture of acetabulum
S32465B	8081	Nondisplaced associated transverse-posterior fracture of left acetabulum, initial encounter for open fracture	Open fracture of acetabulum
S32466B	8081	Nondisplaced associated transverse-posterior fracture of unspecified acetabulum, initial encounter for open fracture	Open fracture of acetabulum
S32471B	8081	Displaced fracture of medial wall of right acetabulum, initial encounter for open fracture	Open fracture of acetabulum
S32472B	8081	Displaced fracture of medial wall of left acetabulum, initial encounter for open fracture	Open fracture of acetabulum
S32473B	8081	Displaced fracture of medial wall of unspecified acetabulum, initial encounter for open fracture	Open fracture of acetabulum
S32474B	8081	Nondisplaced fracture of medial wall of right acetabulum, initial encounter for open fracture	Open fracture of acetabulum
S32475B	8081	Nondisplaced fracture of medial wall of left acetabulum, initial encounter for open fracture	Open fracture of acetabulum
S32476B	8081	Nondisplaced fracture of medial wall of unspecified acetabulum, initial encounter for open fracture	Open fracture of acetabulum
S32481B	8081	Displaced dome fracture of right acetabulum, initial encounter for open fracture	Open fracture of acetabulum
S32482B	8081	Displaced dome fracture of left acetabulum, initial encounter for open fracture	Open fracture of acetabulum
S32483B	8081	Displaced dome fracture of unspecified acetabulum, initial encounter for open fracture	Open fracture of acetabulum
S32484B	8081	Nondisplaced dome fracture of right acetabulum, initial encounter for open fracture	Open fracture of acetabulum
S32485B	8081	Nondisplaced dome fracture of left acetabulum, initial encounter for open fracture	Open fracture of acetabulum
S32486B	8081	Nondisplaced dome fracture of unspecified acetabulum, initial encounter for open fracture	Open fracture of acetabulum
S32491B	8081	Other specified fracture of right acetabulum, initial encounter for open fracture	Open fracture of acetabulum
S32492B	8081	Other specified fracture of left acetabulum, initial encounter for open fracture	Open fracture of acetabulum
S32499B	8081	Other specified fracture of unspecified acetabulum, initial encounter for open fracture	Open fracture of acetabulum
S32511A	8082	Fracture of superior rim of right pubis, initial encounter for closed fracture	Closed fracture of pubis
S32512A	8082	Fracture of superior rim of left pubis, initial encounter for closed fracture	Closed fracture of pubis
S32519A	8082	Fracture of superior rim of unspecified pubis, initial encounter for closed fracture	Closed fracture of pubis
S32591A	8082	Other specified fracture of right pubis, initial encounter for closed fracture	Closed fracture of pubis
S32592A	8082	Other specified fracture of left pubis, initial encounter for closed fracture	Closed fracture of pubis
S32599A	8082	Other specified fracture of unspecified pubis, initial encounter for closed fracture	Closed fracture of pubis
S32511B	8083	Fracture of superior rim of right pubis, initial encounter for open fracture	Open fracture of pubis

Appendix A

Frailty markers

S32512B	8083	Fracture of superior rim of left pubis, initial encounter for open fracture	Open fracture of pubis
S32519B	8083	Fracture of superior rim of unspecified pubis, initial encounter for open fracture	Open fracture of pubis
S32591B	8083	Other specified fracture of right pubis, initial encounter for open fracture	Open fracture of pubis
S32592B	8083	Other specified fracture of left pubis, initial encounter for open fracture	Open fracture of pubis
S32599B	8083	Other specified fracture of unspecified pubis, initial encounter for open fracture	Open fracture of pubis
S32301A	80841	Unspecified fracture of right ilium, initial encounter for closed fracture	Closed fracture of ilium
S32302A	80841	Unspecified fracture of left ilium, initial encounter for closed fracture	Closed fracture of ilium
S32311A	80841	Displaced avulsion fracture of right ilium, initial encounter for closed fracture	Closed fracture of ilium
S32312A	80841	Displaced avulsion fracture of left ilium, initial encounter for closed fracture	Closed fracture of ilium
S32313A	80841	Displaced avulsion fracture of unspecified ilium, initial encounter for closed fracture	Closed fracture of ilium
S32314A	80841	Nondisplaced avulsion fracture of right ilium, initial encounter for closed fracture	Closed fracture of ilium
S32315A	80841	Nondisplaced avulsion fracture of left ilium, initial encounter for closed fracture	Closed fracture of ilium
S32316A	80841	Nondisplaced avulsion fracture of unspecified ilium, initial encounter for closed fracture	Closed fracture of ilium
S32391A	80841	Other fracture of right ilium, initial encounter for closed fracture	Closed fracture of ilium
S32392A	80841	Other fracture of left ilium, initial encounter for closed fracture	Closed fracture of ilium
S32399A	80841	Other fracture of unspecified ilium, initial encounter for closed fracture	Closed fracture of ilium
S32601A	80842	Unspecified fracture of right ischium, initial encounter for closed fracture	Closed fracture of ischium
S32602A	80842	Unspecified fracture of left ischium, initial encounter for closed fracture	Closed fracture of ischium
S32611A	80842	Displaced avulsion fracture of right ischium, initial encounter for closed fracture	Closed fracture of ischium
S32612A	80842	Displaced avulsion fracture of left ischium, initial encounter for closed fracture	Closed fracture of ischium
S32613A	80842	Displaced avulsion fracture of unspecified ischium, initial encounter for closed fracture	Closed fracture of ischium
S32614A	80842	Nondisplaced avulsion fracture of right ischium, initial encounter for closed fracture	Closed fracture of ischium
S32615A	80842	Nondisplaced avulsion fracture of left ischium, initial encounter for closed fracture	Closed fracture of ischium
S32616A	80842	Nondisplaced avulsion fracture of unspecified ischium, initial encounter for closed fracture	Closed fracture of ischium
S32691A	80842	Other specified fracture of right ischium, initial encounter for closed fracture	Closed fracture of ischium
S32692A	80842	Other specified fracture of left ischium, initial encounter for closed fracture	Closed fracture of ischium
S32699A	80842	Other specified fracture of unspecified ischium, initial encounter for closed fracture	Closed fracture of ischium
S329XXA	80849	Fracture of unspecified parts of lumbosacral spine and pelvis, initial encounter for closed fracture	Closed fracture of other specified part of pelvis
S32301B	80851	Unspecified fracture of right ilium, initial encounter for open fracture	Open fracture of ilium
S32302B	80851	Unspecified fracture of left ilium, initial encounter for open fracture	Open fracture of ilium
S32311B	80851	Displaced avulsion fracture of right ilium, initial encounter for open fracture	Open fracture of ilium

Appendix A

Frailty markers

S32312B	80851	Displaced avulsion fracture of left ilium, initial encounter for open fracture	Open fracture of ilium
S32313B	80851	Displaced avulsion fracture of unspecified ilium, initial encounter for open fracture	Open fracture of ilium
S32314B	80851	Nondisplaced avulsion fracture of right ilium, initial encounter for open fracture	Open fracture of ilium
S32315B	80851	Nondisplaced avulsion fracture of left ilium, initial encounter for open fracture	Open fracture of ilium
S32316B	80851	Nondisplaced avulsion fracture of unspecified ilium, initial encounter for open fracture	Open fracture of ilium
S32391B	80851	Other fracture of right ilium, initial encounter for open fracture	Open fracture of ilium
S32392B	80851	Other fracture of left ilium, initial encounter for open fracture	Open fracture of ilium
S32399B	80851	Other fracture of unspecified ilium, initial encounter for open fracture	Open fracture of ilium
S32601B	80852	Unspecified fracture of right ischium, initial encounter for open fracture	Open fracture of ischium
S32602B	80852	Unspecified fracture of left ischium, initial encounter for open fracture	Open fracture of ischium
S32611B	80852	Displaced avulsion fracture of right ischium, initial encounter for open fracture	Open fracture of ischium
S32612B	80852	Displaced avulsion fracture of left ischium, initial encounter for open fracture	Open fracture of ischium
S32613B	80852	Displaced avulsion fracture of unspecified ischium, initial encounter for open fracture	Open fracture of ischium
S32614B	80852	Nondisplaced avulsion fracture of right ischium, initial encounter for open fracture	Open fracture of ischium
S32615B	80852	Nondisplaced avulsion fracture of left ischium, initial encounter for open fracture	Open fracture of ischium
S32616B	80852	Nondisplaced avulsion fracture of unspecified ischium, initial encounter for open fracture	Open fracture of ischium
S32691B	80852	Other specified fracture of right ischium, initial encounter for open fracture	Open fracture of ischium
S32692B	80852	Other specified fracture of left ischium, initial encounter for open fracture	Open fracture of ischium
S32699B	80852	Other specified fracture of unspecified ischium, initial encounter for open fracture	Open fracture of ischium
S329XXB	80859	Fracture of unspecified parts of lumbosacral spine and pelvis, initial encounter for open fracture	Open fracture of other specified part of pelvis
S42001A	81000	Fracture of unspecified part of right clavicle, initial encounter for closed fracture	Closed fracture of clavicle, unspecified part
S42002A	81000	Fracture of unspecified part of left clavicle, initial encounter for closed fracture	Closed fracture of clavicle, unspecified part
S42011A	81001	Anterior displaced fracture of sternal end of right clavicle, initial encounter for closed fracture	Closed fracture of sternal end of clavicle
S42012A	81001	Anterior displaced fracture of sternal end of left clavicle, initial encounter for closed fracture	Closed fracture of sternal end of clavicle
S42014A	81001	Posterior displaced fracture of sternal end of right clavicle, initial encounter for closed fracture	Closed fracture of sternal end of clavicle
S42015A	81001	Posterior displaced fracture of sternal end of left clavicle, initial encounter for closed fracture	Closed fracture of sternal end of clavicle
S42017A	81001	Nondisplaced fracture of sternal end of right clavicle, initial encounter for closed fracture	Closed fracture of sternal end of clavicle
S42018A	81001	Nondisplaced fracture of sternal end of left clavicle, initial encounter for closed fracture	Closed fracture of sternal end of clavicle
S42021A	81002	Displaced fracture of shaft of right clavicle, initial encounter for closed fracture	Closed fracture of shaft of clavicle
S42022A	81002	Displaced fracture of shaft of left clavicle, initial encounter for closed fracture	Closed fracture of shaft of clavicle
S42024A	81002	Nondisplaced fracture of shaft of right clavicle, initial encounter for closed fracture	Closed fracture of shaft of clavicle

Appendix A

Frailty markers

S42025A	81002	Nondisplaced fracture of shaft of left clavicle, initial encounter for closed fracture	Closed fracture of shaft of clavicle
S42031A	81003	Displaced fracture of lateral end of right clavicle, initial encounter for closed fracture	Closed fracture of acromial end of clavicle
S42032A	81003	Displaced fracture of lateral end of left clavicle, initial encounter for closed fracture	Closed fracture of acromial end of clavicle
S42034A	81003	Nondisplaced fracture of lateral end of right clavicle, initial encounter for closed fracture	Closed fracture of acromial end of clavicle
S42035A	81003	Nondisplaced fracture of lateral end of left clavicle, initial encounter for closed fracture	Closed fracture of acromial end of clavicle
S42001B	81010	Fracture of unspecified part of right clavicle, initial encounter for open fracture	Open fracture of clavicle, unspecified part
S42002B	81010	Fracture of unspecified part of left clavicle, initial encounter for open fracture	Open fracture of clavicle, unspecified part
S42011B	81011	Anterior displaced fracture of sternal end of right clavicle, initial encounter for open fracture	Open fracture of sternal end of clavicle
S42012B	81011	Anterior displaced fracture of sternal end of left clavicle, initial encounter for open fracture	Open fracture of sternal end of clavicle
S42014B	81011	Posterior displaced fracture of sternal end of right clavicle, initial encounter for open fracture	Open fracture of sternal end of clavicle
S42015B	81011	Posterior displaced fracture of sternal end of left clavicle, initial encounter for open fracture	Open fracture of sternal end of clavicle
S42017B	81011	Nondisplaced fracture of sternal end of right clavicle, initial encounter for open fracture	Open fracture of sternal end of clavicle
S42018B	81011	Nondisplaced fracture of sternal end of left clavicle, initial encounter for open fracture	Open fracture of sternal end of clavicle
S42021B	81012	Displaced fracture of shaft of right clavicle, initial encounter for open fracture	Open fracture of shaft of clavicle
S42022B	81012	Displaced fracture of shaft of left clavicle, initial encounter for open fracture	Open fracture of shaft of clavicle
S42024B	81012	Nondisplaced fracture of shaft of right clavicle, initial encounter for open fracture	Open fracture of shaft of clavicle
S42025B	81012	Nondisplaced fracture of shaft of left clavicle, initial encounter for open fracture	Open fracture of shaft of clavicle
S42031B	81013	Displaced fracture of lateral end of right clavicle, initial encounter for open fracture	Open fracture of acromial end of clavicle
S42032B	81013	Displaced fracture of lateral end of left clavicle, initial encounter for open fracture	Open fracture of acromial end of clavicle
S42034B	81013	Nondisplaced fracture of lateral end of right clavicle, initial encounter for open fracture	Open fracture of acromial end of clavicle
S42035B	81013	Nondisplaced fracture of lateral end of left clavicle, initial encounter for open fracture	Open fracture of acromial end of clavicle
S42101A	81100	Fracture of unspecified part of scapula, right shoulder, initial encounter for closed fracture	Closed fracture of scapula, unspecified part
S42102A	81100	Fracture of unspecified part of scapula, left shoulder, initial encounter for closed fracture	Closed fracture of scapula, unspecified part
S42121A	81101	Displaced fracture of acromial process, right shoulder, initial encounter for closed fracture	Closed fracture of acromial process of scapula
S42122A	81101	Displaced fracture of acromial process, left shoulder, initial encounter for closed fracture	Closed fracture of acromial process of scapula
S42124A	81101	Nondisplaced fracture of acromial process, right shoulder, initial encounter for closed fracture	Closed fracture of acromial process of scapula
S42125A	81101	Nondisplaced fracture of acromial process, left shoulder, initial encounter for closed fracture	Closed fracture of acromial process of scapula
S42131A	81102	Displaced fracture of coracoid process, right shoulder, initial encounter for closed fracture	Closed fracture of coracoid process of scapula
S42132A	81102	Displaced fracture of coracoid process, left shoulder, initial encounter for closed fracture	Closed fracture of coracoid process of scapula
S42134A	81102	Nondisplaced fracture of coracoid process, right shoulder, initial encounter for closed fracture	Closed fracture of coracoid process of scapula
S42135A	81102	Nondisplaced fracture of coracoid process, left shoulder, initial encounter for closed fracture	Closed fracture of coracoid process of scapula

Appendix A

Frailty markers

S42141A	81103	Displaced fracture of glenoid cavity of scapula, right shoulder, initial encounter for closed fracture	Closed fracture of glenoid cavity and neck of scapula
S42142A	81103	Displaced fracture of glenoid cavity of scapula, left shoulder, initial encounter for closed fracture	Closed fracture of glenoid cavity and neck of scapula
S42144A	81103	Nondisplaced fracture of glenoid cavity of scapula, right shoulder, initial encounter for closed fracture	Closed fracture of glenoid cavity and neck of scapula
S42145A	81103	Nondisplaced fracture of glenoid cavity of scapula, left shoulder, initial encounter for closed fracture	Closed fracture of glenoid cavity and neck of scapula
S42151A	81103	Displaced fracture of neck of scapula, right shoulder, initial encounter for closed fracture	Closed fracture of glenoid cavity and neck of scapula
S42152A	81103	Displaced fracture of neck of scapula, left shoulder, initial encounter for closed fracture	Closed fracture of glenoid cavity and neck of scapula
S42154A	81103	Nondisplaced fracture of neck of scapula, right shoulder, initial encounter for closed fracture	Closed fracture of glenoid cavity and neck of scapula
S42155A	81103	Nondisplaced fracture of neck of scapula, left shoulder, initial encounter for closed fracture	Closed fracture of glenoid cavity and neck of scapula
S42111A	81109	Displaced fracture of body of scapula, right shoulder, initial encounter for closed fracture	Closed fracture of scapula, other
S42112A	81109	Displaced fracture of body of scapula, left shoulder, initial encounter for closed fracture	Closed fracture of scapula, other
S42114A	81109	Nondisplaced fracture of body of scapula, right shoulder, initial encounter for closed fracture	Closed fracture of scapula, other
S42115A	81109	Nondisplaced fracture of body of scapula, left shoulder, initial encounter for closed fracture	Closed fracture of scapula, other
S42191A	81109	Fracture of other part of scapula, right shoulder, initial encounter for closed fracture	Closed fracture of scapula, other
S42192A	81109	Fracture of other part of scapula, left shoulder, initial encounter for closed fracture	Closed fracture of scapula, other
S42101B	81110	Fracture of unspecified part of scapula, right shoulder, initial encounter for open fracture	Open fracture of scapula, unspecified part
S42102B	81110	Fracture of unspecified part of scapula, left shoulder, initial encounter for open fracture	Open fracture of scapula, unspecified part
S42121B	81111	Displaced fracture of acromial process, right shoulder, initial encounter for open fracture	Open fracture of acromial process of scapula
S42122B	81111	Displaced fracture of acromial process, left shoulder, initial encounter for open fracture	Open fracture of acromial process of scapula
S42124B	81111	Nondisplaced fracture of acromial process, right shoulder, initial encounter for open fracture	Open fracture of acromial process of scapula
S42125B	81111	Nondisplaced fracture of acromial process, left shoulder, initial encounter for open fracture	Open fracture of acromial process of scapula
S42131B	81112	Displaced fracture of coracoid process, right shoulder, initial encounter for open fracture	Open fracture of coracoid process
S42132B	81112	Displaced fracture of coracoid process, left shoulder, initial encounter for open fracture	Open fracture of coracoid process
S42134B	81112	Nondisplaced fracture of coracoid process, right shoulder, initial encounter for open fracture	Open fracture of coracoid process
S42135B	81112	Nondisplaced fracture of coracoid process, left shoulder, initial encounter for open fracture	Open fracture of coracoid process
S42141B	81113	Displaced fracture of glenoid cavity of scapula, right shoulder, initial encounter for open fracture	Open fracture of glenoid cavity and neck of scapula
S42142B	81113	Displaced fracture of glenoid cavity of scapula, left shoulder, initial encounter for open fracture	Open fracture of glenoid cavity and neck of scapula
S42144B	81113	Nondisplaced fracture of glenoid cavity of scapula, right shoulder, initial encounter for open fracture	Open fracture of glenoid cavity and neck of scapula
S42145B	81113	Nondisplaced fracture of glenoid cavity of scapula, left shoulder, initial encounter for open fracture	Open fracture of glenoid cavity and neck of scapula
S42151B	81113	Displaced fracture of neck of scapula, right shoulder, initial encounter for open fracture	Open fracture of glenoid cavity and neck of scapula
S42152B	81113	Displaced fracture of neck of scapula, left shoulder, initial encounter for open fracture	Open fracture of glenoid cavity and neck of scapula
S42154B	81113	Nondisplaced fracture of neck of scapula, right shoulder, initial encounter for open fracture	Open fracture of glenoid cavity and neck of scapula

Appendix A

Frailty markers

S42155B	81113	Nondisplaced fracture of neck of scapula, left shoulder, initial encounter for open fracture	Open fracture of glenoid cavity and neck of scapula
S42111B	81119	Displaced fracture of body of scapula, right shoulder, initial encounter for open fracture	Open fracture of scapula, other
S42112B	81119	Displaced fracture of body of scapula, left shoulder, initial encounter for open fracture	Open fracture of scapula, other
S42114B	81119	Nondisplaced fracture of body of scapula, right shoulder, initial encounter for open fracture	Open fracture of scapula, other
S42115B	81119	Nondisplaced fracture of body of scapula, left shoulder, initial encounter for open fracture	Open fracture of scapula, other
S42191B	81119	Fracture of other part of scapula, right shoulder, initial encounter for open fracture	Open fracture of scapula, other
S42192B	81119	Fracture of other part of scapula, left shoulder, initial encounter for open fracture	Open fracture of scapula, other
S42201A	81200	Unspecified fracture of upper end of right humerus, initial encounter for closed fracture	Closed fracture of unspecified part of upper end of humerus
S42202A	81200	Unspecified fracture of upper end of left humerus, initial encounter for closed fracture	Closed fracture of unspecified part of upper end of humerus
S42211A	81201	Unspecified displaced fracture of surgical neck of right humerus, initial encounter for closed fracture	Closed fracture of surgical neck of humerus
S42212A	81201	Unspecified displaced fracture of surgical neck of left humerus, initial encounter for closed fracture	Closed fracture of surgical neck of humerus
S42214A	81201	Unspecified nondisplaced fracture of surgical neck of right humerus, initial encounter for closed fracture	Closed fracture of surgical neck of humerus
S42215A	81201	Unspecified nondisplaced fracture of surgical neck of left humerus, initial encounter for closed fracture	Closed fracture of surgical neck of humerus
S42221A	81201	2-part displaced fracture of surgical neck of right humerus, initial encounter for closed fracture	Closed fracture of surgical neck of humerus
S42222A	81201	2-part displaced fracture of surgical neck of left humerus, initial encounter for closed fracture	Closed fracture of surgical neck of humerus
S42223A	81201	2-part displaced fracture of surgical neck of unspecified humerus, initial encounter for closed fracture	Closed fracture of surgical neck of humerus
S42224A	81201	2-part nondisplaced fracture of surgical neck of right humerus, initial encounter for closed fracture	Closed fracture of surgical neck of humerus
S42225A	81201	2-part nondisplaced fracture of surgical neck of left humerus, initial encounter for closed fracture	Closed fracture of surgical neck of humerus
S42226A	81201	2-part nondisplaced fracture of surgical neck of unspecified humerus, initial encounter for closed fracture	Closed fracture of surgical neck of humerus
S42231A	81201	3-part fracture of surgical neck of right humerus, initial encounter for closed fracture	Closed fracture of surgical neck of humerus
S42232A	81201	3-part fracture of surgical neck of left humerus, initial encounter for closed fracture	Closed fracture of surgical neck of humerus
S42239A	81201	3-part fracture of surgical neck of unspecified humerus, initial encounter for closed fracture	Closed fracture of surgical neck of humerus
S42241A	81201	4-part fracture of surgical neck of right humerus, initial encounter for closed fracture	Closed fracture of surgical neck of humerus
S42242A	81201	4-part fracture of surgical neck of left humerus, initial encounter for closed fracture	Closed fracture of surgical neck of humerus
S42249A	81201	4-part fracture of surgical neck of unspecified humerus, initial encounter for closed fracture	Closed fracture of surgical neck of humerus
S42291A	81202	Other displaced fracture of upper end of right humerus, initial encounter for closed fracture	Closed fracture of anatomical neck of humerus
S42292A	81202	Other displaced fracture of upper end of left humerus, initial encounter for closed fracture	Closed fracture of anatomical neck of humerus
S42294A	81202	Other nondisplaced fracture of upper end of right humerus, initial encounter for closed fracture	Closed fracture of anatomical neck of humerus
S42296A	81202	Other nondisplaced fracture of upper end of unspecified humerus, initial encounter for closed fracture	Closed fracture of anatomical neck of humerus
S42251A	81203	Displaced fracture of greater tuberosity of right humerus, initial encounter for closed fracture	Closed fracture of greater tuberosity of humerus
S42252A	81203	Displaced fracture of greater tuberosity of left humerus, initial encounter for closed fracture	Closed fracture of greater tuberosity of humerus

Appendix A

Frailty markers

[illegible]

Appendix A

Frailty markers

S49049A	81209	Salter-Harris Type IV physeal fracture of upper end of humerus, unspecified arm, initial encounter for closed fracture	Other closed fracture of upper end of humerus
S49091A	81209	Other physeal fracture of upper end of humerus, right arm, initial encounter for closed fracture	Other closed fracture of upper end of humerus
S49092A	81209	Other physeal fracture of upper end of humerus, left arm, initial encounter for closed fracture	Other closed fracture of upper end of humerus
S49099A	81209	Other physeal fracture of upper end of humerus, unspecified arm, initial encounter for closed fracture	Other closed fracture of upper end of humerus
S42201B	81210	Unspecified fracture of upper end of right humerus, initial encounter for open fracture	Open fracture of unspecified part of upper end of humerus
S42202B	81210	Unspecified fracture of upper end of left humerus, initial encounter for open fracture	Open fracture of unspecified part of upper end of humerus
S42211B	81211	Unspecified displaced fracture of surgical neck of right humerus, initial encounter for open fracture	Open fracture of surgical neck of humerus
S42212B	81211	Unspecified displaced fracture of surgical neck of left humerus, initial encounter for open fracture	Open fracture of surgical neck of humerus
S42214B	81211	Unspecified nondisplaced fracture of surgical neck of right humerus, initial encounter for open fracture	Open fracture of surgical neck of humerus
S42215B	81211	Unspecified nondisplaced fracture of surgical neck of left humerus, initial encounter for open fracture	Open fracture of surgical neck of humerus
S42221B	81211	2-part displaced fracture of surgical neck of right humerus, initial encounter for open fracture	Open fracture of surgical neck of humerus
S42222B	81211	2-part displaced fracture of surgical neck of left humerus, initial encounter for open fracture	Open fracture of surgical neck of humerus
S42223B	81211	2-part displaced fracture of surgical neck of unspecified humerus, initial encounter for open fracture	Open fracture of surgical neck of humerus
S42224B	81211	2-part nondisplaced fracture of surgical neck of right humerus, initial encounter for open fracture	Open fracture of surgical neck of humerus
S42225B	81211	2-part nondisplaced fracture of surgical neck of left humerus, initial encounter for open fracture	Open fracture of surgical neck of humerus
S42226B	81211	2-part nondisplaced fracture of surgical neck of unspecified humerus, initial encounter for open fracture	Open fracture of surgical neck of humerus
S42231B	81211	3-part fracture of surgical neck of right humerus, initial encounter for open fracture	Open fracture of surgical neck of humerus
S42232B	81211	3-part fracture of surgical neck of left humerus, initial encounter for open fracture	Open fracture of surgical neck of humerus
S42239B	81211	3-part fracture of surgical neck of unspecified humerus, initial encounter for open fracture	Open fracture of surgical neck of humerus
S42241B	81211	4-part fracture of surgical neck of right humerus, initial encounter for open fracture	Open fracture of surgical neck of humerus
S42242B	81211	4-part fracture of surgical neck of left humerus, initial encounter for open fracture	Open fracture of surgical neck of humerus
S42249B	81211	4-part fracture of surgical neck of unspecified humerus, initial encounter for open fracture	Open fracture of surgical neck of humerus
S42291B	81212	Other displaced fracture of upper end of right humerus, initial encounter for open fracture	Open fracture of anatomical neck of humerus
S42292B	81212	Other displaced fracture of upper end of left humerus, initial encounter for open fracture	Open fracture of anatomical neck of humerus
S42294B	81212	Other nondisplaced fracture of upper end of right humerus, initial encounter for open fracture	Open fracture of anatomical neck of humerus
S42295B	81212	Other nondisplaced fracture of upper end of left humerus, initial encounter for open fracture	Open fracture of anatomical neck of humerus
S42251B	81213	Displaced fracture of greater tuberosity of right humerus, initial encounter for open fracture	Open fracture of greater tuberosity of humerus
S42252B	81213	Displaced fracture of greater tuberosity of left humerus, initial encounter for open fracture	Open fracture of greater tuberosity of humerus
S42254B	81213	Nondisplaced fracture of greater tuberosity of right humerus, initial encounter for open fracture	Open fracture of greater tuberosity of humerus
S42255B	81213	Nondisplaced fracture of greater tuberosity of left humerus, initial encounter for open fracture	Open fracture of greater tuberosity of humerus

Appendix A

Frailty markers

S42261B	81219	Displaced fracture of lesser tuberosity of right humerus, initial encounter for open fracture	Other open fracture of upper end of humerus
S42262B	81219	Displaced fracture of lesser tuberosity of left humerus, initial encounter for open fracture	Other open fracture of upper end of humerus
S42263B	81219	Displaced fracture of lesser tuberosity of unspecified humerus, initial encounter for open fracture	Other open fracture of upper end of humerus
S42264B	81219	Nondisplaced fracture of lesser tuberosity of right humerus, initial encounter for open fracture	Other open fracture of upper end of humerus
S42265B	81219	Nondisplaced fracture of lesser tuberosity of left humerus, initial encounter for open fracture	Other open fracture of upper end of humerus
S42266B	81219	Nondisplaced fracture of lesser tuberosity of unspecified humerus, initial encounter for open fracture	Other open fracture of upper end of humerus
S42291B	81219	Other displaced fracture of upper end of right humerus, initial encounter for open fracture	Other open fracture of upper end of humerus
S42292B	81219	Other displaced fracture of upper end of left humerus, initial encounter for open fracture	Other open fracture of upper end of humerus
S42294B	81219	Other nondisplaced fracture of upper end of right humerus, initial encounter for open fracture	Other open fracture of upper end of humerus
S42295B	81219	Other nondisplaced fracture of upper end of left humerus, initial encounter for open fracture	Other open fracture of upper end of humerus
S42301A	81220	Unspecified fracture of shaft of humerus, right arm, initial encounter for closed fracture	Closed fracture of unspecified part of humerus
S42302A	81220	Unspecified fracture of shaft of humerus, left arm, initial encounter for closed fracture	Closed fracture of unspecified part of humerus
S4290XA	81220	Fracture of unspecified shoulder girdle, part unspecified, initial encounter for closed fracture	Closed fracture of unspecified part of humerus
S4291XA	81220	Fracture of right shoulder girdle, part unspecified, initial encounter for closed fracture	Closed fracture of unspecified part of humerus
S4292XA	81220	Fracture of left shoulder girdle, part unspecified, initial encounter for closed fracture	Closed fracture of unspecified part of humerus
S42311A	81221	Greenstick fracture of shaft of humerus, right arm, initial encounter for closed fracture	Closed fracture of shaft of humerus
S42312A	81221	Greenstick fracture of shaft of humerus, left arm, initial encounter for closed fracture	Closed fracture of shaft of humerus
S42319A	81221	Greenstick fracture of shaft of humerus, unspecified arm, initial encounter for closed fracture	Closed fracture of shaft of humerus
S42321A	81221	Displaced transverse fracture of shaft of humerus, right arm, initial encounter for closed fracture	Closed fracture of shaft of humerus
S42322A	81221	Displaced transverse fracture of shaft of humerus, left arm, initial encounter for closed fracture	Closed fracture of shaft of humerus
S42323A	81221	Displaced transverse fracture of shaft of humerus, unspecified arm, initial encounter for closed fracture	Closed fracture of shaft of humerus
S42324A	81221	Nondisplaced transverse fracture of shaft of humerus, right arm, initial encounter for closed fracture	Closed fracture of shaft of humerus
S42325A	81221	Nondisplaced transverse fracture of shaft of humerus, left arm, initial encounter for closed fracture	Closed fracture of shaft of humerus
S42326A	81221	Nondisplaced transverse fracture of shaft of humerus, unspecified arm, initial encounter for closed fracture	Closed fracture of shaft of humerus
S42331A	81221	Displaced oblique fracture of shaft of humerus, right arm, initial encounter for closed fracture	Closed fracture of shaft of humerus
S42332A	81221	Displaced oblique fracture of shaft of humerus, left arm, initial encounter for closed fracture	Closed fracture of shaft of humerus
S42333A	81221	Displaced oblique fracture of shaft of humerus, unspecified arm, initial encounter for closed fracture	Closed fracture of shaft of humerus
S42334A	81221	Nondisplaced oblique fracture of shaft of humerus, right arm, initial encounter for closed fracture	Closed fracture of shaft of humerus
S42335A	81221	Nondisplaced oblique fracture of shaft of humerus, left arm, initial encounter for closed fracture	Closed fracture of shaft of humerus
S42336A	81221	Nondisplaced oblique fracture of shaft of humerus, unspecified arm, initial encounter for closed fracture	Closed fracture of shaft of humerus
S42341A	81221	Displaced spiral fracture of shaft of humerus, right arm, initial encounter for closed fracture	Closed fracture of shaft of humerus

Appendix A

Frailty markers

S42342A	81221	Displaced spiral fracture of shaft of humerus, left arm, initial encounter for closed fracture	Closed fracture of shaft of humerus
S42343A	81221	Displaced spiral fracture of shaft of humerus, unspecified arm, initial encounter for closed fracture	Closed fracture of shaft of humerus
S42344A	81221	Nondisplaced spiral fracture of shaft of humerus, right arm, initial encounter for closed fracture	Closed fracture of shaft of humerus
S42345A	81221	Nondisplaced spiral fracture of shaft of humerus, left arm, initial encounter for closed fracture	Closed fracture of shaft of humerus
S42346A	81221	Nondisplaced spiral fracture of shaft of humerus, unspecified arm, initial encounter for closed fracture	Closed fracture of shaft of humerus
S42351A	81221	Displaced comminuted fracture of shaft of humerus, right arm, initial encounter for closed fracture	Closed fracture of shaft of humerus
S42352A	81221	Displaced comminuted fracture of shaft of humerus, left arm, initial encounter for closed fracture	Closed fracture of shaft of humerus
S42353A	81221	Displaced comminuted fracture of shaft of humerus, unspecified arm, initial encounter for closed fracture	Closed fracture of shaft of humerus
S42354A	81221	Nondisplaced comminuted fracture of shaft of humerus, right arm, initial encounter for closed fracture	Closed fracture of shaft of humerus
S42355A	81221	Nondisplaced comminuted fracture of shaft of humerus, left arm, initial encounter for closed fracture	Closed fracture of shaft of humerus
S42356A	81221	Nondisplaced comminuted fracture of shaft of humerus, unspecified arm, initial encounter for closed fracture	Closed fracture of shaft of humerus
S42361A	81221	Displaced segmental fracture of shaft of humerus, right arm, initial encounter for closed fracture	Closed fracture of shaft of humerus
S42362A	81221	Displaced segmental fracture of shaft of humerus, left arm, initial encounter for closed fracture	Closed fracture of shaft of humerus
S42363A	81221	Displaced segmental fracture of shaft of humerus, unspecified arm, initial encounter for closed fracture	Closed fracture of shaft of humerus
S42364A	81221	Nondisplaced segmental fracture of shaft of humerus, right arm, initial encounter for closed fracture	Closed fracture of shaft of humerus
S42365A	81221	Nondisplaced segmental fracture of shaft of humerus, left arm, initial encounter for closed fracture	Closed fracture of shaft of humerus
S42366A	81221	Nondisplaced segmental fracture of shaft of humerus, unspecified arm, initial encounter for closed fracture	Closed fracture of shaft of humerus
S42391A	81221	Other fracture of shaft of right humerus, initial encounter for closed fracture	Closed fracture of shaft of humerus
S42392A	81221	Other fracture of shaft of left humerus, initial encounter for closed fracture	Closed fracture of shaft of humerus
S42301B	81230	Unspecified fracture of shaft of humerus, right arm, initial encounter for open fracture	Open fracture of unspecified part of humerus
S42302B	81230	Unspecified fracture of shaft of humerus, left arm, initial encounter for open fracture	Open fracture of unspecified part of humerus
S4290XB	81230	Fracture of unspecified shoulder girdle, part unspecified, initial encounter for open fracture	Open fracture of unspecified part of humerus
S4291XB	81230	Fracture of right shoulder girdle, part unspecified, initial encounter for open fracture	Open fracture of unspecified part of humerus
S4292XB	81230	Fracture of left shoulder girdle, part unspecified, initial encounter for open fracture	Open fracture of unspecified part of humerus
S42321B	81231	Displaced transverse fracture of shaft of humerus, right arm, initial encounter for open fracture	Open fracture of shaft of humerus
S42322B	81231	Displaced transverse fracture of shaft of humerus, left arm, initial encounter for open fracture	Open fracture of shaft of humerus
S42323B	81231	Displaced transverse fracture of shaft of humerus, unspecified arm, initial encounter for open fracture	Open fracture of shaft of humerus
S42324B	81231	Nondisplaced transverse fracture of shaft of humerus, right arm, initial encounter for open fracture	Open fracture of shaft of humerus
S42325B	81231	Nondisplaced transverse fracture of shaft of humerus, left arm, initial encounter for open fracture	Open fracture of shaft of humerus
S42326B	81231	Nondisplaced transverse fracture of shaft of humerus, unspecified arm, initial encounter for open fracture	Open fracture of shaft of humerus
S42331B	81231	Displaced oblique fracture of shaft of humerus, right arm, initial encounter for open fracture	Open fracture of shaft of humerus

Appendix A

Frailty markers

S42332B	81231	Displaced oblique fracture of shaft of humerus, left arm, initial encounter for open fracture	Open fracture of shaft of humerus
S42333B	81231	Displaced oblique fracture of shaft of humerus, unspecified arm, initial encounter for open fracture	Open fracture of shaft of humerus
S42334B	81231	Nondisplaced oblique fracture of shaft of humerus, right arm, initial encounter for open fracture	Open fracture of shaft of humerus
S42335B	81231	Nondisplaced oblique fracture of shaft of humerus, left arm, initial encounter for open fracture	Open fracture of shaft of humerus
S42336B	81231	Nondisplaced oblique fracture of shaft of humerus, unspecified arm, initial encounter for open fracture	Open fracture of shaft of humerus
S42341B	81231	Displaced spiral fracture of shaft of humerus, right arm, initial encounter for open fracture	Open fracture of shaft of humerus
S42342B	81231	Displaced spiral fracture of shaft of humerus, left arm, initial encounter for open fracture	Open fracture of shaft of humerus
S42343B	81231	Displaced spiral fracture of shaft of humerus, unspecified arm, initial encounter for open fracture	Open fracture of shaft of humerus
S42344B	81231	Nondisplaced spiral fracture of shaft of humerus, right arm, initial encounter for open fracture	Open fracture of shaft of humerus
S42345B	81231	Nondisplaced spiral fracture of shaft of humerus, left arm, initial encounter for open fracture	Open fracture of shaft of humerus
S42346B	81231	Nondisplaced spiral fracture of shaft of humerus, unspecified arm, initial encounter for open fracture	Open fracture of shaft of humerus
S42351B	81231	Displaced comminuted fracture of shaft of humerus, right arm, initial encounter for open fracture	Open fracture of shaft of humerus
S42352B	81231	Displaced comminuted fracture of shaft of humerus, left arm, initial encounter for open fracture	Open fracture of shaft of humerus
S42353B	81231	Displaced comminuted fracture of shaft of humerus, unspecified arm, initial encounter for open fracture	Open fracture of shaft of humerus
S42354B	81231	Nondisplaced comminuted fracture of shaft of humerus, right arm, initial encounter for open fracture	Open fracture of shaft of humerus
S42355B	81231	Nondisplaced comminuted fracture of shaft of humerus, left arm, initial encounter for open fracture	Open fracture of shaft of humerus
S42356B	81231	Nondisplaced comminuted fracture of shaft of humerus, unspecified arm, initial encounter for open fracture	Open fracture of shaft of humerus
S42361B	81231	Displaced segmental fracture of shaft of humerus, right arm, initial encounter for open fracture	Open fracture of shaft of humerus
S42362B	81231	Displaced segmental fracture of shaft of humerus, left arm, initial encounter for open fracture	Open fracture of shaft of humerus
S42363B	81231	Displaced segmental fracture of shaft of humerus, unspecified arm, initial encounter for open fracture	Open fracture of shaft of humerus
S42364B	81231	Nondisplaced segmental fracture of shaft of humerus, right arm, initial encounter for open fracture	Open fracture of shaft of humerus
S42365B	81231	Nondisplaced segmental fracture of shaft of humerus, left arm, initial encounter for open fracture	Open fracture of shaft of humerus
S42366B	81231	Nondisplaced segmental fracture of shaft of humerus, unspecified arm, initial encounter for open fracture	Open fracture of shaft of humerus
S42391B	81231	Other fracture of shaft of right humerus, initial encounter for open fracture	Open fracture of shaft of humerus
S42392B	81231	Other fracture of shaft of left humerus, initial encounter for open fracture	Open fracture of shaft of humerus
S42401A	81240	Unspecified fracture of lower end of right humerus, initial encounter for closed fracture	Closed fracture of unspecified part of lower end of humerus
S42402A	81240	Unspecified fracture of lower end of left humerus, initial encounter for closed fracture	Closed fracture of unspecified part of lower end of humerus
S42411A	81241	Displaced simple supracondylar fracture without intercondylar fracture of right humerus, initial encounter for closed fracture	Closed supracondylar fracture of humerus
S42412A	81241	Displaced simple supracondylar fracture without intercondylar fracture of left humerus, initial encounter for closed fracture	Closed supracondylar fracture of humerus

Appendix A

Frailty markers

[illegible]

Appendix A

Frailty markers

[illegible]

Appendix A

Frailty markers

S42401B	81250	Unspecified fracture of lower end of right humerus, initial encounter for open fracture	Open fracture of unspecified part of lower end of humerus
S42402B	81250	Unspecified fracture of lower end of left humerus, initial encounter for open fracture	Open fracture of unspecified part of lower end of humerus
S42411B	81251	Displaced simple supracondylar fracture without intercondylar fracture of right humerus, initial encounter for open fracture	Open supracondylar fracture of humerus
S42412B	81251	Displaced simple supracondylar fracture without intercondylar fracture of left humerus, initial encounter for open fracture	Open supracondylar fracture of humerus
S42414B	81251	Nondisplaced simple supracondylar fracture without intercondylar fracture of right humerus, initial encounter for open fracture	Open supracondylar fracture of humerus
S42415B	81251	Nondisplaced simple supracondylar fracture without intercondylar fracture of left humerus, initial encounter for open fracture	Open supracondylar fracture of humerus
S42421B	81251	Displaced comminuted supracondylar fracture without intercondylar fracture of right humerus, initial encounter for open fracture	Open supracondylar fracture of humerus
S42422B	81251	Displaced comminuted supracondylar fracture without intercondylar fracture of left humerus, initial encounter for open fracture	Open supracondylar fracture of humerus
S42423B	81251	Displaced comminuted supracondylar fracture without intercondylar fracture of unspecified humerus, initial encounter for open fracture	Open supracondylar fracture of humerus
S42424B	81251	Nondisplaced comminuted supracondylar fracture without intercondylar fracture of right humerus, initial encounter for open fracture	Open supracondylar fracture of humerus
S42425B	81251	Nondisplaced comminuted supracondylar fracture without intercondylar fracture of left humerus, initial encounter for open fracture	Open supracondylar fracture of humerus
S42426B	81251	Nondisplaced comminuted supracondylar fracture without intercondylar fracture of unspecified humerus, initial encounter for open fracture	Open supracondylar fracture of humerus
S42431B	81252	Displaced fracture (avulsion) of lateral epicondyle of right humerus, initial encounter for open fracture	Open fracture of lateral condyle of humerus
S42432B	81252	Displaced fracture (avulsion) of lateral epicondyle of left humerus, initial encounter for open fracture	Open fracture of lateral condyle of humerus
S42433B	81252	Displaced fracture (avulsion) of lateral epicondyle of unspecified humerus, initial encounter for open fracture	Open fracture of lateral condyle of humerus
S42434B	81252	Nondisplaced fracture (avulsion) of lateral epicondyle of right humerus, initial encounter for open fracture	Open fracture of lateral condyle of humerus
S42435B	81252	Nondisplaced fracture (avulsion) of lateral epicondyle of left humerus, initial encounter for open fracture	Open fracture of lateral condyle of humerus
S42436B	81252	Nondisplaced fracture (avulsion) of lateral epicondyle of unspecified humerus, initial encounter for open fracture	Open fracture of lateral condyle of humerus
S42451B	81252	Displaced fracture of lateral condyle of right humerus, initial encounter for open fracture	Open fracture of lateral condyle of humerus
S42452B	81252	Displaced fracture of lateral condyle of left humerus, initial encounter for open fracture	Open fracture of lateral condyle of humerus
S42454B	81252	Nondisplaced fracture of lateral condyle of right humerus, initial encounter for open fracture	Open fracture of lateral condyle of humerus
S42455B	81252	Nondisplaced fracture of lateral condyle of left humerus, initial encounter for open fracture	Open fracture of lateral condyle of humerus
S42441B	81253	Displaced fracture (avulsion) of medial epicondyle of right humerus, initial encounter for open fracture	Open fracture of medial condyle of humerus
S42442B	81253	Displaced fracture (avulsion) of medial epicondyle of left humerus, initial encounter for open fracture	Open fracture of medial condyle of humerus
S42443B	81253	Displaced fracture (avulsion) of medial epicondyle of unspecified humerus, initial encounter for open fracture	Open fracture of medial condyle of humerus
S42444B	81253	Nondisplaced fracture (avulsion) of medial epicondyle of right humerus, initial encounter for open fracture	Open fracture of medial condyle of humerus

Appendix A

Frailty markers

S42445B	81253	Nondisplaced fracture (avulsion) of medial epicondyle of left humerus, initial encounter for open fracture	Open fracture of medial condyle of humerus
S42446B	81253	Nondisplaced fracture (avulsion) of medial epicondyle of unspecified humerus, initial encounter for open fracture	Open fracture of medial condyle of humerus
S42447B	81253	Incarcerated fracture (avulsion) of medial epicondyle of right humerus, initial encounter for open fracture	Open fracture of medial condyle of humerus
S42448B	81253	Incarcerated fracture (avulsion) of medial epicondyle of left humerus, initial encounter for open fracture	Open fracture of medial condyle of humerus
S42449B	81253	Incarcerated fracture (avulsion) of medial epicondyle of unspecified humerus, initial encounter for open fracture	Open fracture of medial condyle of humerus
S42461B	81253	Displaced fracture of medial condyle of right humerus, initial encounter for open fracture	Open fracture of medial condyle of humerus
S42462B	81253	Displaced fracture of medial condyle of left humerus, initial encounter for open fracture	Open fracture of medial condyle of humerus
S42464B	81253	Nondisplaced fracture of medial condyle of right humerus, initial encounter for open fracture	Open fracture of medial condyle of humerus
S42465B	81253	Nondisplaced fracture of medial condyle of left humerus, initial encounter for open fracture	Open fracture of medial condyle of humerus
S42471B	81254	Displaced transcondylar fracture of right humerus, initial encounter for open fracture	Open fracture of unspecified condyle(s) of humerus
S42472B	81254	Displaced transcondylar fracture of left humerus, initial encounter for open fracture	Open fracture of unspecified condyle(s) of humerus
S42474B	81254	Nondisplaced transcondylar fracture of right humerus, initial encounter for open fracture	Open fracture of unspecified condyle(s) of humerus
S42475B	81254	Nondisplaced transcondylar fracture of left humerus, initial encounter for open fracture	Open fracture of unspecified condyle(s) of humerus
S42491B	81259	Other displaced fracture of lower end of right humerus, initial encounter for open fracture	Other open fracture of lower end of humerus
S42492B	81259	Other displaced fracture of lower end of left humerus, initial encounter for open fracture	Other open fracture of lower end of humerus
S42494B	81259	Other nondisplaced fracture of lower end of right humerus, initial encounter for open fracture	Other open fracture of lower end of humerus
S42495B	81259	Other nondisplaced fracture of lower end of left humerus, initial encounter for open fracture	Other open fracture of lower end of humerus
S5290XA	81300	Unspecified fracture of unspecified forearm, initial encounter for closed fracture	Closed fracture of upper end of forearm, unspecified
S52021A	81301	Displaced fracture of olecranon process without intraarticular extension of right ulna, initial encounter for closed fracture	Closed fracture of olecranon process of ulna
S52022A	81301	Displaced fracture of olecranon process without intraarticular extension of left ulna, initial encounter for closed fracture	Closed fracture of olecranon process of ulna
S52024A	81301	Nondisplaced fracture of olecranon process without intraarticular extension of right ulna, initial encounter for closed fracture	Closed fracture of olecranon process of ulna
S52025A	81301	Nondisplaced fracture of olecranon process without intraarticular extension of left ulna, initial encounter for closed fracture	Closed fracture of olecranon process of ulna
S52031A	81301	Displaced fracture of olecranon process with intraarticular extension of right ulna, initial encounter for closed fracture	Closed fracture of olecranon process of ulna
S52032A	81301	Displaced fracture of olecranon process with intraarticular extension of left ulna, initial encounter for closed fracture	Closed fracture of olecranon process of ulna
S52033A	81301	Displaced fracture of olecranon process with intraarticular extension of unspecified ulna, initial encounter for closed fracture	Closed fracture of olecranon process of ulna
S52034A	81301	Nondisplaced fracture of olecranon process with intraarticular extension of right ulna, initial encounter for closed fracture	Closed fracture of olecranon process of ulna
S52035A	81301	Nondisplaced fracture of olecranon process with intraarticular extension of left ulna, initial encounter for closed fracture	Closed fracture of olecranon process of ulna

Appendix A

Frailty markers

S52036A	81301	Nondisplaced fracture of olecranon process with intraarticular extension of unspecified ulna, initial encounter for closed fracture	Closed fracture of olecranon process of ulna
S52041A	81302	Displaced fracture of coronoid process of right ulna, initial encounter for closed fracture	Closed fracture of coronoid process of ulna
S52042A	81302	Displaced fracture of coronoid process of left ulna, initial encounter for closed fracture	Closed fracture of coronoid process of ulna
S52044A	81302	Nondisplaced fracture of coronoid process of right ulna, initial encounter for closed fracture	Closed fracture of coronoid process of ulna
S52045A	81302	Nondisplaced fracture of coronoid process of left ulna, initial encounter for closed fracture	Closed fracture of coronoid process of ulna
S52271A	81303	Monteggia's fracture of right ulna, initial encounter for closed fracture	Closed Monteggia's fracture
S52272A	81303	Monteggia's fracture of left ulna, initial encounter for closed fracture	Closed Monteggia's fracture
S52001A	81304	Unspecified fracture of upper end of right ulna, initial encounter for closed fracture	Other and unspecified closed fractures of proximal end of ulna (alone)
S52002A	81304	Unspecified fracture of upper end of left ulna, initial encounter for closed fracture	Other and unspecified closed fractures of proximal end of ulna (alone)
S52091A	81304	Other fracture of upper end of right ulna, initial encounter for closed fracture	Other and unspecified closed fractures of proximal end of ulna (alone)
S52092A	81304	Other fracture of upper end of left ulna, initial encounter for closed fracture	Other and unspecified closed fractures of proximal end of ulna (alone)
S52121A	81305	Displaced fracture of head of right radius, initial encounter for closed fracture	Closed fracture of head of radius
S52122A	81305	Displaced fracture of head of left radius, initial encounter for closed fracture	Closed fracture of head of radius
S52124A	81305	Nondisplaced fracture of head of right radius, initial encounter for closed fracture	Closed fracture of head of radius
S52125A	81305	Nondisplaced fracture of head of left radius, initial encounter for closed fracture	Closed fracture of head of radius
S52131A	81306	Displaced fracture of neck of right radius, initial encounter for closed fracture	Closed fracture of neck of radius
S52132A	81306	Displaced fracture of neck of left radius, initial encounter for closed fracture	Closed fracture of neck of radius
S52134A	81306	Nondisplaced fracture of neck of right radius, initial encounter for closed fracture	Closed fracture of neck of radius
S52135A	81306	Nondisplaced fracture of neck of left radius, initial encounter for closed fracture	Closed fracture of neck of radius
S52101A	81307	Unspecified fracture of upper end of right radius, initial encounter for closed fracture	Other and unspecified closed fractures of proximal end of radius (alone)
S52102A	81307	Unspecified fracture of upper end of left radius, initial encounter for closed fracture	Other and unspecified closed fractures of proximal end of radius (alone)
S52181A	81307	Other fracture of upper end of right radius, initial encounter for closed fracture	Other and unspecified closed fractures of proximal end of radius (alone)
S52182A	81307	Other fracture of upper end of left radius, initial encounter for closed fracture	Other and unspecified closed fractures of proximal end of radius (alone)
S59101A	81307	Unspecified physeal fracture of upper end of radius, right arm, initial encounter for closed fracture	Other and unspecified closed fractures of proximal end of radius (alone)
S59102A	81307	Unspecified physeal fracture of upper end of radius, left arm, initial encounter for closed fracture	Other and unspecified closed fractures of proximal end of radius (alone)
S59111A	81307	Salter-Harris Type I physeal fracture of upper end of radius, right arm, initial encounter for closed fracture	Other and unspecified closed fractures of proximal end of radius (alone)
S59112A	81307	Salter-Harris Type I physeal fracture of upper end of radius, left arm, initial encounter for closed fracture	Other and unspecified closed fractures of proximal end of radius (alone)
S59119A	81307	Salter-Harris Type I physeal fracture of upper end of radius, unspecified arm, initial encounter for closed fracture	Other and unspecified closed fractures of proximal end of radius (alone)
S59121A	81307	Salter-Harris Type II physeal fracture of upper end of radius, right arm, initial encounter for closed fracture	Other and unspecified closed fractures of proximal end of radius (alone)
S59122A	81307	Salter-Harris Type II physeal fracture of upper end of radius, left arm, initial encounter for closed fracture	Other and unspecified closed fractures of proximal end of radius (alone)

Appendix A

Frailty markers

S59129A	81307	Salter-Harris Type II physeal fracture of upper end of radius, unspecified arm, initial encounter for closed fracture	Other and unspecified closed fractures of proximal end of radius (alone)
S59131A	81307	Salter-Harris Type III physeal fracture of upper end of radius, right arm, initial encounter for closed fracture	Other and unspecified closed fractures of proximal end of radius (alone)
S59132A	81307	Salter-Harris Type III physeal fracture of upper end of radius, left arm, initial encounter for closed fracture	Other and unspecified closed fractures of proximal end of radius (alone)
S59139A	81307	Salter-Harris Type III physeal fracture of upper end of radius, unspecified arm, initial encounter for closed fracture	Other and unspecified closed fractures of proximal end of radius (alone)
S59141A	81307	Salter-Harris Type IV physeal fracture of upper end of radius, right arm, initial encounter for closed fracture	Other and unspecified closed fractures of proximal end of radius (alone)
S59142A	81307	Salter-Harris Type IV physeal fracture of upper end of radius, left arm, initial encounter for closed fracture	Other and unspecified closed fractures of proximal end of radius (alone)
S59149A	81307	Salter-Harris Type IV physeal fracture of upper end of radius, unspecified arm, initial encounter for closed fracture	Other and unspecified closed fractures of proximal end of radius (alone)
S59191A	81307	Other physeal fracture of upper end of radius, right arm, initial encounter for closed fracture	Other and unspecified closed fractures of proximal end of radius (alone)
S59192A	81307	Other physeal fracture of upper end of radius, left arm, initial encounter for closed fracture	Other and unspecified closed fractures of proximal end of radius (alone)
S59199A	81307	Other physeal fracture of upper end of radius, unspecified arm, initial encounter for closed fracture	Other and unspecified closed fractures of proximal end of radius (alone)
S52009A	81308	Unspecified fracture of upper end of unspecified ulna, initial encounter for closed fracture	Closed fracture of radius with ulna, upper end [any part]
S52109A	81308	Unspecified fracture of upper end of unspecified radius, initial encounter for closed fracture	Closed fracture of radius with ulna, upper end [any part]
S5290XB	81310	Unspecified fracture of unspecified forearm, initial encounter for open fracture type I or II	Open fracture of upper end of forearm, unspecified
S5290XC	81310	Unspecified fracture of unspecified forearm, initial encounter for open fracture type IIIA, IIIB, or IIIC	Open fracture of upper end of forearm, unspecified
S52021B	81311	Displaced fracture of olecranon process without intraarticular extension of right ulna, initial encounter for open fracture type I or II	Open fracture of olecranon process of ulna
S52021C	81311	Displaced fracture of olecranon process without intraarticular extension of right ulna, initial encounter for open fracture type IIIA, IIIB, or IIIC	Open fracture of olecranon process of ulna
S52022B	81311	Displaced fracture of olecranon process without intraarticular extension of left ulna, initial encounter for open fracture type I or II	Open fracture of olecranon process of ulna
S52022C	81311	Displaced fracture of olecranon process without intraarticular extension of left ulna, initial encounter for open fracture type IIIA, IIIB, or IIIC	Open fracture of olecranon process of ulna
S52024B	81311	Nondisplaced fracture of olecranon process without intraarticular extension of right ulna, initial encounter for open fracture type I or II	Open fracture of olecranon process of ulna
S52024C	81311	Nondisplaced fracture of olecranon process without intraarticular extension of right ulna, initial encounter for open fracture type IIIA, IIIB, or IIIC	Open fracture of olecranon process of ulna
S52025B	81311	Nondisplaced fracture of olecranon process without intraarticular extension of left ulna, initial encounter for open fracture type I or II	Open fracture of olecranon process of ulna
S52025C	81311	Nondisplaced fracture of olecranon process without intraarticular extension of left ulna, initial encounter for open fracture type IIIA, IIIB, or IIIC	Open fracture of olecranon process of ulna
S52031B	81311	Displaced fracture of olecranon process with intraarticular extension of right ulna, initial encounter for open fracture type I or II	Open fracture of olecranon process of ulna
S52031C	81311	Displaced fracture of olecranon process with intraarticular extension of right ulna, initial encounter for open fracture type IIIA, IIIB, or IIIC	Open fracture of olecranon process of ulna
S52032B	81311	Displaced fracture of olecranon process with intraarticular extension of left ulna, initial encounter for open fracture type I or II	Open fracture of olecranon process of ulna

Appendix A

Frailty markers

S52032C	81311	Displaced fracture of olecranon process with intraarticular extension of left ulna, initial encounter for open fracture type IIIA, IIIB, or IIIC	Open fracture of olecranon process of ulna
S52033B	81311	Displaced fracture of olecranon process with intraarticular extension of unspecified ulna, initial encounter for open fracture type I or II	Open fracture of olecranon process of ulna
S52033C	81311	Displaced fracture of olecranon process with intraarticular extension of unspecified ulna, initial encounter for open fracture type IIIA, IIIB, or IIIC	Open fracture of olecranon process of ulna
S52034B	81311	Nondisplaced fracture of olecranon process with intraarticular extension of right ulna, initial encounter for open fracture type I or II	Open fracture of olecranon process of ulna
S52034C	81311	Nondisplaced fracture of olecranon process with intraarticular extension of right ulna, initial encounter for open fracture type IIIA, IIIB, or IIIC	Open fracture of olecranon process of ulna
S52035B	81311	Nondisplaced fracture of olecranon process with intraarticular extension of left ulna, initial encounter for open fracture type I or II	Open fracture of olecranon process of ulna
S52035C	81311	Nondisplaced fracture of olecranon process with intraarticular extension of left ulna, initial encounter for open fracture type IIIA, IIIB, or IIIC	Open fracture of olecranon process of ulna
S52036B	81311	Nondisplaced fracture of olecranon process with intraarticular extension of unspecified ulna, initial encounter for open fracture type I or II	Open fracture of olecranon process of ulna
S52036C	81311	Nondisplaced fracture of olecranon process with intraarticular extension of unspecified ulna, initial encounter for open fracture type IIIA, IIIB, or IIIC	Open fracture of olecranon process of ulna
S52041B	81312	Displaced fracture of coronoid process of right ulna, initial encounter for open fracture type I or II	Open fracture of coronoid process of ulna
S52041C	81312	Displaced fracture of coronoid process of right ulna, initial encounter for open fracture type IIIA, IIIB, or IIIC	Open fracture of coronoid process of ulna
S52042B	81312	Displaced fracture of coronoid process of left ulna, initial encounter for open fracture type I or II	Open fracture of coronoid process of ulna
S52042C	81312	Displaced fracture of coronoid process of left ulna, initial encounter for open fracture type IIIA, IIIB, or IIIC	Open fracture of coronoid process of ulna
S52044B	81312	Nondisplaced fracture of coronoid process of right ulna, initial encounter for open fracture type I or II	Open fracture of coronoid process of ulna
S52044C	81312	Nondisplaced fracture of coronoid process of right ulna, initial encounter for open fracture type IIIA, IIIB, or IIIC	Open fracture of coronoid process of ulna
S52045B	81312	Nondisplaced fracture of coronoid process of left ulna, initial encounter for open fracture type I or II	Open fracture of coronoid process of ulna
S52045C	81312	Nondisplaced fracture of coronoid process of left ulna, initial encounter for open fracture type IIIA, IIIB, or IIIC	Open fracture of coronoid process of ulna
S52271B	81313	Monteggia's fracture of right ulna, initial encounter for open fracture type I or II	Open Monteggia's fracture
S52271C	81313	Monteggia's fracture of right ulna, initial encounter for open fracture type IIIA, IIIB, or IIIC	Open Monteggia's fracture
S52272B	81313	Monteggia's fracture of left ulna, initial encounter for open fracture type I or II	Open Monteggia's fracture
S52272C	81313	Monteggia's fracture of left ulna, initial encounter for open fracture type IIIA, IIIB, or IIIC	Open Monteggia's fracture
S52001B	81314	Unspecified fracture of upper end of right ulna, initial encounter for open fracture type I or II	Other and unspecified open fractures of proximal end of ulna (alone)
S52001C	81314	Unspecified fracture of upper end of right ulna, initial encounter for open fracture type IIIA, IIIB, or IIIC	Other and unspecified open fractures of proximal end of ulna (alone)
S52002B	81314	Unspecified fracture of upper end of left ulna, initial encounter for open fracture type I or II	Other and unspecified open fractures of proximal end of ulna (alone)
S52002C	81314	Unspecified fracture of upper end of left ulna, initial encounter for open fracture type IIIA, IIIB, or IIIC	Other and unspecified open fractures of proximal end of ulna (alone)
S52091B	81314	Other fracture of upper end of right ulna, initial encounter for open fracture type I or II	Other and unspecified open fractures of proximal end of ulna (alone)

Appendix A

Frailty markers

S52091C	81314	Other fracture of upper end of right ulna, initial encounter for open fracture type IIIA, IIIB, or IIIC	Other and unspecified open fractures of proximal end of ulna (alone)
S52092B	81314	Other fracture of upper end of left ulna, initial encounter for open fracture type I or II	Other and unspecified open fractures of proximal end of ulna (alone)
S52092C	81314	Other fracture of upper end of left ulna, initial encounter for open fracture type IIIA, IIIB, or IIIC	Other and unspecified open fractures of proximal end of ulna (alone)
S52121B	81315	Displaced fracture of head of right radius, initial encounter for open fracture type I or II	Open fracture of head of radius
S52121C	81315	Displaced fracture of head of right radius, initial encounter for open fracture type IIIA, IIIB, or IIIC	Open fracture of head of radius
S52122B	81315	Displaced fracture of head of left radius, initial encounter for open fracture type I or II	Open fracture of head of radius
S52122C	81315	Displaced fracture of head of left radius, initial encounter for open fracture type IIIA, IIIB, or IIIC	Open fracture of head of radius
S52124B	81315	Nondisplaced fracture of head of right radius, initial encounter for open fracture type I or II	Open fracture of head of radius
S52124C	81315	Nondisplaced fracture of head of right radius, initial encounter for open fracture type IIIA, IIIB, or IIIC	Open fracture of head of radius
S52125B	81315	Nondisplaced fracture of head of left radius, initial encounter for open fracture type I or II	Open fracture of head of radius
S52125C	81315	Nondisplaced fracture of head of left radius, initial encounter for open fracture type IIIA, IIIB, or IIIC	Open fracture of head of radius
S52131B	81316	Displaced fracture of neck of right radius, initial encounter for open fracture type I or II	Open fracture of neck of radius
S52131C	81316	Displaced fracture of neck of right radius, initial encounter for open fracture type IIIA, IIIB, or IIIC	Open fracture of neck of radius
S52132B	81316	Displaced fracture of neck of left radius, initial encounter for open fracture type I or II	Open fracture of neck of radius
S52132C	81316	Displaced fracture of neck of left radius, initial encounter for open fracture type IIIA, IIIB, or IIIC	Open fracture of neck of radius
S52134B	81316	Nondisplaced fracture of neck of right radius, initial encounter for open fracture type I or II	Open fracture of neck of radius
S52134C	81316	Nondisplaced fracture of neck of right radius, initial encounter for open fracture type IIIA, IIIB, or IIIC	Open fracture of neck of radius
S52135B	81316	Nondisplaced fracture of neck of left radius, initial encounter for open fracture type I or II	Open fracture of neck of radius
S52135C	81316	Nondisplaced fracture of neck of left radius, initial encounter for open fracture type IIIA, IIIB, or IIIC	Open fracture of neck of radius
S52101B	81317	Unspecified fracture of upper end of right radius, initial encounter for open fracture type I or II	Other and unspecified open fractures of proximal end of radius (alone)
S52101C	81317	Unspecified fracture of upper end of right radius, initial encounter for open fracture type IIIA, IIIB, or IIIC	Other and unspecified open fractures of proximal end of radius (alone)
S52102B	81317	Unspecified fracture of upper end of left radius, initial encounter for open fracture type I or II	Other and unspecified open fractures of proximal end of radius (alone)
S52102C	81317	Unspecified fracture of upper end of left radius, initial encounter for open fracture type IIIA, IIIB, or IIIC	Other and unspecified open fractures of proximal end of radius (alone)
S52181B	81317	Other fracture of upper end of right radius, initial encounter for open fracture type I or II	Other and unspecified open fractures of proximal end of radius (alone)
S52181C	81317	Other fracture of upper end of right radius, initial encounter for open fracture type IIIA, IIIB, or IIIC	Other and unspecified open fractures of proximal end of radius (alone)
S52182B	81317	Other fracture of upper end of left radius, initial encounter for open fracture type I or II	Other and unspecified open fractures of proximal end of radius (alone)
S52182C	81317	Other fracture of upper end of left radius, initial encounter for open fracture type IIIA, IIIB, or IIIC	Other and unspecified open fractures of proximal end of radius (alone)
S52009B	81318	Unspecified fracture of upper end of unspecified ulna, initial encounter for open fracture type I or II	Open fracture of radius with ulna, upper end (any part)
S52009C	81318	Unspecified fracture of upper end of unspecified ulna, initial encounter for open fracture type IIIA, IIIB, or IIIC	Open fracture of radius with ulna, upper end (any part)
S52109B	81318	Unspecified fracture of upper end of unspecified radius, initial encounter for open fracture type I or II	Open fracture of radius with ulna, upper end (any part)
S52109C	81318	Unspecified fracture of upper end of unspecified radius, initial encounter for open fracture type IIIA, IIIB, or IIIC	Open fracture of radius with ulna, upper end (any part)

Appendix A

Frailty markers

[illegible]

Appendix A

Frailty markers

S52362A	81321	Displaced segmental fracture of shaft of radius, left arm, initial encounter for closed fracture	Closed fracture of shaft of radius (alone)
S52363A	81321	Displaced segmental fracture of shaft of radius, unspecified arm, initial encounter for closed fracture	Closed fracture of shaft of radius (alone)
S52364A	81321	Nondisplaced segmental fracture of shaft of radius, right arm, initial encounter for closed fracture	Closed fracture of shaft of radius (alone)
S52365A	81321	Nondisplaced segmental fracture of shaft of radius, left arm, initial encounter for closed fracture	Closed fracture of shaft of radius (alone)
S52366A	81321	Nondisplaced segmental fracture of shaft of radius, unspecified arm, initial encounter for closed fracture	Closed fracture of shaft of radius (alone)
S52371A	81321	Galeazzi's fracture of right radius, initial encounter for closed fracture	Closed fracture of shaft of radius (alone)
S52372A	81321	Galeazzi's fracture of left radius, initial encounter for closed fracture	Closed fracture of shaft of radius (alone)
S52379A	81321	Galeazzi's fracture of unspecified radius, initial encounter for closed fracture	Closed fracture of shaft of radius (alone)
S52381A	81321	Bent bone of right radius, initial encounter for closed fracture	Closed fracture of shaft of radius (alone)
S52382A	81321	Bent bone of left radius, initial encounter for closed fracture	Closed fracture of shaft of radius (alone)
S52389A	81321	Bent bone of unspecified radius, initial encounter for closed fracture	Closed fracture of shaft of radius (alone)
S52391A	81321	Other fracture of shaft of radius, right arm, initial encounter for closed fracture	Closed fracture of shaft of radius (alone)
S52392A	81321	Other fracture of shaft of radius, left arm, initial encounter for closed fracture	Closed fracture of shaft of radius (alone)
S52399A	81321	Other fracture of shaft of radius, unspecified arm, initial encounter for closed fracture	Closed fracture of shaft of radius (alone)
S52201A	81322	Unspecified fracture of shaft of right ulna, initial encounter for closed fracture	Closed fracture of shaft of ulna (alone)
S52202A	81322	Unspecified fracture of shaft of left ulna, initial encounter for closed fracture	Closed fracture of shaft of ulna (alone)
S52211A	81322	Greenstick fracture of shaft of right ulna, initial encounter for closed fracture	Closed fracture of shaft of ulna (alone)
S52212A	81322	Greenstick fracture of shaft of left ulna, initial encounter for closed fracture	Closed fracture of shaft of ulna (alone)
S52219A	81322	Greenstick fracture of shaft of unspecified ulna, initial encounter for closed fracture	Closed fracture of shaft of ulna (alone)
S52221A	81322	Displaced transverse fracture of shaft of right ulna, initial encounter for closed fracture	Closed fracture of shaft of ulna (alone)
S52222A	81322	Displaced transverse fracture of shaft of left ulna, initial encounter for closed fracture	Closed fracture of shaft of ulna (alone)
S52223A	81322	Displaced transverse fracture of shaft of unspecified ulna, initial encounter for closed fracture	Closed fracture of shaft of ulna (alone)
S52224A	81322	Nondisplaced transverse fracture of shaft of right ulna, initial encounter for closed fracture	Closed fracture of shaft of ulna (alone)
S52225A	81322	Nondisplaced transverse fracture of shaft of left ulna, initial encounter for closed fracture	Closed fracture of shaft of ulna (alone)
S52226A	81322	Nondisplaced transverse fracture of shaft of unspecified ulna, initial encounter for closed fracture	Closed fracture of shaft of ulna (alone)
S52231A	81322	Displaced oblique fracture of shaft of right ulna, initial encounter for closed fracture	Closed fracture of shaft of ulna (alone)
S52232A	81322	Displaced oblique fracture of shaft of left ulna, initial encounter for closed fracture	Closed fracture of shaft of ulna (alone)
S52233A	81322	Displaced oblique fracture of shaft of unspecified ulna, initial encounter for closed fracture	Closed fracture of shaft of ulna (alone)
S52234A	81322	Nondisplaced oblique fracture of shaft of right ulna, initial encounter for closed fracture	Closed fracture of shaft of ulna (alone)
S52235A	81322	Nondisplaced oblique fracture of shaft of left ulna, initial encounter for closed fracture	Closed fracture of shaft of ulna (alone)
S52236A	81322	Nondisplaced oblique fracture of shaft of unspecified ulna, initial encounter for closed fracture	Closed fracture of shaft of ulna (alone)

Appendix A

Frailty markers

S52241A	81322	Displaced spiral fracture of shaft of ulna, right arm, initial encounter for closed fracture	Closed fracture of shaft of ulna (alone)
S52242A	81322	Displaced spiral fracture of shaft of ulna, left arm, initial encounter for closed fracture	Closed fracture of shaft of ulna (alone)
S52243A	81322	Displaced spiral fracture of shaft of ulna, unspecified arm, initial encounter for closed fracture	Closed fracture of shaft of ulna (alone)
S52244A	81322	Nondisplaced spiral fracture of shaft of ulna, right arm, initial encounter for closed fracture	Closed fracture of shaft of ulna (alone)
S52245A	81322	Nondisplaced spiral fracture of shaft of ulna, left arm, initial encounter for closed fracture	Closed fracture of shaft of ulna (alone)
S52246A	81322	Nondisplaced spiral fracture of shaft of ulna, unspecified arm, initial encounter for closed fracture	Closed fracture of shaft of ulna (alone)
S52251A	81322	Displaced comminuted fracture of shaft of ulna, right arm, initial encounter for closed fracture	Closed fracture of shaft of ulna (alone)
S52252A	81322	Displaced comminuted fracture of shaft of ulna, left arm, initial encounter for closed fracture	Closed fracture of shaft of ulna (alone)
S52253A	81322	Displaced comminuted fracture of shaft of ulna, unspecified arm, initial encounter for closed fracture	Closed fracture of shaft of ulna (alone)
S52254A	81322	Nondisplaced comminuted fracture of shaft of ulna, right arm, initial encounter for closed fracture	Closed fracture of shaft of ulna (alone)
S52255A	81322	Nondisplaced comminuted fracture of shaft of ulna, left arm, initial encounter for closed fracture	Closed fracture of shaft of ulna (alone)
S52256A	81322	Nondisplaced comminuted fracture of shaft of ulna, unspecified arm, initial encounter for closed fracture	Closed fracture of shaft of ulna (alone)
S52261A	81322	Displaced segmental fracture of shaft of ulna, right arm, initial encounter for closed fracture	Closed fracture of shaft of ulna (alone)
S52262A	81322	Displaced segmental fracture of shaft of ulna, left arm, initial encounter for closed fracture	Closed fracture of shaft of ulna (alone)
S52263A	81322	Displaced segmental fracture of shaft of ulna, unspecified arm, initial encounter for closed fracture	Closed fracture of shaft of ulna (alone)
S52264A	81322	Nondisplaced segmental fracture of shaft of ulna, right arm, initial encounter for closed fracture	Closed fracture of shaft of ulna (alone)
S52265A	81322	Nondisplaced segmental fracture of shaft of ulna, left arm, initial encounter for closed fracture	Closed fracture of shaft of ulna (alone)
S52266A	81322	Nondisplaced segmental fracture of shaft of ulna, unspecified arm, initial encounter for closed fracture	Closed fracture of shaft of ulna (alone)
S52281A	81322	Bent bone of right ulna, initial encounter for closed fracture	Closed fracture of shaft of ulna (alone)
S52282A	81322	Bent bone of left ulna, initial encounter for closed fracture	Closed fracture of shaft of ulna (alone)
S52283A	81322	Bent bone of unspecified ulna, initial encounter for closed fracture	Closed fracture of shaft of ulna (alone)
S52291A	81322	Other fracture of shaft of right ulna, initial encounter for closed fracture	Closed fracture of shaft of ulna (alone)
S52292A	81322	Other fracture of shaft of left ulna, initial encounter for closed fracture	Closed fracture of shaft of ulna (alone)
S52299A	81322	Other fracture of shaft of unspecified ulna, initial encounter for closed fracture	Closed fracture of shaft of ulna (alone)
S52209A	81323	Unspecified fracture of shaft of unspecified ulna, initial encounter for closed fracture	Closed fracture of shaft of radius with ulna
S52309A	81323	Unspecified fracture of shaft of unspecified radius, initial encounter for closed fracture	Closed fracture of shaft of radius with ulna
S5290XB	81330	Unspecified fracture of unspecified forearm, initial encounter for open fracture type I or II	Open fracture of shaft of radius or ulna, unspecified
S5290XC	81330	Unspecified fracture of unspecified forearm, initial encounter for open fracture type IIIA, IIIB, or IIIC	Open fracture of shaft of radius or ulna, unspecified
S52301B	81331	Unspecified fracture of shaft of right radius, initial encounter for open fracture type I or II	Open fracture of shaft of radius (alone)
S52301C	81331	Unspecified fracture of shaft of right radius, initial encounter for open fracture type IIIA, IIIB, or IIIC	Open fracture of shaft of radius (alone)
S52302B	81331	Unspecified fracture of shaft of left radius, initial encounter for open fracture type I or II	Open fracture of shaft of radius (alone)
S52302C	81331	Unspecified fracture of shaft of left radius, initial encounter for open fracture type IIIA, IIIB, or IIIC	Open fracture of shaft of radius (alone)

Appendix A

Frailty markers

[illegible]

Appendix A

Frailty markers

[illegible]

Appendix A

Frailty markers

S52365B	81331	Nondisplaced segmental fracture of shaft of radius, left arm, initial encounter for open fracture type I or II	Open fracture of shaft of radius (alone)
S52365C	81331	Nondisplaced segmental fracture of shaft of radius, left arm, initial encounter for open fracture type IIIA, IIIB, or IIIC	Open fracture of shaft of radius (alone)
S52366B	81331	Nondisplaced segmental fracture of shaft of radius, unspecified arm, initial encounter for open fracture type I or II	Open fracture of shaft of radius (alone)
S52366C	81331	Nondisplaced segmental fracture of shaft of radius, unspecified arm, initial encounter for open fracture type IIIA, IIIB, or IIIC	Open fracture of shaft of radius (alone)
S52371B	81331	Galeazzi's fracture of right radius, initial encounter for open fracture type I or II	Open fracture of shaft of radius (alone)
S52371C	81331	Galeazzi's fracture of right radius, initial encounter for open fracture type IIIA, IIIB, or IIIC	Open fracture of shaft of radius (alone)
S52372B	81331	Galeazzi's fracture of left radius, initial encounter for open fracture type I or II	Open fracture of shaft of radius (alone)
S52372C	81331	Galeazzi's fracture of left radius, initial encounter for open fracture type IIIA, IIIB, or IIIC	Open fracture of shaft of radius (alone)
S52379B	81331	Galeazzi's fracture of unspecified radius, initial encounter for open fracture type I or II	Open fracture of shaft of radius (alone)
S52379C	81331	Galeazzi's fracture of unspecified radius, initial encounter for open fracture type IIIA, IIIB, or IIIC	Open fracture of shaft of radius (alone)
S52381B	81331	Bent bone of right radius, initial encounter for open fracture type I or II	Open fracture of shaft of radius (alone)
S52381C	81331	Bent bone of right radius, initial encounter for open fracture type IIIA, IIIB, or IIIC	Open fracture of shaft of radius (alone)
S52382B	81331	Bent bone of left radius, initial encounter for open fracture type I or II	Open fracture of shaft of radius (alone)
S52382C	81331	Bent bone of left radius, initial encounter for open fracture type IIIA, IIIB, or IIIC	Open fracture of shaft of radius (alone)
S52389B	81331	Bent bone of unspecified radius, initial encounter for open fracture type I or II	Open fracture of shaft of radius (alone)
S52389C	81331	Bent bone of unspecified radius, initial encounter for open fracture type IIIA, IIIB, or IIIC	Open fracture of shaft of radius (alone)
S52391B	81331	Other fracture of shaft of radius, right arm, initial encounter for open fracture type I or II	Open fracture of shaft of radius (alone)
S52391C	81331	Other fracture of shaft of radius, right arm, initial encounter for open fracture type IIIA, IIIB, or IIIC	Open fracture of shaft of radius (alone)
S52392B	81331	Other fracture of shaft of radius, left arm, initial encounter for open fracture type I or II	Open fracture of shaft of radius (alone)
S52392C	81331	Other fracture of shaft of radius, left arm, initial encounter for open fracture type IIIA, IIIB, or IIIC	Open fracture of shaft of radius (alone)
S52399B	81331	Other fracture of shaft of radius, unspecified arm, initial encounter for open fracture type I or II	Open fracture of shaft of radius (alone)
S52399C	81331	Other fracture of shaft of radius, unspecified arm, initial encounter for open fracture type IIIA, IIIB, or IIIC	Open fracture of shaft of radius (alone)
S52201B	81332	Unspecified fracture of shaft of right ulna, initial encounter for open fracture type I or II	Open fracture of shaft of ulna (alone)
S52201C	81332	Unspecified fracture of shaft of right ulna, initial encounter for open fracture type IIIA, IIIB, or IIIC	Open fracture of shaft of ulna (alone)
S52202B	81332	Unspecified fracture of shaft of left ulna, initial encounter for open fracture type I or II	Open fracture of shaft of ulna (alone)
S52202C	81332	Unspecified fracture of shaft of left ulna, initial encounter for open fracture type IIIA, IIIB, or IIIC	Open fracture of shaft of ulna (alone)
S52221B	81332	Displaced transverse fracture of shaft of right ulna, initial encounter for open fracture type I or II	Open fracture of shaft of ulna (alone)
S52221C	81332	Displaced transverse fracture of shaft of right ulna, initial encounter for open fracture type IIIA, IIIB, or IIIC	Open fracture of shaft of ulna (alone)
S52222B	81332	Displaced transverse fracture of shaft of left ulna, initial encounter for open fracture type I or II	Open fracture of shaft of ulna (alone)

Appendix A

Frailty markers

[illegible]

Appendix A

Frailty markers

[illegible]

Appendix A

Frailty markers

S52266C	81332	Nondisplaced segmental fracture of shaft of ulna, unspecified arm, initial encounter for open fracture type IIIA, IIIB, or IIIC	Open fracture of shaft of ulna (alone)
S52281B	81332	Bent bone of right ulna, initial encounter for open fracture type I or II	Open fracture of shaft of ulna (alone)
S52281C	81332	Bent bone of right ulna, initial encounter for open fracture type IIIA, IIIB, or IIIC	Open fracture of shaft of ulna (alone)
S52282B	81332	Bent bone of left ulna, initial encounter for open fracture type I or II	Open fracture of shaft of ulna (alone)
S52282C	81332	Bent bone of left ulna, initial encounter for open fracture type IIIA, IIIB, or IIIC	Open fracture of shaft of ulna (alone)
S52283B	81332	Bent bone of unspecified ulna, initial encounter for open fracture type I or II	Open fracture of shaft of ulna (alone)
S52283C	81332	Bent bone of unspecified ulna, initial encounter for open fracture type IIIA, IIIB, or IIIC	Open fracture of shaft of ulna (alone)
S52291B	81332	Other fracture of shaft of right ulna, initial encounter for open fracture type I or II	Open fracture of shaft of ulna (alone)
S52291C	81332	Other fracture of shaft of right ulna, initial encounter for open fracture type IIIA, IIIB, or IIIC	Open fracture of shaft of ulna (alone)
S52292B	81332	Other fracture of shaft of left ulna, initial encounter for open fracture type I or II	Open fracture of shaft of ulna (alone)
S52292C	81332	Other fracture of shaft of left ulna, initial encounter for open fracture type IIIA, IIIB, or IIIC	Open fracture of shaft of ulna (alone)
S52299B	81332	Other fracture of shaft of unspecified ulna, initial encounter for open fracture type I or II	Open fracture of shaft of ulna (alone)
S52299C	81332	Other fracture of shaft of unspecified ulna, initial encounter for open fracture type IIIA, IIIB, or IIIC	Open fracture of shaft of ulna (alone)
S52209B	81333	Unspecified fracture of shaft of unspecified ulna, initial encounter for open fracture type I or II	Open fracture of shaft of radius with ulna
S52209C	81333	Unspecified fracture of shaft of unspecified ulna, initial encounter for open fracture type IIIA, IIIB, or IIIC	Open fracture of shaft of radius with ulna
S52309B	81333	Unspecified fracture of shaft of unspecified radius, initial encounter for open fracture type I or II	Open fracture of shaft of radius with ulna
S52309C	81333	Unspecified fracture of shaft of unspecified radius, initial encounter for open fracture type IIIA, IIIB, or IIIC	Open fracture of shaft of radius with ulna
S5290XA	81340	Unspecified fracture of unspecified forearm, initial encounter for closed fracture	Closed fracture of lower end of forearm, unspecified
S52531A	81341	Colles' fracture of right radius, initial encounter for closed fracture	Closed Colles' fracture
S52532A	81341	Colles' fracture of left radius, initial encounter for closed fracture	Closed Colles' fracture
S52541A	81341	Smith's fracture of right radius, initial encounter for closed fracture	Closed Colles' fracture
S52542A	81341	Smith's fracture of left radius, initial encounter for closed fracture	Closed Colles' fracture
S52501A	81342	Unspecified fracture of the lower end of right radius, initial encounter for closed fracture	Other closed fractures of distal end of radius (alone)
S52502A	81342	Unspecified fracture of the lower end of left radius, initial encounter for closed fracture	Other closed fractures of distal end of radius (alone)
S52511A	81342	Displaced fracture of right radial styloid process, initial encounter for closed fracture	Other closed fractures of distal end of radius (alone)
S52512A	81342	Displaced fracture of left radial styloid process, initial encounter for closed fracture	Other closed fractures of distal end of radius (alone)
S52513A	81342	Displaced fracture of unspecified radial styloid process, initial encounter for closed fracture	Other closed fractures of distal end of radius (alone)
S52514A	81342	Nondisplaced fracture of right radial styloid process, initial encounter for closed fracture	Other closed fractures of distal end of radius (alone)
S52515A	81342	Nondisplaced fracture of left radial styloid process, initial encounter for closed fracture	Other closed fractures of distal end of radius (alone)
S52516A	81342	Nondisplaced fracture of unspecified radial styloid process, initial encounter for closed fracture	Other closed fractures of distal end of radius (alone)

Appendix A

Frailty markers

[illegible]

Appendix A

Frailty markers

S52602A	81343	Unspecified fracture of lower end of left ulna, initial encounter for closed fracture	Closed fracture of distal end of ulna (alone)
S52611A	81343	Displaced fracture of right ulna styloid process, initial encounter for closed fracture	Closed fracture of distal end of ulna (alone)
S52612A	81343	Displaced fracture of left ulna styloid process, initial encounter for closed fracture	Closed fracture of distal end of ulna (alone)
S52613A	81343	Displaced fracture of unspecified ulna styloid process, initial encounter for closed fracture	Closed fracture of distal end of ulna (alone)
S52614A	81343	Nondisplaced fracture of right ulna styloid process, initial encounter for closed fracture	Closed fracture of distal end of ulna (alone)
S52615A	81343	Nondisplaced fracture of left ulna styloid process, initial encounter for closed fracture	Closed fracture of distal end of ulna (alone)
S52616A	81343	Nondisplaced fracture of unspecified ulna styloid process, initial encounter for closed fracture	Closed fracture of distal end of ulna (alone)
S52691A	81343	Other fracture of lower end of right ulna, initial encounter for closed fracture	Closed fracture of distal end of ulna (alone)
S52692A	81343	Other fracture of lower end of left ulna, initial encounter for closed fracture	Closed fracture of distal end of ulna (alone)
S52699A	81343	Other fracture of lower end of unspecified ulna, initial encounter for closed fracture	Closed fracture of distal end of ulna (alone)
S59001A	81343	Unspecified physeal fracture of lower end of ulna, right arm, initial encounter for closed fracture	Closed fracture of distal end of ulna (alone)
S59002A	81343	Unspecified physeal fracture of lower end of ulna, left arm, initial encounter for closed fracture	Closed fracture of distal end of ulna (alone)
S59009A	81343	Unspecified physeal fracture of lower end of ulna, unspecified arm, initial encounter for closed fracture	Closed fracture of distal end of ulna (alone)
S59011A	81343	Salter-Harris Type I physeal fracture of lower end of ulna, right arm, initial encounter for closed fracture	Closed fracture of distal end of ulna (alone)
S59012A	81343	Salter-Harris Type I physeal fracture of lower end of ulna, left arm, initial encounter for closed fracture	Closed fracture of distal end of ulna (alone)
S59019A	81343	Salter-Harris Type I physeal fracture of lower end of ulna, unspecified arm, initial encounter for closed fracture	Closed fracture of distal end of ulna (alone)
S59021A	81343	Salter-Harris Type II physeal fracture of lower end of ulna, right arm, initial encounter for closed fracture	Closed fracture of distal end of ulna (alone)
S59022A	81343	Salter-Harris Type II physeal fracture of lower end of ulna, left arm, initial encounter for closed fracture	Closed fracture of distal end of ulna (alone)
S59029A	81343	Salter-Harris Type II physeal fracture of lower end of ulna, unspecified arm, initial encounter for closed fracture	Closed fracture of distal end of ulna (alone)
S59031A	81343	Salter-Harris Type III physeal fracture of lower end of ulna, right arm, initial encounter for closed fracture	Closed fracture of distal end of ulna (alone)
S59032A	81343	Salter-Harris Type III physeal fracture of lower end of ulna, left arm, initial encounter for closed fracture	Closed fracture of distal end of ulna (alone)
S59039A	81343	Salter-Harris Type III physeal fracture of lower end of ulna, unspecified arm, initial encounter for closed fracture	Closed fracture of distal end of ulna (alone)
S59041A	81343	Salter-Harris Type IV physeal fracture of lower end of ulna, right arm, initial encounter for closed fracture	Closed fracture of distal end of ulna (alone)
S59042A	81343	Salter-Harris Type IV physeal fracture of lower end of ulna, left arm, initial encounter for closed fracture	Closed fracture of distal end of ulna (alone)
S59049A	81343	Salter-Harris Type IV physeal fracture of lower end of ulna, unspecified arm, initial encounter for closed fracture	Closed fracture of distal end of ulna (alone)
S59091A	81343	Other physeal fracture of lower end of ulna, right arm, initial encounter for closed fracture	Closed fracture of distal end of ulna (alone)
S59092A	81343	Other physeal fracture of lower end of ulna, left arm, initial encounter for closed fracture	Closed fracture of distal end of ulna (alone)
S59099A	81343	Other physeal fracture of lower end of ulna, unspecified arm, initial encounter for closed fracture	Closed fracture of distal end of ulna (alone)
S52509A	81344	Unspecified fracture of the lower end of unspecified radius, initial encounter for closed fracture	Closed fracture of lower end of radius with ulna
S52609A	81344	Unspecified fracture of lower end of unspecified ulna, initial encounter for closed fracture	Closed fracture of lower end of radius with ulna
S52111A	81345	Torus fracture of upper end of right radius, initial encounter for closed fracture	Torus fracture of radius (alone)

Appendix A
Frailty markers

S52112A	81345	Torus fracture of upper end of left radius, initial encounter for closed fracture	Torus fracture of radius (alone)
S52521A	81345	Torus fracture of lower end of right radius, initial encounter for closed fracture	Torus fracture of radius (alone)
S52522A	81345	Torus fracture of lower end of left radius, initial encounter for closed fracture	Torus fracture of radius (alone)
S52011A	81346	Torus fracture of upper end of right ulna, initial encounter for closed fracture	Torus fracture of ulna (alone)
S52012A	81346	Torus fracture of upper end of left ulna, initial encounter for closed fracture	Torus fracture of ulna (alone)
S52621A	81346	Torus fracture of lower end of right ulna, initial encounter for closed fracture	Torus fracture of ulna (alone)
S52622A	81346	Torus fracture of lower end of left ulna, initial encounter for closed fracture	Torus fracture of ulna (alone)
S52011A	81347	Torus fracture of upper end of right ulna, initial encounter for closed fracture	Torus fracture of radius and ulna
S52012A	81347	Torus fracture of upper end of left ulna, initial encounter for closed fracture	Torus fracture of radius and ulna
S52111A	81347	Torus fracture of upper end of right radius, initial encounter for closed fracture	Torus fracture of radius and ulna
S52112A	81347	Torus fracture of upper end of left radius, initial encounter for closed fracture	Torus fracture of radius and ulna
S52521A	81347	Torus fracture of lower end of right radius, initial encounter for closed fracture	Torus fracture of radius and ulna
S52522A	81347	Torus fracture of lower end of left radius, initial encounter for closed fracture	Torus fracture of radius and ulna
S52621A	81347	Torus fracture of lower end of right ulna, initial encounter for closed fracture	Torus fracture of radius and ulna
S52622A	81347	Torus fracture of lower end of left ulna, initial encounter for closed fracture	Torus fracture of radius and ulna
S5290XB	81350	Unspecified fracture of unspecified forearm, initial encounter for open fracture type I or II	Open fracture of lower end of forearm, unspecified
S5290XC	81350	Unspecified fracture of unspecified forearm, initial encounter for open fracture type IIIA, IIIB, or IIIC	Open fracture of lower end of forearm, unspecified
S52531B	81351	Colles' fracture of right radius, initial encounter for open fracture type I or II	Open Colles' fracture
S52531C	81351	Colles' fracture of right radius, initial encounter for open fracture type IIIA, IIIB, or IIIC	Open Colles' fracture
S52532B	81351	Colles' fracture of left radius, initial encounter for open fracture type I or II	Open Colles' fracture
S52532C	81351	Colles' fracture of left radius, initial encounter for open fracture type IIIA, IIIB, or IIIC	Open Colles' fracture
S52501B	81352	Unspecified fracture of the lower end of right radius, initial encounter for open fracture type I or II	Other open fractures of distal end of radius (alone)
S52501C	81352	Unspecified fracture of the lower end of right radius, initial encounter for open fracture type IIIA, IIIB, or IIIC	Other open fractures of distal end of radius (alone)
S52502B	81352	Unspecified fracture of the lower end of left radius, initial encounter for open fracture type I or II	Other open fractures of distal end of radius (alone)
S52502C	81352	Unspecified fracture of the lower end of left radius, initial encounter for open fracture type IIIA, IIIB, or IIIC	Other open fractures of distal end of radius (alone)
S52511B	81352	Displaced fracture of right radial styloid process, initial encounter for open fracture type I or II	Other open fractures of distal end of radius (alone)
S52511C	81352	Displaced fracture of right radial styloid process, initial encounter for open fracture type IIIA, IIIB, or IIIC	Other open fractures of distal end of radius (alone)
S52512B	81352	Displaced fracture of left radial styloid process, initial encounter for open fracture type I or II	Other open fractures of distal end of radius (alone)
S52512C	81352	Displaced fracture of left radial styloid process, initial encounter for open fracture type IIIA, IIIB, or IIIC	Other open fractures of distal end of radius (alone)
S52513B	81352	Displaced fracture of unspecified radial styloid process, initial encounter for open fracture type I or II	Other open fractures of distal end of radius (alone)
S52513C	81352	Displaced fracture of unspecified radial styloid process, initial encounter for open fracture type IIIA, IIIB, or IIIC	Other open fractures of distal end of radius (alone)

Appendix A

Frailty markers

[illegible]

Appendix A

Frailty markers

[illegible]

Appendix A

Frailty markers

S52609C	81354	Unspecified fracture of lower end of unspecified ulna, initial encounter for open fracture type IIIA, IIIB, or IIIC	Open fracture of lower end of radius with ulna
S5291XA	81380	Unspecified fracture of right forearm, initial encounter for closed fracture	Closed fracture of unspecified part of forearm
S5292XA	81380	Unspecified fracture of left forearm, initial encounter for closed fracture	Closed fracture of unspecified part of forearm
S5290XA	81381	Unspecified fracture of unspecified forearm, initial encounter for closed fracture	Closed fracture of unspecified part of radius (alone)
S5290XA	81382	Unspecified fracture of unspecified forearm, initial encounter for closed fracture	Closed fracture of unspecified part of ulna (alone)
S5290XA	81383	Unspecified fracture of unspecified forearm, initial encounter for closed fracture	Closed fracture of unspecified part of radius with ulna
S5291XB	81390	Unspecified fracture of right forearm, initial encounter for open fracture type I or II	Open fracture of unspecified part of forearm
S5291XC	81390	Unspecified fracture of right forearm, initial encounter for open fracture type IIIA, IIIB, or IIIC	Open fracture of unspecified part of forearm
S5292XB	81390	Unspecified fracture of left forearm, initial encounter for open fracture type I or II	Open fracture of unspecified part of forearm
S5292XC	81390	Unspecified fracture of left forearm, initial encounter for open fracture type IIIA, IIIB, or IIIC	Open fracture of unspecified part of forearm
S5290XB	81391	Unspecified fracture of unspecified forearm, initial encounter for open fracture type I or II	Open fracture of unspecified part of radius (alone)
S5290XC	81391	Unspecified fracture of unspecified forearm, initial encounter for open fracture type IIIA, IIIB, or IIIC	Open fracture of unspecified part of radius (alone)
S5290XB	81392	Unspecified fracture of unspecified forearm, initial encounter for open fracture type I or II	Open fracture of unspecified part of ulna (alone)
S5290XC	81392	Unspecified fracture of unspecified forearm, initial encounter for open fracture type IIIA, IIIB, or IIIC	Open fracture of unspecified part of ulna (alone)
S5290XB	81393	Unspecified fracture of unspecified forearm, initial encounter for open fracture type I or II	Open fracture of unspecified part of radius with ulna
S5290XC	81393	Unspecified fracture of unspecified forearm, initial encounter for open fracture type IIIA, IIIB, or IIIC	Open fracture of unspecified part of radius with ulna
S62101A	81400	Fracture of unspecified carpal bone, right wrist, initial encounter for closed fracture	Closed fracture of carpal bone, unspecified
S62102A	81400	Fracture of unspecified carpal bone, left wrist, initial encounter for closed fracture	Closed fracture of carpal bone, unspecified
S62001A	81401	Unspecified fracture of navicular [scaphoid] bone of right wrist, initial encounter for closed fracture	Closed fracture of navicular [scaphoid] bone of wrist
S62002A	81401	Unspecified fracture of navicular [scaphoid] bone of left wrist, initial encounter for closed fracture	Closed fracture of navicular [scaphoid] bone of wrist
S62011A	81401	Displaced fracture of distal pole of navicular [scaphoid] bone of right wrist, initial encounter for closed fracture	Closed fracture of navicular [scaphoid] bone of wrist
S62012A	81401	Displaced fracture of distal pole of navicular [scaphoid] bone of left wrist, initial encounter for closed fracture	Closed fracture of navicular [scaphoid] bone of wrist
S62013A	81401	Displaced fracture of distal pole of navicular [scaphoid] bone of unspecified wrist, initial encounter for closed fracture	Closed fracture of navicular [scaphoid] bone of wrist
S62014A	81401	Nondisplaced fracture of distal pole of navicular [scaphoid] bone of right wrist, initial encounter for closed fracture	Closed fracture of navicular [scaphoid] bone of wrist
S62015A	81401	Nondisplaced fracture of distal pole of navicular [scaphoid] bone of left wrist, initial encounter for closed fracture	Closed fracture of navicular [scaphoid] bone of wrist
S62016A	81401	Nondisplaced fracture of distal pole of navicular [scaphoid] bone of unspecified wrist, initial encounter for closed fracture	Closed fracture of navicular [scaphoid] bone of wrist
S62021A	81401	Displaced fracture of middle third of navicular [scaphoid] bone of right wrist, initial encounter for closed fracture	Closed fracture of navicular [scaphoid] bone of wrist
S62022A	81401	Displaced fracture of middle third of navicular [scaphoid] bone of left wrist, initial encounter for closed fracture	Closed fracture of navicular [scaphoid] bone of wrist
S62023A	81401	Displaced fracture of middle third of navicular [scaphoid] bone of unspecified wrist, initial encounter for closed fracture	Closed fracture of navicular [scaphoid] bone of wrist

Appendix A

Frailty markers

S62024A	81401	Nondisplaced fracture of middle third of navicular [scaphoid] bone of right wrist, initial encounter for closed fracture	Closed fracture of navicular [scaphoid] bone of wrist
S62025A	81401	Nondisplaced fracture of middle third of navicular [scaphoid] bone of left wrist, initial encounter for closed fracture	Closed fracture of navicular [scaphoid] bone of wrist
S62026A	81401	Nondisplaced fracture of middle third of navicular [scaphoid] bone of unspecified wrist, initial encounter for closed fracture	Closed fracture of navicular [scaphoid] bone of wrist
S62031A	81401	Displaced fracture of proximal third of navicular [scaphoid] bone of right wrist, initial encounter for closed fracture	Closed fracture of navicular [scaphoid] bone of wrist
S62032A	81401	Displaced fracture of proximal third of navicular [scaphoid] bone of left wrist, initial encounter for closed fracture	Closed fracture of navicular [scaphoid] bone of wrist
S62033A	81401	Displaced fracture of proximal third of navicular [scaphoid] bone of unspecified wrist, initial encounter for closed fracture	Closed fracture of navicular [scaphoid] bone of wrist
S62034A	81401	Nondisplaced fracture of proximal third of navicular [scaphoid] bone of right wrist, initial encounter for closed fracture	Closed fracture of navicular [scaphoid] bone of wrist
S62035A	81401	Nondisplaced fracture of proximal third of navicular [scaphoid] bone of left wrist, initial encounter for closed fracture	Closed fracture of navicular [scaphoid] bone of wrist
S62036A	81401	Nondisplaced fracture of proximal third of navicular [scaphoid] bone of unspecified wrist, initial encounter for closed fracture	Closed fracture of navicular [scaphoid] bone of wrist
S62121A	81402	Displaced fracture of lunate [semilunar], right wrist, initial encounter for closed fracture	Closed fracture of lunate [semilunar] bone of wrist
S62122A	81402	Displaced fracture of lunate [semilunar], left wrist, initial encounter for closed fracture	Closed fracture of lunate [semilunar] bone of wrist
S62124A	81402	Nondisplaced fracture of lunate [semilunar], right wrist, initial encounter for closed fracture	Closed fracture of lunate [semilunar] bone of wrist
S62125A	81402	Nondisplaced fracture of lunate [semilunar], left wrist, initial encounter for closed fracture	Closed fracture of lunate [semilunar] bone of wrist
S62111A	81403	Displaced fracture of triquetrum [cuneiform] bone, right wrist, initial encounter for closed fracture	Closed fracture of triquetral [cuneiform] bone of wrist
S62112A	81403	Displaced fracture of triquetrum [cuneiform] bone, left wrist, initial encounter for closed fracture	Closed fracture of triquetral [cuneiform] bone of wrist
S62114A	81403	Nondisplaced fracture of triquetrum [cuneiform] bone, right wrist, initial encounter for closed fracture	Closed fracture of triquetral [cuneiform] bone of wrist
S62115A	81403	Nondisplaced fracture of triquetrum [cuneiform] bone, left wrist, initial encounter for closed fracture	Closed fracture of triquetral [cuneiform] bone of wrist
S62161A	81404	Displaced fracture of pisiform, right wrist, initial encounter for closed fracture	Closed fracture of pisiform bone of wrist
S62162A	81404	Displaced fracture of pisiform, left wrist, initial encounter for closed fracture	Closed fracture of pisiform bone of wrist
S62164A	81404	Nondisplaced fracture of pisiform, right wrist, initial encounter for closed fracture	Closed fracture of pisiform bone of wrist
S62165A	81404	Nondisplaced fracture of pisiform, left wrist, initial encounter for closed fracture	Closed fracture of pisiform bone of wrist
S62171A	81405	Displaced fracture of trapezium [larger multangular], right wrist, initial encounter for closed fracture	Closed fracture of trapezium bone [larger multangular] of wrist
S62172A	81405	Displaced fracture of trapezium [larger multangular], left wrist, initial encounter for closed fracture	Closed fracture of trapezium bone [larger multangular] of wrist
S62174A	81405	Nondisplaced fracture of trapezium [larger multangular], right wrist, initial encounter for closed fracture	Closed fracture of trapezium bone [larger multangular] of wrist
S62175A	81405	Nondisplaced fracture of trapezium [larger multangular], left wrist, initial encounter for closed fracture	Closed fracture of trapezium bone [larger multangular] of wrist
S62181A	81406	Displaced fracture of trapezoid [smaller multangular], right wrist, initial encounter for closed fracture	Closed fracture of trapezoid bone [smaller multangular] of wrist
S62182A	81406	Displaced fracture of trapezoid [smaller multangular], left wrist, initial encounter for closed fracture	Closed fracture of trapezoid bone [smaller multangular] of wrist

Appendix A

Frailty markers

S62184A	81406	Nondisplaced fracture of trapezoid [smaller multangular], right wrist, initial encounter for closed fracture	Closed fracture of trapezoid bone [smaller multangular] of wrist
S62185A	81406	Nondisplaced fracture of trapezoid [smaller multangular], left wrist, initial encounter for closed fracture	Closed fracture of trapezoid bone [smaller multangular] of wrist
S62131A	81407	Displaced fracture of capitate [os magnum] bone, right wrist, initial encounter for closed fracture	Closed fracture of capitate bone [os magnum] of wrist
S62132A	81407	Displaced fracture of capitate [os magnum] bone, left wrist, initial encounter for closed fracture	Closed fracture of capitate bone [os magnum] of wrist
S62134A	81407	Nondisplaced fracture of capitate [os magnum] bone, right wrist, initial encounter for closed fracture	Closed fracture of capitate bone [os magnum] of wrist
S62135A	81407	Nondisplaced fracture of capitate [os magnum] bone, left wrist, initial encounter for closed fracture	Closed fracture of capitate bone [os magnum] of wrist
S62141A	81408	Displaced fracture of body of hamate [unciform] bone, right wrist, initial encounter for closed fracture	Closed fracture of hamate [unciform] bone of wrist
S62142A	81408	Displaced fracture of body of hamate [unciform] bone, left wrist, initial encounter for closed fracture	Closed fracture of hamate [unciform] bone of wrist
S62144A	81408	Nondisplaced fracture of body of hamate [unciform] bone, right wrist, initial encounter for closed fracture	Closed fracture of hamate [unciform] bone of wrist
S62145A	81408	Nondisplaced fracture of body of hamate [unciform] bone, left wrist, initial encounter for closed fracture	Closed fracture of hamate [unciform] bone of wrist
S62151A	81409	Displaced fracture of hook process of hamate [unciform] bone, right wrist, initial encounter for closed fracture	Closed fracture of other bone of wrist
S62152A	81409	Displaced fracture of hook process of hamate [unciform] bone, left wrist, initial encounter for closed fracture	Closed fracture of other bone of wrist
S62154A	81409	Nondisplaced fracture of hook process of hamate [unciform] bone, right wrist, initial encounter for closed fracture	Closed fracture of other bone of wrist
S62155A	81409	Nondisplaced fracture of hook process of hamate [unciform] bone, left wrist, initial encounter for closed fracture	Closed fracture of other bone of wrist
S62101B	81410	Fracture of unspecified carpal bone, right wrist, initial encounter for open fracture	Open fracture of carpal bone, unspecified
S62102B	81410	Fracture of unspecified carpal bone, left wrist, initial encounter for open fracture	Open fracture of carpal bone, unspecified
S62001B	81411	Unspecified fracture of navicular [scaphoid] bone of right wrist, initial encounter for open fracture	Open fracture of navicular [scaphoid] bone of wrist
S62002B	81411	Unspecified fracture of navicular [scaphoid] bone of left wrist, initial encounter for open fracture	Open fracture of navicular [scaphoid] bone of wrist
S62011B	81411	Displaced fracture of distal pole of navicular [scaphoid] bone of right wrist, initial encounter for open fracture	Open fracture of navicular [scaphoid] bone of wrist
S62012B	81411	Displaced fracture of distal pole of navicular [scaphoid] bone of left wrist, initial encounter for open fracture	Open fracture of navicular [scaphoid] bone of wrist
S62013B	81411	Displaced fracture of distal pole of navicular [scaphoid] bone of unspecified wrist, initial encounter for open fracture	Open fracture of navicular [scaphoid] bone of wrist
S62014B	81411	Nondisplaced fracture of distal pole of navicular [scaphoid] bone of right wrist, initial encounter for open fracture	Open fracture of navicular [scaphoid] bone of wrist
S62015B	81411	Nondisplaced fracture of distal pole of navicular [scaphoid] bone of left wrist, initial encounter for open fracture	Open fracture of navicular [scaphoid] bone of wrist
S62016B	81411	Nondisplaced fracture of distal pole of navicular [scaphoid] bone of unspecified wrist, initial encounter for open fracture	Open fracture of navicular [scaphoid] bone of wrist
S62021B	81411	Displaced fracture of middle third of navicular [scaphoid] bone of right wrist, initial encounter for open fracture	Open fracture of navicular [scaphoid] bone of wrist
S62022B	81411	Displaced fracture of middle third of navicular [scaphoid] bone of left wrist, initial encounter for open fracture	Open fracture of navicular [scaphoid] bone of wrist
S62023B	81411	Displaced fracture of middle third of navicular [scaphoid] bone of unspecified wrist, initial encounter for open fracture	Open fracture of navicular [scaphoid] bone of wrist
S62024B	81411	Nondisplaced fracture of middle third of navicular [scaphoid] bone of right wrist, initial encounter for open fracture	Open fracture of navicular [scaphoid] bone of wrist

Appendix A

Frailty markers

S62025B	81411	Nondisplaced fracture of middle third of navicular [scaphoid] bone of left wrist, initial encounter for open fracture	Open fracture of navicular [scaphoid] bone of wrist
S62026B	81411	Nondisplaced fracture of middle third of navicular [scaphoid] bone of unspecified wrist, initial encounter for open fracture	Open fracture of navicular [scaphoid] bone of wrist
S62031B	81411	Displaced fracture of proximal third of navicular [scaphoid] bone of right wrist, initial encounter for open fracture	Open fracture of navicular [scaphoid] bone of wrist
S62032B	81411	Displaced fracture of proximal third of navicular [scaphoid] bone of left wrist, initial encounter for open fracture	Open fracture of navicular [scaphoid] bone of wrist
S62033B	81411	Displaced fracture of proximal third of navicular [scaphoid] bone of unspecified wrist, initial encounter for open fracture	Open fracture of navicular [scaphoid] bone of wrist
S62034B	81411	Nondisplaced fracture of proximal third of navicular [scaphoid] bone of right wrist, initial encounter for open fracture	Open fracture of navicular [scaphoid] bone of wrist
S62035B	81411	Nondisplaced fracture of proximal third of navicular [scaphoid] bone of left wrist, initial encounter for open fracture	Open fracture of navicular [scaphoid] bone of wrist
S62036B	81411	Nondisplaced fracture of proximal third of navicular [scaphoid] bone of unspecified wrist, initial encounter for open fracture	Open fracture of navicular [scaphoid] bone of wrist
S62121B	81412	Displaced fracture of lunate [semilunar], right wrist, initial encounter for open fracture	Open fracture of lunate [semilunar] bone of wrist
S62122B	81412	Displaced fracture of lunate [semilunar], left wrist, initial encounter for open fracture	Open fracture of lunate [semilunar] bone of wrist
S62124B	81412	Nondisplaced fracture of lunate [semilunar], right wrist, initial encounter for open fracture	Open fracture of lunate [semilunar] bone of wrist
S62125B	81412	Nondisplaced fracture of lunate [semilunar], left wrist, initial encounter for open fracture	Open fracture of lunate [semilunar] bone of wrist
S62111B	81413	Displaced fracture of triquetrum [cuneiform] bone, right wrist, initial encounter for open fracture	Open fracture of triquetral [cuneiform] bone of wrist
S62112B	81413	Displaced fracture of triquetrum [cuneiform] bone, left wrist, initial encounter for open fracture	Open fracture of triquetral [cuneiform] bone of wrist
S62114B	81413	Nondisplaced fracture of triquetrum [cuneiform] bone, right wrist, initial encounter for open fracture	Open fracture of triquetral [cuneiform] bone of wrist
S62115B	81413	Nondisplaced fracture of triquetrum [cuneiform] bone, left wrist, initial encounter for open fracture	Open fracture of triquetral [cuneiform] bone of wrist
S62161B	81414	Displaced fracture of pisiform, right wrist, initial encounter for open fracture	Open fracture of pisiform bone of wrist
S62162B	81414	Displaced fracture of pisiform, left wrist, initial encounter for open fracture	Open fracture of pisiform bone of wrist
S62164B	81414	Nondisplaced fracture of pisiform, right wrist, initial encounter for open fracture	Open fracture of pisiform bone of wrist
S62165B	81414	Nondisplaced fracture of pisiform, left wrist, initial encounter for open fracture	Open fracture of pisiform bone of wrist
S62171B	81415	Displaced fracture of trapezium [larger multangular], right wrist, initial encounter for open fracture	Open fracture of trapezium bone [larger multangular] of wrist
S62172B	81415	Displaced fracture of trapezium [larger multangular], left wrist, initial encounter for open fracture	Open fracture of trapezium bone [larger multangular] of wrist
S62174B	81415	Nondisplaced fracture of trapezium [larger multangular], right wrist, initial encounter for open fracture	Open fracture of trapezium bone [larger multangular] of wrist
S62175B	81415	Nondisplaced fracture of trapezium [larger multangular], left wrist, initial encounter for open fracture	Open fracture of trapezium bone [larger multangular] of wrist
S62181B	81416	Displaced fracture of trapezoid [smaller multangular], right wrist, initial encounter for open fracture	Open fracture of trapezoid bone [smaller multangular] of wrist
S62182B	81416	Displaced fracture of trapezoid [smaller multangular], left wrist, initial encounter for open fracture	Open fracture of trapezoid bone [smaller multangular] of wrist
S62184B	81416	Nondisplaced fracture of trapezoid [smaller multangular], right wrist, initial encounter for open fracture	Open fracture of trapezoid bone [smaller multangular] of wrist
S62185B	81416	Nondisplaced fracture of trapezoid [smaller multangular], left wrist, initial encounter for open fracture	Open fracture of trapezoid bone [smaller multangular] of wrist

Appendix A
Frailty markers

S62131B	81417	Displaced fracture of capitate [os magnum] bone, right wrist, initial encounter for open fracture	Open fracture of capitate bone [os magnum] of wrist
S62132B	81417	Displaced fracture of capitate [os magnum] bone, left wrist, initial encounter for open fracture	Open fracture of capitate bone [os magnum] of wrist
S62134B	81417	Nondisplaced fracture of capitate [os magnum] bone, right wrist, initial encounter for open fracture	Open fracture of capitate bone [os magnum] of wrist
S62135B	81417	Nondisplaced fracture of capitate [os magnum] bone, left wrist, initial encounter for open fracture	Open fracture of capitate bone [os magnum] of wrist
S62141B	81418	Displaced fracture of body of hamate [unciform] bone, right wrist, initial encounter for open fracture	Open fracture of hamate [unciform] bone of wrist
S62142B	81418	Displaced fracture of body of hamate [unciform] bone, left wrist, initial encounter for open fracture	Open fracture of hamate [unciform] bone of wrist
S62144B	81418	Nondisplaced fracture of body of hamate [unciform] bone, right wrist, initial encounter for open fracture	Open fracture of hamate [unciform] bone of wrist
S62145B	81418	Nondisplaced fracture of body of hamate [unciform] bone, left wrist, initial encounter for open fracture	Open fracture of hamate [unciform] bone of wrist
S62151B	81419	Displaced fracture of hook process of hamate [unciform] bone, right wrist, initial encounter for open fracture	Open fracture of other bone of wrist
S62152B	81419	Displaced fracture of hook process of hamate [unciform] bone, left wrist, initial encounter for open fracture	Open fracture of other bone of wrist
S62154B	81419	Nondisplaced fracture of hook process of hamate [unciform] bone, right wrist, initial encounter for open fracture	Open fracture of other bone of wrist
S62155B	81419	Nondisplaced fracture of hook process of hamate [unciform] bone, left wrist, initial encounter for open fracture	Open fracture of other bone of wrist
S62319A	81500	Displaced fracture of base of unspecified metacarpal bone, initial encounter for closed fracture	Closed fracture of metacarpal bone(s), site unspecified
S62329A	81500	Displaced fracture of shaft of unspecified metacarpal bone, initial encounter for closed fracture	Closed fracture of metacarpal bone(s), site unspecified
S62339A	81500	Displaced fracture of neck of unspecified metacarpal bone, initial encounter for closed fracture	Closed fracture of metacarpal bone(s), site unspecified
S62349A	81500	Nondisplaced fracture of base of unspecified metacarpal bone, initial encounter for closed fracture	Closed fracture of metacarpal bone(s), site unspecified
S62359A	81500	Nondisplaced fracture of shaft of unspecified metacarpal bone, initial encounter for closed fracture	Closed fracture of metacarpal bone(s), site unspecified
S62369A	81500	Nondisplaced fracture of neck of unspecified metacarpal bone, initial encounter for closed fracture	Closed fracture of metacarpal bone(s), site unspecified
S62399A	81500	Other fracture of unspecified metacarpal bone, initial encounter for closed fracture	Closed fracture of metacarpal bone(s), site unspecified
S62201A	81501	Unspecified fracture of first metacarpal bone, right hand, initial encounter for closed fracture	Closed fracture of base of thumb [first] metacarpal
S62202A	81501	Unspecified fracture of first metacarpal bone, left hand, initial encounter for closed fracture	Closed fracture of base of thumb [first] metacarpal
S62209A	81501	Unspecified fracture of first metacarpal bone, unspecified hand, initial encounter for closed fracture	Closed fracture of base of thumb [first] metacarpal
S62211A	81501	Bennett's fracture, right hand, initial encounter for closed fracture	Closed fracture of base of thumb [first] metacarpal
S62212A	81501	Bennett's fracture, left hand, initial encounter for closed fracture	Closed fracture of base of thumb [first] metacarpal
S62213A	81501	Bennett's fracture, unspecified hand, initial encounter for closed fracture	Closed fracture of base of thumb [first] metacarpal
S62221A	81501	Displaced Rolando's fracture, right hand, initial encounter for closed fracture	Closed fracture of base of thumb [first] metacarpal
S62222A	81501	Displaced Rolando's fracture, left hand, initial encounter for closed fracture	Closed fracture of base of thumb [first] metacarpal
S62223A	81501	Displaced Rolando's fracture, unspecified hand, initial encounter for closed fracture	Closed fracture of base of thumb [first] metacarpal
S62224A	81501	Nondisplaced Rolando's fracture, right hand, initial encounter for closed fracture	Closed fracture of base of thumb [first] metacarpal
S62225A	81501	Nondisplaced Rolando's fracture, left hand, initial encounter for closed fracture	Closed fracture of base of thumb [first] metacarpal
S62226A	81501	Nondisplaced Rolando's fracture, unspecified hand, initial encounter for closed fracture	Closed fracture of base of thumb [first] metacarpal

Appendix A

Frailty markers

[illegible]

Appendix A

Frailty markers

[illegible]

Appendix A

Frailty markers

S62361A	81504	Nondisplaced fracture of neck of second metacarpal bone, left hand, initial encounter for closed fracture	Closed fracture of neck of metacarpal bone(s)
S62362A	81504	Nondisplaced fracture of neck of third metacarpal bone, right hand, initial encounter for closed fracture	Closed fracture of neck of metacarpal bone(s)
S62363A	81504	Nondisplaced fracture of neck of third metacarpal bone, left hand, initial encounter for closed fracture	Closed fracture of neck of metacarpal bone(s)
S62364A	81504	Nondisplaced fracture of neck of fourth metacarpal bone, right hand, initial encounter for closed fracture	Closed fracture of neck of metacarpal bone(s)
S62365A	81504	Nondisplaced fracture of neck of fourth metacarpal bone, left hand, initial encounter for closed fracture	Closed fracture of neck of metacarpal bone(s)
S62366A	81504	Nondisplaced fracture of neck of fifth metacarpal bone, right hand, initial encounter for closed fracture	Closed fracture of neck of metacarpal bone(s)
S62367A	81504	Nondisplaced fracture of neck of fifth metacarpal bone, left hand, initial encounter for closed fracture	Closed fracture of neck of metacarpal bone(s)
S62368A	81504	Nondisplaced fracture of neck of other metacarpal bone, initial encounter for closed fracture	Closed fracture of neck of metacarpal bone(s)
S62291A	81509	Other fracture of first metacarpal bone, right hand, initial encounter for closed fracture	Closed fracture of multiple sites of metacarpus
S62292A	81509	Other fracture of first metacarpal bone, left hand, initial encounter for closed fracture	Closed fracture of multiple sites of metacarpus
S62299A	81509	Other fracture of first metacarpal bone, unspecified hand, initial encounter for closed fracture	Closed fracture of multiple sites of metacarpus
S62300A	81509	Unspecified fracture of second metacarpal bone, right hand, initial encounter for closed fracture	Closed fracture of multiple sites of metacarpus
S62301A	81509	Unspecified fracture of second metacarpal bone, left hand, initial encounter for closed fracture	Closed fracture of multiple sites of metacarpus
S62302A	81509	Unspecified fracture of third metacarpal bone, right hand, initial encounter for closed fracture	Closed fracture of multiple sites of metacarpus
S62303A	81509	Unspecified fracture of third metacarpal bone, left hand, initial encounter for closed fracture	Closed fracture of multiple sites of metacarpus
S62304A	81509	Unspecified fracture of fourth metacarpal bone, right hand, initial encounter for closed fracture	Closed fracture of multiple sites of metacarpus
S62305A	81509	Unspecified fracture of fourth metacarpal bone, left hand, initial encounter for closed fracture	Closed fracture of multiple sites of metacarpus
S62306A	81509	Unspecified fracture of fifth metacarpal bone, right hand, initial encounter for closed fracture	Closed fracture of multiple sites of metacarpus
S62307A	81509	Unspecified fracture of fifth metacarpal bone, left hand, initial encounter for closed fracture	Closed fracture of multiple sites of metacarpus
S62308A	81509	Unspecified fracture of other metacarpal bone, initial encounter for closed fracture	Closed fracture of multiple sites of metacarpus
S62309A	81509	Unspecified fracture of unspecified metacarpal bone, initial encounter for closed fracture	Closed fracture of multiple sites of metacarpus
S62390A	81509	Other fracture of second metacarpal bone, right hand, initial encounter for closed fracture	Closed fracture of multiple sites of metacarpus
S62391A	81509	Other fracture of second metacarpal bone, left hand, initial encounter for closed fracture	Closed fracture of multiple sites of metacarpus
S62392A	81509	Other fracture of third metacarpal bone, right hand, initial encounter for closed fracture	Closed fracture of multiple sites of metacarpus
S62393A	81509	Other fracture of third metacarpal bone, left hand, initial encounter for closed fracture	Closed fracture of multiple sites of metacarpus
S62394A	81509	Other fracture of fourth metacarpal bone, right hand, initial encounter for closed fracture	Closed fracture of multiple sites of metacarpus
S62395A	81509	Other fracture of fourth metacarpal bone, left hand, initial encounter for closed fracture	Closed fracture of multiple sites of metacarpus
S62396A	81509	Other fracture of fifth metacarpal bone, right hand, initial encounter for closed fracture	Closed fracture of multiple sites of metacarpus
S62397A	81509	Other fracture of fifth metacarpal bone, left hand, initial encounter for closed fracture	Closed fracture of multiple sites of metacarpus
S62398A	81509	Other fracture of other metacarpal bone, initial encounter for closed fracture	Closed fracture of multiple sites of metacarpus
S62201B	81511	Unspecified fracture of first metacarpal bone, right hand, initial encounter for open fracture	Open fracture of base of thumb [first] metacarpal

Appendix A

Frailty markers

[illegible]

Appendix A

Frailty markers

[illegible]

Appendix A

Frailty markers

[illegible]

Appendix A

Frailty markers

S62309B	81519	Unspecified fracture of unspecified metacarpal bone, initial encounter for open fracture	Open fracture of multiple sites of metacarpus
S62390B	81519	Other fracture of second metacarpal bone, right hand, initial encounter for open fracture	Open fracture of multiple sites of metacarpus
S62391B	81519	Other fracture of second metacarpal bone, left hand, initial encounter for open fracture	Open fracture of multiple sites of metacarpus
S62392B	81519	Other fracture of third metacarpal bone, right hand, initial encounter for open fracture	Open fracture of multiple sites of metacarpus
S62393B	81519	Other fracture of third metacarpal bone, left hand, initial encounter for open fracture	Open fracture of multiple sites of metacarpus
S62394B	81519	Other fracture of fourth metacarpal bone, right hand, initial encounter for open fracture	Open fracture of multiple sites of metacarpus
S62395B	81519	Other fracture of fourth metacarpal bone, left hand, initial encounter for open fracture	Open fracture of multiple sites of metacarpus
S62396B	81519	Other fracture of fifth metacarpal bone, right hand, initial encounter for open fracture	Open fracture of multiple sites of metacarpus
S62397B	81519	Other fracture of fifth metacarpal bone, left hand, initial encounter for open fracture	Open fracture of multiple sites of metacarpus
S62398B	81519	Other fracture of other metacarpal bone, initial encounter for open fracture	Open fracture of multiple sites of metacarpus
S62501A	81600	Fracture of unspecified phalanx of right thumb, initial encounter for closed fracture	Closed fracture of phalanx or phalanges of hand, unspecified
S62502A	81600	Fracture of unspecified phalanx of left thumb, initial encounter for closed fracture	Closed fracture of phalanx or phalanges of hand, unspecified
S62600A	81600	Fracture of unspecified phalanx of right index finger, initial encounter for closed fracture	Closed fracture of phalanx or phalanges of hand, unspecified
S62601A	81600	Fracture of unspecified phalanx of left index finger, initial encounter for closed fracture	Closed fracture of phalanx or phalanges of hand, unspecified
S62602A	81600	Fracture of unspecified phalanx of right middle finger, initial encounter for closed fracture	Closed fracture of phalanx or phalanges of hand, unspecified
S62603A	81600	Fracture of unspecified phalanx of left middle finger, initial encounter for closed fracture	Closed fracture of phalanx or phalanges of hand, unspecified
S62604A	81600	Fracture of unspecified phalanx of right ring finger, initial encounter for closed fracture	Closed fracture of phalanx or phalanges of hand, unspecified
S62605A	81600	Fracture of unspecified phalanx of left ring finger, initial encounter for closed fracture	Closed fracture of phalanx or phalanges of hand, unspecified
S62606A	81600	Fracture of unspecified phalanx of right little finger, initial encounter for closed fracture	Closed fracture of phalanx or phalanges of hand, unspecified
S62607A	81600	Fracture of unspecified phalanx of left little finger, initial encounter for closed fracture	Closed fracture of phalanx or phalanges of hand, unspecified
S62608A	81600	Fracture of unspecified phalanx of other finger, initial encounter for closed fracture	Closed fracture of phalanx or phalanges of hand, unspecified
S62511A	81601	Displaced fracture of proximal phalanx of right thumb, initial encounter for closed fracture	Closed fracture of middle or proximal phalanx or phalanges of hand
S62512A	81601	Displaced fracture of proximal phalanx of left thumb, initial encounter for closed fracture	Closed fracture of middle or proximal phalanx or phalanges of hand
S62514A	81601	Nondisplaced fracture of proximal phalanx of right thumb, initial encounter for closed fracture	Closed fracture of middle or proximal phalanx or phalanges of hand
S62515A	81601	Nondisplaced fracture of proximal phalanx of left thumb, initial encounter for closed fracture	Closed fracture of middle or proximal phalanx or phalanges of hand
S62610A	81601	Displaced fracture of proximal phalanx of right index finger, initial encounter for closed fracture	Closed fracture of middle or proximal phalanx or phalanges of hand
S62611A	81601	Displaced fracture of proximal phalanx of left index finger, initial encounter for closed fracture	Closed fracture of middle or proximal phalanx or phalanges of hand
S62612A	81601	Displaced fracture of proximal phalanx of right middle finger, initial encounter for closed fracture	Closed fracture of middle or proximal phalanx or phalanges of hand
S62613A	81601	Displaced fracture of proximal phalanx of left middle finger, initial encounter for closed fracture	Closed fracture of middle or proximal phalanx or phalanges of hand
S62614A	81601	Displaced fracture of proximal phalanx of right ring finger, initial encounter for closed fracture	Closed fracture of middle or proximal phalanx or phalanges of hand
S62615A	81601	Displaced fracture of proximal phalanx of left ring finger, initial encounter for closed fracture	Closed fracture of middle or proximal phalanx or phalanges of hand

Appendix A

Frailty markers

[illegible]

Appendix A

Frailty markers

[illegible]

Appendix A

Frailty markers

[illegible]

Appendix A

Frailty markers

[illegible]

Appendix A

Frailty markers

S62665B	81612	Nondisplaced fracture of distal phalanx of left ring finger, initial encounter for open fracture	Open fracture of distal phalanx or phalanges of hand
S62666B	81612	Nondisplaced fracture of distal phalanx of right little finger, initial encounter for open fracture	Open fracture of distal phalanx or phalanges of hand
S62667B	81612	Nondisplaced fracture of distal phalanx of left little finger, initial encounter for open fracture	Open fracture of distal phalanx or phalanges of hand
S62668B	81612	Nondisplaced fracture of distal phalanx of other finger, initial encounter for open fracture	Open fracture of distal phalanx or phalanges of hand
S6290XB	81613	Unspecified fracture of unspecified wrist and hand, initial encounter for open fracture	Open fracture of multiple sites of phalanx or phalanges of hand
S6291XB	81613	Unspecified fracture of right wrist and hand, initial encounter for open fracture	Open fracture of multiple sites of phalanx or phalanges of hand
S6292XB	81613	Unspecified fracture of left wrist and hand, initial encounter for open fracture	Open fracture of multiple sites of phalanx or phalanges of hand
S6290XB	8171	Unspecified fracture of unspecified wrist and hand, initial encounter for open fracture	Multiple open fractures of hand bones
S6290XA	8180	Unspecified fracture of unspecified wrist and hand, initial encounter for closed fracture	Ill-defined closed fractures of upper limb
S2220XA	8190	Unspecified fracture of sternum, initial encounter for closed fracture	Multiple closed fractures involving both upper limbs, and upper limb with rib(s) and sternum
S2249XA	8190	Multiple fractures of ribs, unspecified side, initial encounter for closed fracture	Multiple closed fractures involving both upper limbs, and upper limb with rib(s) and sternum
S4290XA	8190	Fracture of unspecified shoulder girdle, part unspecified, initial encounter for closed fracture	Multiple closed fractures involving both upper limbs, and upper limb with rib(s) and sternum
S4291XA	8190	Fracture of right shoulder girdle, part unspecified, initial encounter for closed fracture	Multiple closed fractures involving both upper limbs, and upper limb with rib(s) and sternum
S4292XA	8190	Fracture of left shoulder girdle, part unspecified, initial encounter for closed fracture	Multiple closed fractures involving both upper limbs, and upper limb with rib(s) and sternum
S5290XA	8190	Unspecified fracture of unspecified forearm, initial encounter for closed fracture	Multiple closed fractures involving both upper limbs, and upper limb with rib(s) and sternum
S5291XA	8190	Unspecified fracture of right forearm, initial encounter for closed fracture	Multiple closed fractures involving both upper limbs, and upper limb with rib(s) and sternum
S5292XA	8190	Unspecified fracture of left forearm, initial encounter for closed fracture	Multiple closed fractures involving both upper limbs, and upper limb with rib(s) and sternum
S2220XB	8191	Unspecified fracture of sternum, initial encounter for open fracture	Multiple open fractures involving both upper limbs, and upper limb with rib(s) and sternum
S2249XB	8191	Multiple fractures of ribs, unspecified side, initial encounter for open fracture	Multiple open fractures involving both upper limbs, and upper limb with rib(s) and sternum
S4290XB	8191	Fracture of unspecified shoulder girdle, part unspecified, initial encounter for open fracture	Multiple open fractures involving both upper limbs, and upper limb with rib(s) and sternum
S4291XB	8191	Fracture of right shoulder girdle, part unspecified, initial encounter for open fracture	Multiple open fractures involving both upper limbs, and upper limb with rib(s) and sternum
S4292XB	8191	Fracture of left shoulder girdle, part unspecified, initial encounter for open fracture	Multiple open fractures involving both upper limbs, and upper limb with rib(s) and sternum
S5290XB	8191	Unspecified fracture of unspecified forearm, initial encounter for open fracture type I or II	Multiple open fractures involving both upper limbs, and upper limb with rib(s) and sternum
S5291XB	8191	Unspecified fracture of right forearm, initial encounter for open fracture type I or II	Multiple open fractures involving both upper limbs, and upper limb with rib(s) and sternum
S5292XB	8191	Unspecified fracture of left forearm, initial encounter for open fracture type I or II	Multiple open fractures involving both upper limbs, and upper limb with rib(s) and sternum
S72011A	82000	Unspecified intracapsular fracture of right femur, initial encounter for closed fracture	Closed fracture of intracapsular section of neck of femur, unspecified
S72012A	82000	Unspecified intracapsular fracture of left femur, initial encounter for closed fracture	Closed fracture of intracapsular section of neck of femur, unspecified
S72021A	82001	Displaced fracture of epiphysis (separation) (upper) of right femur, initial encounter for closed fracture	Closed fracture of epiphysis (separation) (upper) of neck of femur
S72022A	82001	Displaced fracture of epiphysis (separation) (upper) of left femur, initial encounter for closed fracture	Closed fracture of epiphysis (separation) (upper) of neck of femur
S72024A	82001	Nondisplaced fracture of epiphysis (separation) (upper) of right femur, initial encounter for closed fracture	Closed fracture of epiphysis (separation) (upper) of neck of femur
S72025A	82001	Nondisplaced fracture of epiphysis (separation) (upper) of left femur, initial encounter for closed fracture	Closed fracture of epiphysis (separation) (upper) of neck of femur

Appendix A

Frailty markers

S79001A	82001	Unspecified physeal fracture of upper end of right femur, initial encounter for closed fracture	Closed fracture of epiphysis (separation) (upper) of neck of femur
S79002A	82001	Unspecified physeal fracture of upper end of left femur, initial encounter for closed fracture	Closed fracture of epiphysis (separation) (upper) of neck of femur
S79009A	82001	Unspecified physeal fracture of upper end of unspecified femur, initial encounter for closed fracture	Closed fracture of epiphysis (separation) (upper) of neck of femur
S79011A	82001	Salter-Harris Type I physeal fracture of upper end of right femur, initial encounter for closed fracture	Closed fracture of epiphysis (separation) (upper) of neck of femur
S79012A	82001	Salter-Harris Type I physeal fracture of upper end of left femur, initial encounter for closed fracture	Closed fracture of epiphysis (separation) (upper) of neck of femur
S79019A	82001	Salter-Harris Type I physeal fracture of upper end of unspecified femur, initial encounter for closed fracture	Closed fracture of epiphysis (separation) (upper) of neck of femur
S79091A	82001	Other physeal fracture of upper end of right femur, initial encounter for closed fracture	Closed fracture of epiphysis (separation) (upper) of neck of femur
S79092A	82001	Other physeal fracture of upper end of left femur, initial encounter for closed fracture	Closed fracture of epiphysis (separation) (upper) of neck of femur
S79099A	82001	Other physeal fracture of upper end of unspecified femur, initial encounter for closed fracture	Closed fracture of epiphysis (separation) (upper) of neck of femur
S72031A	82002	Displaced midcervical fracture of right femur, initial encounter for closed fracture	Closed fracture of midcervical section of neck of femur
S72032A	82002	Displaced midcervical fracture of left femur, initial encounter for closed fracture	Closed fracture of midcervical section of neck of femur
S72034A	82002	Nondisplaced midcervical fracture of right femur, initial encounter for closed fracture	Closed fracture of midcervical section of neck of femur
S72035A	82002	Nondisplaced midcervical fracture of left femur, initial encounter for closed fracture	Closed fracture of midcervical section of neck of femur
S72041A	82003	Displaced fracture of base of neck of right femur, initial encounter for closed fracture	Closed fracture of base of neck of femur
S72042A	82003	Displaced fracture of base of neck of left femur, initial encounter for closed fracture	Closed fracture of base of neck of femur
S72044A	82003	Nondisplaced fracture of base of neck of right femur, initial encounter for closed fracture	Closed fracture of base of neck of femur
S72045A	82003	Nondisplaced fracture of base of neck of left femur, initial encounter for closed fracture	Closed fracture of base of neck of femur
S72051A	82009	Unspecified fracture of head of right femur, initial encounter for closed fracture	Other closed transcervical fracture of neck of femur
S72052A	82009	Unspecified fracture of head of left femur, initial encounter for closed fracture	Other closed transcervical fracture of neck of femur
S72059A	82009	Unspecified fracture of head of unspecified femur, initial encounter for closed fracture	Other closed transcervical fracture of neck of femur
S72061A	82009	Displaced articular fracture of head of right femur, initial encounter for closed fracture	Other closed transcervical fracture of neck of femur
S72062A	82009	Displaced articular fracture of head of left femur, initial encounter for closed fracture	Other closed transcervical fracture of neck of femur
S72063A	82009	Displaced articular fracture of head of unspecified femur, initial encounter for closed fracture	Other closed transcervical fracture of neck of femur
S72064A	82009	Nondisplaced articular fracture of head of right femur, initial encounter for closed fracture	Other closed transcervical fracture of neck of femur
S72065A	82009	Nondisplaced articular fracture of head of left femur, initial encounter for closed fracture	Other closed transcervical fracture of neck of femur
S72066A	82009	Nondisplaced articular fracture of head of unspecified femur, initial encounter for closed fracture	Other closed transcervical fracture of neck of femur
S72091A	82009	Other fracture of head and neck of right femur, initial encounter for closed fracture	Other closed transcervical fracture of neck of femur
S72092A	82009	Other fracture of head and neck of left femur, initial encounter for closed fracture	Other closed transcervical fracture of neck of femur
S72011B	82010	Unspecified intracapsular fracture of right femur, initial encounter for open fracture type I or II	Open fracture of intracapsular section of neck of femur, unspecified
S72011C	82010	Unspecified intracapsular fracture of right femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Open fracture of intracapsular section of neck of femur, unspecified
S72012B	82010	Unspecified intracapsular fracture of left femur, initial encounter for open fracture type I or II	Open fracture of intracapsular section of neck of femur, unspecified

Appendix A

Frailty markers

S72012C	82010	Unspecified intracapsular fracture of left femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Open fracture of intracapsular section of neck of femur, unspecified
S72021B	82011	Displaced fracture of epiphysis (separation) (upper) of right femur, initial encounter for open fracture type I or II	Open fracture of epiphysis (separation) (upper) of neck of femur
S72021C	82011	Displaced fracture of epiphysis (separation) (upper) of right femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Open fracture of epiphysis (separation) (upper) of neck of femur
S72022B	82011	Displaced fracture of epiphysis (separation) (upper) of left femur, initial encounter for open fracture type I or II	Open fracture of epiphysis (separation) (upper) of neck of femur
S72022C	82011	Displaced fracture of epiphysis (separation) (upper) of left femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Open fracture of epiphysis (separation) (upper) of neck of femur
S72024B	82011	Nondisplaced fracture of epiphysis (separation) (upper) of right femur, initial encounter for open fracture type I or II	Open fracture of epiphysis (separation) (upper) of neck of femur
S72024C	82011	Nondisplaced fracture of epiphysis (separation) (upper) of right femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Open fracture of epiphysis (separation) (upper) of neck of femur
S72025B	82011	Nondisplaced fracture of epiphysis (separation) (upper) of left femur, initial encounter for open fracture type I or II	Open fracture of epiphysis (separation) (upper) of neck of femur
S72025C	82011	Nondisplaced fracture of epiphysis (separation) (upper) of left femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Open fracture of epiphysis (separation) (upper) of neck of femur
S72031B	82012	Displaced midcervical fracture of right femur, initial encounter for open fracture type I or II	Open fracture of midcervical section of neck of femur
S72031C	82012	Displaced midcervical fracture of right femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Open fracture of midcervical section of neck of femur
S72032B	82012	Displaced midcervical fracture of left femur, initial encounter for open fracture type I or II	Open fracture of midcervical section of neck of femur
S72032C	82012	Displaced midcervical fracture of left femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Open fracture of midcervical section of neck of femur
S72034B	82012	Nondisplaced midcervical fracture of right femur, initial encounter for open fracture type I or II	Open fracture of midcervical section of neck of femur
S72034C	82012	Nondisplaced midcervical fracture of right femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Open fracture of midcervical section of neck of femur
S72035B	82012	Nondisplaced midcervical fracture of left femur, initial encounter for open fracture type I or II	Open fracture of midcervical section of neck of femur
S72035C	82012	Nondisplaced midcervical fracture of left femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Open fracture of midcervical section of neck of femur
S72041B	82013	Displaced fracture of base of neck of right femur, initial encounter for open fracture type I or II	Open fracture of base of neck of femur
S72041C	82013	Displaced fracture of base of neck of right femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Open fracture of base of neck of femur
S72042B	82013	Displaced fracture of base of neck of left femur, initial encounter for open fracture type I or II	Open fracture of base of neck of femur
S72042C	82013	Displaced fracture of base of neck of left femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Open fracture of base of neck of femur
S72044B	82013	Nondisplaced fracture of base of neck of right femur, initial encounter for open fracture type I or II	Open fracture of base of neck of femur
S72044C	82013	Nondisplaced fracture of base of neck of right femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Open fracture of base of neck of femur
S72045B	82013	Nondisplaced fracture of base of neck of left femur, initial encounter for open fracture type I or II	Open fracture of base of neck of femur
S72045C	82013	Nondisplaced fracture of base of neck of left femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Open fracture of base of neck of femur
S72051B	82019	Unspecified fracture of head of right femur, initial encounter for open fracture type I or II	Other open transcervical fracture of neck of femur
S72051C	82019	Unspecified fracture of head of right femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Other open transcervical fracture of neck of femur
S72052B	82019	Unspecified fracture of head of left femur, initial encounter for open fracture type I or II	Other open transcervical fracture of neck of femur
S72052C	82019	Unspecified fracture of head of left femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Other open transcervical fracture of neck of femur

Appendix A

Frailty markers

[illegible]

Appendix A

Frailty markers

[illegible]

Appendix A

Frailty markers

[illegible]

Appendix A

Frailty markers

S72144B	82031	Nondisplaced intertrochanteric fracture of right femur, initial encounter for open fracture type I or II	Open fracture of intertrochanteric section of neck of femur
S72144C	82031	Nondisplaced intertrochanteric fracture of right femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Open fracture of intertrochanteric section of neck of femur
S72145B	82031	Nondisplaced intertrochanteric fracture of left femur, initial encounter for open fracture type I or II	Open fracture of intertrochanteric section of neck of femur
S72145C	82031	Nondisplaced intertrochanteric fracture of left femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Open fracture of intertrochanteric section of neck of femur
S7221XB	82032	Displaced subtrochanteric fracture of right femur, initial encounter for open fracture type I or II	Open fracture of subtrochanteric section of neck of femur
S7221XC	82032	Displaced subtrochanteric fracture of right femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Open fracture of subtrochanteric section of neck of femur
S7222XB	82032	Displaced subtrochanteric fracture of left femur, initial encounter for open fracture type I or II	Open fracture of subtrochanteric section of neck of femur
S7222XC	82032	Displaced subtrochanteric fracture of left femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Open fracture of subtrochanteric section of neck of femur
S7224XB	82032	Nondisplaced subtrochanteric fracture of right femur, initial encounter for open fracture type I or II	Open fracture of subtrochanteric section of neck of femur
S7224XC	82032	Nondisplaced subtrochanteric fracture of right femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Open fracture of subtrochanteric section of neck of femur
S7225XB	82032	Nondisplaced subtrochanteric fracture of left femur, initial encounter for open fracture type I or II	Open fracture of subtrochanteric section of neck of femur
S7225XC	82032	Nondisplaced subtrochanteric fracture of left femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Open fracture of subtrochanteric section of neck of femur
S72001A	8208	Fracture of unspecified part of neck of right femur, initial encounter for closed fracture	Closed fracture of unspecified part of neck of femur
S72002A	8208	Fracture of unspecified part of neck of left femur, initial encounter for closed fracture	Closed fracture of unspecified part of neck of femur
S72001B	8209	Fracture of unspecified part of neck of right femur, initial encounter for open fracture type I or II	Open fracture of unspecified part of neck of femur
S72001C	8209	Fracture of unspecified part of neck of right femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Open fracture of unspecified part of neck of femur
S72002B	8209	Fracture of unspecified part of neck of left femur, initial encounter for open fracture type I or II	Open fracture of unspecified part of neck of femur
S72002C	8209	Fracture of unspecified part of neck of left femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Open fracture of unspecified part of neck of femur
S728X1A	82100	Other fracture of right femur, initial encounter for closed fracture	Closed fracture of unspecified part of femur
S728X2A	82100	Other fracture of left femur, initial encounter for closed fracture	Closed fracture of unspecified part of femur
S728X9A	82100	Other fracture of unspecified femur, initial encounter for closed fracture	Closed fracture of unspecified part of femur
S7291XA	82100	Unspecified fracture of right femur, initial encounter for closed fracture	Closed fracture of unspecified part of femur
S7292XA	82100	Unspecified fracture of left femur, initial encounter for closed fracture	Closed fracture of unspecified part of femur
S72301A	82101	Unspecified fracture of shaft of right femur, initial encounter for closed fracture	Closed fracture of shaft of femur
S72302A	82101	Unspecified fracture of shaft of left femur, initial encounter for closed fracture	Closed fracture of shaft of femur
S72321A	82101	Displaced transverse fracture of shaft of right femur, initial encounter for closed fracture	Closed fracture of shaft of femur
S72322A	82101	Displaced transverse fracture of shaft of left femur, initial encounter for closed fracture	Closed fracture of shaft of femur
S72323A	82101	Displaced transverse fracture of shaft of unspecified femur, initial encounter for closed fracture	Closed fracture of shaft of femur
S72324A	82101	Nondisplaced transverse fracture of shaft of right femur, initial encounter for closed fracture	Closed fracture of shaft of femur
S72325A	82101	Nondisplaced transverse fracture of shaft of left femur, initial encounter for closed fracture	Closed fracture of shaft of femur
S72326A	82101	Nondisplaced transverse fracture of shaft of unspecified femur, initial encounter for closed fracture	Closed fracture of shaft of femur

Appendix A

Frailty markers

S72331A	82101	Displaced oblique fracture of shaft of right femur, initial encounter for closed fracture	Closed fracture of shaft of femur
S72332A	82101	Displaced oblique fracture of shaft of left femur, initial encounter for closed fracture	Closed fracture of shaft of femur
S72333A	82101	Displaced oblique fracture of shaft of unspecified femur, initial encounter for closed fracture	Closed fracture of shaft of femur
S72334A	82101	Nondisplaced oblique fracture of shaft of right femur, initial encounter for closed fracture	Closed fracture of shaft of femur
S72335A	82101	Nondisplaced oblique fracture of shaft of left femur, initial encounter for closed fracture	Closed fracture of shaft of femur
S72336A	82101	Nondisplaced oblique fracture of shaft of unspecified femur, initial encounter for closed fracture	Closed fracture of shaft of femur
S72341A	82101	Displaced spiral fracture of shaft of right femur, initial encounter for closed fracture	Closed fracture of shaft of femur
S72342A	82101	Displaced spiral fracture of shaft of left femur, initial encounter for closed fracture	Closed fracture of shaft of femur
S72343A	82101	Displaced spiral fracture of shaft of unspecified femur, initial encounter for closed fracture	Closed fracture of shaft of femur
S72344A	82101	Nondisplaced spiral fracture of shaft of right femur, initial encounter for closed fracture	Closed fracture of shaft of femur
S72345A	82101	Nondisplaced spiral fracture of shaft of left femur, initial encounter for closed fracture	Closed fracture of shaft of femur
S72346A	82101	Nondisplaced spiral fracture of shaft of unspecified femur, initial encounter for closed fracture	Closed fracture of shaft of femur
S72351A	82101	Displaced comminuted fracture of shaft of right femur, initial encounter for closed fracture	Closed fracture of shaft of femur
S72352A	82101	Displaced comminuted fracture of shaft of left femur, initial encounter for closed fracture	Closed fracture of shaft of femur
S72353A	82101	Displaced comminuted fracture of shaft of unspecified femur, initial encounter for closed fracture	Closed fracture of shaft of femur
S72354A	82101	Nondisplaced comminuted fracture of shaft of right femur, initial encounter for closed fracture	Closed fracture of shaft of femur
S72355A	82101	Nondisplaced comminuted fracture of shaft of left femur, initial encounter for closed fracture	Closed fracture of shaft of femur
S72356A	82101	Nondisplaced comminuted fracture of shaft of unspecified femur, initial encounter for closed fracture	Closed fracture of shaft of femur
S72361A	82101	Displaced segmental fracture of shaft of right femur, initial encounter for closed fracture	Closed fracture of shaft of femur
S72362A	82101	Displaced segmental fracture of shaft of left femur, initial encounter for closed fracture	Closed fracture of shaft of femur
S72363A	82101	Displaced segmental fracture of shaft of unspecified femur, initial encounter for closed fracture	Closed fracture of shaft of femur
S72364A	82101	Nondisplaced segmental fracture of shaft of right femur, initial encounter for closed fracture	Closed fracture of shaft of femur
S72365A	82101	Nondisplaced segmental fracture of shaft of left femur, initial encounter for closed fracture	Closed fracture of shaft of femur
S72366A	82101	Nondisplaced segmental fracture of shaft of unspecified femur, initial encounter for closed fracture	Closed fracture of shaft of femur
S72391A	82101	Other fracture of shaft of right femur, initial encounter for closed fracture	Closed fracture of shaft of femur
S72392A	82101	Other fracture of shaft of left femur, initial encounter for closed fracture	Closed fracture of shaft of femur
S72399A	82101	Other fracture of shaft of unspecified femur, initial encounter for closed fracture	Closed fracture of shaft of femur
S728X1B	82110	Other fracture of right femur, initial encounter for open fracture type I or II	Open fracture of unspecified part of femur
S728X1C	82110	Other fracture of right femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Open fracture of unspecified part of femur
S728X2B	82110	Other fracture of left femur, initial encounter for open fracture type I or II	Open fracture of unspecified part of femur
S728X2C	82110	Other fracture of left femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Open fracture of unspecified part of femur

Appendix A

Frailty markers

[illegible]

Appendix A

Frailty markers

[illegible]

Appendix A

Frailty markers

S72362B	82111	Displaced segmental fracture of shaft of left femur, initial encounter for open fracture type I or II	Open fracture of shaft of femur
S72362C	82111	Displaced segmental fracture of shaft of left femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Open fracture of shaft of femur
S72363B	82111	Displaced segmental fracture of shaft of unspecified femur, initial encounter for open fracture type I or II	Open fracture of shaft of femur
S72363C	82111	Displaced segmental fracture of shaft of unspecified femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Open fracture of shaft of femur
S72364B	82111	Nondisplaced segmental fracture of shaft of right femur, initial encounter for open fracture type I or II	Open fracture of shaft of femur
S72364C	82111	Nondisplaced segmental fracture of shaft of right femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Open fracture of shaft of femur
S72365B	82111	Nondisplaced segmental fracture of shaft of left femur, initial encounter for open fracture type I or II	Open fracture of shaft of femur
S72365C	82111	Nondisplaced segmental fracture of shaft of left femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Open fracture of shaft of femur
S72366B	82111	Nondisplaced segmental fracture of shaft of unspecified femur, initial encounter for open fracture type I or II	Open fracture of shaft of femur
S72366C	82111	Nondisplaced segmental fracture of shaft of unspecified femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Open fracture of shaft of femur
S72391B	82111	Other fracture of shaft of right femur, initial encounter for open fracture type I or II	Open fracture of shaft of femur
S72391C	82111	Other fracture of shaft of right femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Open fracture of shaft of femur
S72392B	82111	Other fracture of shaft of left femur, initial encounter for open fracture type I or II	Open fracture of shaft of femur
S72392C	82111	Other fracture of shaft of left femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Open fracture of shaft of femur
S72399B	82111	Other fracture of shaft of unspecified femur, initial encounter for open fracture type I or II	Open fracture of shaft of femur
S72399C	82111	Other fracture of shaft of unspecified femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Open fracture of shaft of femur
S72401A	82120	Unspecified fracture of lower end of right femur, initial encounter for closed fracture	Closed fracture of lower end of femur, unspecified part
S72402A	82120	Unspecified fracture of lower end of left femur, initial encounter for closed fracture	Closed fracture of lower end of femur, unspecified part
S72411A	82121	Displaced unspecified condyle fracture of lower end of right femur, initial encounter for closed fracture	Closed fracture of condyle, femoral
S72412A	82121	Displaced unspecified condyle fracture of lower end of left femur, initial encounter for closed fracture	Closed fracture of condyle, femoral
S72414A	82121	Nondisplaced unspecified condyle fracture of lower end of right femur, initial encounter for closed fracture	Closed fracture of condyle, femoral
S72415A	82121	Nondisplaced unspecified condyle fracture of lower end of left femur, initial encounter for closed fracture	Closed fracture of condyle, femoral
S72421A	82121	Displaced fracture of lateral condyle of right femur, initial encounter for closed fracture	Closed fracture of condyle, femoral
S72422A	82121	Displaced fracture of lateral condyle of left femur, initial encounter for closed fracture	Closed fracture of condyle, femoral
S72423A	82121	Displaced fracture of lateral condyle of unspecified femur, initial encounter for closed fracture	Closed fracture of condyle, femoral
S72424A	82121	Nondisplaced fracture of lateral condyle of right femur, initial encounter for closed fracture	Closed fracture of condyle, femoral
S72425A	82121	Nondisplaced fracture of lateral condyle of left femur, initial encounter for closed fracture	Closed fracture of condyle, femoral
S72426A	82121	Nondisplaced fracture of lateral condyle of unspecified femur, initial encounter for closed fracture	Closed fracture of condyle, femoral
S72431A	82121	Displaced fracture of medial condyle of right femur, initial encounter for closed fracture	Closed fracture of condyle, femoral
S72432A	82121	Displaced fracture of medial condyle of left femur, initial encounter for closed fracture	Closed fracture of condyle, femoral

Appendix A

Frailty markers

[illegible]

Appendix A

Frailty markers

S72455A	82123	Nondisplaced supracondylar fracture without intracondylar extension of lower end of left femur, initial encounter for closed fracture	Closed supracondylar fracture of femur
S72461A	82123	Displaced supracondylar fracture with intracondylar extension of lower end of right femur, initial encounter for closed fracture	Closed supracondylar fracture of femur
S72462A	82123	Displaced supracondylar fracture with intracondylar extension of lower end of left femur, initial encounter for closed fracture	Closed supracondylar fracture of femur
S72463A	82123	Displaced supracondylar fracture with intracondylar extension of lower end of unspecified femur, initial encounter for closed fracture	Closed supracondylar fracture of femur
S72464A	82123	Nondisplaced supracondylar fracture with intracondylar extension of lower end of right femur, initial encounter for closed fracture	Closed supracondylar fracture of femur
S72465A	82123	Nondisplaced supracondylar fracture with intracondylar extension of lower end of left femur, initial encounter for closed fracture	Closed supracondylar fracture of femur
S72466A	82123	Nondisplaced supracondylar fracture with intracondylar extension of lower end of unspecified femur, initial encounter for closed fracture	Closed supracondylar fracture of femur
S72471A	82129	Torus fracture of lower end of right femur, initial encounter for closed fracture	Other closed fracture of lower end of femur
S72472A	82129	Torus fracture of lower end of left femur, initial encounter for closed fracture	Other closed fracture of lower end of femur
S72479A	82129	Torus fracture of lower end of unspecified femur, initial encounter for closed fracture	Other closed fracture of lower end of femur
S72491A	82129	Other fracture of lower end of right femur, initial encounter for closed fracture	Other closed fracture of lower end of femur
S72492A	82129	Other fracture of lower end of left femur, initial encounter for closed fracture	Other closed fracture of lower end of femur
S72401B	82130	Unspecified fracture of lower end of right femur, initial encounter for open fracture type I or II	Open fracture of lower end of femur, unspecified part
S72401C	82130	Unspecified fracture of lower end of right femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Open fracture of lower end of femur, unspecified part
S72402B	82130	Unspecified fracture of lower end of left femur, initial encounter for open fracture type I or II	Open fracture of lower end of femur, unspecified part
S72402C	82130	Unspecified fracture of lower end of left femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Open fracture of lower end of femur, unspecified part
S72411B	82131	Displaced unspecified condyle fracture of lower end of right femur, initial encounter for open fracture type I or II	Open fracture of condyle, femoral
S72411C	82131	Displaced unspecified condyle fracture of lower end of right femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Open fracture of condyle, femoral
S72412B	82131	Displaced unspecified condyle fracture of lower end of left femur, initial encounter for open fracture type I or II	Open fracture of condyle, femoral
S72412C	82131	Displaced unspecified condyle fracture of lower end of left femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Open fracture of condyle, femoral
S72414B	82131	Nondisplaced unspecified condyle fracture of lower end of right femur, initial encounter for open fracture type I or II	Open fracture of condyle, femoral
S72414C	82131	Nondisplaced unspecified condyle fracture of lower end of right femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Open fracture of condyle, femoral
S72415B	82131	Nondisplaced unspecified condyle fracture of lower end of left femur, initial encounter for open fracture type I or II	Open fracture of condyle, femoral
S72415C	82131	Nondisplaced unspecified condyle fracture of lower end of left femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Open fracture of condyle, femoral
S72421B	82131	Displaced fracture of lateral condyle of right femur, initial encounter for open fracture type I or II	Open fracture of condyle, femoral

Appendix A

Frailty markers

S72421C	82131	Displaced fracture of lateral condyle of right femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Open fracture of condyle, femoral
S72422B	82131	Displaced fracture of lateral condyle of left femur, initial encounter for open fracture type I or II	Open fracture of condyle, femoral
S72422C	82131	Displaced fracture of lateral condyle of left femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Open fracture of condyle, femoral
S72423B	82131	Displaced fracture of lateral condyle of unspecified femur, initial encounter for open fracture type I or II	Open fracture of condyle, femoral
S72423C	82131	Displaced fracture of lateral condyle of unspecified femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Open fracture of condyle, femoral
S72424B	82131	Nondisplaced fracture of lateral condyle of right femur, initial encounter for open fracture type I or II	Open fracture of condyle, femoral
S72424C	82131	Nondisplaced fracture of lateral condyle of right femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Open fracture of condyle, femoral
S72425B	82131	Nondisplaced fracture of lateral condyle of left femur, initial encounter for open fracture type I or II	Open fracture of condyle, femoral
S72425C	82131	Nondisplaced fracture of lateral condyle of left femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Open fracture of condyle, femoral
S72426B	82131	Nondisplaced fracture of lateral condyle of unspecified femur, initial encounter for open fracture type I or II	Open fracture of condyle, femoral
S72426C	82131	Nondisplaced fracture of lateral condyle of unspecified femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Open fracture of condyle, femoral
S72431B	82131	Displaced fracture of medial condyle of right femur, initial encounter for open fracture type I or II	Open fracture of condyle, femoral
S72431C	82131	Displaced fracture of medial condyle of right femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Open fracture of condyle, femoral
S72432B	82131	Displaced fracture of medial condyle of left femur, initial encounter for open fracture type I or II	Open fracture of condyle, femoral
S72432C	82131	Displaced fracture of medial condyle of left femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Open fracture of condyle, femoral
S72433B	82131	Displaced fracture of medial condyle of unspecified femur, initial encounter for open fracture type I or II	Open fracture of condyle, femoral
S72433C	82131	Displaced fracture of medial condyle of unspecified femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Open fracture of condyle, femoral
S72434B	82131	Nondisplaced fracture of medial condyle of right femur, initial encounter for open fracture type I or II	Open fracture of condyle, femoral
S72434C	82131	Nondisplaced fracture of medial condyle of right femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Open fracture of condyle, femoral
S72435B	82131	Nondisplaced fracture of medial condyle of left femur, initial encounter for open fracture type I or II	Open fracture of condyle, femoral
S72435C	82131	Nondisplaced fracture of medial condyle of left femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Open fracture of condyle, femoral
S72436B	82131	Nondisplaced fracture of medial condyle of unspecified femur, initial encounter for open fracture type I or II	Open fracture of condyle, femoral
S72436C	82131	Nondisplaced fracture of medial condyle of unspecified femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Open fracture of condyle, femoral
S72441B	82132	Displaced fracture of lower epiphysis (separation) of right femur, initial encounter for open fracture type I or II	Open fracture of epiphysis. Lower (separation) of femur
S72441C	82132	Displaced fracture of lower epiphysis (separation) of right femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Open fracture of epiphysis. Lower (separation) of femur
S72442B	82132	Displaced fracture of lower epiphysis (separation) of left femur, initial encounter for open fracture type I or II	Open fracture of epiphysis. Lower (separation) of femur
S72442C	82132	Displaced fracture of lower epiphysis (separation) of left femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Open fracture of epiphysis. Lower (separation) of femur
S72444B	82132	Nondisplaced fracture of lower epiphysis (separation) of right femur, initial encounter for open fracture type I or II	Open fracture of epiphysis. Lower (separation) of femur

Appendix A

Frailty markers

S72444C	82132	Nondisplaced fracture of lower epiphysis (separation) of right femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Open fracture of epiphysis. Lower (separation) of femur
S72445B	82132	Nondisplaced fracture of lower epiphysis (separation) of left femur, initial encounter for open fracture type I or II	Open fracture of epiphysis. Lower (separation) of femur
S72445C	82132	Nondisplaced fracture of lower epiphysis (separation) of left femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Open fracture of epiphysis. Lower (separation) of femur
S72451B	82133	Displaced supracondylar fracture without intracondylar extension of lower end of right femur, initial encounter for open fracture type I or II	Open supracondylar fracture of femur
S72451C	82133	Displaced supracondylar fracture without intracondylar extension of lower end of right femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Open supracondylar fracture of femur
S72452B	82133	Displaced supracondylar fracture without intracondylar extension of lower end of left femur, initial encounter for open fracture type I or II	Open supracondylar fracture of femur
S72452C	82133	Displaced supracondylar fracture without intracondylar extension of lower end of left femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Open supracondylar fracture of femur
S72454B	82133	Nondisplaced supracondylar fracture without intracondylar extension of lower end of right femur, initial encounter for open fracture type I or II	Open supracondylar fracture of femur
S72454C	82133	Nondisplaced supracondylar fracture without intracondylar extension of lower end of right femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Open supracondylar fracture of femur
S72455B	82133	Nondisplaced supracondylar fracture without intracondylar extension of lower end of left femur, initial encounter for open fracture type I or II	Open supracondylar fracture of femur
S72455C	82133	Nondisplaced supracondylar fracture without intracondylar extension of lower end of left femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Open supracondylar fracture of femur
S72461B	82133	Displaced supracondylar fracture with intracondylar extension of lower end of right femur, initial encounter for open fracture type I or II	Open supracondylar fracture of femur
S72461C	82133	Displaced supracondylar fracture with intracondylar extension of lower end of right femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Open supracondylar fracture of femur
S72462B	82133	Displaced supracondylar fracture with intracondylar extension of lower end of left femur, initial encounter for open fracture type I or II	Open supracondylar fracture of femur
S72462C	82133	Displaced supracondylar fracture with intracondylar extension of lower end of left femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Open supracondylar fracture of femur
S72463B	82133	Displaced supracondylar fracture with intracondylar extension of lower end of unspecified femur, initial encounter for open fracture type I or II	Open supracondylar fracture of femur
S72463C	82133	Displaced supracondylar fracture with intracondylar extension of lower end of unspecified femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Open supracondylar fracture of femur
S72464B	82133	Nondisplaced supracondylar fracture with intracondylar extension of lower end of right femur, initial encounter for open fracture type I or II	Open supracondylar fracture of femur
S72464C	82133	Nondisplaced supracondylar fracture with intracondylar extension of lower end of right femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Open supracondylar fracture of femur
S72465B	82133	Nondisplaced supracondylar fracture with intracondylar extension of lower end of left femur, initial encounter for open fracture type I or II	Open supracondylar fracture of femur
S72465C	82133	Nondisplaced supracondylar fracture with intracondylar extension of lower end of left femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Open supracondylar fracture of femur

Appendix A

Frailty markers

S72466B	82133	Nondisplaced supracondylar fracture with intracondylar extension of lower end of unspecified femur, initial encounter for open fracture type I or II	Open supracondylar fracture of femur
S72466C	82133	Nondisplaced supracondylar fracture with intracondylar extension of lower end of unspecified femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Open supracondylar fracture of femur
S72491B	82139	Other fracture of lower end of right femur, initial encounter for open fracture type I or II	Other open fracture of lower end of femur
S72491C	82139	Other fracture of lower end of right femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Other open fracture of lower end of femur
S72492B	82139	Other fracture of lower end of left femur, initial encounter for open fracture type I or II	Other open fracture of lower end of femur
S72492C	82139	Other fracture of lower end of left femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Other open fracture of lower end of femur
S82001A	8220	Unspecified fracture of right patella, initial encounter for closed fracture	Closed fracture of patella
S82002A	8220	Unspecified fracture of left patella, initial encounter for closed fracture	Closed fracture of patella
S82011A	8220	Displaced osteochondral fracture of right patella, initial encounter for closed fracture	Closed fracture of patella
S82012A	8220	Displaced osteochondral fracture of left patella, initial encounter for closed fracture	Closed fracture of patella
S82013A	8220	Displaced osteochondral fracture of unspecified patella, initial encounter for closed fracture	Closed fracture of patella
S82014A	8220	Nondisplaced osteochondral fracture of right patella, initial encounter for closed fracture	Closed fracture of patella
S82015A	8220	Nondisplaced osteochondral fracture of left patella, initial encounter for closed fracture	Closed fracture of patella
S82016A	8220	Nondisplaced osteochondral fracture of unspecified patella, initial encounter for closed fracture	Closed fracture of patella
S82021A	8220	Displaced longitudinal fracture of right patella, initial encounter for closed fracture	Closed fracture of patella
S82022A	8220	Displaced longitudinal fracture of left patella, initial encounter for closed fracture	Closed fracture of patella
S82023A	8220	Displaced longitudinal fracture of unspecified patella, initial encounter for closed fracture	Closed fracture of patella
S82024A	8220	Nondisplaced longitudinal fracture of right patella, initial encounter for closed fracture	Closed fracture of patella
S82025A	8220	Nondisplaced longitudinal fracture of left patella, initial encounter for closed fracture	Closed fracture of patella
S82026A	8220	Nondisplaced longitudinal fracture of unspecified patella, initial encounter for closed fracture	Closed fracture of patella
S82031A	8220	Displaced transverse fracture of right patella, initial encounter for closed fracture	Closed fracture of patella
S82032A	8220	Displaced transverse fracture of left patella, initial encounter for closed fracture	Closed fracture of patella
S82033A	8220	Displaced transverse fracture of unspecified patella, initial encounter for closed fracture	Closed fracture of patella
S82034A	8220	Nondisplaced transverse fracture of right patella, initial encounter for closed fracture	Closed fracture of patella
S82035A	8220	Nondisplaced transverse fracture of left patella, initial encounter for closed fracture	Closed fracture of patella
S82036A	8220	Nondisplaced transverse fracture of unspecified patella, initial encounter for closed fracture	Closed fracture of patella
S82041A	8220	Displaced comminuted fracture of right patella, initial encounter for closed fracture	Closed fracture of patella
S82042A	8220	Displaced comminuted fracture of left patella, initial encounter for closed fracture	Closed fracture of patella
S82043A	8220	Displaced comminuted fracture of unspecified patella, initial encounter for closed fracture	Closed fracture of patella
S82044A	8220	Nondisplaced comminuted fracture of right patella, initial encounter for closed fracture	Closed fracture of patella

Appendix A

Frailty markers

S82045A	8220	Nondisplaced comminuted fracture of left patella, initial encounter for closed fracture	Closed fracture of patella
S82046A	8220	Nondisplaced comminuted fracture of unspecified patella, initial encounter for closed fracture	Closed fracture of patella
S82091A	8220	Other fracture of right patella, initial encounter for closed fracture	Closed fracture of patella
S82092A	8220	Other fracture of left patella, initial encounter for closed fracture	Closed fracture of patella
S82099A	8220	Other fracture of unspecified patella, initial encounter for closed fracture	Closed fracture of patella
S82001B	8221	Unspecified fracture of right patella, initial encounter for open fracture type I or II	Open fracture of patella
S82001C	8221	Unspecified fracture of right patella, initial encounter for open fracture type IIIA, IIIB, or IIIC	Open fracture of patella
S82002B	8221	Unspecified fracture of left patella, initial encounter for open fracture type I or II	Open fracture of patella
S82002C	8221	Unspecified fracture of left patella, initial encounter for open fracture type IIIA, IIIB, or IIIC	Open fracture of patella
S82011B	8221	Displaced osteochondral fracture of right patella, initial encounter for open fracture type I or II	Open fracture of patella
S82011C	8221	Displaced osteochondral fracture of right patella, initial encounter for open fracture type IIIA, IIIB, or IIIC	Open fracture of patella
S82012B	8221	Displaced osteochondral fracture of left patella, initial encounter for open fracture type I or II	Open fracture of patella
S82012C	8221	Displaced osteochondral fracture of left patella, initial encounter for open fracture type IIIA, IIIB, or IIIC	Open fracture of patella
S82013B	8221	Displaced osteochondral fracture of unspecified patella, initial encounter for open fracture type I or II	Open fracture of patella
S82013C	8221	Displaced osteochondral fracture of unspecified patella, initial encounter for open fracture type IIIA, IIIB, or IIIC	Open fracture of patella
S82014B	8221	Nondisplaced osteochondral fracture of right patella, initial encounter for open fracture type I or II	Open fracture of patella
S82014C	8221	Nondisplaced osteochondral fracture of right patella, initial encounter for open fracture type IIIA, IIIB, or IIIC	Open fracture of patella
S82015B	8221	Nondisplaced osteochondral fracture of left patella, initial encounter for open fracture type I or II	Open fracture of patella
S82015C	8221	Nondisplaced osteochondral fracture of left patella, initial encounter for open fracture type IIIA, IIIB, or IIIC	Open fracture of patella
S82016B	8221	Nondisplaced osteochondral fracture of unspecified patella, initial encounter for open fracture type I or II	Open fracture of patella
S82016C	8221	Nondisplaced osteochondral fracture of unspecified patella, initial encounter for open fracture type IIIA, IIIB, or IIIC	Open fracture of patella
S82021B	8221	Displaced longitudinal fracture of right patella, initial encounter for open fracture type I or II	Open fracture of patella
S82021C	8221	Displaced longitudinal fracture of right patella, initial encounter for open fracture type IIIA, IIIB, or IIIC	Open fracture of patella
S82022B	8221	Displaced longitudinal fracture of left patella, initial encounter for open fracture type I or II	Open fracture of patella
S82022C	8221	Displaced longitudinal fracture of left patella, initial encounter for open fracture type IIIA, IIIB, or IIIC	Open fracture of patella
S82023B	8221	Displaced longitudinal fracture of unspecified patella, initial encounter for open fracture type I or II	Open fracture of patella
S82023C	8221	Displaced longitudinal fracture of unspecified patella, initial encounter for open fracture type IIIA, IIIB, or IIIC	Open fracture of patella
S82024B	8221	Nondisplaced longitudinal fracture of right patella, initial encounter for open fracture type I or II	Open fracture of patella
S82024C	8221	Nondisplaced longitudinal fracture of right patella, initial encounter for open fracture type IIIA, IIIB, or IIIC	Open fracture of patella
S82025B	8221	Nondisplaced longitudinal fracture of left patella, initial encounter for open fracture type I or II	Open fracture of patella
S82025C	8221	Nondisplaced longitudinal fracture of left patella, initial encounter for open fracture type IIIA, IIIB, or IIIC	Open fracture of patella

Appendix A

Frailty markers

S82026B	8221	Nondisplaced longitudinal fracture of unspecified patella, initial encounter for open fracture type I or II	Open fracture of patella
S82026C	8221	Nondisplaced longitudinal fracture of unspecified patella, initial encounter for open fracture type IIIA, IIIB, or IIIC	Open fracture of patella
S82031B	8221	Displaced transverse fracture of right patella, initial encounter for open fracture type I or II	Open fracture of patella
S82031C	8221	Displaced transverse fracture of right patella, initial encounter for open fracture type IIIA, IIIB, or IIIC	Open fracture of patella
S82032B	8221	Displaced transverse fracture of left patella, initial encounter for open fracture type I or II	Open fracture of patella
S82032C	8221	Displaced transverse fracture of left patella, initial encounter for open fracture type IIIA, IIIB, or IIIC	Open fracture of patella
S82033B	8221	Displaced transverse fracture of unspecified patella, initial encounter for open fracture type I or II	Open fracture of patella
S82033C	8221	Displaced transverse fracture of unspecified patella, initial encounter for open fracture type IIIA, IIIB, or IIIC	Open fracture of patella
S82034B	8221	Nondisplaced transverse fracture of right patella, initial encounter for open fracture type I or II	Open fracture of patella
S82034C	8221	Nondisplaced transverse fracture of right patella, initial encounter for open fracture type IIIA, IIIB, or IIIC	Open fracture of patella
S82035B	8221	Nondisplaced transverse fracture of left patella, initial encounter for open fracture type I or II	Open fracture of patella
S82035C	8221	Nondisplaced transverse fracture of left patella, initial encounter for open fracture type IIIA, IIIB, or IIIC	Open fracture of patella
S82036B	8221	Nondisplaced transverse fracture of unspecified patella, initial encounter for open fracture type I or II	Open fracture of patella
S82036C	8221	Nondisplaced transverse fracture of unspecified patella, initial encounter for open fracture type IIIA, IIIB, or IIIC	Open fracture of patella
S82041B	8221	Displaced comminuted fracture of right patella, initial encounter for open fracture type I or II	Open fracture of patella
S82041C	8221	Displaced comminuted fracture of right patella, initial encounter for open fracture type IIIA, IIIB, or IIIC	Open fracture of patella
S82042B	8221	Displaced comminuted fracture of left patella, initial encounter for open fracture type I or II	Open fracture of patella
S82042C	8221	Displaced comminuted fracture of left patella, initial encounter for open fracture type IIIA, IIIB, or IIIC	Open fracture of patella
S82043B	8221	Displaced comminuted fracture of unspecified patella, initial encounter for open fracture type I or II	Open fracture of patella
S82043C	8221	Displaced comminuted fracture of unspecified patella, initial encounter for open fracture type IIIA, IIIB, or IIIC	Open fracture of patella
S82044B	8221	Nondisplaced comminuted fracture of right patella, initial encounter for open fracture type I or II	Open fracture of patella
S82044C	8221	Nondisplaced comminuted fracture of right patella, initial encounter for open fracture type IIIA, IIIB, or IIIC	Open fracture of patella
S82045B	8221	Nondisplaced comminuted fracture of left patella, initial encounter for open fracture type I or II	Open fracture of patella
S82045C	8221	Nondisplaced comminuted fracture of left patella, initial encounter for open fracture type IIIA, IIIB, or IIIC	Open fracture of patella
S82046B	8221	Nondisplaced comminuted fracture of unspecified patella, initial encounter for open fracture type I or II	Open fracture of patella
S82046C	8221	Nondisplaced comminuted fracture of unspecified patella, initial encounter for open fracture type IIIA, IIIB, or IIIC	Open fracture of patella
S82091B	8221	Other fracture of right patella, initial encounter for open fracture type I or II	Open fracture of patella
S82091C	8221	Other fracture of right patella, initial encounter for open fracture type IIIA, IIIB, or IIIC	Open fracture of patella
S82092B	8221	Other fracture of left patella, initial encounter for open fracture type I or II	Open fracture of patella
S82092C	8221	Other fracture of left patella, initial encounter for open fracture type IIIA, IIIB, or IIIC	Open fracture of patella
S82099B	8221	Other fracture of unspecified patella, initial encounter for open fracture type I or II	Open fracture of patella

Appendix A

Frailty markers

S82099C	8221	Other fracture of unspecified patella, initial encounter for open fracture type IIIA, IIIB, or IIIC	Open fracture of patella
S82101A	82300	Unspecified fracture of upper end of right tibia, initial encounter for closed fracture	Closed fracture of upper end of tibia alone
S82102A	82300	Unspecified fracture of upper end of left tibia, initial encounter for closed fracture	Closed fracture of upper end of tibia alone
S82111A	82300	Displaced fracture of right tibial spine, initial encounter for closed fracture	Closed fracture of upper end of tibia alone
S82112A	82300	Displaced fracture of left tibial spine, initial encounter for closed fracture	Closed fracture of upper end of tibia alone
S82113A	82300	Displaced fracture of unspecified tibial spine, initial encounter for closed fracture	Closed fracture of upper end of tibia alone
S82114A	82300	Nondisplaced fracture of right tibial spine, initial encounter for closed fracture	Closed fracture of upper end of tibia alone
S82115A	82300	Nondisplaced fracture of left tibial spine, initial encounter for closed fracture	Closed fracture of upper end of tibia alone
S82116A	82300	Nondisplaced fracture of unspecified tibial spine, initial encounter for closed fracture	Closed fracture of upper end of tibia alone
S82121A	82300	Displaced fracture of lateral condyle of right tibia, initial encounter for closed fracture	Closed fracture of upper end of tibia alone
S82122A	82300	Displaced fracture of lateral condyle of left tibia, initial encounter for closed fracture	Closed fracture of upper end of tibia alone
S82123A	82300	Displaced fracture of lateral condyle of unspecified tibia, initial encounter for closed fracture	Closed fracture of upper end of tibia alone
S82124A	82300	Nondisplaced fracture of lateral condyle of right tibia, initial encounter for closed fracture	Closed fracture of upper end of tibia alone
S82125A	82300	Nondisplaced fracture of lateral condyle of left tibia, initial encounter for closed fracture	Closed fracture of upper end of tibia alone
S82126A	82300	Nondisplaced fracture of lateral condyle of unspecified tibia, initial encounter for closed fracture	Closed fracture of upper end of tibia alone
S82131A	82300	Displaced fracture of medial condyle of right tibia, initial encounter for closed fracture	Closed fracture of upper end of tibia alone
S82132A	82300	Displaced fracture of medial condyle of left tibia, initial encounter for closed fracture	Closed fracture of upper end of tibia alone
S82133A	82300	Displaced fracture of medial condyle of unspecified tibia, initial encounter for closed fracture	Closed fracture of upper end of tibia alone
S82134A	82300	Nondisplaced fracture of medial condyle of right tibia, initial encounter for closed fracture	Closed fracture of upper end of tibia alone
S82135A	82300	Nondisplaced fracture of medial condyle of left tibia, initial encounter for closed fracture	Closed fracture of upper end of tibia alone
S82136A	82300	Nondisplaced fracture of medial condyle of unspecified tibia, initial encounter for closed fracture	Closed fracture of upper end of tibia alone
S82141A	82300	Displaced bicondylar fracture of right tibia, initial encounter for closed fracture	Closed fracture of upper end of tibia alone
S82142A	82300	Displaced bicondylar fracture of left tibia, initial encounter for closed fracture	Closed fracture of upper end of tibia alone
S82143A	82300	Displaced bicondylar fracture of unspecified tibia, initial encounter for closed fracture	Closed fracture of upper end of tibia alone
S82144A	82300	Nondisplaced bicondylar fracture of right tibia, initial encounter for closed fracture	Closed fracture of upper end of tibia alone
S82145A	82300	Nondisplaced bicondylar fracture of left tibia, initial encounter for closed fracture	Closed fracture of upper end of tibia alone
S82146A	82300	Nondisplaced bicondylar fracture of unspecified tibia, initial encounter for closed fracture	Closed fracture of upper end of tibia alone
S82151A	82300	Displaced fracture of right tibial tuberosity, initial encounter for closed fracture	Closed fracture of upper end of tibia alone
S82152A	82300	Displaced fracture of left tibial tuberosity, initial encounter for closed fracture	Closed fracture of upper end of tibia alone
S82153A	82300	Displaced fracture of unspecified tibial tuberosity, initial encounter for closed fracture	Closed fracture of upper end of tibia alone
S82154A	82300	Nondisplaced fracture of right tibial tuberosity, initial encounter for closed fracture	Closed fracture of upper end of tibia alone

Appendix A

Frailty markers

[illegible]

Appendix A

Frailty markers

S89221A	82301	Salter-Harris Type II physeal fracture of upper end of right fibula, initial encounter for closed fracture	Closed fracture of upper end of fibula alone
S89222A	82301	Salter-Harris Type II physeal fracture of upper end of left fibula, initial encounter for closed fracture	Closed fracture of upper end of fibula alone
S89229A	82301	Salter-Harris Type II physeal fracture of upper end of unspecified fibula, initial encounter for closed fracture	Closed fracture of upper end of fibula alone
S89291A	82301	Other physeal fracture of upper end of right fibula, initial encounter for closed fracture	Closed fracture of upper end of fibula alone
S89292A	82301	Other physeal fracture of upper end of left fibula, initial encounter for closed fracture	Closed fracture of upper end of fibula alone
S89299A	82301	Other physeal fracture of upper end of unspecified fibula, initial encounter for closed fracture	Closed fracture of upper end of fibula alone
S82101A	82302	Unspecified fracture of upper end of right tibia, initial encounter for closed fracture	Closed fracture of upper end of fibula with tibia
S82102A	82302	Unspecified fracture of upper end of left tibia, initial encounter for closed fracture	Closed fracture of upper end of fibula with tibia
S82831A	82302	Other fracture of upper and lower end of right fibula, initial encounter for closed fracture	Closed fracture of upper end of fibula with tibia
S82832A	82302	Other fracture of upper and lower end of left fibula, initial encounter for closed fracture	Closed fracture of upper end of fibula with tibia
S82101B	82310	Unspecified fracture of upper end of right tibia, initial encounter for open fracture type I or II	Open fracture of upper end of tibia alone
S82101C	82310	Unspecified fracture of upper end of right tibia, initial encounter for open fracture type IIIA, IIIB, or IIIC	Open fracture of upper end of tibia alone
S82102B	82310	Unspecified fracture of upper end of left tibia, initial encounter for open fracture type I or II	Open fracture of upper end of tibia alone
S82102C	82310	Unspecified fracture of upper end of left tibia, initial encounter for open fracture type IIIA, IIIB, or IIIC	Open fracture of upper end of tibia alone
S82111B	82310	Displaced fracture of right tibial spine, initial encounter for open fracture type I or II	Open fracture of upper end of tibia alone
S82111C	82310	Displaced fracture of right tibial spine, initial encounter for open fracture type IIIA, IIIB, or IIIC	Open fracture of upper end of tibia alone
S82112B	82310	Displaced fracture of left tibial spine, initial encounter for open fracture type I or II	Open fracture of upper end of tibia alone
S82112C	82310	Displaced fracture of left tibial spine, initial encounter for open fracture type IIIA, IIIB, or IIIC	Open fracture of upper end of tibia alone
S82113B	82310	Displaced fracture of unspecified tibial spine, initial encounter for open fracture type I or II	Open fracture of upper end of tibia alone
S82113C	82310	Displaced fracture of unspecified tibial spine, initial encounter for open fracture type IIIA, IIIB, or IIIC	Open fracture of upper end of tibia alone
S82114B	82310	Nondisplaced fracture of right tibial spine, initial encounter for open fracture type I or II	Open fracture of upper end of tibia alone
S82114C	82310	Nondisplaced fracture of right tibial spine, initial encounter for open fracture type IIIA, IIIB, or IIIC	Open fracture of upper end of tibia alone
S82115B	82310	Nondisplaced fracture of left tibial spine, initial encounter for open fracture type I or II	Open fracture of upper end of tibia alone
S82115C	82310	Nondisplaced fracture of left tibial spine, initial encounter for open fracture type IIIA, IIIB, or IIIC	Open fracture of upper end of tibia alone
S82116B	82310	Nondisplaced fracture of unspecified tibial spine, initial encounter for open fracture type I or II	Open fracture of upper end of tibia alone
S82116C	82310	Nondisplaced fracture of unspecified tibial spine, initial encounter for open fracture type IIIA, IIIB, or IIIC	Open fracture of upper end of tibia alone
S82121B	82310	Displaced fracture of lateral condyle of right tibia, initial encounter for open fracture type I or II	Open fracture of upper end of tibia alone
S82121C	82310	Displaced fracture of lateral condyle of right tibia, initial encounter for open fracture type IIIA, IIIB, or IIIC	Open fracture of upper end of tibia alone
S82122B	82310	Displaced fracture of lateral condyle of left tibia, initial encounter for open fracture type I or II	Open fracture of upper end of tibia alone
S82122C	82310	Displaced fracture of lateral condyle of left tibia, initial encounter for open fracture type IIIA, IIIB, or IIIC	Open fracture of upper end of tibia alone
S82123B	82310	Displaced fracture of lateral condyle of unspecified tibia, initial encounter for open fracture type I or II	Open fracture of upper end of tibia alone

Appendix A

Frailty markers

[illegible]

Appendix A

Frailty markers

S82146C	82310	Nondisplaced bicondylar fracture of unspecified tibia, initial encounter for open fracture type IIIA, IIIB, or IIIC	Open fracture of upper end of tibia alone
S82151B	82310	Displaced fracture of right tibial tuberosity, initial encounter for open fracture type I or II	Open fracture of upper end of tibia alone
S82151C	82310	Displaced fracture of right tibial tuberosity, initial encounter for open fracture type IIIA, IIIB, or IIIC	Open fracture of upper end of tibia alone
S82152B	82310	Displaced fracture of left tibial tuberosity, initial encounter for open fracture type I or II	Open fracture of upper end of tibia alone
S82152C	82310	Displaced fracture of left tibial tuberosity, initial encounter for open fracture type IIIA, IIIB, or IIIC	Open fracture of upper end of tibia alone
S82153B	82310	Displaced fracture of unspecified tibial tuberosity, initial encounter for open fracture type I or II	Open fracture of upper end of tibia alone
S82153C	82310	Displaced fracture of unspecified tibial tuberosity, initial encounter for open fracture type IIIA, IIIB, or IIIC	Open fracture of upper end of tibia alone
S82154B	82310	Nondisplaced fracture of right tibial tuberosity, initial encounter for open fracture type I or II	Open fracture of upper end of tibia alone
S82154C	82310	Nondisplaced fracture of right tibial tuberosity, initial encounter for open fracture type IIIA, IIIB, or IIIC	Open fracture of upper end of tibia alone
S82155B	82310	Nondisplaced fracture of left tibial tuberosity, initial encounter for open fracture type I or II	Open fracture of upper end of tibia alone
S82155C	82310	Nondisplaced fracture of left tibial tuberosity, initial encounter for open fracture type IIIA, IIIB, or IIIC	Open fracture of upper end of tibia alone
S82156B	82310	Nondisplaced fracture of unspecified tibial tuberosity, initial encounter for open fracture type I or II	Open fracture of upper end of tibia alone
S82156C	82310	Nondisplaced fracture of unspecified tibial tuberosity, initial encounter for open fracture type IIIA, IIIB, or IIIC	Open fracture of upper end of tibia alone
S82191B	82310	Other fracture of upper end of right tibia, initial encounter for open fracture type I or II	Open fracture of upper end of tibia alone
S82191C	82310	Other fracture of upper end of right tibia, initial encounter for open fracture type IIIA, IIIB, or IIIC	Open fracture of upper end of tibia alone
S82192B	82310	Other fracture of upper end of left tibia, initial encounter for open fracture type I or II	Open fracture of upper end of tibia alone
S82192C	82310	Other fracture of upper end of left tibia, initial encounter for open fracture type IIIA, IIIB, or IIIC	Open fracture of upper end of tibia alone
S82199B	82310	Other fracture of upper end of unspecified tibia, initial encounter for open fracture type I or II	Open fracture of upper end of tibia alone
S82199C	82310	Other fracture of upper end of unspecified tibia, initial encounter for open fracture type IIIA, IIIB, or IIIC	Open fracture of upper end of tibia alone
S82831B	82311	Other fracture of upper and lower end of right fibula, initial encounter for open fracture type I or II	Open fracture of upper end of fibula alone
S82831C	82311	Other fracture of upper and lower end of right fibula, initial encounter for open fracture type IIIA, IIIB, or IIIC	Open fracture of upper end of fibula alone
S82832B	82311	Other fracture of upper and lower end of left fibula, initial encounter for open fracture type I or II	Open fracture of upper end of fibula alone
S82832C	82311	Other fracture of upper and lower end of left fibula, initial encounter for open fracture type IIIA, IIIB, or IIIC	Open fracture of upper end of fibula alone
S82101B	82312	Unspecified fracture of upper end of right tibia, initial encounter for open fracture type I or II	Open fracture of upper end of fibula with tibia
S82102B	82312	Unspecified fracture of upper end of left tibia, initial encounter for open fracture type I or II	Open fracture of upper end of fibula with tibia
S82831B	82312	Other fracture of upper and lower end of right fibula, initial encounter for open fracture type I or II	Open fracture of upper end of fibula with tibia
S82832B	82312	Other fracture of upper and lower end of left fibula, initial encounter for open fracture type I or II	Open fracture of upper end of fibula with tibia
S82201A	82320	Unspecified fracture of shaft of right tibia, initial encounter for closed fracture	Closed fracture of shaft of tibia alone
S82202A	82320	Unspecified fracture of shaft of left tibia, initial encounter for closed fracture	Closed fracture of shaft of tibia alone
S82221A	82320	Displaced transverse fracture of shaft of right tibia, initial encounter for closed fracture	Closed fracture of shaft of tibia alone
S82222A	82320	Displaced transverse fracture of shaft of left tibia, initial encounter for closed fracture	Closed fracture of shaft of tibia alone

Appendix A

Frailty markers

[illegible]

Appendix A

Frailty markers

[illegible]

Appendix A

Frailty markers

S82466A	82321	Nondisplaced segmental fracture of shaft of unspecified fibula, initial encounter for closed fracture	Closed fracture of shaft of fibula alone
S82491A	82321	Other fracture of shaft of right fibula, initial encounter for closed fracture	Closed fracture of shaft of fibula alone
S82492A	82321	Other fracture of shaft of left fibula, initial encounter for closed fracture	Closed fracture of shaft of fibula alone
S82499A	82321	Other fracture of shaft of unspecified fibula, initial encounter for closed fracture	Closed fracture of shaft of fibula alone
S82861A	82321	Displaced Maisonneuve's fracture of right leg, initial encounter for closed fracture	Closed fracture of shaft of fibula alone
S82862A	82321	Displaced Maisonneuve's fracture of left leg, initial encounter for closed fracture	Closed fracture of shaft of fibula alone
S82863A	82321	Displaced Maisonneuve's fracture of unspecified leg, initial encounter for closed fracture	Closed fracture of shaft of fibula alone
S82864A	82321	Nondisplaced Maisonneuve's fracture of right leg, initial encounter for closed fracture	Closed fracture of shaft of fibula alone
S82865A	82321	Nondisplaced Maisonneuve's fracture of left leg, initial encounter for closed fracture	Closed fracture of shaft of fibula alone
S82866A	82321	Nondisplaced Maisonneuve's fracture of unspecified leg, initial encounter for closed fracture	Closed fracture of shaft of fibula alone
S82201A	82322	Unspecified fracture of shaft of right tibia, initial encounter for closed fracture	Closed fracture of shaft of fibula with tibia
S82202A	82322	Unspecified fracture of shaft of left tibia, initial encounter for closed fracture	Closed fracture of shaft of fibula with tibia
S82401A	82322	Unspecified fracture of shaft of right fibula, initial encounter for closed fracture	Closed fracture of shaft of fibula with tibia
S82402A	82322	Unspecified fracture of shaft of left fibula, initial encounter for closed fracture	Closed fracture of shaft of fibula with tibia
S82201B	82330	Unspecified fracture of shaft of right tibia, initial encounter for open fracture type I or II	Open fracture of shaft of tibia alone
S82201C	82330	Unspecified fracture of shaft of right tibia, initial encounter for open fracture type IIIA, IIIB, or IIIC	Open fracture of shaft of tibia alone
S82202B	82330	Unspecified fracture of shaft of left tibia, initial encounter for open fracture type I or II	Open fracture of shaft of tibia alone
S82202C	82330	Unspecified fracture of shaft of left tibia, initial encounter for open fracture type IIIA, IIIB, or IIIC	Open fracture of shaft of tibia alone
S82221B	82330	Displaced transverse fracture of shaft of right tibia, initial encounter for open fracture type I or II	Open fracture of shaft of tibia alone
S82221C	82330	Displaced transverse fracture of shaft of right tibia, initial encounter for open fracture type IIIA, IIIB, or IIIC	Open fracture of shaft of tibia alone
S82222B	82330	Displaced transverse fracture of shaft of left tibia, initial encounter for open fracture type I or II	Open fracture of shaft of tibia alone
S82222C	82330	Displaced transverse fracture of shaft of left tibia, initial encounter for open fracture type IIIA, IIIB, or IIIC	Open fracture of shaft of tibia alone
S82223B	82330	Displaced transverse fracture of shaft of unspecified tibia, initial encounter for open fracture type I or II	Open fracture of shaft of tibia alone
S82223C	82330	Displaced transverse fracture of shaft of unspecified tibia, initial encounter for open fracture type IIIA, IIIB, or IIIC	Open fracture of shaft of tibia alone
S82224B	82330	Nondisplaced transverse fracture of shaft of right tibia, initial encounter for open fracture type I or II	Open fracture of shaft of tibia alone
S82224C	82330	Nondisplaced transverse fracture of shaft of right tibia, initial encounter for open fracture type IIIA, IIIB, or IIIC	Open fracture of shaft of tibia alone
S82225B	82330	Nondisplaced transverse fracture of shaft of left tibia, initial encounter for open fracture type I or II	Open fracture of shaft of tibia alone
S82225C	82330	Nondisplaced transverse fracture of shaft of left tibia, initial encounter for open fracture type IIIA, IIIB, or IIIC	Open fracture of shaft of tibia alone
S82226B	82330	Nondisplaced transverse fracture of shaft of unspecified tibia, initial encounter for open fracture type I or II	Open fracture of shaft of tibia alone
S82226C	82330	Nondisplaced transverse fracture of shaft of unspecified tibia, initial encounter for open fracture type IIIA, IIIB, or IIIC	Open fracture of shaft of tibia alone

Appendix A

Frailty markers

[illegible]

Appendix A

Frailty markers

[illegible]

Appendix A

Frailty markers

[illegible]

Appendix A

Frailty markers

[illegible]

Appendix A

Frailty markers

S82492B	82331	Other fracture of shaft of left fibula, initial encounter for open fracture type I or II	Open fracture of shaft of fibula alone
S82492C	82331	Other fracture of shaft of left fibula, initial encounter for open fracture type IIIA, IIB, or IIC	Open fracture of shaft of fibula alone
S82499B	82331	Other fracture of shaft of unspecified fibula, initial encounter for open fracture type I or II	Open fracture of shaft of fibula alone
S82499C	82331	Other fracture of shaft of unspecified fibula, initial encounter for open fracture type IIIA, IIB, or IIC	Open fracture of shaft of fibula alone
S82861B	82331	Displaced Maisonneuve's fracture of right leg, initial encounter for open fracture type I or II	Open fracture of shaft of fibula alone
S82861C	82331	Displaced Maisonneuve's fracture of right leg, initial encounter for open fracture type IIIA, IIB, or IIC	Open fracture of shaft of fibula alone
S82862B	82331	Displaced Maisonneuve's fracture of left leg, initial encounter for open fracture type I or II	Open fracture of shaft of fibula alone
S82862C	82331	Displaced Maisonneuve's fracture of left leg, initial encounter for open fracture type IIIA, IIB, or IIC	Open fracture of shaft of fibula alone
S82863B	82331	Displaced Maisonneuve's fracture of unspecified leg, initial encounter for open fracture type I or II	Open fracture of shaft of fibula alone
S82863C	82331	Displaced Maisonneuve's fracture of unspecified leg, initial encounter for open fracture type IIIA, IIB, or IIC	Open fracture of shaft of fibula alone
S82864B	82331	Nondisplaced Maisonneuve's fracture of right leg, initial encounter for open fracture type I or II	Open fracture of shaft of fibula alone
S82864C	82331	Nondisplaced Maisonneuve's fracture of right leg, initial encounter for open fracture type IIIA, IIB, or IIC	Open fracture of shaft of fibula alone
S82865B	82331	Nondisplaced Maisonneuve's fracture of left leg, initial encounter for open fracture type I or II	Open fracture of shaft of fibula alone
S82865C	82331	Nondisplaced Maisonneuve's fracture of left leg, initial encounter for open fracture type IIIA, IIB, or IIC	Open fracture of shaft of fibula alone
S82866B	82331	Nondisplaced Maisonneuve's fracture of unspecified leg, initial encounter for open fracture type I or II	Open fracture of shaft of fibula alone
S82866C	82331	Nondisplaced Maisonneuve's fracture of unspecified leg, initial encounter for open fracture type IIIA, IIB, or IIC	Open fracture of shaft of fibula alone
S82201B	82332	Unspecified fracture of shaft of right tibia, initial encounter for open fracture type I or II	Open fracture of shaft of fibula with tibia
S82202B	82332	Unspecified fracture of shaft of left tibia, initial encounter for open fracture type I or II	Open fracture of shaft of fibula with tibia
S82401B	82332	Unspecified fracture of shaft of right fibula, initial encounter for open fracture type I or II	Open fracture of shaft of fibula with tibia
S82402B	82332	Unspecified fracture of shaft of left fibula, initial encounter for open fracture type I or II	Open fracture of shaft of fibula with tibia
S82161A	82340	Torus fracture of upper end of right tibia, initial encounter for closed fracture	Torus fracture, tibia alone
S82162A	82340	Torus fracture of upper end of left tibia, initial encounter for closed fracture	Torus fracture, tibia alone
S82311A	82340	Torus fracture of lower end of right tibia, initial encounter for closed fracture	Torus fracture, tibia alone
S82312A	82340	Torus fracture of lower end of left tibia, initial encounter for closed fracture	Torus fracture, tibia alone
S82811A	82341	Torus fracture of upper end of right fibula, initial encounter for closed fracture	Torus fracture, fibula alone
S82812A	82341	Torus fracture of upper end of left fibula, initial encounter for closed fracture	Torus fracture, fibula alone
S82821A	82341	Torus fracture of lower end of right fibula, initial encounter for closed fracture	Torus fracture, fibula alone
S82822A	82341	Torus fracture of lower end of left fibula, initial encounter for closed fracture	Torus fracture, fibula alone
S82161A	82342	Torus fracture of upper end of right tibia, initial encounter for closed fracture	Torus fracture, fibula with tibia
S82162A	82342	Torus fracture of upper end of left tibia, initial encounter for closed fracture	Torus fracture, fibula with tibia
S82311A	82342	Torus fracture of lower end of right tibia, initial encounter for closed fracture	Torus fracture, fibula with tibia

Appendix A

Frailty markers

S82312A	82342	Torus fracture of lower end of left tibia, initial encounter for closed fracture	Torus fracture, fibula with tibia
S82811A	82342	Torus fracture of upper end of right fibula, initial encounter for closed fracture	Torus fracture, fibula with tibia
S82812A	82342	Torus fracture of upper end of left fibula, initial encounter for closed fracture	Torus fracture, fibula with tibia
S82821A	82342	Torus fracture of lower end of right fibula, initial encounter for closed fracture	Torus fracture, fibula with tibia
S82822A	82342	Torus fracture of lower end of left fibula, initial encounter for closed fracture	Torus fracture, fibula with tibia
S82202A	82380	Unspecified fracture of shaft of left tibia, initial encounter for closed fracture	Closed fracture of unspecified part of tibia alone
S82209A	82380	Unspecified fracture of shaft of unspecified tibia, initial encounter for closed fracture	Closed fracture of unspecified part of tibia alone
S82402A	82381	Unspecified fracture of shaft of left fibula, initial encounter for closed fracture	Closed fracture of unspecified part of fibula alone
S82409A	82381	Unspecified fracture of shaft of unspecified fibula, initial encounter for closed fracture	Closed fracture of unspecified part of fibula alone
S82201A	82382	Unspecified fracture of shaft of right tibia, initial encounter for closed fracture	Closed fracture of unspecified part of fibula with tibia
S82202A	82382	Unspecified fracture of shaft of left tibia, initial encounter for closed fracture	Closed fracture of unspecified part of fibula with tibia
S82401A	82382	Unspecified fracture of shaft of right fibula, initial encounter for closed fracture	Closed fracture of unspecified part of fibula with tibia
S82402A	82382	Unspecified fracture of shaft of left fibula, initial encounter for closed fracture	Closed fracture of unspecified part of fibula with tibia
S82202B	82390	Unspecified fracture of shaft of left tibia, initial encounter for open fracture type I or II	Open fracture of unspecified part of tibia alone
S82202C	82390	Unspecified fracture of shaft of left tibia, initial encounter for open fracture type IIIA, IIIB, or IIIC	Open fracture of unspecified part of tibia alone
S82209B	82390	Unspecified fracture of shaft of unspecified tibia, initial encounter for open fracture type I or II	Open fracture of unspecified part of tibia alone
S82209C	82390	Unspecified fracture of shaft of unspecified tibia, initial encounter for open fracture type IIIA, IIIB, or IIIC	Open fracture of unspecified part of tibia alone
S82402B	82391	Unspecified fracture of shaft of left fibula, initial encounter for open fracture type I or II	Open fracture of unspecified part of fibula alone
S82402C	82391	Unspecified fracture of shaft of left fibula, initial encounter for open fracture type IIIA, IIIB, or IIIC	Open fracture of unspecified part of fibula alone
S82409B	82391	Unspecified fracture of shaft of unspecified fibula, initial encounter for open fracture type I or II	Open fracture of unspecified part of fibula alone
S82409C	82391	Unspecified fracture of shaft of unspecified fibula, initial encounter for open fracture type IIIA, IIIB, or IIIC	Open fracture of unspecified part of fibula alone
S82201B	82392	Unspecified fracture of shaft of right tibia, initial encounter for open fracture type I or II	Open fracture of unspecified part of fibula with tibia
S82202B	82392	Unspecified fracture of shaft of left tibia, initial encounter for open fracture type I or II	Open fracture of unspecified part of fibula with tibia
S82401B	82392	Unspecified fracture of shaft of right fibula, initial encounter for open fracture type I or II	Open fracture of unspecified part of fibula with tibia
S82402B	82392	Unspecified fracture of shaft of left fibula, initial encounter for open fracture type I or II	Open fracture of unspecified part of fibula with tibia
S8251XA	8240	Displaced fracture of medial malleolus of right tibia, initial encounter for closed fracture	Fracture of medial malleolus, closed
S8252XA	8240	Displaced fracture of medial malleolus of left tibia, initial encounter for closed fracture	Fracture of medial malleolus, closed
S8254XA	8240	Nondisplaced fracture of medial malleolus of right tibia, initial encounter for closed fracture	Fracture of medial malleolus, closed
S8255XA	8240	Nondisplaced fracture of medial malleolus of left tibia, initial encounter for closed fracture	Fracture of medial malleolus, closed
S82871A	8240	Displaced pilon fracture of right tibia, initial encounter for closed fracture	Fracture of medial malleolus, closed
S82872A	8240	Displaced pilon fracture of left tibia, initial encounter for closed fracture	Fracture of medial malleolus, closed

Appendix A
Frailty markers

S82873A	8240	Displaced pilon fracture of unspecified tibia, initial encounter for closed fracture	Fracture of medial malleolus, closed
S82874A	8240	Nondisplaced pilon fracture of right tibia, initial encounter for closed fracture	Fracture of medial malleolus, closed
S82875A	8240	Nondisplaced pilon fracture of left tibia, initial encounter for closed fracture	Fracture of medial malleolus, closed
S82876A	8240	Nondisplaced pilon fracture of unspecified tibia, initial encounter for closed fracture	Fracture of medial malleolus, closed
S8251XB	8241	Displaced fracture of medial malleolus of right tibia, initial encounter for open fracture type I or II	Fracture of medial malleolus, open
S8251XC	8241	Displaced fracture of medial malleolus of right tibia, initial encounter for open fracture type IIIA, IIIB, or IIIC	Fracture of medial malleolus, open
S8252XB	8241	Displaced fracture of medial malleolus of left tibia, initial encounter for open fracture type I or II	Fracture of medial malleolus, open
S8252XC	8241	Displaced fracture of medial malleolus of left tibia, initial encounter for open fracture type IIIA, IIIB, or IIIC	Fracture of medial malleolus, open
S8254XB	8241	Nondisplaced fracture of medial malleolus of right tibia, initial encounter for open fracture type I or II	Fracture of medial malleolus, open
S8254XC	8241	Nondisplaced fracture of medial malleolus of right tibia, initial encounter for open fracture type IIIA, IIIB, or IIIC	Fracture of medial malleolus, open
S8255XB	8241	Nondisplaced fracture of medial malleolus of left tibia, initial encounter for open fracture type I or II	Fracture of medial malleolus, open
S8255XC	8241	Nondisplaced fracture of medial malleolus of left tibia, initial encounter for open fracture type IIIA, IIIB, or IIIC	Fracture of medial malleolus, open
S82871B	8241	Displaced pilon fracture of right tibia, initial encounter for open fracture type I or II	Fracture of medial malleolus, open
S82871C	8241	Displaced pilon fracture of right tibia, initial encounter for open fracture type IIIA, IIIB, or IIIC	Fracture of medial malleolus, open
S82872B	8241	Displaced pilon fracture of left tibia, initial encounter for open fracture type I or II	Fracture of medial malleolus, open
S82872C	8241	Displaced pilon fracture of left tibia, initial encounter for open fracture type IIIA, IIIB, or IIIC	Fracture of medial malleolus, open
S82873B	8241	Displaced pilon fracture of unspecified tibia, initial encounter for open fracture type I or II	Fracture of medial malleolus, open
S82873C	8241	Displaced pilon fracture of unspecified tibia, initial encounter for open fracture type IIIA, IIIB, or IIIC	Fracture of medial malleolus, open
S82874B	8241	Nondisplaced pilon fracture of right tibia, initial encounter for open fracture type I or II	Fracture of medial malleolus, open
S82874C	8241	Nondisplaced pilon fracture of right tibia, initial encounter for open fracture type IIIA, IIIB, or IIIC	Fracture of medial malleolus, open
S82875B	8241	Nondisplaced pilon fracture of left tibia, initial encounter for open fracture type I or II	Fracture of medial malleolus, open
S82875C	8241	Nondisplaced pilon fracture of left tibia, initial encounter for open fracture type IIIA, IIIB, or IIIC	Fracture of medial malleolus, open
S82876B	8241	Nondisplaced pilon fracture of unspecified tibia, initial encounter for open fracture type I or II	Fracture of medial malleolus, open
S82876C	8241	Nondisplaced pilon fracture of unspecified tibia, initial encounter for open fracture type IIIA, IIIB, or IIIC	Fracture of medial malleolus, open
S8261XA	8242	Displaced fracture of lateral malleolus of right fibula, initial encounter for closed fracture	Fracture of lateral malleolus, closed
S8262XA	8242	Displaced fracture of lateral malleolus of left fibula, initial encounter for closed fracture	Fracture of lateral malleolus, closed
S8264XA	8242	Nondisplaced fracture of lateral malleolus of right fibula, initial encounter for closed fracture	Fracture of lateral malleolus, closed
S8265XA	8242	Nondisplaced fracture of lateral malleolus of left fibula, initial encounter for closed fracture	Fracture of lateral malleolus, closed
S8261XB	8243	Displaced fracture of lateral malleolus of right fibula, initial encounter for open fracture type I or II	Fracture of lateral malleolus, open
S8261XC	8243	Displaced fracture of lateral malleolus of right fibula, initial encounter for open fracture type IIIA, IIIB, or IIIC	Fracture of lateral malleolus, open
S8262XB	8243	Displaced fracture of lateral malleolus of left fibula, initial encounter for open fracture type I or II	Fracture of lateral malleolus, open

Appendix A

Frailty markers

S8262XC	8243	Displaced fracture of lateral malleolus of left fibula, initial encounter for open fracture type IIIA, IIIB, or IIIC	Fracture of lateral malleolus, open
S8264XB	8243	Nondisplaced fracture of lateral malleolus of right fibula, initial encounter for open fracture type I or II	Fracture of lateral malleolus, open
S8264XC	8243	Nondisplaced fracture of lateral malleolus of right fibula, initial encounter for open fracture type IIIA, IIIB, or IIIC	Fracture of lateral malleolus, open
S8265XB	8243	Nondisplaced fracture of lateral malleolus of left fibula, initial encounter for open fracture type I or II	Fracture of lateral malleolus, open
S8265XC	8243	Nondisplaced fracture of lateral malleolus of left fibula, initial encounter for open fracture type IIIA, IIIB, or IIIC	Fracture of lateral malleolus, open
S82841A	8244	Displaced bimalleolar fracture of right lower leg, initial encounter for closed fracture	Bimalleolar fracture, closed
S82842A	8244	Displaced bimalleolar fracture of left lower leg, initial encounter for closed fracture	Bimalleolar fracture, closed
S82844A	8244	Nondisplaced bimalleolar fracture of right lower leg, initial encounter for closed fracture	Bimalleolar fracture, closed
S82845A	8244	Nondisplaced bimalleolar fracture of left lower leg, initial encounter for closed fracture	Bimalleolar fracture, closed
S82841B	8245	Displaced bimalleolar fracture of right lower leg, initial encounter for open fracture type I or II	Bimalleolar fracture, open
S82841C	8245	Displaced bimalleolar fracture of right lower leg, initial encounter for open fracture type IIIA, IIIB, or IIIC	Bimalleolar fracture, open
S82842B	8245	Displaced bimalleolar fracture of left lower leg, initial encounter for open fracture type I or II	Bimalleolar fracture, open
S82842C	8245	Displaced bimalleolar fracture of left lower leg, initial encounter for open fracture type IIIA, IIIB, or IIIC	Bimalleolar fracture, open
S82844B	8245	Nondisplaced bimalleolar fracture of right lower leg, initial encounter for open fracture type I or II	Bimalleolar fracture, open
S82844C	8245	Nondisplaced bimalleolar fracture of right lower leg, initial encounter for open fracture type IIIA, IIIB, or IIIC	Bimalleolar fracture, open
S82845B	8245	Nondisplaced bimalleolar fracture of left lower leg, initial encounter for open fracture type I or II	Bimalleolar fracture, open
S82845C	8245	Nondisplaced bimalleolar fracture of left lower leg, initial encounter for open fracture type IIIA, IIIB, or IIIC	Bimalleolar fracture, open
S82851A	8246	Displaced trimalleolar fracture of right lower leg, initial encounter for closed fracture	Trimalleolar fracture, closed
S82852A	8246	Displaced trimalleolar fracture of left lower leg, initial encounter for closed fracture	Trimalleolar fracture, closed
S82854A	8246	Nondisplaced trimalleolar fracture of right lower leg, initial encounter for closed fracture	Trimalleolar fracture, closed
S82855A	8246	Nondisplaced trimalleolar fracture of left lower leg, initial encounter for closed fracture	Trimalleolar fracture, closed
S82851B	8247	Displaced trimalleolar fracture of right lower leg, initial encounter for open fracture type I or II	Trimalleolar fracture, open
S82851C	8247	Displaced trimalleolar fracture of right lower leg, initial encounter for open fracture type IIIA, IIIB, or IIIC	Trimalleolar fracture, open
S82852B	8247	Displaced trimalleolar fracture of left lower leg, initial encounter for open fracture type I or II	Trimalleolar fracture, open
S82852C	8247	Displaced trimalleolar fracture of left lower leg, initial encounter for open fracture type IIIA, IIIB, or IIIC	Trimalleolar fracture, open
S82854B	8247	Nondisplaced trimalleolar fracture of right lower leg, initial encounter for open fracture type I or II	Trimalleolar fracture, open
S82854C	8247	Nondisplaced trimalleolar fracture of right lower leg, initial encounter for open fracture type IIIA, IIIB, or IIIC	Trimalleolar fracture, open
S82855B	8247	Nondisplaced trimalleolar fracture of left lower leg, initial encounter for open fracture type I or II	Trimalleolar fracture, open
S82855C	8247	Nondisplaced trimalleolar fracture of left lower leg, initial encounter for open fracture type IIIA, IIIB, or IIIC	Trimalleolar fracture, open
S82301A	8248	Unspecified fracture of lower end of right tibia, initial encounter for closed fracture	Unspecified fracture of ankle, closed
S82302A	8248	Unspecified fracture of lower end of left tibia, initial encounter for closed fracture	Unspecified fracture of ankle, closed

Appendix A

Frailty markers

[illegible]

Appendix A

Frailty markers

S89322A	8248	Salter-Harris Type II physeal fracture of lower end of left fibula, initial encounter for closed fracture	Unspecified fracture of ankle, closed
S89329A	8248	Salter-Harris Type II physeal fracture of lower end of unspecified fibula, initial encounter for closed fracture	Unspecified fracture of ankle, closed
S89391A	8248	Other physeal fracture of lower end of right fibula, initial encounter for closed fracture	Unspecified fracture of ankle, closed
S89392A	8248	Other physeal fracture of lower end of left fibula, initial encounter for closed fracture	Unspecified fracture of ankle, closed
S89399A	8248	Other physeal fracture of lower end of unspecified fibula, initial encounter for closed fracture	Unspecified fracture of ankle, closed
S82301B	8249	Unspecified fracture of lower end of right tibia, initial encounter for open fracture type I or II	Unspecified fracture of ankle, open
S82301C	8249	Unspecified fracture of lower end of right tibia, initial encounter for open fracture type IIIA, IIIB, or IIIC	Unspecified fracture of ankle, open
S82302B	8249	Unspecified fracture of lower end of left tibia, initial encounter for open fracture type I or II	Unspecified fracture of ankle, open
S82302C	8249	Unspecified fracture of lower end of left tibia, initial encounter for open fracture type IIIA, IIIB, or IIIC	Unspecified fracture of ankle, open
S82309B	8249	Unspecified fracture of lower end of unspecified tibia, initial encounter for open fracture type I or II	Unspecified fracture of ankle, open
S82309C	8249	Unspecified fracture of lower end of unspecified tibia, initial encounter for open fracture type IIIA, IIIB, or IIIC	Unspecified fracture of ankle, open
S82391B	8249	Other fracture of lower end of right tibia, initial encounter for open fracture type I or II	Unspecified fracture of ankle, open
S82391C	8249	Other fracture of lower end of right tibia, initial encounter for open fracture type IIIA, IIIB, or IIIC	Unspecified fracture of ankle, open
S82392B	8249	Other fracture of lower end of left tibia, initial encounter for open fracture type I or II	Unspecified fracture of ankle, open
S82392C	8249	Other fracture of lower end of left tibia, initial encounter for open fracture type IIIA, IIIB, or IIIC	Unspecified fracture of ankle, open
S82399B	8249	Other fracture of lower end of unspecified tibia, initial encounter for open fracture type I or II	Unspecified fracture of ankle, open
S82399C	8249	Other fracture of lower end of unspecified tibia, initial encounter for open fracture type IIIA, IIIB, or IIIC	Unspecified fracture of ankle, open
S82891B	8249	Other fracture of right lower leg, initial encounter for open fracture type I or II	Unspecified fracture of ankle, open
S82891C	8249	Other fracture of right lower leg, initial encounter for open fracture type IIIA, IIIB, or IIIC	Unspecified fracture of ankle, open
S82892B	8249	Other fracture of left lower leg, initial encounter for open fracture type I or II	Unspecified fracture of ankle, open
S82892C	8249	Other fracture of left lower leg, initial encounter for open fracture type IIIA, IIIB, or IIIC	Unspecified fracture of ankle, open
S92001A	8250	Unspecified fracture of right calcaneus, initial encounter for closed fracture	Fracture of calcaneus, closed
S92002A	8250	Unspecified fracture of left calcaneus, initial encounter for closed fracture	Fracture of calcaneus, closed
S92011A	8250	Displaced fracture of body of right calcaneus, initial encounter for closed fracture	Fracture of calcaneus, closed
S92012A	8250	Displaced fracture of body of left calcaneus, initial encounter for closed fracture	Fracture of calcaneus, closed
S92013A	8250	Displaced fracture of body of unspecified calcaneus, initial encounter for closed fracture	Fracture of calcaneus, closed
S92014A	8250	Nondisplaced fracture of body of right calcaneus, initial encounter for closed fracture	Fracture of calcaneus, closed
S92015A	8250	Nondisplaced fracture of body of left calcaneus, initial encounter for closed fracture	Fracture of calcaneus, closed
S92016A	8250	Nondisplaced fracture of body of unspecified calcaneus, initial encounter for closed fracture	Fracture of calcaneus, closed
S92021A	8250	Displaced fracture of anterior process of right calcaneus, initial encounter for closed fracture	Fracture of calcaneus, closed
S92022A	8250	Displaced fracture of anterior process of left calcaneus, initial encounter for closed fracture	Fracture of calcaneus, closed

Appendix A

Frailty markers

S92023A	8250	Displaced fracture of anterior process of unspecified calcaneus, initial encounter for closed fracture	Fracture of calcaneus, closed
S92024A	8250	Nondisplaced fracture of anterior process of right calcaneus, initial encounter for closed fracture	Fracture of calcaneus, closed
S92025A	8250	Nondisplaced fracture of anterior process of left calcaneus, initial encounter for closed fracture	Fracture of calcaneus, closed
S92026A	8250	Nondisplaced fracture of anterior process of unspecified calcaneus, initial encounter for closed fracture	Fracture of calcaneus, closed
S92031A	8250	Displaced avulsion fracture of tuberosity of right calcaneus, initial encounter for closed fracture	Fracture of calcaneus, closed
S92032A	8250	Displaced avulsion fracture of tuberosity of left calcaneus, initial encounter for closed fracture	Fracture of calcaneus, closed
S92033A	8250	Displaced avulsion fracture of tuberosity of unspecified calcaneus, initial encounter for closed fracture	Fracture of calcaneus, closed
S92034A	8250	Nondisplaced avulsion fracture of tuberosity of right calcaneus, initial encounter for closed fracture	Fracture of calcaneus, closed
S92035A	8250	Nondisplaced avulsion fracture of tuberosity of left calcaneus, initial encounter for closed fracture	Fracture of calcaneus, closed
S92036A	8250	Nondisplaced avulsion fracture of tuberosity of unspecified calcaneus, initial encounter for closed fracture	Fracture of calcaneus, closed
S92041A	8250	Displaced other fracture of tuberosity of right calcaneus, initial encounter for closed fracture	Fracture of calcaneus, closed
S92042A	8250	Displaced other fracture of tuberosity of left calcaneus, initial encounter for closed fracture	Fracture of calcaneus, closed
S92043A	8250	Displaced other fracture of tuberosity of unspecified calcaneus, initial encounter for closed fracture	Fracture of calcaneus, closed
S92044A	8250	Nondisplaced other fracture of tuberosity of right calcaneus, initial encounter for closed fracture	Fracture of calcaneus, closed
S92045A	8250	Nondisplaced other fracture of tuberosity of left calcaneus, initial encounter for closed fracture	Fracture of calcaneus, closed
S92046A	8250	Nondisplaced other fracture of tuberosity of unspecified calcaneus, initial encounter for closed fracture	Fracture of calcaneus, closed
S92051A	8250	Displaced other extraarticular fracture of right calcaneus, initial encounter for closed fracture	Fracture of calcaneus, closed
S92052A	8250	Displaced other extraarticular fracture of left calcaneus, initial encounter for closed fracture	Fracture of calcaneus, closed
S92053A	8250	Displaced other extraarticular fracture of unspecified calcaneus, initial encounter for closed fracture	Fracture of calcaneus, closed
S92054A	8250	Nondisplaced other extraarticular fracture of right calcaneus, initial encounter for closed fracture	Fracture of calcaneus, closed
S92055A	8250	Nondisplaced other extraarticular fracture of left calcaneus, initial encounter for closed fracture	Fracture of calcaneus, closed
S92056A	8250	Nondisplaced other extraarticular fracture of unspecified calcaneus, initial encounter for closed fracture	Fracture of calcaneus, closed
S92061A	8250	Displaced intraarticular fracture of right calcaneus, initial encounter for closed fracture	Fracture of calcaneus, closed
S92062A	8250	Displaced intraarticular fracture of left calcaneus, initial encounter for closed fracture	Fracture of calcaneus, closed
S92063A	8250	Displaced intraarticular fracture of unspecified calcaneus, initial encounter for closed fracture	Fracture of calcaneus, closed
S92064A	8250	Nondisplaced intraarticular fracture of right calcaneus, initial encounter for closed fracture	Fracture of calcaneus, closed
S92065A	8250	Nondisplaced intraarticular fracture of left calcaneus, initial encounter for closed fracture	Fracture of calcaneus, closed
S92066A	8250	Nondisplaced intraarticular fracture of unspecified calcaneus, initial encounter for closed fracture	Fracture of calcaneus, closed
S99001A	8250	Unspecified physeal fracture of right calcaneus, initial encounter for closed fracture	Fracture of calcaneus, closed
S99002A	8250	Unspecified physeal fracture of left calcaneus, initial encounter for closed fracture	Fracture of calcaneus, closed
S99011A	8250	Salter-Harris Type I physeal fracture of right calcaneus, initial encounter for closed fracture	Fracture of calcaneus, closed

Appendix A

Frailty markers

S99012A	8250	Salter-Harris Type I physeal fracture of left calcaneus, initial encounter for closed fracture	Fracture of calcaneus, closed
S99021A	8250	Salter-Harris Type II physeal fracture of right calcaneus, initial encounter for closed fracture	Fracture of calcaneus, closed
S99022A	8250	Salter-Harris Type II physeal fracture of left calcaneus, initial encounter for closed fracture	Fracture of calcaneus, closed
S99031A	8250	Salter-Harris Type III physeal fracture of right calcaneus, initial encounter for closed fracture	Fracture of calcaneus, closed
S99032A	8250	Salter-Harris Type III physeal fracture of left calcaneus, initial encounter for closed fracture	Fracture of calcaneus, closed
S99041A	8250	Salter-Harris Type IV physeal fracture of right calcaneus, initial encounter for closed fracture	Fracture of calcaneus, closed
S99042A	8250	Salter-Harris Type IV physeal fracture of left calcaneus, initial encounter for closed fracture	Fracture of calcaneus, closed
S99091A	8250	Other physeal fracture of right calcaneus, initial encounter for closed fracture	Fracture of calcaneus, closed
S99092A	8250	Other physeal fracture of left calcaneus, initial encounter for closed fracture	Fracture of calcaneus, closed
S92001B	8251	Unspecified fracture of right calcaneus, initial encounter for open fracture	Fracture of calcaneus, open
S92002B	8251	Unspecified fracture of left calcaneus, initial encounter for open fracture	Fracture of calcaneus, open
S92011B	8251	Displaced fracture of body of right calcaneus, initial encounter for open fracture	Fracture of calcaneus, open
S92012B	8251	Displaced fracture of body of left calcaneus, initial encounter for open fracture	Fracture of calcaneus, open
S92013B	8251	Displaced fracture of body of unspecified calcaneus, initial encounter for open fracture	Fracture of calcaneus, open
S92014B	8251	Nondisplaced fracture of body of right calcaneus, initial encounter for open fracture	Fracture of calcaneus, open
S92015B	8251	Nondisplaced fracture of body of left calcaneus, initial encounter for open fracture	Fracture of calcaneus, open
S92016B	8251	Nondisplaced fracture of body of unspecified calcaneus, initial encounter for open fracture	Fracture of calcaneus, open
S92021B	8251	Displaced fracture of anterior process of right calcaneus, initial encounter for open fracture	Fracture of calcaneus, open
S92022B	8251	Displaced fracture of anterior process of left calcaneus, initial encounter for open fracture	Fracture of calcaneus, open
S92023B	8251	Displaced fracture of anterior process of unspecified calcaneus, initial encounter for open fracture	Fracture of calcaneus, open
S92024B	8251	Nondisplaced fracture of anterior process of right calcaneus, initial encounter for open fracture	Fracture of calcaneus, open
S92025B	8251	Nondisplaced fracture of anterior process of left calcaneus, initial encounter for open fracture	Fracture of calcaneus, open
S92026B	8251	Nondisplaced fracture of anterior process of unspecified calcaneus, initial encounter for open fracture	Fracture of calcaneus, open
S92031B	8251	Displaced avulsion fracture of tuberosity of right calcaneus, initial encounter for open fracture	Fracture of calcaneus, open
S92032B	8251	Displaced avulsion fracture of tuberosity of left calcaneus, initial encounter for open fracture	Fracture of calcaneus, open
S92033B	8251	Displaced avulsion fracture of tuberosity of unspecified calcaneus, initial encounter for open fracture	Fracture of calcaneus, open
S92034B	8251	Nondisplaced avulsion fracture of tuberosity of right calcaneus, initial encounter for open fracture	Fracture of calcaneus, open
S92035B	8251	Nondisplaced avulsion fracture of tuberosity of left calcaneus, initial encounter for open fracture	Fracture of calcaneus, open
S92036B	8251	Nondisplaced avulsion fracture of tuberosity of unspecified calcaneus, initial encounter for open fracture	Fracture of calcaneus, open
S92041B	8251	Displaced other fracture of tuberosity of right calcaneus, initial encounter for open fracture	Fracture of calcaneus, open
S92042B	8251	Displaced other fracture of tuberosity of left calcaneus, initial encounter for open fracture	Fracture of calcaneus, open

Appendix A

Frailty markers

S92043B	8251	Displaced other fracture of tuberosity of unspecified calcaneus, initial encounter for open fracture	Fracture of calcaneus, open
S92044B	8251	Nondisplaced other fracture of tuberosity of right calcaneus, initial encounter for open fracture	Fracture of calcaneus, open
S92045B	8251	Nondisplaced other fracture of tuberosity of left calcaneus, initial encounter for open fracture	Fracture of calcaneus, open
S92046B	8251	Nondisplaced other fracture of tuberosity of unspecified calcaneus, initial encounter for open fracture	Fracture of calcaneus, open
S92051B	8251	Displaced other extraarticular fracture of right calcaneus, initial encounter for open fracture	Fracture of calcaneus, open
S92052B	8251	Displaced other extraarticular fracture of left calcaneus, initial encounter for open fracture	Fracture of calcaneus, open
S92053B	8251	Displaced other extraarticular fracture of unspecified calcaneus, initial encounter for open fracture	Fracture of calcaneus, open
S92054B	8251	Nondisplaced other extraarticular fracture of right calcaneus, initial encounter for open fracture	Fracture of calcaneus, open
S92055B	8251	Nondisplaced other extraarticular fracture of left calcaneus, initial encounter for open fracture	Fracture of calcaneus, open
S92056B	8251	Nondisplaced other extraarticular fracture of unspecified calcaneus, initial encounter for open fracture	Fracture of calcaneus, open
S92061B	8251	Displaced intraarticular fracture of right calcaneus, initial encounter for open fracture	Fracture of calcaneus, open
S92062B	8251	Displaced intraarticular fracture of left calcaneus, initial encounter for open fracture	Fracture of calcaneus, open
S92063B	8251	Displaced intraarticular fracture of unspecified calcaneus, initial encounter for open fracture	Fracture of calcaneus, open
S92064B	8251	Nondisplaced intraarticular fracture of right calcaneus, initial encounter for open fracture	Fracture of calcaneus, open
S92065B	8251	Nondisplaced intraarticular fracture of left calcaneus, initial encounter for open fracture	Fracture of calcaneus, open
S92066B	8251	Nondisplaced intraarticular fracture of unspecified calcaneus, initial encounter for open fracture	Fracture of calcaneus, open
S99001B	8251	Unspecified physeal fracture of right calcaneus, initial encounter for open fracture	Fracture of calcaneus, open
S99002B	8251	Unspecified physeal fracture of left calcaneus, initial encounter for open fracture	Fracture of calcaneus, open
S99011B	8251	Salter-Harris Type I physeal fracture of right calcaneus, initial encounter for open fracture	Fracture of calcaneus, open
S99012B	8251	Salter-Harris Type I physeal fracture of left calcaneus, initial encounter for open fracture	Fracture of calcaneus, open
S99021B	8251	Salter-Harris Type II physeal fracture of right calcaneus, initial encounter for open fracture	Fracture of calcaneus, open
S99022B	8251	Salter-Harris Type II physeal fracture of left calcaneus, initial encounter for open fracture	Fracture of calcaneus, open
S99031B	8251	Salter-Harris Type III physeal fracture of right calcaneus, initial encounter for open fracture	Fracture of calcaneus, open
S99032B	8251	Salter-Harris Type III physeal fracture of left calcaneus, initial encounter for open fracture	Fracture of calcaneus, open
S99041B	8251	Salter-Harris Type IV physeal fracture of right calcaneus, initial encounter for open fracture	Fracture of calcaneus, open
S99042B	8251	Salter-Harris Type IV physeal fracture of left calcaneus, initial encounter for open fracture	Fracture of calcaneus, open
S99091B	8251	Other physeal fracture of right calcaneus, initial encounter for open fracture	Fracture of calcaneus, open
S99092B	8251	Other physeal fracture of left calcaneus, initial encounter for open fracture	Fracture of calcaneus, open
S92811A	82520	Other fracture of right foot, initial encounter for closed fracture	Closed fracture of unspecified bone(s) of foot [except toes]
S92812A	82520	Other fracture of left foot, initial encounter for closed fracture	Closed fracture of unspecified bone(s) of foot [except toes]
S92901A	82520	Unspecified fracture of right foot, initial encounter for closed fracture	Closed fracture of unspecified bone(s) of foot [except toes]

Appendix A

Frailty markers

S92902A	82520	Unspecified fracture of left foot, initial encounter for closed fracture	Closed fracture of unspecified bone(s) of foot [except toes]
S92101A	82521	Unspecified fracture of right talus, initial encounter for closed fracture	Closed fracture of astragalus
S92102A	82521	Unspecified fracture of left talus, initial encounter for closed fracture	Closed fracture of astragalus
S92111A	82521	Displaced fracture of neck of right talus, initial encounter for closed fracture	Closed fracture of astragalus
S92112A	82521	Displaced fracture of neck of left talus, initial encounter for closed fracture	Closed fracture of astragalus
S92113A	82521	Displaced fracture of neck of unspecified talus, initial encounter for closed fracture	Closed fracture of astragalus
S92114A	82521	Nondisplaced fracture of neck of right talus, initial encounter for closed fracture	Closed fracture of astragalus
S92115A	82521	Nondisplaced fracture of neck of left talus, initial encounter for closed fracture	Closed fracture of astragalus
S92116A	82521	Nondisplaced fracture of neck of unspecified talus, initial encounter for closed fracture	Closed fracture of astragalus
S92121A	82521	Displaced fracture of body of right talus, initial encounter for closed fracture	Closed fracture of astragalus
S92122A	82521	Displaced fracture of body of left talus, initial encounter for closed fracture	Closed fracture of astragalus
S92123A	82521	Displaced fracture of body of unspecified talus, initial encounter for closed fracture	Closed fracture of astragalus
S92124A	82521	Nondisplaced fracture of body of right talus, initial encounter for closed fracture	Closed fracture of astragalus
S92125A	82521	Nondisplaced fracture of body of left talus, initial encounter for closed fracture	Closed fracture of astragalus
S92126A	82521	Nondisplaced fracture of body of unspecified talus, initial encounter for closed fracture	Closed fracture of astragalus
S92131A	82521	Displaced fracture of posterior process of right talus, initial encounter for closed fracture	Closed fracture of astragalus
S92132A	82521	Displaced fracture of posterior process of left talus, initial encounter for closed fracture	Closed fracture of astragalus
S92133A	82521	Displaced fracture of posterior process of unspecified talus, initial encounter for closed fracture	Closed fracture of astragalus
S92134A	82521	Nondisplaced fracture of posterior process of right talus, initial encounter for closed fracture	Closed fracture of astragalus
S92135A	82521	Nondisplaced fracture of posterior process of left talus, initial encounter for closed fracture	Closed fracture of astragalus
S92136A	82521	Nondisplaced fracture of posterior process of unspecified talus, initial encounter for closed fracture	Closed fracture of astragalus
S92141A	82521	Displaced dome fracture of right talus, initial encounter for closed fracture	Closed fracture of astragalus
S92142A	82521	Displaced dome fracture of left talus, initial encounter for closed fracture	Closed fracture of astragalus
S92143A	82521	Displaced dome fracture of unspecified talus, initial encounter for closed fracture	Closed fracture of astragalus
S92144A	82521	Nondisplaced dome fracture of right talus, initial encounter for closed fracture	Closed fracture of astragalus
S92145A	82521	Nondisplaced dome fracture of left talus, initial encounter for closed fracture	Closed fracture of astragalus
S92146A	82521	Nondisplaced dome fracture of unspecified talus, initial encounter for closed fracture	Closed fracture of astragalus
S92151A	82521	Displaced avulsion fracture (chip fracture) of right talus, initial encounter for closed fracture	Closed fracture of astragalus
S92152A	82521	Displaced avulsion fracture (chip fracture) of left talus, initial encounter for closed fracture	Closed fracture of astragalus
S92153A	82521	Displaced avulsion fracture (chip fracture) of unspecified talus, initial encounter for closed fracture	Closed fracture of astragalus
S92154A	82521	Nondisplaced avulsion fracture (chip fracture) of right talus, initial encounter for closed fracture	Closed fracture of astragalus

Appendix A

Frailty markers

S92155A	82521	Nondisplaced avulsion fracture (chip fracture) of left talus, initial encounter for closed fracture	Closed fracture of astragalus
S92156A	82521	Nondisplaced avulsion fracture (chip fracture) of unspecified talus, initial encounter for closed fracture	Closed fracture of astragalus
S92191A	82521	Other fracture of right talus, initial encounter for closed fracture	Closed fracture of astragalus
S92192A	82521	Other fracture of left talus, initial encounter for closed fracture	Closed fracture of astragalus
S92199A	82521	Other fracture of unspecified talus, initial encounter for closed fracture	Closed fracture of astragalus
S92251A	82522	Displaced fracture of navicular [scaphoid] of right foot, initial encounter for closed fracture	Closed fracture of navicular [scaphoid], foot
S92252A	82522	Displaced fracture of navicular [scaphoid] of left foot, initial encounter for closed fracture	Closed fracture of navicular [scaphoid], foot
S92254A	82522	Nondisplaced fracture of navicular [scaphoid] of right foot, initial encounter for closed fracture	Closed fracture of navicular [scaphoid], foot
S92255A	82522	Nondisplaced fracture of navicular [scaphoid] of left foot, initial encounter for closed fracture	Closed fracture of navicular [scaphoid], foot
S92211A	82523	Displaced fracture of cuboid bone of right foot, initial encounter for closed fracture	Closed fracture of cuboid
S92212A	82523	Displaced fracture of cuboid bone of left foot, initial encounter for closed fracture	Closed fracture of cuboid
S92214A	82523	Nondisplaced fracture of cuboid bone of right foot, initial encounter for closed fracture	Closed fracture of cuboid
S92215A	82523	Nondisplaced fracture of cuboid bone of left foot, initial encounter for closed fracture	Closed fracture of cuboid
S92221A	82524	Displaced fracture of lateral cuneiform of right foot, initial encounter for closed fracture	Closed fracture of cuneiform, foot
S92222A	82524	Displaced fracture of lateral cuneiform of left foot, initial encounter for closed fracture	Closed fracture of cuneiform, foot
S92224A	82524	Nondisplaced fracture of lateral cuneiform of right foot, initial encounter for closed fracture	Closed fracture of cuneiform, foot
S92225A	82524	Nondisplaced fracture of lateral cuneiform of left foot, initial encounter for closed fracture	Closed fracture of cuneiform, foot
S92231A	82524	Displaced fracture of intermediate cuneiform of right foot, initial encounter for closed fracture	Closed fracture of cuneiform, foot
S92232A	82524	Displaced fracture of intermediate cuneiform of left foot, initial encounter for closed fracture	Closed fracture of cuneiform, foot
S92234A	82524	Nondisplaced fracture of intermediate cuneiform of right foot, initial encounter for closed fracture	Closed fracture of cuneiform, foot
S92235A	82524	Nondisplaced fracture of intermediate cuneiform of left foot, initial encounter for closed fracture	Closed fracture of cuneiform, foot
S92241A	82524	Displaced fracture of medial cuneiform of right foot, initial encounter for closed fracture	Closed fracture of cuneiform, foot
S92242A	82524	Displaced fracture of medial cuneiform of left foot, initial encounter for closed fracture	Closed fracture of cuneiform, foot
S92244A	82524	Nondisplaced fracture of medial cuneiform of right foot, initial encounter for closed fracture	Closed fracture of cuneiform, foot
S92245A	82524	Nondisplaced fracture of medial cuneiform of left foot, initial encounter for closed fracture	Closed fracture of cuneiform, foot
S92301A	82525	Fracture of unspecified metatarsal bone(s), right foot, initial encounter for closed fracture	Closed fracture of metatarsal bone(s)
S92302A	82525	Fracture of unspecified metatarsal bone(s), left foot, initial encounter for closed fracture	Closed fracture of metatarsal bone(s)
S92311A	82525	Displaced fracture of first metatarsal bone, right foot, initial encounter for closed fracture	Closed fracture of metatarsal bone(s)
S92312A	82525	Displaced fracture of first metatarsal bone, left foot, initial encounter for closed fracture	Closed fracture of metatarsal bone(s)
S92313A	82525	Displaced fracture of first metatarsal bone, unspecified foot, initial encounter for closed fracture	Closed fracture of metatarsal bone(s)
S92314A	82525	Nondisplaced fracture of first metatarsal bone, right foot, initial encounter for closed fracture	Closed fracture of metatarsal bone(s)

Appendix A

Frailty markers

[illegible]

Appendix A

Frailty markers

S99122A	82525	Salter-Harris Type II physeal fracture of left metatarsal, initial encounter for closed fracture	Closed fracture of metatarsal bone(s)
S99131A	82525	Salter-Harris Type III physeal fracture of right metatarsal, initial encounter for closed fracture	Closed fracture of metatarsal bone(s)
S99132A	82525	Salter-Harris Type III physeal fracture of left metatarsal, initial encounter for closed fracture	Closed fracture of metatarsal bone(s)
S99141A	82525	Salter-Harris Type IV physeal fracture of right metatarsal, initial encounter for closed fracture	Closed fracture of metatarsal bone(s)
S99142A	82525	Salter-Harris Type IV physeal fracture of left metatarsal, initial encounter for closed fracture	Closed fracture of metatarsal bone(s)
S99191A	82525	Other physeal fracture of right metatarsal, initial encounter for closed fracture	Closed fracture of metatarsal bone(s)
S99192A	82525	Other physeal fracture of left metatarsal, initial encounter for closed fracture	Closed fracture of metatarsal bone(s)
S92301A	82529	Fracture of unspecified metatarsal bone(s), right foot, initial encounter for closed fracture	Other closed fracture of tarsal and metatarsal bones
S92302A	82529	Fracture of unspecified metatarsal bone(s), left foot, initial encounter for closed fracture	Other closed fracture of tarsal and metatarsal bones
S92811B	82530	Other fracture of right foot, initial encounter for open fracture	Open fracture of unspecified bone(s) of foot [except toes]
S92812B	82530	Other fracture of left foot, initial encounter for open fracture	Open fracture of unspecified bone(s) of foot [except toes]
S92901B	82530	Unspecified fracture of right foot, initial encounter for open fracture	Open fracture of unspecified bone(s) of foot [except toes]
S92902B	82530	Unspecified fracture of left foot, initial encounter for open fracture	Open fracture of unspecified bone(s) of foot [except toes]
S92101B	82531	Unspecified fracture of right talus, initial encounter for open fracture	Open fracture of astragalus
S92102B	82531	Unspecified fracture of left talus, initial encounter for open fracture	Open fracture of astragalus
S92111B	82531	Displaced fracture of neck of right talus, initial encounter for open fracture	Open fracture of astragalus
S92112B	82531	Displaced fracture of neck of left talus, initial encounter for open fracture	Open fracture of astragalus
S92113B	82531	Displaced fracture of neck of unspecified talus, initial encounter for open fracture	Open fracture of astragalus
S92114B	82531	Nondisplaced fracture of neck of right talus, initial encounter for open fracture	Open fracture of astragalus
S92115B	82531	Nondisplaced fracture of neck of left talus, initial encounter for open fracture	Open fracture of astragalus
S92116B	82531	Nondisplaced fracture of neck of unspecified talus, initial encounter for open fracture	Open fracture of astragalus
S92121B	82531	Displaced fracture of body of right talus, initial encounter for open fracture	Open fracture of astragalus
S92122B	82531	Displaced fracture of body of left talus, initial encounter for open fracture	Open fracture of astragalus
S92123B	82531	Displaced fracture of body of unspecified talus, initial encounter for open fracture	Open fracture of astragalus
S92124B	82531	Nondisplaced fracture of body of right talus, initial encounter for open fracture	Open fracture of astragalus
S92125B	82531	Nondisplaced fracture of body of left talus, initial encounter for open fracture	Open fracture of astragalus
S92126B	82531	Nondisplaced fracture of body of unspecified talus, initial encounter for open fracture	Open fracture of astragalus
S92131B	82531	Displaced fracture of posterior process of right talus, initial encounter for open fracture	Open fracture of astragalus
S92132B	82531	Displaced fracture of posterior process of left talus, initial encounter for open fracture	Open fracture of astragalus
S92133B	82531	Displaced fracture of posterior process of unspecified talus, initial encounter for open fracture	Open fracture of astragalus
S92134B	82531	Nondisplaced fracture of posterior process of right talus, initial encounter for open fracture	Open fracture of astragalus

Appendix A

Frailty markers

S92135B	82531	Nondisplaced fracture of posterior process of left talus, initial encounter for open fracture	Open fracture of astragalus
S92136B	82531	Nondisplaced fracture of posterior process of unspecified talus, initial encounter for open fracture	Open fracture of astragalus
S92141B	82531	Displaced dome fracture of right talus, initial encounter for open fracture	Open fracture of astragalus
S92142B	82531	Displaced dome fracture of left talus, initial encounter for open fracture	Open fracture of astragalus
S92143B	82531	Displaced dome fracture of unspecified talus, initial encounter for open fracture	Open fracture of astragalus
S92144B	82531	Nondisplaced dome fracture of right talus, initial encounter for open fracture	Open fracture of astragalus
S92145B	82531	Nondisplaced dome fracture of left talus, initial encounter for open fracture	Open fracture of astragalus
S92146B	82531	Nondisplaced dome fracture of unspecified talus, initial encounter for open fracture	Open fracture of astragalus
S92151B	82531	Displaced avulsion fracture (chip fracture) of right talus, initial encounter for open fracture	Open fracture of astragalus
S92152B	82531	Displaced avulsion fracture (chip fracture) of left talus, initial encounter for open fracture	Open fracture of astragalus
S92153B	82531	Displaced avulsion fracture (chip fracture) of unspecified talus, initial encounter for open fracture	Open fracture of astragalus
S92154B	82531	Nondisplaced avulsion fracture (chip fracture) of right talus, initial encounter for open fracture	Open fracture of astragalus
S92155B	82531	Nondisplaced avulsion fracture (chip fracture) of left talus, initial encounter for open fracture	Open fracture of astragalus
S92156B	82531	Nondisplaced avulsion fracture (chip fracture) of unspecified talus, initial encounter for open fracture	Open fracture of astragalus
S92191B	82531	Other fracture of right talus, initial encounter for open fracture	Open fracture of astragalus
S92192B	82531	Other fracture of left talus, initial encounter for open fracture	Open fracture of astragalus
S92199B	82531	Other fracture of unspecified talus, initial encounter for open fracture	Open fracture of astragalus
S92251B	82532	Displaced fracture of navicular [scaphoid] of right foot, initial encounter for open fracture	Open fracture of navicular [scaphoid], foot
S92252B	82532	Displaced fracture of navicular [scaphoid] of left foot, initial encounter for open fracture	Open fracture of navicular [scaphoid], foot
S92254B	82532	Nondisplaced fracture of navicular [scaphoid] of right foot, initial encounter for open fracture	Open fracture of navicular [scaphoid], foot
S92255B	82532	Nondisplaced fracture of navicular [scaphoid] of left foot, initial encounter for open fracture	Open fracture of navicular [scaphoid], foot
S92211B	82533	Displaced fracture of cuboid bone of right foot, initial encounter for open fracture	Open fracture of cuboid
S92212B	82533	Displaced fracture of cuboid bone of left foot, initial encounter for open fracture	Open fracture of cuboid
S92214B	82533	Nondisplaced fracture of cuboid bone of right foot, initial encounter for open fracture	Open fracture of cuboid
S92215B	82533	Nondisplaced fracture of cuboid bone of left foot, initial encounter for open fracture	Open fracture of cuboid
S92221B	82534	Displaced fracture of lateral cuneiform of right foot, initial encounter for open fracture	Open fracture of cuneiform, foot
S92222B	82534	Displaced fracture of lateral cuneiform of left foot, initial encounter for open fracture	Open fracture of cuneiform, foot
S92224B	82534	Nondisplaced fracture of lateral cuneiform of right foot, initial encounter for open fracture	Open fracture of cuneiform, foot
S92225B	82534	Nondisplaced fracture of lateral cuneiform of left foot, initial encounter for open fracture	Open fracture of cuneiform, foot
S92231B	82534	Displaced fracture of intermediate cuneiform of right foot, initial encounter for open fracture	Open fracture of cuneiform, foot
S92232B	82534	Displaced fracture of intermediate cuneiform of left foot, initial encounter for open fracture	Open fracture of cuneiform, foot

Appendix A

Frailty markers

[illegible]

Appendix A

Frailty markers

S92346B	82535	Nondisplaced fracture of fourth metatarsal bone, unspecified foot, initial encounter for open fracture	Open fracture of metatarsal bone(s)
S92351B	82535	Displaced fracture of fifth metatarsal bone, right foot, initial encounter for open fracture	Open fracture of metatarsal bone(s)
S92352B	82535	Displaced fracture of fifth metatarsal bone, left foot, initial encounter for open fracture	Open fracture of metatarsal bone(s)
S92353B	82535	Displaced fracture of fifth metatarsal bone, unspecified foot, initial encounter for open fracture	Open fracture of metatarsal bone(s)
S92354B	82535	Nondisplaced fracture of fifth metatarsal bone, right foot, initial encounter for open fracture	Open fracture of metatarsal bone(s)
S92355B	82535	Nondisplaced fracture of fifth metatarsal bone, left foot, initial encounter for open fracture	Open fracture of metatarsal bone(s)
S92356B	82535	Nondisplaced fracture of fifth metatarsal bone, unspecified foot, initial encounter for open fracture	Open fracture of metatarsal bone(s)
S99101B	82535	Unspecified physeal fracture of right metatarsal, initial encounter for open fracture	Open fracture of metatarsal bone(s)
S99102B	82535	Unspecified physeal fracture of left metatarsal, initial encounter for open fracture	Open fracture of metatarsal bone(s)
S99111B	82535	Salter-Harris Type I physeal fracture of right metatarsal, initial encounter for open fracture	Open fracture of metatarsal bone(s)
S99112B	82535	Salter-Harris Type I physeal fracture of left metatarsal, initial encounter for open fracture	Open fracture of metatarsal bone(s)
S99121B	82535	Salter-Harris Type II physeal fracture of right metatarsal, initial encounter for open fracture	Open fracture of metatarsal bone(s)
S99122B	82535	Salter-Harris Type II physeal fracture of left metatarsal, initial encounter for open fracture	Open fracture of metatarsal bone(s)
S99131B	82535	Salter-Harris Type III physeal fracture of right metatarsal, initial encounter for open fracture	Open fracture of metatarsal bone(s)
S99132B	82535	Salter-Harris Type III physeal fracture of left metatarsal, initial encounter for open fracture	Open fracture of metatarsal bone(s)
S99141B	82535	Salter-Harris Type IV physeal fracture of right metatarsal, initial encounter for open fracture	Open fracture of metatarsal bone(s)
S99142B	82535	Salter-Harris Type IV physeal fracture of left metatarsal, initial encounter for open fracture	Open fracture of metatarsal bone(s)
S99191B	82535	Other physeal fracture of right metatarsal, initial encounter for open fracture	Open fracture of metatarsal bone(s)
S99192B	82535	Other physeal fracture of left metatarsal, initial encounter for open fracture	Open fracture of metatarsal bone(s)
S92301B	82539	Fracture of unspecified metatarsal bone(s), right foot, initial encounter for open fracture	Other open fracture of tarsal and metatarsal bones
S92302B	82539	Fracture of unspecified metatarsal bone(s), left foot, initial encounter for open fracture	Other open fracture of tarsal and metatarsal bones
S92401A	8260	Displaced unspecified fracture of right great toe, initial encounter for closed fracture	Closed fracture of one or more phalanges of foot
S92402A	8260	Displaced unspecified fracture of left great toe, initial encounter for closed fracture	Closed fracture of one or more phalanges of foot
S92404A	8260	Nondisplaced unspecified fracture of right great toe, initial encounter for closed fracture	Closed fracture of one or more phalanges of foot
S92405A	8260	Nondisplaced unspecified fracture of left great toe, initial encounter for closed fracture	Closed fracture of one or more phalanges of foot
S92411A	8260	Displaced fracture of proximal phalanx of right great toe, initial encounter for closed fracture	Closed fracture of one or more phalanges of foot
S92412A	8260	Displaced fracture of proximal phalanx of left great toe, initial encounter for closed fracture	Closed fracture of one or more phalanges of foot
S92413A	8260	Displaced fracture of proximal phalanx of unspecified great toe, initial encounter for closed fracture	Closed fracture of one or more phalanges of foot
S92414A	8260	Nondisplaced fracture of proximal phalanx of right great toe, initial encounter for closed fracture	Closed fracture of one or more phalanges of foot
S92415A	8260	Nondisplaced fracture of proximal phalanx of left great toe, initial encounter for closed fracture	Closed fracture of one or more phalanges of foot
S92416A	8260	Nondisplaced fracture of proximal phalanx of unspecified great toe, initial encounter for closed fracture	Closed fracture of one or more phalanges of foot

Appendix A

Frailty markers

[illegible]

Appendix A

Frailty markers

[illegible]

Appendix A

Frailty markers

[illegible]

Appendix A

Frailty markers

S92534B	8261	Nondisplaced fracture of distal phalanx of right lesser toe(s), initial encounter for open fracture	Open fracture of one or more phalanges of foot
S92535B	8261	Nondisplaced fracture of distal phalanx of left lesser toe(s), initial encounter for open fracture	Open fracture of one or more phalanges of foot
S92536B	8261	Nondisplaced fracture of distal phalanx of unspecified lesser toe(s), initial encounter for open fracture	Open fracture of one or more phalanges of foot
S92591B	8261	Other fracture of right lesser toe(s), initial encounter for open fracture	Open fracture of one or more phalanges of foot
S92592B	8261	Other fracture of left lesser toe(s), initial encounter for open fracture	Open fracture of one or more phalanges of foot
S92599B	8261	Other fracture of unspecified lesser toe(s), initial encounter for open fracture	Open fracture of one or more phalanges of foot
S92911B	8261	Unspecified fracture of right toe(s), initial encounter for open fracture	Open fracture of one or more phalanges of foot
S92912B	8261	Unspecified fracture of left toe(s), initial encounter for open fracture	Open fracture of one or more phalanges of foot
S92919B	8261	Unspecified fracture of unspecified toe(s), initial encounter for open fracture	Open fracture of one or more phalanges of foot
S99201B	8261	Unspecified physeal fracture of phalanx of right toe, initial encounter for open fracture	Open fracture of one or more phalanges of foot
S99202B	8261	Unspecified physeal fracture of phalanx of left toe, initial encounter for open fracture	Open fracture of one or more phalanges of foot
S99209B	8261	Unspecified physeal fracture of phalanx of unspecified toe, initial encounter for open fracture	Open fracture of one or more phalanges of foot
S99211B	8261	Salter-Harris Type I physeal fracture of phalanx of right toe, initial encounter for open fracture	Open fracture of one or more phalanges of foot
S99212B	8261	Salter-Harris Type I physeal fracture of phalanx of left toe, initial encounter for open fracture	Open fracture of one or more phalanges of foot
S99219B	8261	Salter-Harris Type I physeal fracture of phalanx of unspecified toe, initial encounter for open fracture	Open fracture of one or more phalanges of foot
S99221B	8261	Salter-Harris Type II physeal fracture of phalanx of right toe, initial encounter for open fracture	Open fracture of one or more phalanges of foot
S99222B	8261	Salter-Harris Type II physeal fracture of phalanx of left toe, initial encounter for open fracture	Open fracture of one or more phalanges of foot
S99229B	8261	Salter-Harris Type II physeal fracture of phalanx of unspecified toe, initial encounter for open fracture	Open fracture of one or more phalanges of foot
S99231B	8261	Salter-Harris Type III physeal fracture of phalanx of right toe, initial encounter for open fracture	Open fracture of one or more phalanges of foot
S99232B	8261	Salter-Harris Type III physeal fracture of phalanx of left toe, initial encounter for open fracture	Open fracture of one or more phalanges of foot
S99239B	8261	Salter-Harris Type III physeal fracture of phalanx of unspecified toe, initial encounter for open fracture	Open fracture of one or more phalanges of foot
S99241B	8261	Salter-Harris Type IV physeal fracture of phalanx of right toe, initial encounter for open fracture	Open fracture of one or more phalanges of foot
S99242B	8261	Salter-Harris Type IV physeal fracture of phalanx of left toe, initial encounter for open fracture	Open fracture of one or more phalanges of foot
S99249B	8261	Salter-Harris Type IV physeal fracture of phalanx of unspecified toe, initial encounter for open fracture	Open fracture of one or more phalanges of foot
S99291B	8261	Other physeal fracture of phalanx of right toe, initial encounter for open fracture	Open fracture of one or more phalanges of foot
S99292B	8261	Other physeal fracture of phalanx of left toe, initial encounter for open fracture	Open fracture of one or more phalanges of foot
S99299B	8261	Other physeal fracture of phalanx of unspecified toe, initial encounter for open fracture	Open fracture of one or more phalanges of foot
S8291XA	8270	Unspecified fracture of right lower leg, initial encounter for closed fracture	Other, multiple and ill-defined fractures of lower limb, closed
S8292XA	8270	Unspecified fracture of left lower leg, initial encounter for closed fracture	Other, multiple and ill-defined fractures of lower limb, closed
S8290XC	8271	Unspecified fracture of unspecified lower leg, initial encounter for open fracture type IIIA, IIIB, or IIIC	Other, multiple and ill-defined fractures of lower limb, open
S8291XB	8271	Unspecified fracture of right lower leg, initial encounter for open fracture type I or II	Other, multiple and ill-defined fractures of lower limb, open

Appendix A

Frailty markers

S8291XC	8271	Unspecified fracture of right lower leg, initial encounter for open fracture type IIIA, IIB, or IIC	Other, multiple and ill-defined fractures of lower limb, open
S8292XB	8271	Unspecified fracture of left lower leg, initial encounter for open fracture type I or II	Other, multiple and ill-defined fractures of lower limb, open
S8292XC	8271	Unspecified fracture of left lower leg, initial encounter for open fracture type IIIA, IIB, or IIC	Other, multiple and ill-defined fractures of lower limb, open
S2220XA	8280	Unspecified fracture of sternum, initial encounter for closed fracture	Closed multiple fractures involving both lower limbs, lower with upper limb, and lower limb(s) with rib(s) and sternum
S2249XA	8280	Multiple fractures of ribs, unspecified side, initial encounter for closed fracture	Closed multiple fractures involving both lower limbs, lower with upper limb, and lower limb(s) with rib(s) and sternum
S4290XA	8280	Fracture of unspecified shoulder girdle, part unspecified, initial encounter for closed fracture	Closed multiple fractures involving both lower limbs, lower with upper limb, and lower limb(s) with rib(s) and sternum
S5290XA	8280	Unspecified fracture of unspecified forearm, initial encounter for closed fracture	Closed multiple fractures involving both lower limbs, lower with upper limb, and lower limb(s) with rib(s) and sternum
S7291XA	8280	Unspecified fracture of right femur, initial encounter for closed fracture	Closed multiple fractures involving both lower limbs, lower with upper limb, and lower limb(s) with rib(s) and sternum
S7292XA	8280	Unspecified fracture of left femur, initial encounter for closed fracture	Closed multiple fractures involving both lower limbs, lower with upper limb, and lower limb(s) with rib(s) and sternum
S8291XA	8280	Unspecified fracture of right lower leg, initial encounter for closed fracture	Closed multiple fractures involving both lower limbs, lower with upper limb, and lower limb(s) with rib(s) and sternum
S8292XA	8280	Unspecified fracture of left lower leg, initial encounter for closed fracture	Closed multiple fractures involving both lower limbs, lower with upper limb, and lower limb(s) with rib(s) and sternum
S2220XB	8281	Unspecified fracture of sternum, initial encounter for open fracture	Open multiple fractures involving both lower limbs, lower with upper limb, and lower limb(s) with rib(s) and sternum
S2249XB	8281	Multiple fractures of ribs, unspecified side, initial encounter for open fracture	Open multiple fractures involving both lower limbs, lower with upper limb, and lower limb(s) with rib(s) and sternum
S4290XB	8281	Fracture of unspecified shoulder girdle, part unspecified, initial encounter for open fracture	Open multiple fractures involving both lower limbs, lower with upper limb, and lower limb(s) with rib(s) and sternum
S5290XB	8281	Unspecified fracture of unspecified forearm, initial encounter for open fracture type I or II	Open multiple fractures involving both lower limbs, lower with upper limb, and lower limb(s) with rib(s) and sternum
S7291XE	8281	Unspecified fracture of right femur, subsequent encounter for open fracture type I or II with routine healing	Open multiple fractures involving both lower limbs, lower with upper limb, and lower limb(s) with rib(s) and sternum
S7292XE	8281	Unspecified fracture of left femur, subsequent encounter for open fracture type I or II with routine healing	Open multiple fractures involving both lower limbs, lower with upper limb, and lower limb(s) with rib(s) and sternum
S8291XB	8281	Unspecified fracture of right lower leg, initial encounter for open fracture type I or II	Open multiple fractures involving both lower limbs, lower with upper limb, and lower limb(s) with rib(s) and sternum
S8292XB	8281	Unspecified fracture of left lower leg, initial encounter for open fracture type I or II	Open multiple fractures involving both lower limbs, lower with upper limb, and lower limb(s) with rib(s) and sternum
T148	8290	Other injury of unspecified body region	Fracture of unspecified bone, closed
T148	8291	Other injury of unspecified body region	Fracture of unspecified bone, open

Falls

ICD10 Dx	ICD9 Dx	LongDesICD10	LongDesICD9
V00181A	E8859	Fall from other rolling-type pedestrian conveyance, initial encounter	Fall from other slipping, tripping, or stumbling
V00181D	E8859	Fall from other rolling-type pedestrian conveyance, subsequent encounter	Fall from other slipping, tripping, or stumbling
V00182A	E8859	Pedestrian on other rolling-type pedestrian conveyance colliding with stationary object, initial encounter	Fall from other slipping, tripping, or stumbling
V00182D	E8859	Pedestrian on other rolling-type pedestrian conveyance colliding with stationary object, subsequent encounter	Fall from other slipping, tripping, or stumbling
V00211A	E8859	Fall from ice-skates, initial encounter	Fall from other slipping, tripping, or stumbling
V00211D	E8859	Fall from ice-skates, subsequent encounter	Fall from other slipping, tripping, or stumbling
V00212A	E8859	Ice-skater colliding with stationary object, initial encounter	Fall from other slipping, tripping, or stumbling
V00212D	E8859	Ice-skater colliding with stationary object, subsequent encounter	Fall from other slipping, tripping, or stumbling
V00221A	E8859	Fall from sled, initial encounter	Fall from other slipping, tripping, or stumbling
V00221D	E8859	Fall from sled, subsequent encounter	Fall from other slipping, tripping, or stumbling
V00222A	E8859	Sledder colliding with stationary object, initial encounter	Fall from other slipping, tripping, or stumbling
V00222D	E8859	Sledder colliding with stationary object, subsequent encounter	Fall from other slipping, tripping, or stumbling

Appendix A

Frailty markers

V00281A	E8859	Fall from other gliding-type pedestrian conveyance, initial encounter	Fall from other slipping, tripping, or stumbling
V00281D	E8859	Fall from other gliding-type pedestrian conveyance, subsequent encounter	Fall from other slipping, tripping, or stumbling
V00282A	E8859	Pedestrian on other gliding-type pedestrian conveyance colliding with stationary object, initial encounter	Fall from other slipping, tripping, or stumbling
V00282D	E8859	Pedestrian on other gliding-type pedestrian conveyance colliding with stationary object, subsequent encounter	Fall from other slipping, tripping, or stumbling
V00381A	E8859	Fall from other flat-bottomed pedestrian conveyance, initial encounter	Fall from other slipping, tripping, or stumbling
V00381D	E8859	Fall from other flat-bottomed pedestrian conveyance, subsequent encounter	Fall from other slipping, tripping, or stumbling
V00382A	E8859	Pedestrian on other flat-bottomed pedestrian conveyance colliding with stationary object, initial encounter	Fall from other slipping, tripping, or stumbling
V00382D	E8859	Pedestrian on other flat-bottomed pedestrian conveyance colliding with stationary object, subsequent encounter	Fall from other slipping, tripping, or stumbling
W000XXA	E8859	Fall on same level due to ice and snow, initial encounter	Fall from other slipping, tripping, or stumbling
W000XXD	E8859	Fall on same level due to ice and snow, subsequent encounter	Fall from other slipping, tripping, or stumbling
W009XXA	E8859	Unspecified fall due to ice and snow, initial encounter	Fall from other slipping, tripping, or stumbling
W009XXD	E8859	Unspecified fall due to ice and snow, subsequent encounter	Fall from other slipping, tripping, or stumbling
W010XXA	E8859	Fall on same level from slipping, tripping and stumbling without subsequent striking against object, initial encounter	Fall from other slipping, tripping, or stumbling
W010XXD	E8859	Fall on same level from slipping, tripping and stumbling without subsequent striking against object, subsequent encounter	Fall from other slipping, tripping, or stumbling
W182XXA	E8859	Fall in (into) shower or empty bathtub, initial encounter	Fall from other slipping, tripping, or stumbling
W182XXD	E8859	Fall in (into) shower or empty bathtub, subsequent encounter	Fall from other slipping, tripping, or stumbling
W1840XA	E8859	Slipping, tripping and stumbling without falling, unspecified, initial encounter	Fall from other slipping, tripping, or stumbling
W1840XD	E8859	Slipping, tripping and stumbling without falling, unspecified, subsequent encounter	Fall from other slipping, tripping, or stumbling
W1841XA	E8859	Slipping, tripping and stumbling without falling due to stepping on object, initial encounter	Fall from other slipping, tripping, or stumbling
W1841XD	E8859	Slipping, tripping and stumbling without falling due to stepping on object, subsequent encounter	Fall from other slipping, tripping, or stumbling
W1842XA	E8859	Slipping, tripping and stumbling without falling due to stepping into hole or opening, initial encounter	Fall from other slipping, tripping, or stumbling
W1842XD	E8859	Slipping, tripping and stumbling without falling due to stepping into hole or opening, subsequent encounter	Fall from other slipping, tripping, or stumbling
W1843XA	E8859	Slipping, tripping and stumbling without falling due to stepping from one level to another, initial encounter	Fall from other slipping, tripping, or stumbling
W1843XD	E8859	Slipping, tripping and stumbling without falling due to stepping from one level to another, subsequent encounter	Fall from other slipping, tripping, or stumbling
W1849XA	E8859	Other slipping, tripping and stumbling without falling, initial encounter	Fall from other slipping, tripping, or stumbling
W1849XD	E8859	Other slipping, tripping and stumbling without falling, subsequent encounter	Fall from other slipping, tripping, or stumbling
W0110XA	E8880	Fall on same level from slipping, tripping and stumbling with subsequent striking against unspecified object, initial encounter	Fall resulting in striking against sharp object
W0110XD	E8880	Fall on same level from slipping, tripping and stumbling with subsequent striking against unspecified object, subsequent encounter	Fall resulting in striking against sharp object
W01110A	E8880	Fall on same level from slipping, tripping and stumbling with subsequent striking against sharp glass, initial encounter	Fall resulting in striking against sharp object
W01110D	E8880	Fall on same level from slipping, tripping and stumbling with subsequent striking against sharp glass, subsequent encounter	Fall resulting in striking against sharp object

Appendix A

Frailty markers

W01111A	E8880	Fall on same level from slipping, tripping and stumbling with subsequent striking against power tool or machine, initial encounter	Fall resulting in striking against sharp object
W01111D	E8880	Fall on same level from slipping, tripping and stumbling with subsequent striking against power tool or machine, subsequent encounter	Fall resulting in striking against sharp object
W01118A	E8880	Fall on same level from slipping, tripping and stumbling with subsequent striking against other sharp object, initial encounter	Fall resulting in striking against sharp object
W01118D	E8880	Fall on same level from slipping, tripping and stumbling with subsequent striking against other sharp object, subsequent encounter	Fall resulting in striking against sharp object
W01119A	E8880	Fall on same level from slipping, tripping and stumbling with subsequent striking against unspecified sharp object, initial encounter	Fall resulting in striking against sharp object
W01119D	E8880	Fall on same level from slipping, tripping and stumbling with subsequent striking against unspecified sharp object, subsequent encounter	Fall resulting in striking against sharp object
W1802XA	E8880	Striking against glass with subsequent fall, initial encounter	Fall resulting in striking against sharp object
W1802XD	E8880	Striking against glass with subsequent fall, subsequent encounter	Fall resulting in striking against sharp object
W01190A	E8881	Fall on same level from slipping, tripping and stumbling with subsequent striking against furniture, initial encounter	Fall resulting in striking against other object
W01190D	E8881	Fall on same level from slipping, tripping and stumbling with subsequent striking against furniture, subsequent encounter	Fall resulting in striking against other object
W01198A	E8881	Fall on same level from slipping, tripping and stumbling with subsequent striking against other object, initial encounter	Fall resulting in striking against other object
W01198D	E8881	Fall on same level from slipping, tripping and stumbling with subsequent striking against other object, subsequent encounter	Fall resulting in striking against other object
W1800XA	E8881	Striking against unspecified object with subsequent fall, initial encounter	Fall resulting in striking against other object
W1800XD	E8881	Striking against unspecified object with subsequent fall, subsequent encounter	Fall resulting in striking against other object
W1801XA	E8881	Striking against sports equipment with subsequent fall, initial encounter	Fall resulting in striking against other object
W1801XD	E8881	Striking against sports equipment with subsequent fall, subsequent encounter	Fall resulting in striking against other object
W1809XD	E8881	Striking against other object with subsequent fall, subsequent encounter	Fall resulting in striking against other object
W04XXXA	E8888	Fall while being carried or supported by other persons, initial encounter	Other fall
W04XXXD	E8888	Fall while being carried or supported by other persons, subsequent encounter	Other fall
W1830XA	E8888	Fall on same level, unspecified, initial encounter	Other fall
W1830XD	E8888	Fall on same level, unspecified, subsequent encounter	Other fall
W1831XA	E8888	Fall on same level due to stepping on an object, initial encounter	Other fall
W1831XD	E8888	Fall on same level due to stepping on an object, subsequent encounter	Other fall
W1839XA	E8888	Other fall on same level, initial encounter	Other fall
W1839XD	E8888	Other fall on same level, subsequent encounter	Other fall
W19XXXA	E8889	Unspecified fall, initial encounter	Unspecified fall
W19XXXD	E8889	Unspecified fall, subsequent encounter	Unspecified fall

Appendix A

Frailty markers

Combined Comorbidity Score for Claims Data

[Gagne JJ, Glynn RJ, Avorn J, Levin R, Schneeweiss S. A combined comorbidity score predicted mortality in elderly patients better than existing scores. Journal of Clinical Epidemiology 2011;64\(7\):749-59.](#)

[Sun JW, Rogers JR, Her O, Welch EC, Panozzo CA, Toh S, Gagne JJ. Adaptation and Validation of the Combined Comorbidity Score for ICD-10-CM. Medical Care. 2017 Dec 1;55\(12\):1046-51.](#)

Codes used for each ICD-10-CM and ICD-9-CM version of the combined comorbidity score

Condition	ICD-9-CM Diagnosis Code	ICD-10-CM Diagnosis Code Version 4: All	
Metastatic cancer	196.x–199.x	C45.9, C77.x–C80.x	If occurs, set the score to 5.0; otherwise, set the score to 0.0
Congestive heart failure	402.01, 402.11, 402.91, 425.x, 428.x, 429.3	A18.84, I11.0, I42.x, I43.x, I50.x	If occurs, set the score to 2.0; otherwise, set the score to 0.0
Dementia	290.x, 331.0, 331.1x, 331.2	F01.x–F03.x, G30.x, G31.01, G31.09, G31.1	If occurs, set the score to 2.0; otherwise, set the score to 0.0
Renal failure	403.11, 403.91, 404.12, 404.92, 585.x, 586	I12.0, I13.11, N18.x, Z48.22, Z91.15, Z94.0, Z99.2	If occurs, set the score to 2.0; otherwise, set the score to 0.0
Weight loss	260.x–263.x	E40.x–E46.x	If occurs, set the score to 2.0; otherwise, set the score to 0.0
Hemiplegia	342.x, 344.x	G04.1, G80.2, G81.x, G82.x, G83.x	If occurs, set the score to 1.0; otherwise, set the score to 0.0
Alcohol abuse	291.1, 291.2, 291.5, 291.8x, 291.9, 303.93, 305.03	F10.10, F10.120, F.129, F.14, F10.150, F10.159, F10.181- F10.21, F10.230, F10.232, F10.239, F10.24, F10.250, F10.259–F10.28, F10.29, F10.94, F10.950, F10.959, F10.96–F10.99	If occurs, set the score to 1.0; otherwise, set the score to 0.0
Any tumor	140.x–165.x, 170.x–171.x, 174.x–176.x, 179, 180.x– 195.x, 208.x, 273.0, 273.3	C00.x–C26.x, C30.x–C34.x, C37.x– C41.x, C43.x, C45.x–C58.x, C60.x– C76.x, C81.x, C94.3x, C94.8x, C95.x, C96.0–C96.4, C96.9, C96.A, C96.Z, D45, D89, Z85.46	If occurs, set the score to 1.0; otherwise, set the score to 0.0
Cardiac arrhythmias	426.10, 426.11, 426.13, 426.2–426.4, 426.50–426.53, 426.6–426.8x, 427.0, 427.2, 427.31, 427.60, 427.9, 785.0, V45.0x, V53.3x	I44.0, I44.1, I44.3x–145.2, I45.4- I45.8x, I45.9, I47.0, I47.9, I48.0, I48.1, I48.2, I48.91,, I49.2, I49.40, I49.9, R00.0, V53.3, Z45.0x, Z95.0, Z95.810, Z95.818, Z95.9	If occurs, set the score to 1.0; otherwise, set the score to 0.0
Chronic pulmonary disease	415.0, 416.8, 416.9, 491.x–494.x, 496	I26.0x, I27.2–I27.9, J41.x–J45.x, J47.x	If occurs, set the score to 1.0; otherwise, set the score to 0.0
Coagulopathy	286.x, 287.1, 287.3–287.5	D65–D68.x, D69.1, D69.3–D69.6	If occurs, set the score to 1.0; otherwise, set the score to 0.0
Complicated diabetes	250.4–250.73, 250.9x	E10.2x–E10.8, E11.2x–E11.8, E13.2x–E13.3x	If occurs, set the score to 1.0; otherwise, set the score to 0.0
Deficiency anemia	280.1–281.9, 281.x, 285.9	D50.1–D50.9, D51.x–D53.x, D64.9	If occurs, set the score to 1.0; otherwise, set the score to 0.0
Liver disease	070.32, 070.33, 070.54, 456.0, 456.1, 456.20, 456.21, 527.3, 571.0, 571.2, 571.3, 571.49, 571.5, 571.6, 571.8, 571.9, 572.8	B18.x, I85.x, I86.4, K70.x, K71.1, K71.3–K71.5, K71.7, K72.x–K74.x, K76.x, Z94.4	If occurs, set the score to 1.0; otherwise, set the score to 0.0
Peripheral vascular disease	440.x, 441.2–441.4, 441.7, 441.9, 443.1–443.9, 447.1, 557.1, 557.9, V43.4	E08.51, E08.52, E09.51, E09.52, E10.51, E10.52, E11.51, E13.51, E13.52, I67.0, I70.x, I71.x, I73.1, I73.8x, I73.9, I77.1, I77.71- I77.74, I177.79, I79.x, K55.1, K55.8, K55.9, Z95.82x, Z95.9	If occurs, set the score to 1.0; otherwise, set the score to 0.0

Appendix A

Frailty markers

Psychosis	295.x-298.x, 299.10, 299.11	F20.x, F22-25.x, F28, F29, F30.x- F33.x, F34.8, F34.9, F39, F44.89, F84.3	If occurs, set the score to 1.0; otherwise, set the score to 0.0
Pulmonary circulation disorders	416.x, 417.9	I27.x, I28.9	If occurs, set the score to 1.0; otherwise, set the score to 0.0
HIV/AIDS	042, 079.53, V08	B20, B97.35, Z21	If occurs, set the score to -1.0; otherwise, set the score to 0.0
Hypertension	401.1, 401.9, 402.10, 402.90, 404.10, 404.90, 405.11, 405.19, 405.91, 405.99	I10, I11.9, I13.10, I15.x, N26.2	If occurs, set the score to -1.0; otherwise, set the score to 0.0

BM, backward mapping; GEMs, General Equivalence Mappings; FBM, forward-backward mapping; ICD-9-CM, International Classification of Diseases, 9th Revision, Clinical Modification; ICD-10-CM, International Classification of Diseases, 10th Revision, Clinical Modification

Appendix A Comedications

Lithium

NDC Generic Name	
LITHIUM ASPARTATE	LITHIUM CITRATE
LITHIUM CARBONATE	LITHIUM CITRATE TETRAHYDRATE

Anti-epileptic mood stabilizers

NDC Generic Name	
CARBAMAZEPINE	OXCARBAZEPINE
DIVALPROEX SODIUM	VALPROIC ACID
LAMOTRIGINE	VALPROIC ACID (AS SODIUM SALT) (VALPROATE SODIUM)

Anti-epileptic non-mood stabilizers

NDC Generic Name	
RUFINAMIDE	LACOSAMIDE
VIGABATRIN	ETHOSUXIMIDE
EZOGABINE	FELBAMATE
TIAGABINE HCL	LEVETIRACETAM
PHENYTOIN	TOPIRAMATE
ZONISAMIDE	PHENOBARBITAL
PRIMIDONE	GABAPENTIN
PREGABALIN	

Atypical antipsychotics

NDC Generic Name	
ZIPRASIDONE MESYLATE	ARIPIPRAZOLE
PALIPERIDONE	OLANZAPINE
ZIPRASIDONE HCL	RISPERIDONE
CLOZAPINE	QUETIAPINE FUMARATE

Benzodiazepines

NDC Generic Name	
ALPRAZOLAM	FLURAZEPAM HCL
CHLORDIAZEPOXIDE	LORAZEPAM
CLOBAZAM	MIDAZOLAM
CLONAZEPAM	OXAZEPAM
CLORAZEPATE DIPOTASSIUM	QUAZEPAM
DIAZEPAM	TEMAZEPAM
ESTAZOLAM	TRIAZOLAM

Serotonin-norepinephrine reuptake inhibitor

NDC Generic Name	
DESVENLAFAXINE	DULOXETINE HCL
DESVENLAFAXINE FUMARATE	VENLAFAXINE HCL
DESVENLAFAXINE SUCCINATE	LEVOMILNACIPRAN HCL

Selective serotonin reuptake inhibitor

NDC Generic Name	
PAROXETINE MESYLATE	CITALOPRAM HYDROBROMIDE
FLUOXETINE	FLUOXETINE HCL
OLANZAPINE/FLUOXETINE HCL	SERTRALINE HCL
FLUVOXAMINE MALEATE	FLUOXETINE HCL/DIETARY SUPPLEMENT NO.17
ESCITALOPRAM OXALATE	FLUOXETINE HCL/DIETARY SUPPLEMENT NO.8
PAROXETINE HCL	VILAZODONE HCL

Tricyclic antidepressants

NDC Generic Name	
PROTRIPTYLINE HCL	DESIPRAMINE HCL
IMIPRAMINE PAMOATE	PERPHENAZINE/AMITRIPTYLINE HCL
TRIMIPRAMINE MALEATE	NORTRIPTYLINE HCL
AMITRIPTYLINE HCL/CHLORDIAZEPOXIDE	IMIPRAMINE HCL
AMOXAPINE	DOXEPIN HCL
CLOMIPRAMINE HCL	AMITRIPTYLINE HCL

Typical antipsychotics

NDC Generic Name	
FLUPHENAZINE ENANTHATE	THIOTHIXENE
LOXAPINE	FLUPHENAZINE HCL
PIMOZIDE	PERPHENAZINE/AMITRIPTYLINE HCL

Appendix A Comedications

MESORIDAZINE BESYLATE	TRIFLUOPERAZINE HCL
MOLINDONE HCL	CHLORPROMAZINE HCL
THIOTHIXENE HCL	HALOPERIDOL
FLUPHENAZINE DECANOATE	THIORIDAZINE HCL
PERPHENAZINE	

Anticoagulants

NDC Generic Name	
APIXABAN	HEPARIN SODIUM,PORCINE IN 0.9 % SODIUM CHLORIDE
DABIGATRAN ETEXILATE MESYLATE	HEPARIN SODIUM,PORCINE IN 0.9 % SODIUM CHLORIDE/PF
DALTEPARIN SODIUM,PORCINE	HEPARIN SODIUM,PORCINE/DEXTROSE 5 % IN WATER
EDOXABAN TOSYLATE	HEPARIN SODIUM,PORCINE/DEXTROSE 5 % IN WATER/PF
ENOXAPARIN SODIUM	HEPARIN SODIUM,PORCINE/PF
FONDAPARINUX SODIUM	RIVAROXABAN
HEPARIN SODIUM,BEEF	TINZAPARIN SODIUM,PORCINE
HEPARIN SODIUM,PORCINE	WARFARIN SODIUM
HEPARIN SODIUM,PORCINE IN 0.45 % SODIUM CHLORIDE	

Antiplatelet agents

NDC Generic Name	
ABCIXIMAB	CILOSTAZOL
ASPIRIN	CINNAMEDRINE HCL/ASPIRIN/CAFFEINE
ASPIRIN (CALCIUM CARB & MAGNESIUM BUFFERS)/PRAVASTATIN	CLOPIDOGREL BISULFATE
ASPIRIN/ACETAMINOPHEN	CODEINE PHOSPHATE/BUTALBITAL/ASPIRIN/CAFFEINE
ASPIRIN/ACETAMINOPHEN/CAFFEINE	CODEINE PHOSPHATE/CARISOPRODOL/ASPIRIN
ASPIRIN/ACETAMINOPHEN/CAFFEINE/CALCIUM	CODEINE/ASPIRIN/SALICYLAMIDE/ACETAMINOPHEN/CAFFEINE
ASPIRIN/ACETAMINOPHEN/CAFFEINE/POTASSIUM	DIHYDROCODEINE BITARTRATE/ASPIRIN/CAFFEINE
ASPIRIN/ACETAMINOPHEN/CALCIUM CARBONATE	DIHYDROCODEINE/ASPIRIN/CAFFEINE
ASPIRIN/ACETAMINOPHEN/MAGNESIUM/ALUMINUM HYDROXIDE/CAFFEINE	DIPYRIDAMOLE
ASPIRIN/CAFFEINE	EPHEDRINE/ASPIRIN/ACETANILIDE/CAFFEINE
ASPIRIN/CALCIUM CARBONATE	HYDROCODONE BITARTRATE/ASPIRIN
ASPIRIN/CALCIUM CARBONATE/MAGNESIUM	METHOCARBAMOL/ASPIRIN
ASPIRIN/CALCIUM CARBONATE/MAGNESIUM/ALUMINUM HYDROXIDE	ORPHENADRINE CITRATE/ASPIRIN/CAFFEINE
ASPIRIN/CODEINE PHOSPHATE	OXYCODONE HCL/ASPIRIN
ASPIRIN/DIPHENHYDRAMINE CITRATE	OXYCODONE HCL/OXYCODONE TEREPHTHALATE/ASPIRIN
ASPIRIN/DIPHENHYDRAMINE HCL	OXYCODONE/ASPIRIN
ASPIRIN/DIPHENHYDRAMINE/SODIUM BICARBONATE/CITRIC ACID	PENTAZOCINE HCL/ASPIRIN
ASPIRIN/DIPYRIDAMOLE	PHENYLEPHRINE HCL/ASPIRIN
ASPIRIN/MAGNESIUM CARBONATE/DIHYDROXYALUMINUM AMINOACETAT	PHENYLPROPANOLAMINE BITARTRATE/ASPIRIN
ASPIRIN/MAGNESIUM HYDROXIDE/ALUMINUM HYDROXIDE	PHENYLPROPANOLAMINE BITARTRATE/ASPIRIN/CHLORPHENIRAMINE
ASPIRIN/MAGNESIUM HYDROXIDE/ALUMINUM HYDROXIDE/CAFFEINE	PHENYLPROPANOLAMINE HCL/ASPIRIN
ASPIRIN/MEPROBAMATE	PHENYLPROPANOLAMINE HCL/ASPIRIN/CHLORPHENIRAMINE
ASPIRIN/SALICYLAMIDE/ACETAMINOPHEN/CAFFEINE	PHENYLPROPANOLAMINE HCL/ASPIRIN/CHLORPHENIRAMINE/CAFFEINE
ASPIRIN/SALICYLAMIDE/CAFFEINE	PHENYLPROPANOLAMINE HCL/ASPIRIN/DIPHENHYDRAMINE
ASPIRIN/SODIUM BICARBONATE/CITRIC ACID	PRASUGREL HCL
BUTALBITAL/ASPIRIN/CAFFEINE	PROPOXYPHENE HCL/ASPIRIN/CAFFEINE
CARISOPRODOL/ASPIRIN	PSEUDOEPHEDRINE HCL/ASPIRIN/CHLORPHENIRAMINE
CHLORPHENIRAMINE MAL/PHENYLEPHRINE/D-METHORPHAN HB/ASPIRIN	TICAGRELOR
CHLORPHENIRAMINE MALEATE/PHENYLEPHRINE BITARTRATE/ASPIRIN	VORAPAXAR SULFATE
NDC Brand Name	
ARTHRITIS PAIN	BAYER ASPIRIN
ARTHRITIS PAIN FORMULA	BAYER ASPIRIN MAXIMUM
ARTHRITIS PAIN FORMULA A-F	ECOTRIN
ARTHRITIS PAIN RELIEF	ECOTRIN MAXIMUM STRENGTH
ARTHRITIS PAIN RELIEVER	MAPAP ARTHRITIS PAIN
BAYER ARTHRITIS PAIN REGIMEN	PLAVIX

Angiotensin II Receptor Blockers

NDC Generic Name	
ALISKIREN/VALSARTAN	LOSARTAN POTASSIUM
AMLODIPINE BESYLATE/OLMESARTAN MEDOXOMIL	LOSARTAN POTASSIUM/HYDROCHLOROTHIAZIDE
AMLODIPINE BESYLATE/VALSARTAN	OLMESARTAN MEDOXOMIL
AMLODIPINE BESYLATE/VALSARTAN/HYDROCHLOROTHIAZIDE	OLMESARTAN MEDOXOMIL/AMLODIPINE BESYLATE/HYDROCHLOROTHIAZIDE
AZILSARTAN MEDOXOMIL	OLMESARTAN MEDOXOMIL/HYDROCHLOROTHIAZIDE
AZILSARTAN MEDOXOMIL/CHLORTHALIDONE	TELMISARTAN
CANDESARTAN CILEXETIL	TELMISARTAN/AMLODIPINE BESYLATE
CANDESARTAN CILEXETIL/HYDROCHLOROTHIAZIDE	TELMISARTAN/HYDROCHLOROTHIAZIDE
IRBESARTAN	VALSARTAN

Appendix A

Comedications

IRBESARTAN/HYDROCHLOROTHIAZIDE	VALSARTAN/HYDROCHLOROTHIAZIDE
NDC Brand Name	
AMLODIPINE-VALSARTAN	EXFORGE HCT
ATACAND	HYZAAR
ATACAND HCT	IRBESARTAN
AVALIDE	IRBESARTAN-HYDROCHLOROTHIAZIDE
AVAPRO	LOSARTAN POTASSIUM
AZOR	LOSARTAN-HYDROCHLOROTHIAZIDE
BENICAR	MICARDIS
BENICAR HCT	MICARDIS HCT
CANDESARTAN CILEXETIL	TELMISARTAN
CANDESARTAN-HYDROCHLOROTHIAZIDE	TELMISARTAN-AMLODIPINE
COZAAR	TELMISARTAN-HYDROCHLOROTHIAZIDE
DIOVAN	TRIBENZOR
DIOVAN HCT	TWYNSTA
EDARBI	VALSARTAN
EDARBYCLOR	VALSARTAN-HYDROCHLOROTHIAZIDE
EXFORGE	VALTURNA

Angiotensin Converting Enzyme inhibitors

NDC Generic Name	
AMLODIPINE BESYLATE/BENAZEPRIL HCL	LISINOPRIL
BENAZEPRIL HCL	LISINOPRIL/HYDROCHLOROTHIAZIDE
BENAZEPRIL HCL/HYDROCHLOROTHIAZIDE	MOEXIPRIL HCL
CAPTOPRIL	MOEXIPRIL HCL/HYDROCHLOROTHIAZIDE
CAPTOPRIL/HYDROCHLOROTHIAZIDE	PERINDOPRIL ERBUMINE
ENALAPRIL MALEATE	QUINAPRIL HCL
ENALAPRIL MALEATE/FELODIPINE	QUINAPRIL HCL/HYDROCHLOROTHIAZIDE
ENALAPRIL MALEATE/HYDROCHLOROTHIAZIDE	RAMIPRIL
ENALAPRILAT DIHYDRATE	TRANDOLAPRIL
FOSINOPRIL SODIUM	TRANDOLAPRIL/VERAPAMIL HCL
FOSINOPRIL SODIUM/HYDROCHLOROTHIAZIDE	
NDC Brand Name	
ACCUPRIL	LOTREL
ACCURETIC	LYTENSOPRIL
ACEON	LYTENSOPRIL-90
ALTACE	MAVIK
AMLODIPINE BESYLATE-BENAZEPRIL	MOEXIPRIL HCL
BENAZEPRIL HCL	MOEXIPRIL-HYDROCHLOROTHIAZIDE
BENAZEPRIL HCL-HCTZ	MONOPRIL
BENAZEPRIL-HYDROCHLOROTHIAZIDE	MONOPRIL HCT
CAPOTEN	PERINDOPRIL ERBUMINE
CAPOZIDE	PRINIVIL
CAPTOPRIL	PRINZIDE
CAPTOPRIL-HYDROCHLOROTHIAZIDE	QUINAPRIL
CAPTOPRIL/HYDROCHLOROTHIAZIDE	QUINAPRIL HCL
ENALAPRIL MALEATE	QUINAPRIL-HYDROCHLOROTHIAZIDE
ENALAPRIL MALEATE-HCTZ	QUINARETIC
ENALAPRIL MALEATE/HCTZ	RAMIPRIL
ENALAPRIL-HYDROCHLOROTHIAZIDE	TARKA
ENALAPRILAT	TRANDOLAPRIL
EPANED	TRANDOLAPRIL-VERAPAMIL
FOSINOPRIL SODIUM	UNIRETIC
FOSINOPRIL-HYDROCHLOROTHIAZIDE	UNIVASC
LEXCEL	VASERETIC
LISINOPRIL	VASOTEC
LISINOPRIL-HCTZ	VASOTEC I.V.
LISINOPRIL-HYDROCHLOROTHIAZIDE	ZESTORETIC
LOTENSIN	ZESTRIL
LOTENSIN HCT	

Beta blockers

NDC Generic Name	
ACEBUTOLOL HCL	ESMOLOL HCL
ATENOLOL	LABETALOL HCL
ATENOLOL/CHLORTHALIDONE	METOPROLOL SUCCINATE
BETAXOLOL HCL	METOPROLOL SUCCINATE/HYDROCHLOROTHIAZIDE
BISOPROLOL FUMARATE	METOPROLOL TARTRATE

Appendix A Comedications

BISOPROLOL FUMARATE/HYDROCHLOROTHIAZIDE	METOPROLOL TARTRATE/HYDROCHLOROTHIAZIDE
BRIMONIDINE TARTRATE/TIMOLOL MALEATE	NEBIVOLOL HCL
CARTEOLOL HCL	SOTALOL HCL
CARVEDILOL	TIMOLOL
CARVEDILOL PHOSPHATE	TIMOLOL MALEATE
DORZOLAMIDE HCL/TIMOLOL MALEATE	TIMOLOL MALEATE/HYDROCHLOROTHIAZIDE
DORZOLAMIDE HCL/TIMOLOL MALEATE/PF	TIMOLOL MALEATE/PF
NDC Brand Name	
ACEBUTOLOL HCL	ISTALOL
ATENOLOL	KERLONE
ATENOLOL W/CHLORTHALIDONE	LABETALOL HCL
ATENOLOL-CHLORTHALIDONE	LOPRESSOR
BETAPACE	LOPRESSOR HCT
BETAPACE AF	METOPROLOL SUCCINATE
BETAXOLOL HCL	METOPROLOL TARTRATE
BETIMOL	METOPROLOL-HYDROCHLOROTHIAZIDE
BETOPTIC	NORMODYNE
BETOPTIC S	OCUPRESS
BISOPROLOL FUMARATE	SECTRAL
BISOPROLOL FUMARATE-HCTZ	SENORMIN
BISOPROLOL FUMARATE/HCTZ	SORINE
BISOPROLOL-HYDROCHLOROTHIAZIDE	SOTALOL
BLOCADREN	SOTALOL AF
BREVIBLOC	SOTALOL HCL
BYSTOLIC	TENORETIC 100
CARTEOLOL HCL	TENORETIC 50
CARTROL	TENORMIN
CARVEDILOL	TENORMIN CALENDAR PAK
COMBIGAN	TIMOLIDE
COREG	TIMOLOL MALEATE
COREG CR	TIMOPTIC
COSOPT	TIMOPTIC OCUDOSE
COSOPT PF	TIMOPTIC-XE
DORZOLAMIDE-TIMOLOL	TOPROL XL
DUTOPROL	TRANDATE
ESMOLOL HCL	ZEBETA
HYPERTENSOLOL	ZIAC

Calcium channel blockers

HCPCS

C9248	
NDC Generic Name	
ALISKIREN HEMIFUMARATE/AMLODIPINE BESYLATE	BEPRIDIL HCL
ALISKIREN HEMIFUMARATE/AMLODIPINE/HYDROCHLOROTHIAZIDE	CLEVIDIPINE BUTYRATE
AMLODIPINE BESYLATE	DILTIAZEM HCL
AMLODIPINE BESYLATE/ATORVASTATIN CALCIUM	DILTIAZEM HCL IN 0.9 % SODIUM CHLORIDE
AMLODIPINE BESYLATE/BENAZEPRIL HCL	DILTIAZEM HCL/DEXTROSE 5 % IN WATER
AMLODIPINE BESYLATE/OLMESARTAN MEDOXOMIL	DILTIAZEM MALATE
AMLODIPINE BESYLATE/VALSARTAN	ENALAPRIL MALEATE/FELODIPINE
AMLODIPINE BESYLATE/VALSARTAN/HYDROCHLOROTHIAZIDE	
NDC Brand Name	
ADALAT	ISOPTIN
ADALAT CC	ISOPTIN SR
AFEDITAB CR	ISRADIPINE
AMLODIPINE BESILATE	LEXCEL
AMLODIPINE BESYLATE	LOTREL
AMLODIPINE BESYLATE-BENAZEPRIL	MATZIM LA
AMLODIPINE-ATORVASTATIN	NICARDIPINE HCL
AMLODIPINE-VALSARTAN	NICARDIPINE HCL-D5W
AMTURNIDE	NIFEDAC CC
AZOR	NIFEDICAL XL
CADUET	NIFEDIPINE
CALAN	NIFEDIPINE ER
CALAN SR	NIFEDIPINE XL
CARDENE	NIMODIPINE
CARDENE I.V.	NIMOTOP
CARDENE SR	NISOLDIPINE
CARDIZEM	NORVASC

Appendix A Comedications

CARDIZEM CD	NYMALIZE
CARDIZEM LA	PLENDIL
CARDIZEM SR	POSICOR
CARTIA XT	PROCARDIA
CLEVIPREX	PROCARDIA XL
COVERA-HS	SULAR
DILACOR XR	TARKA
DILT-CD	TAZTIA XT
DILT-XR	TEKAMLO
DILTIA XT	TELMISARTAN-AMLODIPINE
DILTIAZEM 24HR CD	TIAMATE
DILTIAZEM 24HR ER	TIAZAC
DILTIAZEM ER	TRANDOLAPRIL-VERAPAMIL
DILTIAZEM HCL	TRIBENZOR
DILTIAZEM HCL-NS	TWYNSTA
DILTIAZEM XR	VASCOR
DILTIAZEM-D5W	VERAPAMIL ER
DILTZAC ER	VERAPAMIL ER PM
DYNACIRC	VERAPAMIL HCL
DYNACIRC CR	VERAPAMIL SR
EXFORGE	VERELAN
EXFORGE HCT	VERELAN PM
FELODIPINE ER	

Diuretics

NDC Generic Name	
AMILORIE HCL	HYDROCHLOROTHIAZIDE
AMILORIE HCL/HYDROCHLOROTHIAZIDE	HYDROFLUMETHIAZIDE
BENDROFLUMETHIAZIDE	INDAPAMIDE
BUMETANIDE	METHYCLOTHIAZIDE
CHLOROTHIAZIDE	METOLAZONE
CHLORTHALIDONE	POLYTHIAZIDE
EPLERENONE	SPIRONOLACTONE
ETHACRYNATE SODIUM	TORSEMIDE
ETHACRYNIC ACID	TRIAMTERENE
FUROSEMIDE	TRICHLORMETHIAZIDE

Nitrates

NDC Generic Name	
ISOSORBIDE DINITRATE	NITROGLYCERIN
ISOSORBIDE DINITRATE/HYDRAZINE HCL	NITROGLYCERIN/DEXTROSE 5 % IN WATER
ISOSORBIDE MONONITRATE	RANOLAZINE
NDC Brand Name	
ANG-O-SPAN	NITRO-TRANS SYSTEM
ANGINABID	NITRO-TRANSDERMAL
BIDIL	NITRO-TRANSDERMAL SYSTEM
CARDABID	NITROBART
DEPONIT	NITROCAP
DILATRATE-SR	NITROCINE
IMDUR	NITROCOT
ISD	NITRODISC
ISMO	NITROGARD
ISO-BID	NITROGLYCERIN
ISO-D	NITROGLYCERIN IN D5W
ISOCHRON	NITROGLYCERIN PATCH
ISODITRATE	NITROGLYCERIN T/R
ISONATE	NITROGLYN
ISONATE TR	NITROGLYCERIN
ISOR-BID	NITROL
ISORDIL	NITROLINGUAL
ISORDIL TITRADOSE	NITROMED
ISOREX-10	NITROMIST
ISOREX-2.5	NITRONAL
ISOREX-5	NITRONG
ISOSORBIDE DINITRATE	NITROQUICK
ISOSORBIDE MONONITRATE	NITROREX
ISOSORBIDE MONONITRATE ER	NITROSPAN
ISOTRATE	NITROSTAT

Appendix A Comedications

ISOTRATE ER	NITROSTAT IV
KENSORBIDE	NITROSTAT SR
LEMOTRATE	NITROTAB
MI-TRATES 2.5	NITROTUM
MI-TRATES 6.5	NTG
MINITRAN	NTS
MONOKET	ONSET-10
N-G-C	ONSET-5
N.T.S.	RANEXA
NITREK	RECTIV
NITRO	SORATE-2.5
NITRO MAST TIMED RELEASE	SORATE-40
NITRO S.A.	SORATE-5
NITRO T.D.	SORBATE-10
NITRO TRANSDERM	SORBATE-5
NITRO TRANSDERMAL	SORBIDE
NITRO-BID	SORBITRATE
NITRO-BID IV	SORBITRATE SA
NITRO-CAPS TIME DOSE	TRANSFORM-NITRO
NITRO-DUR	TRATES
NITRO-PAR	TRIDIL
NITRO-TD-ACA	WF-NITRO
NITRO-TIME	

Lipid lowering drugs

NDC Generic Name	
AMLODIPINE BESYLATE/ATORVASTATIN CALCIUM	METHYLTETRAHYDROFOLATE GLUCOSAMINE/NIACINAMIDE/CUPRIC &ZN OX
ARGININE/NIACIN/YOHIMBE BARK/GINSENG/GNK/DAMIANA/SCHISANDRA	NIACIN
ATORVASTATIN CALCIUM	NIACIN (INOSITOL NIACINATE)
BETA-CAROTENE(A) W-C & E/NIACINAMIDE/VIT B2/LUT/MIN/GLU-ONE	NIACIN/CAPSAICIN/YOHIMBE BARK/GINSENG/GNK BI EX/DAMIANA/OATS
CERAMIDES 1,3,6-11/NIACINAMIDE	NIACIN/LOVASTATIN
CERAMIDES 1,3,6-11/NIACINAMIDE/HYALURONIC ACID	NIACIN/SIMVASTATIN
CHOLESTYRAMINE	NIACINAMIDE
CHOLESTYRAMINE (WITH SUGAR)	NIACINAMIDE ASCORBATE
CHOLESTYRAMINE/ASPARTAME	NIACINAMIDE/AZELAIC ACID/ZINC OXIDE/VIT B6/COPPER/FA
COLESEVELAM HCL	NIACINAMIDE/RIBOFLAVIN/BETA-CAROTENE(A) W-C & E/MINERALS
COLESTIPOL HCL	NIACINAMIDE/VIT B6/VIT C/FA/COPPER/MG CIT/ZN GLUC/ALIP ACID
EZETIMIBE	PECTIN/INOSITOL/BIOFLAVONOIDS/NIACIN/SOYBEAN
EZETIMIBE/ATORVASTATIN CALCIUM	PITAVASTATIN CALCIUM
EZETIMIBE/SIMVASTATIN	POLICOSANOL/INOSITOL NIACINATE/GARLIC
FENOFIBRATE	PRAVASTATIN SODIUM
FENOFIBRATE NANOCRYSTALLIZED	ROSUVASTATIN CALCIUM
FENOFIBRATE,MICRONIZED	SIMVASTATIN
FLUVASTATIN SODIUM	SITAGLIPTIN PHOSPHATE/SIMVASTATIN
FOLIC ACID/NIACINAMIDE/CUPRIC OXIDE/ZINC OXIDE	THIAMINE HCL/RIBOFLAVIN/NIACINAMIDE/CYANOCOBALAMIN/PROTEASE
FOLIC ACID/NIACINAMIDE/ZINC	THIAMINE HCL/RIBOFLAVIN/NIACINAMIDE/DEXPANTHENOL/PYRIDOXINE
GEMFIBROZIL	THIAMINE M.NIT/RIBOFLAVIN/NIACIN/CA PANTOTHENATE/B6/B12/C/FA
INOSITOL NIACINATE	THIAMINE/RIBOFLAVIN/NIACIN/CA PANTOTHENATE/B6/B12/VIT C/FA
IRON FUMARATE & POLYSAC COMP/FOLIC ACID/VITAMIN C/NIACIN	THIAMINE/RIBOFLAVIN/NIACIN/CA PANTOTHENATE/VIT B6/B12/IRON
IRON FUMARATE & POLYSAC COMP/VITAMIN C/NIACIN	THIAMINE/RIBOFLAVIN/NIACIN/PANT ACID/B6/IRON/METHION/CHOLINE
IRON PYROPHOSPHATE/CYANOCOBALAMIN/FA/NIACIN/PYRIDOXINE HCL	VIT B2/NIACINAMIDE/PYRIDOXINE HCL/CYANOCOBALAMIN/D-PANTHENOL
LECITHIN/SITOSTEROLS/NIACIN/BETAINE/CHITOSAN	VIT C/PYRIDOXINE HCL/NIACIN/FA/VIT B12/HERBAL COMPLEX NO.192
LOVASTATIN	VITAMIN B COMPLEX NO.12/NIACINAMIDE
LYSINE HCL/NIACINAMIDE/THIAMINE	VITAMIN B COMPLEX/NIACINAMIDE/PANTOTHENIC ACID/HERBAL DRUGS
MELATONIN/TRYPHTOPHAN/VALERIAN/CHAMOMILE/NIACIN/INOSITOL/B6	

Non-insulin diabetes medications

NDC Generic Name	
ACARBOSE	MIGLITOL
ACETOHEXAMIDE	NATEGLINIDE
ALOGLIPTIN BENZOATE	PIOGLITAZONE HCL
ALOGLIPTIN BENZOATE/METFORMIN HCL	PIOGLITAZONE HCL/GLIMEPIRIDE
ALOGLIPTIN BENZOATE/PIOGLITAZONE HCL	PIOGLITAZONE HCL/METFORMIN HCL
CANAGLIFLOZIN/METFORMIN HCL	REPAGLINIDE
CHLORPROPAMIDE	REPAGLINIDE/METFORMIN HCL
GLIMEPIRIDE	ROSIGLITAZONE MALEATE
GLIPIZIDE	ROSIGLITAZONE MALEATE/GLIMEPIRIDE
GLIPIZIDE/METFORMIN HCL	ROSIGLITAZONE MALEATE/METFORMIN HCL

Appendix A Comedications

GLYBURIDE	SAXAGLIPTIN HCL
GLYBURIDE/METFORMIN HCL	SAXAGLIPTIN HCL/METFORMIN HCL
LINAGLIPTIN	SITAGLIPTIN PHOSPHATE
LINAGLIPTIN/METFORMIN HCL	SITAGLIPTIN PHOSPHATE/METFORMIN HCL
METFORMIN HCL	SITAGLIPTIN PHOSPHATE/SIMVASTATIN
METFORMIN/AMINO ACIDS COMB. #7/HERBAL COMB.#125/CHOLINE	TOLAZAMIDE
METFORMIN/CAFFEINE/AMINO ACIDS#7/HERBAL COMB#125/CHOLINE BIT	TOLBUTAMIDE
NDC Brand Name	
ACARBOSE	ICN-TOLAM
ACETOHEXAMIDE	INSULASE
ACTOPLUS MET	INVOKAMET
ACTOPLUS MET XR	JANUMET
ACTOS	JANUMET XR
AMARYL	JANUVIA
APPPFORMIN	JENTADUETO
APPPFORMIN-D	JUVISYNC
AVANDAMET	KAZANO
AVANDARYL	KOMBIGLYZE XR
AVANDIA	METAGLIP
CHLORABETIC 250	METFORMIN HCL
CHLORPROPAMIDE	METFORMIN HCL ER
DIABETA	MICRONASE
DIABINESE	NATEGLINIDE
DIBATROL	NESINA
DUETACT	ONGLYZA
DYMELOR	ORIBETIC
FORTAMET	ORINASE
GLIMEPIRIDE	OSENI
GLIPIZIDE	PIOGLITAZONE HCL
GLIPIZIDE ER	PIOGLITAZONE-GLIMEPIRIDE
GLIPIZIDE XL	PIOGLITAZONE-METFORMIN
GLIPIZIDE-METFORMIN	PRANDIMET
GLUCAMIDE	PRANDIN
GLUCOPHAGE	PRECOSE
GLUCOPHAGE XR	REPAGLINIDE
GLUCOTROL	RIOMET
GLUCOTROL XL	RONASE
GLUCOVANCE	SK-TOLBUTAMIDE
GLUMETZA	STARLIX
GLYBURIDE	TOLAMIDE
GLYBURIDE MICRONIZED	TOLAZAMIDE
GLYBURIDE-METFORMIN HCL	TOLBUTAMIDE
GLYCRON	TOLINASE
GLYNASE	TRADJENTA
GLYSET	

Insulin

HCPCS

A4230	S5553
A4231	S5560
A4232	S5561
A9274	S5566
E0784	S5570
J1815	S5571
J1817	S8490
S5550	S9145
S5551	S9353
S5552	

NDC Generic Name

INSULIN ASPART	INSULIN NPH HUMAN SEMI-SYN
INSULIN ASPART PROTAMINE HUMAN/INSULIN ASPART	INSULIN REG HUMAN SEMI-SYN
INSULIN DETEMIR	INSULIN ZINC BEEF
INSULIN GLULISINE	INSULIN ZINC EXTEND HUMAN REC
INSULIN LISPRO	INSULIN ZINC HUMAN REC
INSULIN LISPRO PROTAMINE & INSULIN LISPRO	INSULIN ZINC HUMAN SEMI-SYN

NDC Brand Name

APIDRA	INSULIN LENTE PURIFIED PORK
APIDRA SOLOSTAR	INSULIN N PURIFIED PORK

Appendix A Comedications

EXUBERA COMBINATION PACK 12	INSULIN NPH BEEF
EXUBERA COMBINATION PACK 15	INSULIN NPH PURIFIED PORK
EXUBERA KIT	INSULIN R PORK PURIFIED
EXUBERA PATIENT PACK	INSULIN R PURIFIED PORK
HUMALOG	INSULIN REGULAR PORK
HUMALOG MIX 50-50	INSULIN REGULAR PURIFIED PORK
HUMALOG MIX 50/50	ISOPHANE INSULIN BEEF
HUMALOG MIX 75-25	ISOPHANE PURIFIED BEEF INSULIN
HUMULIN 50-50	LANTUS
HUMULIN 70-30	LANTUS SOLOSTAR
HUMULIN 70/30	LENTE INSULIN BEEF
HUMULIN 70/30 KWIKPEN	LEVEMIR
HUMULIN BR	LEVEMIR FLEXPEN
HUMULIN L	LEVEMIR FLEXTOUCH
HUMULIN N	MONOTARD HUMAN LENTE
HUMULIN N KWIKPEN	NOVOLIN 70-30
HUMULIN R	NOVOLIN 70-30 INNOLET
HUMULIN U	NOVOLIN 70/30
ILETIN I LENTE	NOVOLIN L
ILETIN I NPH	NOVOLIN N
ILETIN I REGULAR	NOVOLIN N INNOLET
ILETIN I SEMILENTE	NOVOLIN R
ILETIN I ULTRALENTE	NOVOLOG
ILETIN II LENTE(BEEF)	NOVOLOG FLEXPEN
ILETIN II LENTE(PORK)	NOVOLOG MIX 70-30
ILETIN II NPH(BEEF)	NOVOLOG MIX 70-30 FLEXPEN
ILETIN II NPH(PORK)	PROTAMINE ZINC INSULIN BEEF
ILETIN II REGULAR(BEEF)	PURIFIED BEEF INSULIN ZINC
ILETIN II REGULAR(PORK)	PURIFIED PORK INSULIN
ILETIN II REGULAR(PORK)CONC	VELOSULIN HUMAN
INSULATARD HUMAN N	VELOSULIN HUMAN BR
INSULATARD N	VELOSULIN HUMAN R
INSULATARD NPH HUMAN	VELOSULIN R
INSULIN L PURIFIED PORK	ZINC
INSULIN LENTE BEEF	

Antidepressants

HCPCS	
J1320	
NDC Generic Name	
AMITRIPTYLINE HCL	IMIPRAMINE HCL
AMITRIPTYLINE HCL/CHLORDIAZEPOXIDE	IMIPRAMINE PAMOATE
AMOXAPINE	ISOCARBOXAZID
BUPROPION HBR	LEVOMILNACIPRAN HYDROCHLORIDE
BUPROPION HCL	MAPROTIline HCL
BUPROPION HCL/DIETARY SUPPLEMENT,MISC COMB15	MIRTAZAPINE
BUPROPION HCL/DIETARY SUPPLEMENT,MISC COMB16	NEFAZODONE HCL
CITALOPRAM HYDROBROMIDE	NORTRIPTYLINE HCL
CLOMIPRAMINE HCL	OLANZAPINE/FLUOXETINE HCL
DESIPRAMINE HCL	PAROXETINE HCL
DESVENLAFAXINE	PAROXETINE MESYLATE
DESVENLAFAXINE FUMARATE	PERPHENAZINE/AMITRIPTYLINE HCL
DESVENLAFAXINE SUCCINATE	PHENELZINE SULFATE
DOXEPIN HCL	PROTRIPTYLINE HCL
DULOXETINE HCL	SERTRALINE HCL
ESCITALOPRAM OXALATE	TRAZODONE HCL
FLUOXETINE	TRAZODONE HCL/DIETARY SUPPLEMENT,MISC.COMB08
FLUOXETINE HCL	TRIMIPRAMINE MALEATE
FLUOXETINE HCL/DIETARY SUPPLEMENT,MISC COMB17	VENLAFAXINE HCL
FLUOXETINE HCL/DIETARY SUPPLEMENT,MISC.COMB08	VILAZODONE HYDROCHLORIDE
FLUVOXAMINE MALEATE	VORTIOXETINE HYDROBROMIDE
NDC Brand Name	
ADAPIN	LIMBITROL DS
AMITID	LUDIOMIL
AMITRIPTYLINE HCL	LUVOX
AMITRIPTYLINE W/PERPHENAZINE	LUVOX CR
AMITRIPTYLINE-CHLORDIAZEPOXIDE	MAPROTIline HCL
AMITRIPTYLINE-PERPHENAZINE	MARPLAN

Appendix A Comedications

AMITRIPTYLINE/CHLORDIAZEPOXIDE	MIRTAZAPINE
AMOXAPINE	MIRTAZAPINE ANHYDROUS
ANAFRANIL	NARDIL
APLENZIN	NEFAZODONE HCL
APPBUTAMONE	NORFRANIL
APPBUTAMONE-D	NORPRAMIN
ASENDIN	NORTRIPTYLINE HCL
AVENTYL HCL	OLANZAPINE-FLUOXETINE HCL
BRINTELLIX	OLEPTRO ER
BRISDELLE	PAMELOR
BUDEPRION SR	PAROXETINE HCL
BUDEPRION XL	PAXIL
BUPROBAN	PAXIL CR
BUPROPION HCL	PER-TRIP
BUPROPION HCL ER	PERPHENAZINE-AMITRIPTYLINE
BUPROPION HCL SR	PEXEVA
BUPROPION XL	PHENELZINE SULFATE
CELEXA	PRISTIQ ER
CHLORDIAZEPOXIDE-AMITRIPTYLINE	PROTRIPTYLINE HCL
CITALOPRAM	PROZAC
CITALOPRAM HBR	PROZAC WEEKLY
CLOMIPRAMINE HCL	PRUDOXIN
CYMBALTA	Q.E.L
DECONIL	RAPIFLUX
DESIPRAMINE HCL	RE-LIVE
DESVENLAFAXINE ER	REMERON
DESVENLAFAXINE FUMARATE ER	SARAFEM
DESYREL	SELFEMRA
DOXEPIN HCL	SENTROXATINE
DULOXETINE HCL	SERTRALINE HCL
E-VILL 10	SERZONE
E-VILL 100	SILENOR
E-VILL 25	SINEQUAN
E-VILL 50	SK-AMITRIPTYLINE
E-VILL 75	SK-PRAMINE
EFFEXOR	STABANIL
EFFEXOR XR	SURMONTIL
ELAVIL	SYMBYAX
EMITRIP	TOFRANIL
ENDEP	TOFRANIL-PM
ENOVIL	TRAZAMINE
ESCITALOPRAM OXALATE	TRAZODONE HCL
ETNOFRIL	TRIAVIL 10-2
ETRAFON 2-10	TRIAVIL 2-10
ETRAFON 2-25	TRIAVIL 2-25
ETRAFON A 4-10	TRIAVIL 25-2
ETRAFON FORTE 4-25	TRIAVIL 25-4
FETZIMA	TRIAVIL 4-10
FLUOXETINE DR	TRIAVIL 4-25
FLUOXETINE HCL	TRIAVIL 4-50
FLUVOXAMINE MALEATE	TRIMIPRAMINE MALEATE
FLUVOXAMINE MALEATE ER	VANATRIP
FORFIVO XL	VENLAFAXINE HCL
GABOXETINE	VENLAFAXINE HCL ER
IMAVATE	VIIBRYD
IMIPRAMINE HCL	VIVACTIL
IMIPRAMINE PAMOATE	WELLBUTRIN
JANIMINE	WELLBUTRIN SR
KENVIL	WELLBUTRIN XL
KHEDEZLA	ZOLOFT
LEXAPRO	ZONALON
LIMBITROL	ZYBAN

Appendix A

Comorbid conditions

Atrial Fibrillation

ICD10 Dx	ICD9 Dx	LongDeslCD10	LongDeslCD9
1480	42731	Paroxysmal atrial fibrillation	ATRIAL FIBRILLATION
1481		Persistent atrial fibrillation	
1482		Chronic atrial fibrillation	
14891		Unspecified atrial fibrillation	

Heart Failure

ICD10 Dx	ICD9 Dx	LongDeslCD10	LongDeslCD9
I0981	39891	Rheumatic heart failure	RHEUMATIC HEART FAILURE (CONGESTIVE)
I110	40201	Hypertensive heart disease with heart failure	MALIGNANT HYPERTENSIVE HEART DISEASE WITH HEART FAILURE
I130	40211	Hypertensive heart and chronic kidney disease with heart failure and stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	BENIGN HYPERTENSIVE HEART DISEASE WITH HEART FAILURE
I132	40291	Hypertensive heart and chronic kidney disease with heart failure and with stage 5 chronic kidney disease, or end stage renal disease	UNSPECIFIED HYPERTENSIVE HEART DISEASE WITH HEART FAILURE
I501	40401	Left ventricular failure	HYPERTENSIVE HEART AND CHRONIC KIDNEY DISEASE MALIGNANT WITH HEART FAILURE WITH CHRONIC KIDNEY DISEASE STAGE I THROUGH STAGE IV OR UNSPECIFIED
I5020	40403	Unspecified systolic (congestive) heart failure	HYPERTENSIVE HEART AND CHRONIC KIDNEY DISEASE MALIGNANT WITH HEART FAILURE WITH CHRONIC KIDNEY DISEASE STAGE V OR END STAGE RENAL DISEASE
I5021	40411	Acute systolic (congestive) heart failure	HYPERTENSIVE HEART AND CHRONIC KIDNEY DISEASE BENIGN WITH HEART FAILURE WITH CHRONIC KIDNEY DISEASE STAGE I THROUGH STAGE IV OR UNSPECIFIED
I5022	40413	Chronic systolic (congestive) heart failure	HYPERTENSIVE HEART AND CHRONIC KIDNEY DISEASE BENIGN WITH HEART FAILURE WITH CHRONIC KIDNEY DISEASE STAGE V OR END STAGE RENAL DISEASE
I5023	40491	Acute on chronic systolic (congestive) heart failure	HYPERTENSIVE HEART AND CHRONIC KIDNEY DISEASE UNSPECIFIED WITH HEART FAILURE WITH CHRONIC KIDNEY DISEASE STAGE I THROUGH STAGE IV OR UNSPECIFIED
I5030	40493	Unspecified diastolic (congestive) heart failure	HYPERTENSIVE HEART AND CHRONIC KIDNEY DISEASE UNSPECIFIED WITH HEART FAILURE WITH CHRONIC KIDNEY DISEASE STAGE V OR END STAGE RENAL DISEASE
I5031	428	Acute diastolic (congestive) heart failure	HEART FAILURE
I5032	4280	Chronic diastolic (congestive) heart failure	CONGESTIVE HEART FAILURE UNSPECIFIED
I5033	4281	Acute on chronic diastolic (congestive) heart failure	LEFT HEART FAILURE
I5040	4282	Unspecified combined systolic (congestive) and diastolic (congestive) heart failure	SYSTOLIC HEART FAILURE
I5041	42820	Acute combined systolic (congestive) and diastolic (congestive) heart failure	UNSPECIFIED SYSTOLIC HEART FAILURE
I5042	42821	Chronic combined systolic (congestive) and diastolic (congestive) heart failure	ACUTE SYSTOLIC HEART FAILURE
I5043	42822	Acute on chronic combined systolic (congestive) and diastolic (congestive) heart failure	CHRONIC SYSTOLIC HEART FAILURE
I509	42823	Heart failure, unspecified	ACUTE ON CHRONIC SYSTOLIC HEART FAILURE

Stroke or TIA

ICD10 Dx	ICD9 Dx	LongDeslCD10	LongDeslCD9
I6302	43301	Cerebral infarction due to thrombosis of basilar artery	Occlusion and stenosis of basilar artery with cerebral infarction
I6312	43301	Cerebral infarction due to embolism of basilar artery	Occlusion and stenosis of basilar artery with cerebral infarction
I6322	43301	Cerebral infarction due to unspecified occlusion or stenosis of basilar arteries	Occlusion and stenosis of basilar artery with cerebral infarction
I63031	43311	Cerebral infarction due to thrombosis of right carotid artery	Occlusion and stenosis of carotid artery with cerebral infarction
I63032	43311	Cerebral infarction due to thrombosis of left carotid artery	Occlusion and stenosis of carotid artery with cerebral infarction
I63033	43311	Cerebral infarction due to thrombosis of bilateral carotid arteries	Occlusion and stenosis of carotid artery with cerebral infarction

Appendix A
Comorbid conditions

I63039	43311	Cerebral infarction due to thrombosis of unspecified carotid artery	Occlusion and stenosis of carotid artery with cerebral infarction
I63131	43311	Cerebral infarction due to embolism of right carotid artery	Occlusion and stenosis of carotid artery with cerebral infarction
I63132	43311	Cerebral infarction due to embolism of left carotid artery	Occlusion and stenosis of carotid artery with cerebral infarction
I63133	43311	Cerebral infarction due to embolism of bilateral carotid arteries	Occlusion and stenosis of carotid artery with cerebral infarction
I63139	43311	Cerebral infarction due to embolism of unspecified carotid artery	Occlusion and stenosis of carotid artery with cerebral infarction
I63231	43311	Cerebral infarction due to unspecified occlusion or stenosis of right carotid arteries	Occlusion and stenosis of carotid artery with cerebral infarction
I63232	43311	Cerebral infarction due to unspecified occlusion or stenosis of left carotid arteries	Occlusion and stenosis of carotid artery with cerebral infarction
I63233	43311	Cerebral infarction due to unspecified occlusion or stenosis of bilateral carotid arteries	Occlusion and stenosis of carotid artery with cerebral infarction
I63239	43311	Cerebral infarction due to unspecified occlusion or stenosis of unspecified carotid arteries	Occlusion and stenosis of carotid artery with cerebral infarction
I63011	43321	Cerebral infarction due to thrombosis of right vertebral artery	Occlusion and stenosis of vertebral artery with cerebral infarction
I63012	43321	Cerebral infarction due to thrombosis of left vertebral artery	Occlusion and stenosis of vertebral artery with cerebral infarction
I63013	43321	Cerebral infarction due to thrombosis of bilateral vertebral arteries	Occlusion and stenosis of vertebral artery with cerebral infarction
I63019	43321	Cerebral infarction due to thrombosis of unspecified vertebral artery	Occlusion and stenosis of vertebral artery with cerebral infarction
I63111	43321	Cerebral infarction due to embolism of right vertebral artery	Occlusion and stenosis of vertebral artery with cerebral infarction
I63112	43321	Cerebral infarction due to embolism of left vertebral artery	Occlusion and stenosis of vertebral artery with cerebral infarction
I63113	43321	Cerebral infarction due to embolism of bilateral vertebral arteries	Occlusion and stenosis of vertebral artery with cerebral infarction
I63119	43321	Cerebral infarction due to embolism of unspecified vertebral artery	Occlusion and stenosis of vertebral artery with cerebral infarction
I63211	43321	Cerebral infarction due to unspecified occlusion or stenosis of right vertebral arteries	Occlusion and stenosis of vertebral artery with cerebral infarction
I63212	43321	Cerebral infarction due to unspecified occlusion or stenosis of left vertebral arteries	Occlusion and stenosis of vertebral artery with cerebral infarction
I63213	43321	Cerebral infarction due to unspecified occlusion or stenosis of bilateral vertebral arteries	Occlusion and stenosis of vertebral artery with cerebral infarction
I63219	43321	Cerebral infarction due to unspecified occlusion or stenosis of unspecified vertebral arteries	Occlusion and stenosis of vertebral artery with cerebral infarction
I6359	43331	Cerebral infarction due to unspecified occlusion or stenosis of other cerebral artery	Occlusion and stenosis of multiple and bilateral precerebral arteries with cerebral infarction
I6309	43381	Cerebral infarction due to thrombosis of other precerebral artery	Occlusion and stenosis of other specified precerebral artery with cerebral infarction
I6319	43381	Cerebral infarction due to embolism of other precerebral artery	Occlusion and stenosis of other specified precerebral artery with cerebral infarction
I6359	43381	Cerebral infarction due to unspecified occlusion or stenosis of other cerebral artery	Occlusion and stenosis of other specified precerebral artery with cerebral infarction
I6300	43391	Cerebral infarction due to thrombosis of unspecified precerebral artery	Occlusion and stenosis of unspecified precerebral artery with cerebral infarction
I6310	43391	Cerebral infarction due to embolism of unspecified precerebral artery	Occlusion and stenosis of unspecified precerebral artery with cerebral infarction
I6320	43391	Cerebral infarction due to unspecified occlusion or stenosis of unspecified precerebral arteries	Occlusion and stenosis of unspecified precerebral artery with cerebral infarction
I6329	43391	Cerebral infarction due to unspecified occlusion or stenosis of other precerebral arteries	Occlusion and stenosis of unspecified precerebral artery with cerebral infarction
I6330	43401	Cerebral infarction due to thrombosis of unspecified cerebral artery	Cerebral thrombosis with cerebral infarction
I63311	43401	Cerebral infarction due to thrombosis of right middle cerebral artery	Cerebral thrombosis with cerebral infarction

Appendix A
Comorbid conditions

I63312	43401	Cerebral infarction due to thrombosis of left middle cerebral artery	Cerebral thrombosis with cerebral infarction
I63313	43401	Cerebral infarction due to thrombosis of bilateral middle cerebral arteries	Cerebral thrombosis with cerebral infarction
I63319	43401	Cerebral infarction due to thrombosis of unspecified middle cerebral artery	Cerebral thrombosis with cerebral infarction
I63321	43401	Cerebral infarction due to thrombosis of right anterior cerebral artery	Cerebral thrombosis with cerebral infarction
I63322	43401	Cerebral infarction due to thrombosis of left anterior cerebral artery	Cerebral thrombosis with cerebral infarction
I63323	43401	Cerebral infarction due to thrombosis of bilateral anterior arteries	Cerebral thrombosis with cerebral infarction
I63329	43401	Cerebral infarction due to thrombosis of unspecified anterior cerebral artery	Cerebral thrombosis with cerebral infarction
I63331	43401	Cerebral infarction due to thrombosis of right posterior cerebral artery	Cerebral thrombosis with cerebral infarction
I63332	43401	Cerebral infarction due to thrombosis of left posterior cerebral artery	Cerebral thrombosis with cerebral infarction
I63333	43401	Cerebral infarction due to thrombosis of bilateral posterior arteries	Cerebral thrombosis with cerebral infarction
I63339	43401	Cerebral infarction due to thrombosis of unspecified posterior cerebral artery	Cerebral thrombosis with cerebral infarction
I63341	43401	Cerebral infarction due to thrombosis of right cerebellar artery	Cerebral thrombosis with cerebral infarction
I63342	43401	Cerebral infarction due to thrombosis of left cerebellar artery	Cerebral thrombosis with cerebral infarction
I63343	43401	Cerebral infarction due to thrombosis of bilateral cerebellar arteries	Cerebral thrombosis with cerebral infarction
I63349	43401	Cerebral infarction due to thrombosis of unspecified cerebellar artery	Cerebral thrombosis with cerebral infarction
I6339	43401	Cerebral infarction due to thrombosis of other cerebral artery	Cerebral thrombosis with cerebral infarction
I636	43401	Cerebral infarction due to cerebral venous thrombosis, nonpyogenic	Cerebral thrombosis with cerebral infarction
I6340	43411	Cerebral infarction due to embolism of unspecified cerebral artery	Cerebral embolism with cerebral infarction
I63411	43411	Cerebral infarction due to embolism of right middle cerebral artery	Cerebral embolism with cerebral infarction
I63412	43411	Cerebral infarction due to embolism of left middle cerebral artery	Cerebral embolism with cerebral infarction
I63413	43411	Cerebral infarction due to embolism of bilateral middle cerebral arteries	Cerebral embolism with cerebral infarction
I63419	43411	Cerebral infarction due to embolism of unspecified middle cerebral artery	Cerebral embolism with cerebral infarction
I63421	43411	Cerebral infarction due to embolism of right anterior cerebral artery	Cerebral embolism with cerebral infarction
I63422	43411	Cerebral infarction due to embolism of left anterior cerebral artery	Cerebral embolism with cerebral infarction
I63423	43411	Cerebral infarction due to embolism of bilateral anterior cerebral arteries	Cerebral embolism with cerebral infarction
I63429	43411	Cerebral infarction due to embolism of unspecified anterior cerebral artery	Cerebral embolism with cerebral infarction
I63431	43411	Cerebral infarction due to embolism of right posterior cerebral artery	Cerebral embolism with cerebral infarction
I63432	43411	Cerebral infarction due to embolism of left posterior cerebral artery	Cerebral embolism with cerebral infarction
I63433	43411	Cerebral infarction due to embolism of bilateral posterior cerebral arteries	Cerebral embolism with cerebral infarction
I63439	43411	Cerebral infarction due to embolism of unspecified posterior cerebral artery	Cerebral embolism with cerebral infarction
I63441	43411	Cerebral infarction due to embolism of right cerebellar artery	Cerebral embolism with cerebral infarction

Appendix A

Comorbid conditions

I63442	43411	Cerebral infarction due to embolism of left cerebellar artery	Cerebral embolism with cerebral infarction
I63443	43411	Cerebral infarction due to embolism of bilateral cerebellar arteries	Cerebral embolism with cerebral infarction
I63449	43411	Cerebral infarction due to embolism of unspecified cerebellar artery	Cerebral embolism with cerebral infarction
I6349	43411	Cerebral infarction due to embolism of other cerebral artery	Cerebral embolism with cerebral infarction
I6350	43491	Cerebral infarction due to unspecified occlusion or stenosis of unspecified cerebral artery	Cerebral artery occlusion, unspecified with cerebral infarction
I63511	43491	Cerebral infarction due to unspecified occlusion or stenosis of right middle cerebral artery	Cerebral artery occlusion, unspecified with cerebral infarction
I63512	43491	Cerebral infarction due to unspecified occlusion or stenosis of left middle cerebral artery	Cerebral artery occlusion, unspecified with cerebral infarction
I63513	43491	Cerebral infarction due to unspecified occlusion or stenosis of bilateral middle arteries	Cerebral artery occlusion, unspecified with cerebral infarction
I63519	43491	Cerebral infarction due to unspecified occlusion or stenosis of unspecified middle cerebral artery	Cerebral artery occlusion, unspecified with cerebral infarction
I63521	43491	Cerebral infarction due to unspecified occlusion or stenosis of right anterior cerebral artery	Cerebral artery occlusion, unspecified with cerebral infarction
I63522	43491	Cerebral infarction due to unspecified occlusion or stenosis of left anterior cerebral artery	Cerebral artery occlusion, unspecified with cerebral infarction
I63523	43491	Cerebral infarction due to unspecified occlusion or stenosis of bilateral anterior arteries	Cerebral artery occlusion, unspecified with cerebral infarction
I63529	43491	Cerebral infarction due to unspecified occlusion or stenosis of unspecified anterior cerebral artery	Cerebral artery occlusion, unspecified with cerebral infarction
I63531	43491	Cerebral infarction due to unspecified occlusion or stenosis of right posterior cerebral artery	Cerebral artery occlusion, unspecified with cerebral infarction
I63532	43491	Cerebral infarction due to unspecified occlusion or stenosis of left posterior cerebral artery	Cerebral artery occlusion, unspecified with cerebral infarction
I63533	43491	Cerebral infarction due to unspecified occlusion or stenosis of bilateral posterior arteries	Cerebral artery occlusion, unspecified with cerebral infarction
I63539	43491	Cerebral infarction due to unspecified occlusion or stenosis of unspecified posterior cerebral artery	Cerebral artery occlusion, unspecified with cerebral infarction
I63541	43491	Cerebral infarction due to unspecified occlusion or stenosis of right cerebellar artery	Cerebral artery occlusion, unspecified with cerebral infarction
I63542	43491	Cerebral infarction due to unspecified occlusion or stenosis of left cerebellar artery	Cerebral artery occlusion, unspecified with cerebral infarction
I63543	43491	Cerebral infarction due to unspecified occlusion or stenosis of bilateral cerebellar arteries	Cerebral artery occlusion, unspecified with cerebral infarction
I63549	43491	Cerebral infarction due to unspecified occlusion or stenosis of unspecified cerebellar artery	Cerebral artery occlusion, unspecified with cerebral infarction
I6359	43491	Cerebral infarction due to unspecified occlusion or stenosis of other cerebral artery	Cerebral artery occlusion, unspecified with cerebral infarction
I638	43491	Other cerebral infarction	Cerebral artery occlusion, unspecified with cerebral infarction
I639	43491	Cerebral infarction, unspecified	Cerebral artery occlusion, unspecified with cerebral infarction
I6789	436	Other cerebrovascular disease	Acute, but ill-defined, cerebrovascular disease
I6781	4371	Acute cerebrovascular insufficiency	Other generalized ischemic cerebrovascular disease
I6782	4371	Cerebral ischemia	Other generalized ischemic cerebrovascular disease
I6789	4371	Other cerebrovascular disease	Other generalized ischemic cerebrovascular disease
I679	4379	Cerebrovascular disease, unspecified	Unspecified cerebrovascular disease
ICD10 Dx	ICD9 Dx	LongDesiCD10	LongDesiCD9
I6000	430	Nontraumatic subarachnoid hemorrhage from unspecified carotid siphon and bifurcation	Subarachnoid hemorrhage
I6001	430	Nontraumatic subarachnoid hemorrhage from right carotid siphon and bifurcation	Subarachnoid hemorrhage
I6002	430	Nontraumatic subarachnoid hemorrhage from left carotid siphon and bifurcation	Subarachnoid hemorrhage
I6010	430	Nontraumatic subarachnoid hemorrhage from unspecified middle cerebral artery	Subarachnoid hemorrhage
I6011	430	Nontraumatic subarachnoid hemorrhage from right middle cerebral artery	Subarachnoid hemorrhage

Appendix A

Comorbid conditions

I6012	430	Nontraumatic subarachnoid hemorrhage from left middle cerebral artery	Subarachnoid hemorrhage
I602	430	Nontraumatic subarachnoid hemorrhage from anterior communicating artery	Subarachnoid hemorrhage
I6030	430	Nontraumatic subarachnoid hemorrhage from unspecified posterior communicating artery	Subarachnoid hemorrhage
I6031	430	Nontraumatic subarachnoid hemorrhage from right posterior communicating artery	Subarachnoid hemorrhage
I6032	430	Nontraumatic subarachnoid hemorrhage from left posterior communicating artery	Subarachnoid hemorrhage
I604	430	Nontraumatic subarachnoid hemorrhage from basilar artery	Subarachnoid hemorrhage
I6050	430	Nontraumatic subarachnoid hemorrhage from unspecified vertebral artery	Subarachnoid hemorrhage
I6051	430	Nontraumatic subarachnoid hemorrhage from right vertebral artery	Subarachnoid hemorrhage
I6052	430	Nontraumatic subarachnoid hemorrhage from left vertebral artery	Subarachnoid hemorrhage
I606	430	Nontraumatic subarachnoid hemorrhage from other intracranial arteries	Subarachnoid hemorrhage
I607	430	Nontraumatic subarachnoid hemorrhage from unspecified intracranial artery	Subarachnoid hemorrhage
I608	430	Other nontraumatic subarachnoid hemorrhage	Subarachnoid hemorrhage
I609	430	Nontraumatic subarachnoid hemorrhage, unspecified	Subarachnoid hemorrhage
I610	431	Nontraumatic intracerebral hemorrhage in hemisphere, subcortical	Intracerebral hemorrhage
I611	431	Nontraumatic intracerebral hemorrhage in hemisphere, cortical	Intracerebral hemorrhage
I612	431	Nontraumatic intracerebral hemorrhage in hemisphere, unspecified	Intracerebral hemorrhage
I613	431	Nontraumatic intracerebral hemorrhage in brain stem	Intracerebral hemorrhage
I614	431	Nontraumatic intracerebral hemorrhage in cerebellum	Intracerebral hemorrhage
I615	431	Nontraumatic intracerebral hemorrhage, intraventricular	Intracerebral hemorrhage
I616	431	Nontraumatic intracerebral hemorrhage, multiple localized	Intracerebral hemorrhage
I618	431	Other nontraumatic intracerebral hemorrhage	Intracerebral hemorrhage
I619	431	Nontraumatic intracerebral hemorrhage, unspecified	Intracerebral hemorrhage
I621	4320	Nontraumatic extradural hemorrhage	Nontraumatic extradural hemorrhage
I6200	4321	Nontraumatic subdural hemorrhage, unspecified	Subdural hemorrhage
I6201	4321	Nontraumatic acute subdural hemorrhage	Subdural hemorrhage
I6202	4321	Nontraumatic subacute subdural hemorrhage	Subdural hemorrhage
I6203	4321	Nontraumatic chronic subdural hemorrhage	Subdural hemorrhage
I629	4329	Nontraumatic intracranial hemorrhage, unspecified	Unspecified intracranial hemorrhage
ICD10 Dx	ICD9 Dx	LongDeslCD10	LongDeslCD9
Z8673	V1254	Personal history of transient ischemic attack (TIA), and cerebral infarction without residual deficits	Personal history of transient ischemic attack (TIA), and cerebral infarction without residual deficits
ICD10 Dx	ICD9 Dx	LongDeslCD10	LongDeslCD9
G450	435	Vertebro-basilar artery syndrome	TRANSIENT CEREBRAL ISCHEMIA
G451	4350	Carotid artery syndrome (hemispheric)	BASILAR ARTERY SYNDROME
G452	4351	Multiple and bilateral precerebral artery syndromes	VERTEBRAL ARTERY SYNDROME
G458	4352	Other transient cerebral ischemic attacks and related syndromes	SUBCLAVIAN STEAL SYNDROME
G459	4353	Transient cerebral ischemic attack, unspecified	VERTEBROBASILAR ARTERY SYNDROME
G460	4358	Middle cerebral artery syndrome	OTHER SPECIFIED TRANSIENT CEREBRAL ISCHEMIAS
G461	4359	Anterior cerebral artery syndrome	UNSPECIFIED TRANSIENT CEREBRAL ISCHEMIA
G462		Posterior cerebral artery syndrome	
I67841		Reversible cerebrovascular vasoconstriction syndrome	
I67848		Other cerebrovascular vasospasm and vasoconstriction	

Peripheral vascular disease

ICD10 Dx	ICD9 Dx	LongDeslCD10	LongDeslCD9
I70201	44020	Unspecified atherosclerosis of native arteries of extremities, right leg	ATHEROSCLEROSIS OF NATIVE ARTERIES OF THE EXTREMITIES UNSPECIFIED

Appendix A
Comorbid conditions

I70202	44021	Unspecified atherosclerosis of native arteries of extremities, left leg	ATHEROSCLEROSIS OF NATIVE ARTERIES OF THE EXTREMITIES WITH INTERMITTENT CLAUDICATION
I70203	44022	Unspecified atherosclerosis of native arteries of extremities, bilateral legs	ATHEROSCLEROSIS OF NATIVE ARTERIES OF THE EXTREMITIES WITH REST PAIN
I70208	44023	Unspecified atherosclerosis of native arteries of extremities, other extremity	ATHEROSCLEROSIS OF NATIVE ARTERIES OF THE EXTREMITIES WITH ULCERATION
I70209	44024	Unspecified atherosclerosis of native arteries of extremities, unspecified extremity	ATHEROSCLEROSIS OF NATIVE ARTERIES OF THE EXTREMITIES WITH GANGRENE
I70211	44029	Atherosclerosis of native arteries of extremities with intermittent claudication, right leg	OTHER ATHEROSCLEROSIS OF NATIVE ARTERIES OF THE EXTREMITIES
I70212	4403	Atherosclerosis of native arteries of extremities with intermittent claudication, left leg	ATHEROSCLEROSIS OF BYPASS GRAFT OF THE EXTREMITIES
I70213	44030	Atherosclerosis of native arteries of extremities with intermittent claudication, bilateral legs	ATHEROSCLEROSIS OF UNSPECIFIED BYPASS GRAFT OF THE EXTREMITIES
I70218	44031	Atherosclerosis of native arteries of extremities with intermittent claudication, other extremity	ATHEROSCLEROSIS OF AUTOLOGOUS VEIN BYPASS GRAFT OF THE EXTREMITIES
I70219	44032	Atherosclerosis of native arteries of extremities with intermittent claudication, unspecified extremity	ATHEROSCLEROSIS OF NONAUTOLOGOUS BIOLOGICAL BYPASS GRAFT OF THE EXTREMITIES
I70221	4439	Atherosclerosis of native arteries of extremities with rest pain, right leg	PERIPHERAL VASCULAR DISEASE UNSPECIFIED
I70222		Atherosclerosis of native arteries of extremities with rest pain, left leg	
I70223		Atherosclerosis of native arteries of extremities with rest pain, bilateral legs	
I70228		Atherosclerosis of native arteries of extremities with rest pain, other extremity	
I70229		Atherosclerosis of native arteries of extremities with rest pain, unspecified extremity	
I70231		Atherosclerosis of native arteries of right leg with ulceration of thigh	
I70232		Atherosclerosis of native arteries of right leg with ulceration of calf	
I70233		Atherosclerosis of native arteries of right leg with ulceration of ankle	
I70234		Atherosclerosis of native arteries of right leg with ulceration of heel and midfoot	
I70235		Atherosclerosis of native arteries of right leg with ulceration of other part of foot	
I70238		Atherosclerosis of native arteries of right leg with ulceration of other part of lower right leg	
I70239		Atherosclerosis of native arteries of right leg with ulceration of unspecified site	
I70241		Atherosclerosis of native arteries of left leg with ulceration of thigh	
I70242		Atherosclerosis of native arteries of left leg with ulceration of calf	
I70243		Atherosclerosis of native arteries of left leg with ulceration of ankle	
I70244		Atherosclerosis of native arteries of left leg with ulceration of heel and midfoot	
I70245		Atherosclerosis of native arteries of left leg with ulceration of other part of foot	
I70248		Atherosclerosis of native arteries of left leg with ulceration of other part of lower left leg	
I70249		Atherosclerosis of native arteries of left leg with ulceration of unspecified site	
I7025		Atherosclerosis of native arteries of other extremities with ulceration	
I70261		Atherosclerosis of native arteries of extremities with gangrene, right leg	
I70262		Atherosclerosis of native arteries of extremities with gangrene, left leg	

Appendix A
Comorbid conditions

I70263		Atherosclerosis of native arteries of extremities with gangrene, bilateral legs	
I70268		Atherosclerosis of native arteries of extremities with gangrene, other extremity	
I70269		Atherosclerosis of native arteries of extremities with gangrene, unspecified extremity	
I70291		Other atherosclerosis of native arteries of extremities, right leg	
I70292		Other atherosclerosis of native arteries of extremities, left leg	
I70293		Other atherosclerosis of native arteries of extremities, bilateral legs	
I70298		Other atherosclerosis of native arteries of extremities, other extremity	
I70299		Other atherosclerosis of native arteries of extremities, unspecified extremity	
I70301		Unspecified atherosclerosis of unspecified type of bypass graft(s) of the extremities, right leg	
I70302		Unspecified atherosclerosis of unspecified type of bypass graft(s) of the extremities, left leg	
I70303		Unspecified atherosclerosis of unspecified type of bypass graft(s) of the extremities, bilateral legs	
I70308		Unspecified atherosclerosis of unspecified type of bypass graft(s) of the extremities, other extremity	
I70309		Unspecified atherosclerosis of unspecified type of bypass graft(s) of the extremities, unspecified extremity	
I70311		Atherosclerosis of unspecified type of bypass graft(s) of the extremities with intermittent claudication, right leg	
I70312		Atherosclerosis of unspecified type of bypass graft(s) of the extremities with intermittent claudication, left leg	
I70313		Atherosclerosis of unspecified type of bypass graft(s) of the extremities with intermittent claudication, bilateral legs	
I70318		Atherosclerosis of unspecified type of bypass graft(s) of the extremities with intermittent claudication, other extremity	
I70319		Atherosclerosis of unspecified type of bypass graft(s) of the extremities with intermittent claudication, unspecified extremity	
I70321		Atherosclerosis of unspecified type of bypass graft(s) of the extremities with rest pain, right leg	
I70322		Atherosclerosis of unspecified type of bypass graft(s) of the extremities with rest pain, left leg	
I70323		Atherosclerosis of unspecified type of bypass graft(s) of the extremities with rest pain, bilateral legs	
I70328		Atherosclerosis of unspecified type of bypass graft(s) of the extremities with rest pain, other extremity	
I70329		Atherosclerosis of unspecified type of bypass graft(s) of the extremities with rest pain, unspecified extremity	
I70331		Atherosclerosis of unspecified type of bypass graft(s) of the right leg with ulceration of thigh	
I70332		Atherosclerosis of unspecified type of bypass graft(s) of the right leg with ulceration of calf	
I70333		Atherosclerosis of unspecified type of bypass graft(s) of the right leg with ulceration of ankle	
I70334		Atherosclerosis of unspecified type of bypass graft(s) of the right leg with ulceration of heel and midfoot	
I70335		Atherosclerosis of unspecified type of bypass graft(s) of the right leg with ulceration of other part of foot	
I70338		Atherosclerosis of unspecified type of bypass graft(s) of the right leg with ulceration of other part of lower leg	
I70339		Atherosclerosis of unspecified type of bypass graft(s) of the right leg with ulceration of unspecified site	

Appendix A
Comorbid conditions

I70341		Atherosclerosis of unspecified type of bypass graft(s) of the left leg with ulceration of thigh	
I70342		Atherosclerosis of unspecified type of bypass graft(s) of the left leg with ulceration of calf	
I70343		Atherosclerosis of unspecified type of bypass graft(s) of the left leg with ulceration of ankle	
I70344		Atherosclerosis of unspecified type of bypass graft(s) of the left leg with ulceration of heel and midfoot	
I70345		Atherosclerosis of unspecified type of bypass graft(s) of the left leg with ulceration of other part of foot	
I70348		Atherosclerosis of unspecified type of bypass graft(s) of the left leg with ulceration of other part of lower leg	
I70349		Atherosclerosis of unspecified type of bypass graft(s) of the left leg with ulceration of unspecified site	
I7035		Atherosclerosis of unspecified type of bypass graft(s) of other extremity with ulceration	
I70361		Atherosclerosis of unspecified type of bypass graft(s) of the extremities with gangrene, right leg	
I70362		Atherosclerosis of unspecified type of bypass graft(s) of the extremities with gangrene, left leg	
I70363		Atherosclerosis of unspecified type of bypass graft(s) of the extremities with gangrene, bilateral legs	
I70368		Atherosclerosis of unspecified type of bypass graft(s) of the extremities with gangrene, other extremity	
I70369		Atherosclerosis of unspecified type of bypass graft(s) of the extremities with gangrene, unspecified extremity	
I70391		Other atherosclerosis of unspecified type of bypass graft(s) of the extremities, right leg	
I70392		Other atherosclerosis of unspecified type of bypass graft(s) of the extremities, left leg	
I70393		Other atherosclerosis of unspecified type of bypass graft(s) of the extremities, bilateral legs	
I70398		Other atherosclerosis of unspecified type of bypass graft(s) of the extremities, other extremity	
I70399		Other atherosclerosis of unspecified type of bypass graft(s) of the extremities, unspecified extremity	
I70401		Unspecified atherosclerosis of autologous vein bypass graft(s) of the extremities, right leg	
I70402		Unspecified atherosclerosis of autologous vein bypass graft(s) of the extremities, left leg	
I70403		Unspecified atherosclerosis of autologous vein bypass graft(s) of the extremities, bilateral legs	
I70408		Unspecified atherosclerosis of autologous vein bypass graft(s) of the extremities, other extremity	
I70409		Unspecified atherosclerosis of autologous vein bypass graft(s) of the extremities, unspecified extremity	
I70411		Atherosclerosis of autologous vein bypass graft(s) of the extremities with intermittent claudication, right leg	
I70412		Atherosclerosis of autologous vein bypass graft(s) of the extremities with intermittent claudication, left leg	
I70413		Atherosclerosis of autologous vein bypass graft(s) of the extremities with intermittent claudication, bilateral legs	
I70418		Atherosclerosis of autologous vein bypass graft(s) of the extremities with intermittent claudication, other extremity	
I70419		Atherosclerosis of autologous vein bypass graft(s) of the extremities with intermittent claudication, unspecified extremity	
I70421		Atherosclerosis of autologous vein bypass graft(s) of the extremities with rest pain, right leg	
I70422		Atherosclerosis of autologous vein bypass graft(s) of the extremities with rest pain, left leg	

Appendix A
Comorbid conditions

I70423		Atherosclerosis of autologous vein bypass graft(s) of the extremities with rest pain, bilateral legs	
I70428		Atherosclerosis of autologous vein bypass graft(s) of the extremities with rest pain, other extremity	
I70429		Atherosclerosis of autologous vein bypass graft(s) of the extremities with rest pain, unspecified extremity	
I70431		Atherosclerosis of autologous vein bypass graft(s) of the right leg with ulceration of thigh	
I70432		Atherosclerosis of autologous vein bypass graft(s) of the right leg with ulceration of calf	
I70433		Atherosclerosis of autologous vein bypass graft(s) of the right leg with ulceration of ankle	
I70434		Atherosclerosis of autologous vein bypass graft(s) of the right leg with ulceration of heel and midfoot	
I70435		Atherosclerosis of autologous vein bypass graft(s) of the right leg with ulceration of other part of foot	
I70438		Atherosclerosis of autologous vein bypass graft(s) of the right leg with ulceration of other part of lower leg	
I70439		Atherosclerosis of autologous vein bypass graft(s) of the right leg with ulceration of unspecified site	
I70441		Atherosclerosis of autologous vein bypass graft(s) of the left leg with ulceration of thigh	
I70442		Atherosclerosis of autologous vein bypass graft(s) of the left leg with ulceration of calf	
I70443		Atherosclerosis of autologous vein bypass graft(s) of the left leg with ulceration of ankle	
I70444		Atherosclerosis of autologous vein bypass graft(s) of the left leg with ulceration of heel and midfoot	
I70445		Atherosclerosis of autologous vein bypass graft(s) of the left leg with ulceration of other part of foot	
I70448		Atherosclerosis of autologous vein bypass graft(s) of the left leg with ulceration of other part of lower leg	
I70449		Atherosclerosis of autologous vein bypass graft(s) of the left leg with ulceration of unspecified site	
I7045		Atherosclerosis of autologous vein bypass graft(s) of other extremity with ulceration	
I70461		Atherosclerosis of autologous vein bypass graft(s) of the extremities with gangrene, right leg	
I70462		Atherosclerosis of autologous vein bypass graft(s) of the extremities with gangrene, left leg	
I70463		Atherosclerosis of autologous vein bypass graft(s) of the extremities with gangrene, bilateral legs	
I70468		Atherosclerosis of autologous vein bypass graft(s) of the extremities with gangrene, other extremity	
I70469		Atherosclerosis of autologous vein bypass graft(s) of the extremities with gangrene, unspecified extremity	
I70491		Other atherosclerosis of autologous vein bypass graft(s) of the extremities, right leg	
I70492		Other atherosclerosis of autologous vein bypass graft(s) of the extremities, left leg	
I70493		Other atherosclerosis of autologous vein bypass graft(s) of the extremities, bilateral legs	
I70498		Other atherosclerosis of autologous vein bypass graft(s) of the extremities, other extremity	
I70499		Other atherosclerosis of autologous vein bypass graft(s) of the extremities, unspecified extremity	
I70501		Unspecified atherosclerosis of nonautologous biological bypass graft(s) of the extremities, right leg	
I70502		Unspecified atherosclerosis of nonautologous biological bypass graft(s) of the extremities, left leg	
I70503		Unspecified atherosclerosis of nonautologous biological bypass graft(s) of the extremities, bilateral legs	

Appendix A
Comorbid conditions

I70508		Unspecified atherosclerosis of nonautologous biological bypass graft(s) of the extremities, other extremity	
I70509		Unspecified atherosclerosis of nonautologous biological bypass graft(s) of the extremities, unspecified extremity	
I70511		Atherosclerosis of nonautologous biological bypass graft(s) of the extremities with intermittent claudication, right leg	
I70512		Atherosclerosis of nonautologous biological bypass graft(s) of the extremities with intermittent claudication, left leg	
I70513		Atherosclerosis of nonautologous biological bypass graft(s) of the extremities with intermittent claudication, bilateral legs	
I70518		Atherosclerosis of nonautologous biological bypass graft(s) of the extremities with intermittent claudication, other extremity	
I70519		Atherosclerosis of nonautologous biological bypass graft(s) of the extremities with intermittent claudication, unspecified extremity	
I70521		Atherosclerosis of nonautologous biological bypass graft(s) of the extremities with rest pain, right leg	
I70522		Atherosclerosis of nonautologous biological bypass graft(s) of the extremities with rest pain, left leg	
I70523		Atherosclerosis of nonautologous biological bypass graft(s) of the extremities with rest pain, bilateral legs	
I70528		Atherosclerosis of nonautologous biological bypass graft(s) of the extremities with rest pain, other extremity	
I70529		Atherosclerosis of nonautologous biological bypass graft(s) of the extremities with rest pain, unspecified extremity	
I70531		Atherosclerosis of nonautologous biological bypass graft(s) of the right leg with ulceration of thigh	
I70532		Atherosclerosis of nonautologous biological bypass graft(s) of the right leg with ulceration of calf	
I70533		Atherosclerosis of nonautologous biological bypass graft(s) of the right leg with ulceration of ankle	
I70534		Atherosclerosis of nonautologous biological bypass graft(s) of the right leg with ulceration of heel and midfoot	
I70535		Atherosclerosis of nonautologous biological bypass graft(s) of the right leg with ulceration of other part of foot	
I70538		Atherosclerosis of nonautologous biological bypass graft(s) of the right leg with ulceration of other part of lower leg	
I70539		Atherosclerosis of nonautologous biological bypass graft(s) of the right leg with ulceration of unspecified site	
I70541		Atherosclerosis of nonautologous biological bypass graft(s) of the left leg with ulceration of thigh	
I70542		Atherosclerosis of nonautologous biological bypass graft(s) of the left leg with ulceration of calf	
I70543		Atherosclerosis of nonautologous biological bypass graft(s) of the left leg with ulceration of ankle	
I70544		Atherosclerosis of nonautologous biological bypass graft(s) of the left leg with ulceration of heel and midfoot	
I70545		Atherosclerosis of nonautologous biological bypass graft(s) of the left leg with ulceration of other part of foot	
I70548		Atherosclerosis of nonautologous biological bypass graft(s) of the left leg with ulceration of other part of lower leg	
I70549		Atherosclerosis of nonautologous biological bypass graft(s) of the left leg with ulceration of unspecified site	
I7055		Atherosclerosis of nonautologous biological bypass graft(s) of other extremity with ulceration	
I70561		Atherosclerosis of nonautologous biological bypass graft(s) of the extremities with gangrene, right leg	
I70562		Atherosclerosis of nonautologous biological bypass graft(s) of the extremities with gangrene, left leg	

Appendix A

Comorbid conditions

I70563		Atherosclerosis of nonautologous biological bypass graft(s) of the extremities with gangrene, bilateral legs	
I70568		Atherosclerosis of nonautologous biological bypass graft(s) of the extremities with gangrene, other extremity	
I70569		Atherosclerosis of nonautologous biological bypass graft(s) of the extremities with gangrene, unspecified extremity	
I70591		Other atherosclerosis of nonautologous biological bypass graft(s) of the extremities, right leg	
I70592		Other atherosclerosis of nonautologous biological bypass graft(s) of the extremities, left leg	
I70593		Other atherosclerosis of nonautologous biological bypass graft(s) of the extremities, bilateral legs	
I70598		Other atherosclerosis of nonautologous biological bypass graft(s) of the extremities, other extremity	
I70599		Other atherosclerosis of nonautologous biological bypass graft(s) of the extremities, unspecified extremity	
I70601		Unspecified atherosclerosis of nonbiological bypass graft(s) of the extremities, right leg	
I70602		Unspecified atherosclerosis of nonbiological bypass graft(s) of the extremities, left leg	
I70603		Unspecified atherosclerosis of nonbiological bypass graft(s) of the extremities, bilateral legs	
I70608		Unspecified atherosclerosis of nonbiological bypass graft(s) of the extremities, other extremity	
I70609		Unspecified atherosclerosis of nonbiological bypass graft(s) of the extremities, unspecified extremity	
I70611		Atherosclerosis of nonbiological bypass graft(s) of the extremities with intermittent claudication, right leg	
I70612		Atherosclerosis of nonbiological bypass graft(s) of the extremities with intermittent claudication, left leg	
I70613		Atherosclerosis of nonbiological bypass graft(s) of the extremities with intermittent claudication, bilateral legs	
I70618		Atherosclerosis of nonbiological bypass graft(s) of the extremities with intermittent claudication, other extremity	
I70619		Atherosclerosis of nonbiological bypass graft(s) of the extremities with intermittent claudication, unspecified extremity	
I70621		Atherosclerosis of nonbiological bypass graft(s) of the extremities with rest pain, right leg	
I70622		Atherosclerosis of nonbiological bypass graft(s) of the extremities with rest pain, left leg	
I70623		Atherosclerosis of nonbiological bypass graft(s) of the extremities with rest pain, bilateral legs	
I70628		Atherosclerosis of nonbiological bypass graft(s) of the extremities with rest pain, other extremity	
I70629		Atherosclerosis of nonbiological bypass graft(s) of the extremities with rest pain, unspecified extremity	
I70631		Atherosclerosis of nonbiological bypass graft(s) of the right leg with ulceration of thigh	
I70632		Atherosclerosis of nonbiological bypass graft(s) of the right leg with ulceration of calf	
I70633		Atherosclerosis of nonbiological bypass graft(s) of the right leg with ulceration of ankle	
I70634		Atherosclerosis of nonbiological bypass graft(s) of the right leg with ulceration of heel and midfoot	
I70635		Atherosclerosis of nonbiological bypass graft(s) of the right leg with ulceration of other part of foot	
I70638		Atherosclerosis of nonbiological bypass graft(s) of the right leg with ulceration of other part of lower leg	
I70639		Atherosclerosis of nonbiological bypass graft(s) of the right leg with ulceration of unspecified site	

Appendix A

Comorbid conditions

I70641		Atherosclerosis of nonbiological bypass graft(s) of the left leg with ulceration of thigh	
I70642		Atherosclerosis of nonbiological bypass graft(s) of the left leg with ulceration of calf	
I70643		Atherosclerosis of nonbiological bypass graft(s) of the left leg with ulceration of ankle	
I70644		Atherosclerosis of nonbiological bypass graft(s) of the left leg with ulceration of heel and midfoot	
I70645		Atherosclerosis of nonbiological bypass graft(s) of the left leg with ulceration of other part of foot	
I70648		Atherosclerosis of nonbiological bypass graft(s) of the left leg with ulceration of other part of lower leg	
I70649		Atherosclerosis of nonbiological bypass graft(s) of the left leg with ulceration of unspecified site	
I7065		Atherosclerosis of nonbiological bypass graft(s) of other extremity with ulceration	
I70661		Atherosclerosis of nonbiological bypass graft(s) of the extremities with gangrene, right leg	
I70662		Atherosclerosis of nonbiological bypass graft(s) of the extremities with gangrene, left leg	
I70663		Atherosclerosis of nonbiological bypass graft(s) of the extremities with gangrene, bilateral legs	
I70668		Atherosclerosis of nonbiological bypass graft(s) of the extremities with gangrene, other extremity	
I70669		Atherosclerosis of nonbiological bypass graft(s) of the extremities with gangrene, unspecified extremity	
I70691		Other atherosclerosis of nonbiological bypass graft(s) of the extremities, right leg	
I70692		Other atherosclerosis of nonbiological bypass graft(s) of the extremities, left leg	
I70693		Other atherosclerosis of nonbiological bypass graft(s) of the extremities, bilateral legs	
I70698		Other atherosclerosis of nonbiological bypass graft(s) of the extremities, other extremity	
I70699		Other atherosclerosis of nonbiological bypass graft(s) of the extremities, unspecified extremity	
I70701		Unspecified atherosclerosis of other type of bypass graft(s) of the extremities, right leg	
I70702		Unspecified atherosclerosis of other type of bypass graft(s) of the extremities, left leg	
I70703		Unspecified atherosclerosis of other type of bypass graft(s) of the extremities, bilateral legs	
I70708		Unspecified atherosclerosis of other type of bypass graft(s) of the extremities, other extremity	
I70709		Unspecified atherosclerosis of other type of bypass graft(s) of the extremities, unspecified extremity	
I70711		Atherosclerosis of other type of bypass graft(s) of the extremities with intermittent claudication, right leg	
I70712		Atherosclerosis of other type of bypass graft(s) of the extremities with intermittent claudication, left leg	
I70713		Atherosclerosis of other type of bypass graft(s) of the extremities with intermittent claudication, bilateral legs	
I70718		Atherosclerosis of other type of bypass graft(s) of the extremities with intermittent claudication, other extremity	
I70719		Atherosclerosis of other type of bypass graft(s) of the extremities with intermittent claudication, unspecified extremity	
I70721		Atherosclerosis of other type of bypass graft(s) of the extremities with rest pain, right leg	
I70722		Atherosclerosis of other type of bypass graft(s) of the extremities with rest pain, left leg	

Appendix A

Comorbid conditions

I70723		Atherosclerosis of other type of bypass graft(s) of the extremities with rest pain, bilateral legs	
I70728		Atherosclerosis of other type of bypass graft(s) of the extremities with rest pain, other extremity	
I70729		Atherosclerosis of other type of bypass graft(s) of the extremities with rest pain, unspecified extremity	
I70731		Atherosclerosis of other type of bypass graft(s) of the right leg with ulceration of thigh	
I70732		Atherosclerosis of other type of bypass graft(s) of the right leg with ulceration of calf	
I70733		Atherosclerosis of other type of bypass graft(s) of the right leg with ulceration of ankle	
I70734		Atherosclerosis of other type of bypass graft(s) of the right leg with ulceration of heel and midfoot	
I70735		Atherosclerosis of other type of bypass graft(s) of the right leg with ulceration of other part of foot	
I70738		Atherosclerosis of other type of bypass graft(s) of the right leg with ulceration of other part of lower leg	
I70739		Atherosclerosis of other type of bypass graft(s) of the right leg with ulceration of unspecified site	
I70741		Atherosclerosis of other type of bypass graft(s) of the left leg with ulceration of thigh	
I70742		Atherosclerosis of other type of bypass graft(s) of the left leg with ulceration of calf	
I70743		Atherosclerosis of other type of bypass graft(s) of the left leg with ulceration of ankle	
I70744		Atherosclerosis of other type of bypass graft(s) of the left leg with ulceration of heel and midfoot	
I70745		Atherosclerosis of other type of bypass graft(s) of the left leg with ulceration of other part of foot	
I70748		Atherosclerosis of other type of bypass graft(s) of the left leg with ulceration of other part of lower leg	
I70749		Atherosclerosis of other type of bypass graft(s) of the left leg with ulceration of unspecified site	
I7075		Atherosclerosis of other type of bypass graft(s) of other extremity with ulceration	
I70761		Atherosclerosis of other type of bypass graft(s) of the extremities with gangrene, right leg	
I70762		Atherosclerosis of other type of bypass graft(s) of the extremities with gangrene, left leg	
I70763		Atherosclerosis of other type of bypass graft(s) of the extremities with gangrene, bilateral legs	
I70768		Atherosclerosis of other type of bypass graft(s) of the extremities with gangrene, other extremity	
I70769		Atherosclerosis of other type of bypass graft(s) of the extremities with gangrene, unspecified extremity	
I70791		Other atherosclerosis of other type of bypass graft(s) of the extremities, right leg	
I70792		Other atherosclerosis of other type of bypass graft(s) of the extremities, left leg	
I70793		Other atherosclerosis of other type of bypass graft(s) of the extremities, bilateral legs	
I70798		Other atherosclerosis of other type of bypass graft(s) of the extremities, other extremity	
I70799		Other atherosclerosis of other type of bypass graft(s) of the extremities, unspecified extremity	
I739		Peripheral vascular disease, unspecified	

Hyperlipidemia

ICD10 Dx	ICD9 Dx	LongDesICD10	LongDesICD9
E780	2720	Pure hypercholesterolemia	PURE HYPERCHOLESTEROLEMIA
E7800	2722	Pure hypercholesterolemia unspecified	MIXED HYPERLIPIDEMIA

Appendix A

Comorbid conditions

E781	2724	Pure hyperglyceridemia	OTHER AND UNSPECIFIED HYPERLIPIDEMIA
E782		Mixed hyperlipidemia	
E784		Other hyperlipidemia	
E785		Hyperlipidemia, unspecified	

Renal dysfunction

ICD10 Dx	ICD9 Dx	LongDeslCD10	LongDeslCD9
B520	25040	Plasmodium malariae malaria with nephropathy	DIABETES WITH RENAL MANIFESTATIONS TYPE II OR UNSPECIFIED TYPE NOT STATED AS UNCONTROLLED
I823	25041	Embolism and thrombosis of renal vein	DIABETES WITH RENAL MANIFESTATIONS TYPE I [JUVENILE TYPE] NOT STATED AS UNCONTROLLED
M1030	25042	Gout due to renal impairment, unspecified site	DIABETES WITH RENAL MANIFESTATIONS TYPE II OR UNSPECIFIED TYPE UNCONTROLLED
M10311	25043	Gout due to renal impairment, right shoulder	DIABETES WITH RENAL MANIFESTATIONS TYPE I [JUVENILE TYPE] UNCONTROLLED
M10312	27410	Gout due to renal impairment, left shoulder	GOUTY NEPHROPATHY UNSPECIFIED
M10319	403	Gout due to renal impairment, unspecified shoulder	HYPERTENSIVE CHRONIC KIDNEY DISEASE
M10321	4030	Gout due to renal impairment, right elbow	MAALIGNANT HYPERTENSIVE KIDNEY DISEASE
M10322	40300	Gout due to renal impairment, left elbow	HYPERTENSIVE CHRONIC KIDNEY DISEASE MAALIGNANT WITH CHRONIC KIDNEY DISEASE STAGE I THROUGH STAGE IV OR UNSPECIFIED
M10329	40301	Gout due to renal impairment, unspecified elbow	HYPERTENSIVE CHRONIC KIDNEY DISEASE MAALIGNANT WITH CHRONIC KIDNEY DISEASE STAGE V OR END STAGE RENAL DISEASE
M10331	4031	Gout due to renal impairment, right wrist	BENIGN HYPERTENSIVE KIDNEY DISEASE
M10332	40310	Gout due to renal impairment, left wrist	HYPERTENSIVE KIDNEY DISEASE BENIGN WITH CHRONIC KIDNEY DISEASE STAGE I THROUGH STAGE IV OR UNSPECIFIED
M10339	40311	Gout due to renal impairment, unspecified wrist	HYPERTENSIVE KIDNEY DISEASE BENIGN WITH CHRONIC KIDNEY DISEASE STAGE V OR END STAGE RENAL DISEASE
M10341	4039	Gout due to renal impairment, right hand	UNSPECIFIED HYPERTENSIVE KIDNEY DISEASE
M10342	40390	Gout due to renal impairment, left hand	HYPERTENSIVE CHRONIC KIDNEY DISEASE UNSPECIFIED WITH CHRONIC KIDNEY DISEASE STAGE I THROUGH STAGE IV OR UNSPECIFIED
M10349	40391	Gout due to renal impairment, unspecified hand	HYPERTENSIVE CHRONIC KIDNEY DISEASE UNSPECIFIED WITH CHRONIC KIDNEY DISEASE STAGE V OR END STAGE RENAL DISEASE
M10351	404	Gout due to renal impairment, right hip	HYPERTENSIVE HEART AND CHRONIC KIDNEY DISEASE
M10352	4040	Gout due to renal impairment, left hip	MAALIGNANT HYPERTENSIVE HEART AND KIDNEY DISEASE
M10359	40400	Gout due to renal impairment, unspecified hip	HYPERTENSIVE HEART AND CHRONIC KIDNEY DISEASE MAALIGNANT WITHOUT HEART FAILURE WITH CHRONIC KIDNEY DISEASE STAGE I THROUGH STAGE IV OR UNSPECIFIED
M10361	40401	Gout due to renal impairment, right knee	HYPERTENSIVE HEART AND CHRONIC KIDNEY DISEASE MAALIGNANT WITH HEART FAILURE WITH CHRONIC KIDNEY DISEASE STAGE I THROUGH STAGE IV OR UNSPECIFIED
M10362	40402	Gout due to renal impairment, left knee	HYPERTENSIVE HEART AND CHRONIC KIDNEY DISEASE MAALIGNANT WITHOUT HEART FAILURE WITH CHRONIC KIDNEY DISEASE STAGE V OR END STAGE RENAL DISEASE
M10369	40403	Gout due to renal impairment, unspecified knee	HYPERTENSIVE HEART AND CHRONIC KIDNEY DISEASE MAALIGNANT WITH HEART FAILURE WITH CHRONIC KIDNEY DISEASE STAGE V OR END STAGE RENAL DISEASE
M10371	4041	Gout due to renal impairment, right ankle and foot	BENIGN HYPERTENSIVE HEART AND KIDNEY DISEASE
M10372	40410	Gout due to renal impairment, left ankle and foot	HYPERTENSIVE HEART AND CHRONIC KIDNEY DISEASE BENIGN WITHOUT HEART FAILURE WITH CHRONIC KIDNEY DISEASE STAGE I THROUGH STAGE IV OR UNSPECIFIED
M10379	40411	Gout due to renal impairment, unspecified ankle and foot	HYPERTENSIVE HEART AND CHRONIC KIDNEY DISEASE BENIGN WITH HEART FAILURE WITH CHRONIC KIDNEY DISEASE STAGE I THROUGH STAGE IV OR UNSPECIFIED
M1038	40412	Gout due to renal impairment, vertebrae	HYPERTENSIVE HEART AND CHRONIC KIDNEY DISEASE BENIGN WITHOUT HEART FAILURE WITH CHRONIC KIDNEY DISEASE STAGE V OR END STAGE RENAL DISEASE

Appendix A

Comorbid conditions

M1039	40413	Gout due to renal impairment, multiple sites	HYPERTENSIVE HEART AND CHRONIC KIDNEY DISEASE BENIGN WITH HEART FAILURE WITH CHRONIC KIDNEY DISEASE STAGE V OR END STAGE RENAL DISEASE
M3214	4049	Glomerular disease in systemic lupus erythematosus	UNSPECIFIED HYPERTENSIVE HEART AND KIDNEY DISEASE
M3215	40490	Tubulo-interstitial nephropathy in systemic lupus erythematosus	HYPERTENSIVE HEART AND CHRONIC KIDNEY DISEASE UNSPECIFIED WITHOUT HEART FAILURE WITH CHRONIC KIDNEY DISEASE STAGE I THROUGH STAGE IV OR UNSPECIFIED
M3504	40491	Sicca syndrome with tubulo-interstitial nephropathy	HYPERTENSIVE HEART AND CHRONIC KIDNEY DISEASE UNSPECIFIED WITH HEART FAILURE WITH CHRONIC KIDNEY DISEASE STAGE I THROUGH STAGE IV OR UNSPECIFIED
N000	40492	Acute nephritic syndrome with minor glomerular abnormality	HYPERTENSIVE HEART AND CHRONIC KIDNEY DISEASE UNSPECIFIED WITHOUT HEART FAILURE WITH CHRONIC KIDNEY DISEASE STAGE V OR END STAGE RENAL DISEASE
N001	40493	Acute nephritic syndrome with focal and segmental glomerular lesions	HYPERTENSIVE HEART AND CHRONIC KIDNEY DISEASE UNSPECIFIED WITH HEART FAILURE WITH CHRONIC KIDNEY DISEASE STAGE V OR END STAGE RENAL DISEASE
N002	4533	Acute nephritic syndrome with diffuse membranous glomerulonephritis	EMBOLISM AND THROMBOSIS OF RENAL VEIN
N003	5800	Acute nephritic syndrome with diffuse mesangial proliferative glomerulonephritis	ACUTE GLOMERULONEPHRITIS WITH LESION OF PROLIFERATIVE GLOMERULONEPHRITIS
N004	5804	Acute nephritic syndrome with diffuse endocapillary proliferative glomerulonephritis	ACUTE GLOMERULONEPHRITIS WITH LESION OF RAPIDLY PROGRESSIVE GLOMERULONEPHRITIS
N005	5808	Acute nephritic syndrome with diffuse mesangiocapillary glomerulonephritis	ACUTE GLOMERULONEPHRITIS WITH OTHER SPECIFIED PATHOLOGICAL LESION IN KIDNEY
N006	5809	Acute nephritic syndrome with dense deposit disease	ACUTE GLOMERULONEPHRITIS WITH UNSPECIFIED PATHOLOGICAL LESION IN KIDNEY
N007	581	Acute nephritic syndrome with diffuse crescentic glomerulonephritis	NEPHROTIC SYNDROME
N008	5810	Acute nephritic syndrome with other morphologic changes	NEPHROTIC SYNDROME WITH LESION OF PROLIFERATIVE GLOMERULONEPHRITIS
N009	5811	Acute nephritic syndrome with unspecified morphologic changes	NEPHROTIC SYNDROME WITH LESION OF MEMBRANOUS GLOMERULONEPHRITIS
N010	5812	Rapidly progressive nephritic syndrome with minor glomerular abnormality	NEPHROTIC SYNDROME WITH LESION OF MEMBRANOPROLIFERATIVE GLOMERULONEPHRITIS
N011	5813	Rapidly progressive nephritic syndrome with focal and segmental glomerular lesions	NEPHROTIC SYNDROME WITH LESION OF MINIMAL CHANGE GLOMERULONEPHRITIS
N012	5818	Rapidly progressive nephritic syndrome with diffuse membranous glomerulonephritis	NEPHROTIC SYNDROME WITH OTHER SPECIFIED PATHOLOGICAL LESION IN KIDNEY
N013	58181	Rapidly progressive nephritic syndrome with diffuse mesangial proliferative glomerulonephritis	NEPHROTIC SYNDROME IN DISEASES CLASSIFIED ELSEWHERE
N014	58189	Rapidly progressive nephritic syndrome with diffuse endocapillary proliferative glomerulonephritis	OTHER NEPHROTIC SYNDROME WITH SPECIFIED PATHOLOGICAL LESION IN KIDNEY
N015	5819	Rapidly progressive nephritic syndrome with diffuse mesangiocapillary glomerulonephritis	NEPHROTIC SYNDROME WITH UNSPECIFIED PATHOLOGICAL LESION IN KIDNEY
N016	5820	Rapidly progressive nephritic syndrome with dense deposit disease	CHRONIC GLOMERULONEPHRITIS WITH LESION OF PROLIFERATIVE GLOMERULONEPHRITIS
N017	5821	Rapidly progressive nephritic syndrome with diffuse crescentic glomerulonephritis	CHRONIC GLOMERULONEPHRITIS WITH LESION OF MEMBRANOUS GLOMERULONEPHRITIS
N018	5822	Rapidly progressive nephritic syndrome with other morphologic changes	CHRONIC GLOMERULONEPHRITIS WITH LESION OF MEMBRANOPROLIFERATIVE GLOMERULONEPHRITIS
N019	5824	Rapidly progressive nephritic syndrome with unspecified morphologic changes	CHRONIC GLOMERULONEPHRITIS WITH LESION OF RAPIDLY PROGRESSIVE GLOMERULONEPHRITIS
N020	5828	Recurrent and persistent hematuria with minor glomerular abnormality	CHRONIC GLOMERULONEPHRITIS WITH OTHER SPECIFIED PATHOLOGICAL LESION IN KIDNEY
N021	5829	Recurrent and persistent hematuria with focal and segmental glomerular lesions	CHRONIC GLOMERULONEPHRITIS WITH UNSPECIFIED PATHOLOGICAL LESION IN KIDNEY
N022	5830	Recurrent and persistent hematuria with diffuse membranous glomerulonephritis	NEPHRITIS AND NEPHROPATHY NOT SPECIFIED AS ACUTE OR CHRONIC WITH LESION OF PROLIFERATIVE GLOMERULONEPHRITIS

Appendix A

Comorbid conditions

N023	5831	Recurrent and persistent hematuria with diffuse mesangial proliferative glomerulonephritis	NEPHRITIS AND NEPHROPATHY NOT SPECIFIED AS ACUTE OR CHRONIC WITH LESION OF MEMBRANOUS GLOMERULONEPHRITIS
N024	5832	Recurrent and persistent hematuria with diffuse endocapillary proliferative glomerulonephritis	NEPHRITIS AND NEPHROPATHY NOT SPECIFIED AS ACUTE OR CHRONIC WITH LESION OF MEMBRANOPROLIFERATIVE GLOMERULONEPHRITIS
N025	5834	Recurrent and persistent hematuria with diffuse mesangiocapillary glomerulonephritis	NEPHRITIS AND NEPHROPATHY NOT SPECIFIED AS ACUTE OR CHRONIC WITH LESION OF RAPIDLY PROGRESSIVE GLOMERULONEPHRITIS
N026	5836	Recurrent and persistent hematuria with dense deposit disease	NEPHRITIS AND NEPHROPATHY NOT SPECIFIED AS ACUTE OR CHRONIC WITH LESION OF RENAL CORTICAL NECROSIS
N027	5837	Recurrent and persistent hematuria with diffuse crescentic glomerulonephritis	NEPHRITIS AND NEPHROPATHY NOT SPECIFIED AS ACUTE OR CHRONIC WITH LESION OF RENAL MEDULLARY NECROSIS
N028	5838	Recurrent and persistent hematuria with other morphologic changes	NEPHRITIS AND NEPHROPATHY NOT SPECIFIED AS ACUTE OR CHRONIC WITH OTHER SPECIFIED PATHOLOGICAL LESION IN KIDNEY
N029	5839	Recurrent and persistent hematuria with unspecified morphologic changes	NEPHRITIS AND NEPHROPATHY NOT SPECIFIED AS ACUTE OR CHRONIC WITH UNSPECIFIED PATHOLOGICAL LESION IN KIDNEY
N030	5846	Chronic nephritic syndrome with minor glomerular abnormality	ACUTE KIDNEY FAILURE WITH LESION OF RENAL CORTICAL NECROSIS
N031	5847	Chronic nephritic syndrome with focal and segmental glomerular lesions	ACUTE KIDNEY FAILURE WITH LESION OF RENAL MEDULLARY (PAPILLARY) NECROSIS
N032	5848	Chronic nephritic syndrome with diffuse membranous glomerulonephritis	ACUTE KIDNEY FAILURE WITH OTHER SPECIFIED PATHOLOGICAL LESION IN KIDNEY
N033	5849	Chronic nephritic syndrome with diffuse mesangial proliferative glomerulonephritis	ACUTE KIDNEY FAILURE UNSPECIFIED
N034	5851	Chronic nephritic syndrome with diffuse endocapillary proliferative glomerulonephritis	CHRONIC KIDNEY DISEASE STAGE I
N035	5852	Chronic nephritic syndrome with diffuse mesangiocapillary glomerulonephritis	CHRONIC KIDNEY DISEASE STAGE II (MILD)
N036	5853	Chronic nephritic syndrome with dense deposit disease	CHRONIC KIDNEY DISEASE STAGE III (MODERATE)
N037	5854	Chronic nephritic syndrome with diffuse crescentic glomerulonephritis	CHRONIC KIDNEY DISEASE STAGE IV (SEVERE)
N038	5855	Chronic nephritic syndrome with other morphologic changes	CHRONIC KIDNEY DISEASE STAGE V
N039	5856	Chronic nephritic syndrome with unspecified morphologic changes	END STAGE RENAL DISEASE
N040	5859	Nephrotic syndrome with minor glomerular abnormality	CHRONIC KIDNEY DISEASE UNSPECIFIED
N041	86600	Nephrotic syndrome with focal and segmental glomerular lesions	UNSPECIFIED INJURY TO KIDNEY WITHOUT OPEN WOUND INTO CAVITY
N042	86601	Nephrotic syndrome with diffuse membranous glomerulonephritis	HEMATOMA OF KIDNEY WITHOUT RUPTURE OF CAPSULE WITHOUT OPEN WOUND INTO CAVITY
N043	8661	Nephrotic syndrome with diffuse mesangial proliferative glomerulonephritis	INJURY TO KIDNEY WITH OPEN WOUND INTO CAVITY
N044		Nephrotic syndrome with diffuse endocapillary proliferative glomerulonephritis	
N045		Nephrotic syndrome with diffuse mesangiocapillary glomerulonephritis	
N046		Nephrotic syndrome with dense deposit disease	
N047		Nephrotic syndrome with diffuse crescentic glomerulonephritis	
N048		Nephrotic syndrome with other morphologic changes	
N049		Nephrotic syndrome with unspecified morphologic changes	
N050		Unspecified nephritic syndrome with minor glomerular abnormality	
N051		Unspecified nephritic syndrome with focal and segmental glomerular lesions	
N052		Unspecified nephritic syndrome with diffuse membranous glomerulonephritis	

Appendix A

Comorbid conditions

N053		Unspecified nephritic syndrome with diffuse mesangial proliferative glomerulonephritis	
N054		Unspecified nephritic syndrome with diffuse endocapillary proliferative glomerulonephritis	
N055		Unspecified nephritic syndrome with diffuse mesangiocapillary glomerulonephritis	
N056		Unspecified nephritic syndrome with dense deposit disease	
N057		Unspecified nephritic syndrome with diffuse crescentic glomerulonephritis	
N058		Unspecified nephritic syndrome with other morphologic changes	
N059		Unspecified nephritic syndrome with unspecified morphologic changes	
N060		Isolated proteinuria with minor glomerular abnormality	
N061		Isolated proteinuria with focal and segmental glomerular lesions	
N062		Isolated proteinuria with diffuse membranous glomerulonephritis	
N063		Isolated proteinuria with diffuse mesangial proliferative glomerulonephritis	
N064		Isolated proteinuria with diffuse endocapillary proliferative glomerulonephritis	
N065		Isolated proteinuria with diffuse mesangiocapillary glomerulonephritis	
N066		Isolated proteinuria with dense deposit disease	
N067		Isolated proteinuria with diffuse crescentic glomerulonephritis	
N068		Isolated proteinuria with other morphologic lesion	
N069		Isolated proteinuria with unspecified morphologic lesion	
N070		Hereditary nephropathy, not elsewhere classified with minor glomerular abnormality	
N071		Hereditary nephropathy, not elsewhere classified with focal and segmental glomerular lesions	
N072		Hereditary nephropathy, not elsewhere classified with diffuse membranous glomerulonephritis	
N073		Hereditary nephropathy, not elsewhere classified with diffuse mesangial proliferative glomerulonephritis	
N074		Hereditary nephropathy, not elsewhere classified with diffuse endocapillary proliferative glomerulonephritis	
N075		Hereditary nephropathy, not elsewhere classified with diffuse mesangiocapillary glomerulonephritis	
N076		Hereditary nephropathy, not elsewhere classified with dense deposit disease	
N077		Hereditary nephropathy, not elsewhere classified with diffuse crescentic glomerulonephritis	
N078		Hereditary nephropathy, not elsewhere classified with other morphologic lesions	
N079		Hereditary nephropathy, not elsewhere classified with unspecified morphologic lesions	
N08		Glomerular disorders in diseases classified elsewhere	
N140		Analgesic nephropathy	
N141		Nephropathy induced by other drugs, medicaments and biological substances	
N142		Nephropathy induced by unspecified drug, medicament or biological substance	
N143		Nephropathy induced by heavy metals	
N144		Toxic nephropathy, not elsewhere classified	
N150		Balkan nephropathy	
N158		Other specified renal tubulo-interstitial diseases	
N159		Renal tubulo-interstitial disease, unspecified	
N16		Renal tubulo-interstitial disorders in diseases classified elsewhere	

Appendix A

Comorbid conditions

N171		Acute kidney failure with acute cortical necrosis	
N172		Acute kidney failure with medullary necrosis	
N178		Other acute kidney failure	
N179		Acute kidney failure, unspecified	
N181		Chronic kidney disease, stage 1	
N182		Chronic kidney disease, stage 2 (mild)	
N183		Chronic kidney disease, stage 3 (moderate)	
N184		Chronic kidney disease, stage 4 (severe)	
N185		Chronic kidney disease, stage 5	
N186		End stage renal disease	
N189		Chronic kidney disease, unspecified	
N19		Unspecified kidney failure	
N261		Atrophy of kidney (terminal)	
N269		Renal sclerosis, unspecified	
S31001A		Unspecified open wound of lower back and pelvis with penetration into retroperitoneum, initial encounter	
S37001A		Unspecified injury of right kidney, initial encounter	
S37002A		Unspecified injury of left kidney, initial encounter	
S37009A		Unspecified injury of unspecified kidney, initial encounter	
S37011A		Minor contusion of right kidney, initial encounter	
S37012A		Minor contusion of left kidney, initial encounter	
S37019A		Minor contusion of unspecified kidney, initial encounter	
S37021A		Major contusion of right kidney, initial encounter	
S37022A		Major contusion of left kidney, initial encounter	
S37029A		Major contusion of unspecified kidney, initial encounter	
S37039A		Laceration of unspecified kidney, unspecified degree, initial encounter	
S37049A		Minor laceration of unspecified kidney, initial encounter	
S37059A		Moderate laceration of unspecified kidney, initial encounter	
S37069A		Major laceration of unspecified kidney, initial encounter	
Z4931		Encounter for adequacy testing for hemodialysis	
Z4932		Encounter for adequacy testing for peritoneal dialysis	

Chronic liver disease

ICD10 Dx	ICD9 Dx	LongDesICD10	LongDesICD9
B251	571	Cytomegaloviral hepatitis	CHRONIC LIVER DISEASE AND CIRRHOSIS
K700	5710	Alcoholic fatty liver	ALCOHOLIC FATTY LIVER
K7010	5711	Alcoholic hepatitis without ascites	ACUTE ALCOHOLIC HEPATITIS
K7011	5712	Alcoholic hepatitis with ascites	ALCOHOLIC CIRRHOSIS OF LIVER
K702	5713	Alcoholic fibrosis and sclerosis of liver	ALCOHOLIC LIVER DAMAGE UNSPECIFIED
K7030	5714	Alcoholic cirrhosis of liver without ascites	CHRONIC HEPATITIS
K7031	57140	Alcoholic cirrhosis of liver with ascites	CHRONIC HEPATITIS UNSPECIFIED
K7040	57141	Alcoholic hepatic failure without coma	CHRONIC PERSISTENT HEPATITIS
K7041	57142	Alcoholic hepatic failure with coma	AUTOIMMUNE HEPATITIS
K709	57149	Alcoholic liver disease, unspecified	OTHER CHRONIC HEPATITIS
K710	5715	Toxic liver disease with cholestasis	CIRRHOSIS OF LIVER WITHOUT ALCOHOL
K7110	5716	Toxic liver disease with hepatic necrosis, without coma	BILIARY CIRRHOSIS
K7111	5718	Toxic liver disease with hepatic necrosis, with coma	OTHER CHRONIC NONALCOHOLIC LIVER DISEASE
K712	5719	Toxic liver disease with acute hepatitis	UNSPECIFIED CHRONIC LIVER DISEASE WITHOUT ALCOHOL
K713	572	Toxic liver disease with chronic persistent hepatitis	LIVER ABSCESS AND SEQUELAE OF CHRONIC LIVER DISEASE
K714	5720	Toxic liver disease with chronic lobular hepatitis	ABSCESS OF LIVER
K7150	5721	Toxic liver disease with chronic active hepatitis without ascites	PORTAL PYEMIA
K7151	5722	Toxic liver disease with chronic active hepatitis with ascites	HEPATIC ENCEPHALOPATHY
K716	5723	Toxic liver disease with hepatitis, not elsewhere classified	PORTAL HYPERTENSION
K717	5724	Toxic liver disease with fibrosis and cirrhosis of liver	HEPATORENAL SYNDROME
K718	5728	Toxic liver disease with other disorders of liver	OTHER SEQUELAE OF CHRONIC LIVER DISEASE
K719	573	Toxic liver disease, unspecified	OTHER DISORDERS OF LIVER
K7201	5730	Acute and subacute hepatic failure with coma	CHRONIC PASSIVE CONGESTION OF LIVER

Appendix A

Comorbid conditions

K7210	5731	Chronic hepatic failure without coma	HEPATITIS IN VIRAL DISEASES CLASSIFIED ELSEWHERE
K7211	5732	Chronic hepatic failure with coma	HEPATITIS IN OTHER INFECTIOUS DISEASES CLASSIFIED ELSEWHERE
K7290	5733	Hepatic failure, unspecified without coma	HEPATITIS UNSPECIFIED
K7291	5734	Hepatic failure, unspecified with coma	HEPATIC INFARCTION
K730	5735	Chronic persistent hepatitis, not elsewhere classified	HEPATOPULMONARY SYNDROME
K731	5738	Chronic lobular hepatitis, not elsewhere classified	OTHER SPECIFIED DISORDERS OF LIVER
K732	5739	Chronic active hepatitis, not elsewhere classified	UNSPECIFIED DISORDER OF LIVER
K738		Other chronic hepatitis, not elsewhere classified	
K739		Chronic hepatitis, unspecified	
K740		Hepatic fibrosis	
K741		Hepatic sclerosis	
K742		Hepatic fibrosis with hepatic sclerosis	
K743		Primary biliary cirrhosis	
K744		Secondary biliary cirrhosis	
K745		Biliary cirrhosis, unspecified	
K7460		Unspecified cirrhosis of liver	
K7469		Other cirrhosis of liver	
K750		Abscess of liver	
K751		Phlebitis of portal vein	
K752		Nonspecific reactive hepatitis	
K753		Granulomatous hepatitis, not elsewhere classified	
K754		Autoimmune hepatitis	
K7581		Nonalcoholic steatohepatitis (NASH)	
K7589		Other specified inflammatory liver diseases	
K759		Inflammatory liver disease, unspecified	
K760		Fatty (change of) liver, not elsewhere classified	
K761		Chronic passive congestion of liver	
K763		Infarction of liver	
K764		Peliosis hepatis	
K765		Hepatic veno-occlusive disease	
K766		Portal hypertension	
K767		Hepatorenal syndrome	
K7681		Hepatopulmonary syndrome	
K7689		Other specified diseases of liver	
K769		Liver disease, unspecified	
K77		Liver disorders in diseases classified elsewhere	

Asthma

ICD10 Dx	ICD9 Dx	LongDesiCD10	LongDesiCD9
J440	493	Chronic obstructive pulmonary disease with acute lower respiratory infection	ASTHMA
J441	4930	Chronic obstructive pulmonary disease with (acute) exacerbation	EXTRINSIC ASTHMA
J449	49300	Chronic obstructive pulmonary disease, unspecified	EXTRINSIC ASTHMA UNSPECIFIED
J4520	49301	Mild intermittent asthma, uncomplicated	EXTRINSIC ASTHMA WITH STATUS ASTHMATICUS
J4521	49302	Mild intermittent asthma with (acute) exacerbation	EXTRINSIC ASTHMA WITH (ACUTE) EXACERBATION
J4522	4931	Mild intermittent asthma with status asthmaticus	INTRINSIC ASTHMA
J4530	49310	Mild persistent asthma, uncomplicated	INTRINSIC ASTHMA UNSPECIFIED
J4531	49311	Mild persistent asthma with (acute) exacerbation	INTRINSIC ASTHMA WITH STATUS ASTHMATICUS
J4532	49312	Mild persistent asthma with status asthmaticus	INTRINSIC ASTHMA WITH (ACUTE) EXACERBATION
J4540	4932	Moderate persistent asthma, uncomplicated	CHRONIC OBSTRUCTIVE ASTHMA
J4541	49320	Moderate persistent asthma with (acute) exacerbation	CHRONIC OBSTRUCTIVE ASTHMA UNSPECIFIED
J4542	49321	Moderate persistent asthma with status asthmaticus	CHRONIC OBSTRUCTIVE ASTHMA WITH STATUS ASTHMATICUS
J4550	49322	Severe persistent asthma, uncomplicated	CHRONIC OBSTRUCTIVE ASTHMA WITH (ACUTE) EXACERBATION
J4551	4938	Severe persistent asthma with (acute) exacerbation	OTHER SPECIFIED ASTHMA
J4552	49381	Severe persistent asthma with status asthmaticus	EXERCISE-INDUCED BRONCHOSPASM
J45901	49382	Unspecified asthma with (acute) exacerbation	COUGH VARIANT ASTHMA
J45902	4939	Unspecified asthma with status asthmaticus	ASTHMA UNSPECIFIED
J45909	49390	Unspecified asthma, uncomplicated	ASTHMA UNSPECIFIED

Appendix A

Comorbid conditions

J45990	49391	Exercise induced bronchospasm	ASTHMA UNSPECIFIED TYPE WITH STATUS ASTHMATICUS
J45991	49392	Cough variant asthma	ASTHMA UNSPECIFIED WITH (ACUTE) EXACERBATION
J45998		Other asthma	

Ischemic heart disease			
ICD10 Dx	ICD9 Dx	LongDeslCD10	LongDeslCD9
I201	412	Angina pectoris with documented spasm	OLD MYOCARDIAL INFARCTION
I208	413	Other forms of angina pectoris	ANGINA PECTORIS
I209	4130	Angina pectoris, unspecified	ANGINA DECUBITUS
I2510	4131	Atherosclerotic heart disease of native coronary artery without angina pectoris	PRINZMETAL ANGINA
I25110	4139	Atherosclerotic heart disease of native coronary artery with unstable angina pectoris	OTHER AND UNSPECIFIED ANGINA PECTORIS
I25111	414	Atherosclerotic heart disease of native coronary artery with angina pectoris with documented spasm	OTHER FORMS OF CHRONIC ISCHEMIC HEART DISEASE
I25118	4140	Atherosclerotic heart disease of native coronary artery with other forms of angina pectoris	CORONARY ATHEROSCLEROSIS
I25119	41400	Atherosclerotic heart disease of native coronary artery with unspecified angina pectoris	CORONARY ATHEROSCLEROSIS OF UNSPECIFIED TYPE OF VESSEL NATIVE OR GRAFT
I252	41401	Old myocardial infarction	CORONARY ATHEROSCLEROSIS OF NATIVE CORONARY ARTERY
I253	41402	Aneurysm of heart	CORONARY ATHEROSCLEROSIS OF AUTOLOGOUS VEIN BYPASS GRAFT
I2541	41403	Coronary artery aneurysm	CORONARY ATHEROSCLEROSIS OF NONAUTOLOGOUS BIOLOGICAL BYPASS GRAFT
I2542	41404	Coronary artery dissection	CORONARY ATHEROSCLEROSIS OF ARTERY BYPASS GRAFT
I255	41405	Ischemic cardiomyopathy	CORONARY ATHEROSCLEROSIS OF UNSPECIFIED BYPASS GRAFT
I256	41406	Silent myocardial ischemia	CORONARY ATHEROSCLEROSIS OF NATIVE CORONARY ARTERY OF TRANSPLANTED HEART
I25700	41407	Atherosclerosis of coronary artery bypass graft(s), unspecified, with unstable angina pectoris	CORONARY ATHEROSCLEROSIS OF BYPASS GRAFT (ARTERY) (VEIN) OF TRANSPLANTED HEART
I25701	4141	Atherosclerosis of coronary artery bypass graft(s), unspecified, with angina pectoris with documented spasm	ANEURYSM AND DISSECTION OF HEART
I25708	41410	Atherosclerosis of coronary artery bypass graft(s), unspecified, with other forms of angina pectoris	ANEURYSM OF HEART (WALL)
I25709	41411	Atherosclerosis of coronary artery bypass graft(s), unspecified, with unspecified angina pectoris	ANEURYSM OF CORONARY VESSELS
I25710	41412	Atherosclerosis of autologous vein coronary artery bypass graft(s) with unstable angina pectoris	DISSECTION OF CORONARY ARTERY
I25711	41419	Atherosclerosis of autologous vein coronary artery bypass graft(s) with angina pectoris with documented spasm	OTHER ANEURYSM OF HEART
I25718	4142	Atherosclerosis of autologous vein coronary artery bypass graft(s) with other forms of angina pectoris	CHRONIC TOTAL OCCLUSION OF CORONARY ARTERY
I25719	4143	Atherosclerosis of autologous vein coronary artery bypass graft(s) with unspecified angina pectoris	CORONARY ATHEROSCLEROSIS DUE TO LIPID RICH PLAQUE
I25720	4144	Atherosclerosis of autologous artery coronary artery bypass graft(s) with unstable angina pectoris	CORONARY ATHEROSCLEROSIS DUE TO CALCIFIED CORONARY LESION
I25721	4148	Atherosclerosis of autologous artery coronary artery bypass graft(s) with angina pectoris with documented spasm	OTHER SPECIFIED FORMS OF CHRONIC ISCHEMIC HEART DISEASE
I25728	4149	Atherosclerosis of autologous artery coronary artery bypass graft(s) with other forms of angina pectoris	CHRONIC ISCHEMIC HEART DISEASE UNSPECIFIED
I25729		Atherosclerosis of autologous artery coronary artery bypass graft(s) with unspecified angina pectoris	
I25730		Atherosclerosis of nonautologous biological coronary artery bypass graft(s) with unstable angina pectoris	
I25731		Atherosclerosis of nonautologous biological coronary artery bypass graft(s) with angina pectoris with documented spasm	
I25738		Atherosclerosis of nonautologous biological coronary artery bypass graft(s) with other forms of angina pectoris	

Appendix A
Comorbid conditions

I25739		Atherosclerosis of nonautologous biological coronary artery bypass graft(s) with unspecified angina pectoris	
I25750		Atherosclerosis of native coronary artery of transplanted heart with unstable angina	
I25751		Atherosclerosis of native coronary artery of transplanted heart with angina pectoris with documented spasm	
I25758		Atherosclerosis of native coronary artery of transplanted heart with other forms of angina pectoris	
I25759		Atherosclerosis of native coronary artery of transplanted heart with unspecified angina pectoris	
I25760		Atherosclerosis of bypass graft of coronary artery of transplanted heart with unstable angina	
I25761		Atherosclerosis of bypass graft of coronary artery of transplanted heart with angina pectoris with documented spasm	
I25768		Atherosclerosis of bypass graft of coronary artery of transplanted heart with other forms of angina pectoris	
I25769		Atherosclerosis of bypass graft of coronary artery of transplanted heart with unspecified angina pectoris	
I25790		Atherosclerosis of other coronary artery bypass graft(s) with unstable angina pectoris	
I25791		Atherosclerosis of other coronary artery bypass graft(s) with angina pectoris with documented spasm	
I25798		Atherosclerosis of other coronary artery bypass graft(s) with other forms of angina pectoris	
I25799		Atherosclerosis of other coronary artery bypass graft(s) with unspecified angina pectoris	
I25810		Atherosclerosis of coronary artery bypass graft(s) without angina pectoris	
I25811		Atherosclerosis of native coronary artery of transplanted heart without angina pectoris	
I25812		Atherosclerosis of bypass graft of coronary artery of transplanted heart without angina pectoris	
I2582		Chronic total occlusion of coronary artery	
I2583		Coronary atherosclerosis due to lipid rich plaque	
I2584		Coronary atherosclerosis due to calcified coronary lesion	
I2589		Other forms of chronic ischemic heart disease	
I259		Chronic ischemic heart disease, unspecified	

Appendix A Nonbiologics

Adalimumab

This measure categorizes the number of biologic DMARDs into the following categories:

0: Up to 1.0 (exclusive). This is the referent category

1: From 1.0 (inclusive) to 2.0 (exclusive).

2: From 2.0 (inclusive) to 2.0 (exclusive).

2: From 2.0 (inclusive) to 3.0 (exclusive).

>=3: From 3.0 (inclusive) to (any)

NDC Brand Name	
HUMIRA	
NDC Generic Name	
ADALIMUMAB	
HCPCS	
J0135	

Certolizumab pegol

NDC Brand Name	
CIMZIA	
NDC Generic Name	
CERTOLIZUMAB PEGOL	
HCPCS	
C9249	J0718
J0717	

Etanercept

NDC Brand Name	
ENBREL	
NDC Generic Name	
ETANERCEPT	
HCPCS	
J1438	

Etanercept

NDC Brand Name	
SIMPONI	
SIMPONI ARIA	
NDC Generic Name	
GOLIMUMAB	
HCPCS	
J1602	

Infliximab

NDC Brand Name	
REMICADE	
NDC Generic Name	
INFLIXIMAB	
HCPCS	
J1745	

Abatacept

NDC Brand Name	
ORENCIA	
NDC Generic Name	
ABATACEPT	ABATACEPT/MALTOSE
HCPCS	
C9230	J0129

Appendix A Nonbiologics

Tocilizumab

NDC Brand Name	
ACTEMRA	
NDC Generic Name	
TOCILIZUMAB	
HCPCS	
C9264	J3262

Tofacitinib

This measure categorizes the number of nonbiologic DMARDs into the following categories:

0: Up to 1.0 (exclusive). This is the referent category

1: From 1.0 (inclusive) to 2.0 (exclusive).

2: From 2.0 (inclusive) to 2.0 (exclusive).

2: From 2.0 (inclusive) to 3.0 (exclusive).

>=3: From 3.0 (inclusive) to (any)

NDC Brand Name	
XELJANZ	
NDC Generic Name	
TOFACITINIB CITRATE	

Auranofin

NDC Brand Name	
RIDAURA	
NDC Generic Name	
AURANOFIN	
NDC Drug Code	
00007487918	63032001160
65483009306	

Azathioprine

NDC Brand Name	
AZASAN	AZATHIOPRINE SODIUM
AZATHIOPRINE	IMURAN
NDC Generic Name	
AZATHIOPRINE	AZATHIOPRINE SODIUM

Cyclophosphamide

NDC Brand Name	
CYCLOPHOSPHAMIDE	CYTOXAN LYOPHILIZED
CYCLOPHOSPHAMIDE MONOHYDRATE	NEOSAR
CYTOXAN	NEOSAR FOR INJECTION
NDC Generic Name	
CYCLOPHOSPHAMIDE	

Cyclosporine

NDC Brand Name	
CYCLOSPORINE	RESTASIS
CYCLOSPORINE MODIFIED	SANDIMMUNE
GENGRAF	SANGCYA
NEORAL	
NDC Generic Name	
CYCLOSPORINE	CYCLOSPORINE, MODIFIED

Gold sodium thiomalate

NDC Brand Name	
AUROLATE	MYOCHRYSINE

Appendix A
Nonbiologics

GOLD SODIUM THIOMALATE	
NDC Generic Name	
GOLD SODIUM THIOMALATE	
HCPCS	
J1600	

Leflunomide

NDC Brand Name	
ARAVA	LEFLUNOMIDE
NDC Generic Name	
LEFLUNOMIDE	

Sulfasalazine

NDC Brand Name	
AZULFIDINE	SULFASALAZINE DR
S.A.S.-500	SULFAZINE
SULFA DYNE	SULFAZINE EC
SULFASALAZINE	
NDC Generic Name	
SULFASALAZINE	

NSAIDs and Coxibs

NDC Generic Name	
CELECOXIB	NABUMETONE
DIFLUNISAL	NAPROXEN
ETODOLAC	OXAPROZIN
FLURBIPROFEN	PIROXICAM
IBUPROFEN	ROFECOXIB
INDOMETHACIN	SULINDAC
KETOPROFEN	VALDECOXIB
MELOXICAM	

Opioids

NDC Brand Name	
A-COF DH	LIQUIHISTINE CS
ABC COMPOUND W/CODEINE #3	LORCET
ABER-TUSS HC	LORCET 10-650
ABSTRAL	LORCET 10/650
ACAHISTINE	LORCET HD
ACETA W/CODEINE	LORCET PLUS
ACETAMINOPH-CAFF-DIHYDROCODEIN	LORCIDE
ACETAMINOPHEN W-CODEINE	LORTAB
ACETAMINOPHEN W/CODEINE	LORTAB ASA
ACETAMINOPHEN-CODEINE	LORTUSS EX
ACTAGEN-C	LORTUSS HC
ACTIFED WITH CODEINE	LYNOX
ACTIQ	M-CLEAR
ADOL	M-CLEAR JR
AIRACOF	M-CLEAR WC
ALA-HIST AC	M-END
ALAHIST DHC	M-END MAX
ALCET	M-END MAX D
ALLAY	M-END PE
ALLERFRIM W/CODEINE	M-END WC
ALLFEN CD	M-GESIC
ALLFEN CDX	M-TUSS
ALOR	MAGNACET
ALPHEN	MAR-COF BP
AMACODONE	MAR-COF CG
AMAPHEN W/CODEINE NO.3	MARCOF

Appendix A
Nonbiologics

AMBENYL	MARGESIC
AMBI 5/15/100	MARGESIC COMPOUND
AMBIFED CD	MARGESIC H
AMBIFED CDX	MARGESIC IMPROVED
AMBIFED-G CD	MAX HC
AMBIFED-G CDX	MAXI-TUSS HC
AMBOPHEN	MAXI-TUSS HCG
AMGENAL	MAXI-TUSS HCX
AN-ABATE	MAXIDONE
ANACIN-3 W/CODEINE	MAXIFED CD
ANACIN-3 WITH CODEINE	MAXIFED CDX
ANAPLEX HD	MAXIFED-G CD
ANATUSS W/CODEINE	MAXIFED-G CDX
ANEXSIA	MAXIFLU CD
ANODYNOS-DHC	MAXIFLU CDX
ANOLOR DH-5	MAXIPHEN CD
APOKYN	MAXIPHEN CDX
APOMORPHINE HCL	MAXITUSS HC
ASA-BUTALB-CAFFEINE-CODEINE	MC COUGH
ASCOMP W/CODEINE # 3	MC JR COUGH
ASCOMP WITH CODEINE	MED-HIST
ASPIRIN W/CODEINE	MED-HIST-HC
ASPIRIN WITH CODEINE	MEDCODIN
ASPIRIN-CAFFEINE-DIHYDROCODEIN	MEDICAP HD
ASTRAMORPH-PF	MEDIPAIN 5
ATROPINE W/DEMEROL	MEDTUSS HD
ATUSS EX	MEGAGESIC
ATUSS G	MEGAMOR
ATUSS HC	MEPERGAN
ATUSS HD	MEPERGAN FORTIS
ATUSS HS	MEPERIDINE HCL
ATUSS HX	MEPERIDINE HCL-0.9% NACL
ATUSS MR	MEPERIDINE HCL-NS
ATUSS MS	MEPERIDINE HCL/NS
ATUSS NX	MEPERIDINE W/PROMETHAZINE
AVINZA	MEPERIDINE-PROMETHAZINE
AZDONE	MEPERITAB
B-TUSS	MEPROZINE
BALACET 325	MESEHIST WC
BALTUSSIN	MI-CODE
BALTUSSIN HC	MI-DECON
BANCAP HC	MINTEX HC
BAYCOMINE	MINTUSS EX
BAYCOMINE PEDIATRIC	MINTUSS G
BAYHISTINE	MINTUSS HC
BEXOPHENE	MINTUSS HD
BIOTUSSIN AC	MINTUSS MR
BIOTUSSIN DAC	MINTUSS MS
BIPHETANE-DC	MINTUSS NX
BITEX	MONTE-G HC
BPM PE HC	MONTEFLU HC
BROM-CORT-DC	MORPHINE SULF/D5W
BROMANATE DC	MORPHINE SULF/NS
BROMANATE-DC	MORPHINE SULFATE
BROMANYL	MORPHINE SULFATE CONCENTRATE
BROMAREST DC	MORPHINE SULFATE CR
BROMATANE-DC	MORPHINE SULFATE ER
BROMCOMP HC	MORPHINE SULFATE IN DEXTROSE
BROMODIPHENHYDRAMINE HCL	MORPHINE SULFATE INJECTION
BROMODIPHENHYDRAMINE W/CODEINE	MORPHINE SULFATE SELECT-A-JET
BROMOTUSS W/CODEINE	MORPHINE SULFATE-0.9% NACL
BROMPHEN-DC	MORPHINE SULFATE-D5W

Appendix A
Nonbiologics

BROMPHENEX HD	MORPHINE SULFATE/D5W
BROMPHENIRAMINE DC	MORPHINE SULFATE/NS
BROMPHENIRAMINE-DC	MS CONTIN
BROMPHENIRAMINE-DC W/CODEINE	MS/L
BROMPHENIRAMINE-HYDROCOD-PSE	MS/S
BROMPLEX HD	MSIR
BRON-TUSS	MULTI-HIST CS
BRONKISAN A/C	MYBANIL
BRONTEX	MYCI-GC
BROVEX CB	MYGRANOL W/CODEINE #3
BROVEX CBX	MYHYDROMINE
BROVEX HC	MYHYDROMINE PEDIATRIC
BROVEX PB C	MYPHETANE DC
BROVEX PB CX	MYTUSSIN AC
BUTALB-ACETAMINOPH-CAFF-CODEIN	MYTUSSIN DAC
BUTALB-CAFF-ACETAMINOPH-CODEIN	NALDECON-CX ADULT
BUTALBITAL COMPOUND W/CODEINE	NALEX
BUTALBITAL COMPOUND-CODEINE	NALEX AC
BUTALBITAL-CAFF-APAP-CODEINE	NALEX DH
BUTALBITAL/CAFF/APAP/CODEINE	NARCOF
BUTINAL W/CODEINE #3	NARIZ HC
C-TUSSIN	NARVOX
CALCIDRINE	NASATUSS
CALCIUM IODIDE W/CODEINE	NASOTUSS
CANGES-HC	NAZARIN HC
CANGES-HC NR	NEO AC
CANGES-XP	NEO HC
CAPCOF	NORCET
CAPITAL W-CODEINE	NORCET 7.5MG
CAPITAL W/CODEINE	NORCO
CARISOPRODOL COMPOUND-CODEINE	NOTUSS
CARISOPRODOL-ASPIRIN-CODEINE	NOTUSS AC
CENTUSSIN DHC	NOTUSS DC
CETA-PLUS	NOTUSS PD
CGU WC	NOTUSS-FORTE
CHEMDAL	NOTUSS-NX
CHEMERGAN W/CODEINE	NOTUSS-NXD
CHERACOL	NOTUSS-PE
CHERATUSSIN AC	NOVADYNE
CHERATUSSIN DAC	NOVADYNE DH
CHLORPHEN HD	NOVAGEST
CHLORPHENIRAMINE-CODEINE	NOVAGEST DH
CLEARTUSS DH	NOVAHISTINE
CO-GESIC	NOVAHISTINE DH
CO-HISTINE	NOVASUS
CO-HISTINE DH	NUCOCHEM
COASTALDYNE	NUCODINE SYR
COCET	NUCOFED
COCET PLUS	NUCOTUSS
CODACA NO.3	NUDAL-HD
CODACA NO.4	NUMORPHAN
CODAFED	OMS
CODAL-DH	ONCET
CODAMINE	ONCET 5
CODAMINE PEDIATRIC	ONCET 7
CODAPHEN	ONSOLIS
CODAR AR	OPANA
CODAR D	OPANA ER
CODAR GF	ORAMORPH SR
CODEFEN	ORGADIN-TUSS
CODEGEST	OXECTA
CODEINE COUGH SYRUP	OXYCODONE CONCENTRATE

Appendix A
Nonbiologics

CODEINE PHOSPHATE	OXYCODONE HCL
CODEINE SULFATE	OXYCODONE HCL ER
CODEINE-GUAIFENESIN	OXYCODONE HCL-ACETAMINOPHEN
CODEINE/PHENYLPROP/GUAIFENESIN	OXYCODONE HCL-ASPIRIN
CODEMINE	OXYCODONE HCL-IBUPROFEN
CODICLEAR DH	OXYCODONE HYDROCHLORIDE
CODIMAL DH	OXYCODONE W/ACETAMINOPHEN
CODIMAL PH	OXYCODONE W/ASPIRIN
CODITUSS DH	OXYCODONE W/ASPIRIN HALF-STR
CODOTUSS	OXYCODONE-ACETAMINOPHEN
COLDCOUGH	OXYCODONE-ASPIRIN
COLDCOUGH EXP	OXYCODONE/APAP
COLDCOUGH HC	OXYCONTIN
COLDCOUGH HCM	OXYFAST
COLDCOUGH PD	OXYIR
COLDCOUGH XP	OXYMORPHONE HCL
COLDTUSS	OXYMORPHONE HCL ER
COLREX COMPOUND	P-EPD HCL/HCOD BT/CARBINOX
COMBUNOX	P-EPHED HCL/HYDROCOD BIT/CP
COMTUSSIN HC	P-TUSS
CONDASIN	P-TUSS D
CONEX W/CODEINE	P-V-TUSSIN
CONZIP	PALLADONE
COPAN	PANACET
COPHENE XP	PANADOL W/CODEINE NO.3
COPHENE-S	PANADOL W/CODEINE NO.4
CORDRON-HC	PANASAL
COTAB A	PANCET
COTAB AX	PANCOF
COTABFLU	PANCOF EXP
COTUSS EX	PANCOF HC
COTUSS HD	PANCOF PD
COTUSS MS	PANCOF XP
COTUSS-V	PANLOR
COUGHTUSS	PANLOR DC
CPB WC	PANLOR SS
CRANTEX HC	PAPA-DEINE NO.4
CYCOFED	PC-CAP
CYNDAL	PEDIACOF
CYTUSS HC	PEDIATEX HC
CYTUSS-HC	PEDITUSS
D-TANN HC	PERCOCET
DAMASON-P	PERCODAN
DARVOCET A500	PERCODAN DEMI
DARVOCET-N 100	PERCOLONE
DARVOCET-N 50	PERLOXX
DARVON	PHANATUSS HC
DARVON COMPOUND	PHEN/CHLOR HC
DARVON COMPOUND 32	PHENA-HC
DARVON COMPOUND-65	PHENAPHEN W/CODEINE
DARVON-N	PHENDACOF HC
DAZIDOX	PHENDACOF PLUS
DE-CHLOR G	PHENERGAN VC W/CODEINE
DE-CHLOR HC	PHENERGAN VC WITH CODEINE
DE-CHLOR HD	PHENERGAN W/CODEINE
DE-CHLOR MR	PHENERGAN WITH CODEINE
DE-CHLOR NX	PHENFLU CD
DECOHISTINE	PHENFLU CDX
DECOHISTINE DH	PHENHIST
DECONAMINE CX	PHENYLCODONE PEDIATRIC
DECONGEST	PHENYLEPH-HCOD BT-CP
DECTUSS C	PHENYLEPHRINE HD

Appendix A
Nonbiologics

DELHISTINE CS	PHENYLHISTINE
DEMEROL	PHENYLHISTINE DH
DEPODUR	PHENYLPROP/COD/BR-PHENIRAMINE
DESPEC-EXP	PHENYLPROPANOLAMINE DC
DESPEC-PD	PHENYLPROPANOLAMINE/HYDROCODON
DESPEC-PDC	PHRENILIN W/CAFFEINE & CODEINE
DETUSS	PHRENILIN-CAFFEINE-CODEINE
DETUSSIN	PLURATUSS
DEX-TUSS	PNAP
DEXPHEN W-C	PNEUMOTUSSIN
DIABETIC TUSSIN C	PNEUMOTUSSIN HC
DIHIST DH	POLY CS
DIHISTINE	POLY HIST DHC
DIHISTINE DH	POLY HIST HC
DIHYDRO-CP	POLY HIST NC
DIHYDRO-GP	POLY-CS
DIHYDRO-PE	POLY-HISTINE
DIHYDROCODEINE COMP MOD	POLY-HISTINE CS
DIHYDROCODEINE COMPOUND	POLY-TUSSIN
DIHYDROCODEINE-BPM-PE	POLY-TUSSIN AC
DIHYDROXCODEINE COMPOUND	POLY-TUSSIN D
DILAUDID	POLY-TUSSIN DHC
DILAUDID STRIP PACKS	POLY-TUSSIN EX
DILAUDID-5	POLY-TUSSIN HD
DILAUDID-HP	POLY-TUSSIN XP
DIMETANE-DC	POLYGESIC
DOLACET	POLYTINE CS
DOLAGESIC	POT GUAIACO-HYDROCODONE BIT
DOLENE	PP-CAP
DOLENE AP-65	PRIMALEV
DOLENE COMPOUND-65	PRIMLEV
DOLFEN	PRO POX 65
DOLO PAP	PRO-CLEAR
DOLO-PAP	PRO-CLEAR AC
DOLOREX FORTE	PRO-CLEAR CAPS
DOLPHEN	PRO-COF
DONATUSS DC	PRO-COF D
DONATUSSIN DC	PRO-RED
DONATUSSIN MAX	PRO-RED AC
DORAPHEN-65	PROCET
DOXAPAP N-100	PROLEX DH
DRITUSS HD	PROMETHAZINE VC W/CODEINE
DROCON-CS	PROMETHAZINE VC-CODEINE
DROTUSS	PROMETHAZINE W/CODEINE
DROTUSS-CP	PROMETHAZINE-CODEINE
DUOCET	PROPACET
DUQHIST DH	PROPACHEM
DURADAL	PROPACHEM PEDIATRIC
DURADAL HD	PROPAIN HC
DURADAL HD PLUS	PROPOXACET-N 100
DURADYNE DHC	PROPOXYPHENE HCL
DURAGANIDIN NR	PROPOXYPHENE HCL COMPOUND
DURAGESIC	PROPOXYPHENE HCL W/APAP
DURAMORPH	PROPOXYPHENE HCL-ACETAMINOPHEN
DURATUSS HD	PROPOXYPHENE NAP-ACETAMINOPHEN
DYNATUSS DF	PROPOXYPHENE NAPSYLATE
DYNATUSS HC	PROPOXYPHENE NAPSYLATE W/APAP
DYNATUSS HCG	PROPOXYPHENE NAPSYLATE-APAP
DYNEX HD	PROTEX
DYTAN-HC	PROTEX D
E-LOR	PROTUSS
ED TUSS HC	PROTUSS-D

Appendix A
Nonbiologics

ED-TLC	PROVAL NO.3
EFASIN	PSE BPM HD
EFASIN-HD	PSEUDATEX HC
EMBEDA	PSEUDOEPHEDRINE W/CODEINE
EMCODEINE NO.3	PSEUDOEPHEDRINE W/HYDROCODONE
EMCODEINE NO.4	PSEUDOEPHEDRINE-CODEINE
EMPIRIN W/CODEINE	Q-V TUSSIN
EMPRACET W/CODEINE NO.3	QUAL-TUSSIN DC
EMPRACET W/CODEINE NO.4	QUALA-HC
ENDACOF	QUINDAL
ENDACOF AC	QUINDAL-HD
ENDACOF-C	QUINTEX HC
ENDACOF-DC	RELACON-HC
ENDACOF-DH	RELACON-HC NR
ENDACOF-HC	RELASIN HC
ENDACOF-PLUS	RELASIN-HCX
ENDACOF-XP	RELATUSS HC
ENDAGEN-HD	RELCOF C
ENDAL	REPREXAIN
ENDAL CD	RESCUDOSE
ENDAL HD	REX-A-HIST
ENDAL-HD	REZIRA
ENDAL-HD PLUS	RHINACON DH
ENDOCET	RID-A-PAIN W/CODEINE
ENDOCODONE	RINDAL HD
ENDODAN	RINDAL HD PLUS
ENDOTUSS	RINDAL HPD
ENPLUS-HD	RMS-SUPPOSITORY
ENTEX HC	RO-CET-N 100
ENTUSS	ROBAFEN AC
ENTUSS-D	ROBAFEN-DAC
ESGIC W/CODEINE	ROBICHEM AC
ETH-OXYDOSE	ROBITUSSIN A-C
EXALGO	ROBITUSSIN-DAC
EXCOF	ROGESIC #3
EXCOF-SF	ROMILAR AC
EXECLEAR	ROXANOL
EXECLEAR-C	ROXANOL SR
EXECOF-XP	ROXANOL UD
EXETUSS-HC	ROXANOL-T
EXTENDRYL HC	ROXICET
FARBITAL W/CODEINE #3	ROXICODONE
FEBRIDYNE	ROXICODONE INTENSOL
FENTANYL	ROXIPRIN
FENTANYL BASE	RYBIX ODT
FENTANYL CITRATE	RYDEX
FENTANYL CITRATE-0.9% NACL	RYNA-C
FENTANYL CITRATE-D5W	RYNA-CX
FENTANYL CITRATE-NS	RYZOLT
FENTANYL CITRATE/NS	S-T FORTE 2
FENTANYL ORALET	SENEFEN III
FENTANYL W/DROPERIDOL	SIMUC-HD
FENTANYL WITH DROPERIDOL	SINODEINE
FENTANYL-BUPIVACAINE-NS	SK-65
FENTANYL-ROPIVACAINE-NS	SK-65 APAP
FENTANYL/NS	SK-65 COMPOUND
FENTORA	SK-APAP W/CODEINE
FENTUSS	SK-OXYCODONE W/ACETAMINOPHEN
FIORICET W/CODEINE	SK-OXYCODONE W/ASPIRIN
FIORICET WITH CODEINE	SOMA COMPOUND W/CODEINE
FIORINAL W/CODEINE #3	SOMA COMPOUND WITH CODEINE
FIORINAL WITH CODEINE #3	SPEN-HISTINE

Appendix A
Nonbiologics

FIORMOR W/CODEINE #3	STAGESIC
FIORTAL W/CODEINE #3	STAGESIC-10
FLUTUSS HC	STATUSS
FLUTUSS XP	STATUSS GREEN
G-TUSS	STERAPHEN W/CODEINE
GANI-TUSS NR	STOPAYNE
GECIL	SU-TUSS HD
GENAGESIC	SUBLIMAZE
GENECOF-HC	SUBSYS
GENECOF-XP	SUDATUSS-2
GENTEX HC	SUDATUSS-SF
GESIC-5	SUTTAR-2
GESIC-HD	SUTTAR-SF
GESTUSS-HC	SYMTAN
GILTUSS HC	SYMTAN A
GILTUSS PED-C	SYNALGOS-DC
GLYDEINE	SYNGESIC DC
GUA C	SYNGESIC-DC
GUA PC	T-GESIC
GUAIA TUSSIN AC	T-GESIC FORTE
GUAIFEN-C	THERACODOPHEN-325
GUAIFENESIN A.C.	THERACODOPHEN-650
GUAIFENESIN AC	THERACODOPHEN-LOW-90
GUAIFENESIN DAC	THERATRAMADOL-60
GUAIFENESIN NR	THERATRAMADOL-90
GUAIFENESIN W-CODEINE	TL-HIST CD
GUAIFENESIN W/CODEINE	TL-HIST CM
GUAIFENESIN-CODEINE	TOURO HC
GUAIFENESIN-P-EPHEDRINE-COD	TRAMADOL HCL
GUAIFENESIN-PHENYLEPHRINE-HCOD	TRAMADOL HCL ER
GUAIFENESIN/CODEINE PHOSPHATE	TRAMADOL HCL-ACETAMINOPHEN
GUAIFENESIN/P-EPHED HCL/HCOD	TREZIX
GUAIFENESIN/P-EPHEDRINE/COD	TRI-VENT HC
GUAITUSSIN AC	TRIACIN C
GUAITUSSIN DAC	TRIACIN-C
GUAL-CO	TRIAFED WITH CODEINE
GUAPETEX HC	TRIAMINIC DH
GUADEX DH	TRIAMINIC W/CODEINE
GUAIOLEX HC	TRIAANT-HC
GUAITUSS AC	TRICODE AR
GUAITUSS DAC	TRICODE GF
GUAITUSSIN DAC	TRICODENE W/CODEINE
GUAITUSSIN W/CODEINE	TRICOF
H-C TUSSIVE	TRICOF EXP
H-C TUSSIVE-D	TRICOF PD
HALOTUSSIN AC	TRIDAL
HALOTUSSIN-AC	TRIDAL HD
HALOTUSSIN-DAC	TRIDAL HD PLUS
HBA	TRIFED-C
HC TUSSIVE-D	TRIHIST-CS
HC-GUAI	TRIPOSED W/CODEINE
HC-PE-DBROM	TRIPROLIDINE-C
HIST-HC	TRIPROLIDINE/P-EPHED/CODEINE
HIST-PLUS	TRITUSSIN
HISTAFED-C	TRYCET
HISTEX HC	TRYMINE CG
HISTINEX HC	TUSANA-D
HISTINEX PV	TUSDEC-HC
HISTUSS HC	TUSNEL C
HISTUSSIN D	TUSNEL PED-C
HISTUSSIN HC	TUSNEL-HC
HPB MAX	TUSS-AX

Appendix A
Nonbiologics

HPR END	TUSS-DS
HY-5	TUSS-ES
HY-KXP	TUSS-HC
HY-PHEN	TUSS-PD
HYCET	TUSS-S
HYCO-PAP	TUSSADUR-HD
HYCODAN	TUSSAFED-HC
HYCODAPHEN	TUSSAFED-HCG
HYCOFED	TUSSAR-2
HYCOGESIC	TUSSCOUGH DHC
HYCOMAL DH	TUSSCOUGH HC
HYCOMED	TUSSEND
HYCOMINE	TUSSHISTINE CS
HYCOMINE COMPOUND	TUSSI-ORGANIDIN NR
HYCOPHEN	TUSSI-ORGANIDIN-S NR
HYCOSIN	TUSSICAPS
HYCOTAB	TUSSICLEAR DH
HYCOTUSS	TUSSIDEN C
HYDEX PD	TUSSIDIN NR
HYDONE	TUSSIGON
HYDRO GP	TUSSIN AC
HYDRO PC II	TUSSINAL 12
HYDRO PRO	TUSSINATE
HYDRO PRO D	TUSSIONEX
HYDRO-DP	TUSSIREX
HYDRO-PC	TUSSIVE HC
HYDRO-PC II PLUS	TUSSO-C
HYDRO-PROPANOLAMINE PEDIATRIC	TUSSO-DF
HYDRO-TUSS	TUSSO-HC
HYDRO-TUSSIN DHC	TUSSPLEX
HYDRO-TUSSIN EXP	TY-PAP W/CODEINE
HYDRO-TUSSIN HC	TY-TAB W/CODEINE
HYDRO-TUSSIN HD	TYLAGESIC 3
HYDRO-TUSSIN HG	TYLENOL W/CODEINE
HYDRO-TUSSIN XP	TYLENOL W/CODEINE NO.2
HYDROCET	TYLENOL W/CODEINE NO.3
HYDROCOD BIT-PHENYLEPHRINE-CP	TYLENOL W/CODEINE NO.4
HYDROCOD-CPM-PSEUDOEPHEDRINE	TYLENOL-CODEINE NO.3
HYDROCOD/CARBINOX/PSEUDOEPHED	TYLENOL-CODEINE NO.4
HYDROCODONE	TYLOX
HYDROCODONE BIT-HOMATROPINE MB	UGESIC
HYDROCODONE BIT-IBUPROFEN	ULTRACET
HYDROCODONE BITARTRATE	ULTRAGESIC
HYDROCODONE BT-HOMATROPINE MBR	ULTRAM
HYDROCODONE COMPOUND	ULTRAM ER
HYDROCODONE CP	UMI-APAP
HYDROCODONE GF	UNI MULTIHIST CS
HYDROCODONE HD	UNI TUSS HC
HYDROCODONE PA	UNI-COF
HYDROCODONE W-ACETAMINOPHEN	UNI-COF EXP
HYDROCODONE W/ACETAMINOPHEN	UNI-LEV
HYDROCODONE W/GUAIFENESIN	UNI-TRICOF HC
HYDROCODONE W/PHENYLPROP	VANACET
HYDROCODONE-ACETAMINOPHEN	VANACOF CD
HYDROCODONE-GUAIFENESIN	VANACON
HYDROCODONE-HOMATROPINE	VANEX GRAPE
HYDROCODONE-HOMATROPINE MBR	VANEX HD
HYDROCODONE-IBUPROFEN	VAZOTUSS HC
HYDROCODONE-POT GUAIACOSULFON	VENDONE
HYDROCODONE/ACETAMINOPHEN	VERDROCET
HYDROCODONE/HOMATROPINE	VI-Q-TUSS
HYDROCODONE/PHENYLEPH/PYRILAM	VICOCLEAR DH

Appendix A
Nonbiologics

HYDROCODONE/PHENYLPROPANOLAMIN	VICODIN
HYDROCOF-HC	VICODIN ES
HYDROFED	VICODIN HP
HYDROGESIC	VICODIN TUSS
HYDROMET	VICOPROFEN
HYDROMINE	VIHISTINE
HYDROMINE PEDIATRIC	VIRTUSSIN AC
HYDROMORPHONE ER	VISVEX HC
HYDROMORPHONE HCL	VITAPAP W/CODEINE
HYDROMORPHONE HCL INJECTION	VITUSSIN
HYDROMORPHONE HCL-D5W	VITUZ
HYDROMORPHONE HCL-NS	VOPAC
HYDROMORPHONE HCL/NS	W/W-HISTINE
HYDROMORPHONE HYDROCHLORIDE	WELL-TUSS HD
HYDROMORPHONE-BUPIVACAINE	WELLTUSS EXP
HYDROMORPHONE-BUPIVACAINE-NS	WELLTUSS HC
HYDROMORPHONE/BUPIVACAINE	WYGESIC
HYDRON CP	XARTEMIS XR
HYDRON EX	XODOL 10-300
HYDRON KGS	XODOL 10/300
HYDRON PSC	XODOL 5-300
HYDROPANE	XODOL 7.5-300
HYDROPHEN	XOLOX
HYDROPHEN PEDIATRIC	XPECT-HC
HYDROPHENE DH	XYLON 10
HYDROSTAT	Z-COF HC
HYPHED	Z-COF HCX
HYPHEN-HD	Z-TUSS 2
HYTAN	Z-TUSS AC
IBUDONE	Z-TUSS E
IDENAL W/CODEINE	ZAMICET
INFUMORPH	ZERLOR
INNOVAR	ZHIST
IODAL HD	ZODRYL AC 25
IOFEN-C NF	ZODRYL AC 30
IOPHEN	ZODRYL AC 35
IOPHEN C-NR	ZODRYL AC 40
IOPHEN-C NR	ZODRYL AC 50
IOTUSSIN D	ZODRYL AC 60
IOTUSSIN HC	ZODRYL AC 80
ISOBUTAL W/CODEINE	ZODRYL DAC 25
ISOLIN W/CODEINE	ZODRYL DAC 30
ISOLLYL W/CODEINE	ZODRYL DAC 35
J-CET	ZODRYL DAC 40
J-COF DHC	ZODRYL DAC 50
J-MAX DHC	ZODRYL DAC 60
J-TAN D HC	ZODRYL DAC 80
JAYCOF	ZODRYL DEC 25
JAYCOF-HC	ZODRYL DEC 30
JAYCOF-XP	ZODRYL DEC 35
KADIAN	ZODRYL DEC 40
KG-DAL HD	ZODRYL DEC 50
KG-DAL HD PLUS	ZODRYL DEC 60
KG-FED	ZODRYL DEC 80
KG-FED PEDIATRIC	ZOHYDRO ER
KG-TUSS HD	ZOLVIT
KG-TUSSIN	ZOTEX-C
KGS-HC	ZOTEX-HC
KWELCOF	ZTUSS
LAZANDA	ZTUSS ZT
LEVALL	ZUTRIPRO
LEVALL 5.0	ZYDONE

Appendix A
Nonbiologics

LEXUSS 210	ZYMININE HC
LIQUICET	ZYRPHEN-HC
LIQUICOUGH HC	
NDC Generic Name	
BROMPHENIRAMINE MALEATE/CODEINE PHOSPHATE	MEPERIDINE HCL IN 0.9 % SODIUM CHLORIDE
BROMPHENIRAMINE MALEATE/PHENYLEPHRINE HCL/CODEINE	MEPERIDINE HCL/PF
BROMPHENIRAMINE MALEATE/PHENYLEPHRINE	MEPERIDINE HCL/PROMETHAZINE HCL
BROMPHENIRAMINE MALEATE/PSEUDOEPHEDRINE HCL/CODEINE	MORPHINE SULFATE
BROMPHENIRAMINE/PSEUDOEPHEDRINE HCL/DIHYDROCODEINE	MORPHINE SULFATE IN 0.9 % SODIUM CHLORIDE
BUTALBITAL/ACETAMINOPHEN/CAFFEINE/CODEINE PHOSPHATE	MORPHINE SULFATE IN 0.9 % SODIUM CHLORIDE/PF
CHLORCYCLIZINE HCL/CODEINE PHOSPHATE	MORPHINE SULFATE LIPOSOMAL/PF
CHLORCYCLIZINE HCL/PHENYLEPHRINE HCL/CODEINE PHOSPHATE	MORPHINE SULFATE/DEXTROSE 5 % IN WATER
CHLORCYCLIZINE HCL/PSEUDOEPHEDRINE HCL/CODEINE	MORPHINE SULFATE/DEXTROSE 5% WATER/PF
CHLORPHENIRAMINE MALEATE/CODEINE PHOSPHATE	MORPHINE SULFATE/NALTREXONE HCL
CHLORPHENIRAMINE MALEATE/CODEINE	MORPHINE SULFATE/PF
CHLORPHENIRAMINE MALEATE/PHENYLEPHRINE HCL/CODEINE	OXYCODONE HCL
CHLORPHENIRAMINE MALEATE/PSEUDOEPHEDRINE HCL/CODEINE	OXYCODONE HCL/ACETAMINOPHEN
CODEINE PHOSPHATE	OXYCODONE HCL/ASPIRIN
CODEINE PHOSPHATE/BUTALBITAL/ASPIRIN/CAFFEINE	OXYCODONE HCL/OXYCODONE TEREPHTHALATE/ASPIRIN
CODEINE PHOSPHATE/CARISOPRODOL/ASPIRIN	OXYCODONE/ASPIRIN
CODEINE PHOSPHATE/PYRILAMINE MALEATE	OXYMORPHONE HCL
CODEINE SULFATE	PHENYLEPHRINE HCL/CODEINE PHOSPHATE
CODEINE/ASPIRIN/SALICYLAMIDE/ACETAMINOPHEN/CAFFEINE	PHENYLEPHRINE HCL/CODEINE
CODEINE/CALCIUM IODIDE	PHENYLEPHRINE HCL/CODEINE PHOSPHATE/GUAIFENESIN
DEXBROMPHENIRAMINE MALEATE/PSEUDOEPHEDRINE	PHENYLEPHRINE
DEXCHLORPHENIRAMINE MALEATE/PHENYLEPHRINE	PHENYLEPHRINE HCL/CODEINE/CHLORPHENIRAMINE
DIHYDROCODEINE BITARTRATE/ACETAMINOPHEN/CAFFEINE	PHENYLEPHRINE HCL/CODEINE/CHLORPHENIRAMINE/POTASSIUM
DIHYDROCODEINE BITARTRATE/ASPIRIN/CAFFEINE	PHENYLEPHRINE HCL/CODEINE/PYRILAMINE
DIHYDROCODEINE BITARTRATE/GUAIFENESIN	PHENYLEPHRINE HCL/DIHYDROCODEINE BITARTRATE
DIHYDROCODEINE/ASPIRIN/CAFFEINE	PHENYLEPHRINE HCL/DIHYDROCODEINE
DIPHENHYDRAMINE HCL/PHENYLEPHRINE HCL/CODEINE	PHENYLEPHRINE HCL/DIHYDROCODEINE
FENTANYL	PHENYLEPHRINE HCL/PPA
FENTANYL CITRATE	PHENYLEPHRINE TANNATE/HYDROCODONE
FENTANYL CITRATE IN 0.9 % SODIUM CHLORIDE/PF	PHENYLEPHRINE/HYDROCODONE
FENTANYL CITRATE/BUPIVACAINE HCL IN 0.9 % SODIUM	PHENYLEPHRINE/HYDROCODONE/BROMPHENIRAMINE TANNATES
FENTANYL CITRATE/DEXTROSE 5% WATER/PF	PHENYLEPHRINE/HYDROCODONE/DEXCHLORPHENIRAMINE
FENTANYL CITRATE/DROPERIDOL	PHENYLPROPANOLAMINE HCL/CODEINE/BROMPHENIRAMINE
FENTANYL CITRATE/PF	POTASSIUM GUAICOLSULFONATE/PSEUDOEPHEDRINE
FENTANYL CITRATE/ROPIVACAINE HCL/SODIUM CHLORIDE 0.9%/PF	PROMETHAZINE HCL/CODEINE
GUAIFENESIN/CODEINE PHOSPHATE	PROMETHAZINE/PHENYLEPHRINE HCL/CODEINE
GUAIFENESIN/HYDROCODONE BITARTRATE	PROPOXYPHENE HCL
GUAIFENESIN/PHENYLEPHRINE HCL/HYDROCODONE	PROPOXYPHENE HCL/ACETAMINOPHEN
GUAIFENESIN/PHENYLPROPANOLAMINE HCL/CODEINE	PROPOXYPHENE HCL/ASPIRIN/CAFFEINE
GUAIFENESIN/PHENYLPROPANOLAMINE	PROPOXYPHENE NAPSYLATE
GUAIFENESIN/PSEUDOEPHEDRINE HCL/DIHYDROCODEINE	PROPOXYPHENE NAPSYLATE/ACETAMINOPHEN
GUAIFENESIN/PSEUDOEPHEDRINE	PSEUDOEPHEDRINE HCL/CODEINE PHOSPHATE
HYDROCODONE BITARTRATE	PSEUDOEPHEDRINE HCL/CODEINE
HYDROCODONE BITARTRATE/ACETAMINOPHEN	PSEUDOEPHEDRINE HCL/CODEINE PHOSPHATE/GUAIFENESIN
HYDROCODONE BITARTRATE/ACETAMINOPHEN/DIETARY	PSEUDOEPHEDRINE HCL/CODEINE PHOSPHATE/TRIPROLIDINE
HYDROCODONE BITARTRATE/ASPIRIN	PSEUDOEPHEDRINE HCL/CODEINE/CHLORPHENIRAMINE
HYDROCODONE BITARTRATE/CHLORPHENIRAMINE MALEATE	PSEUDOEPHEDRINE HCL/DIHYDROCODEINE
HYDROCODONE BITARTRATE/HOMATROPINE METHYLBROMIDE	PSEUDOEPHEDRINE HCL/HYDROCODONE BITARTRATE
HYDROCODONE TANNATE/CHLORPHENIRAMINE TANNATE	PSEUDOEPHEDRINE HCL/HYDROCODONE
HYDROCODONE/IBUPROFEN	PSEUDOEPHEDRINE TANNATE/HYDROCODONE TANNATE
HYDROMORPHONE HCL	PSEUDOEPHEDRINE/HYDROCODONE/BROMPHENIRAMINE
HYDROMORPHONE HCL IN 0.9 % SODIUM CHLORIDE	PSEUDOEPHEDRINE/HYDROCODONE/CHLORPHENIRAMINE
HYDROMORPHONE HCL IN 0.9 % SODIUM CHLORIDE/PF	PYRILAMINE MALEATE/PHENYLEPHRINE HCL/CODEINE PHOSPHATE
HYDROMORPHONE HCL IN DEXTROSE 5 % WATER/PF	PYRILAMINE MALEATE/PHENYLEPHRINE HCL/DIHYDROCODEINE BT
HYDROMORPHONE HCL/BUPIVACAINE HCL IN 0.9% SODIUM	PYRILAMINE MALEATE/PSEUDOEPHEDRINE HCL/CODEINE
HYDROMORPHONE HCL/PF	TRAMADOL HCL
IBUPROFEN/OXYCODONE HCL	TRAMADOL HCL/ACETAMINOPHEN
MEPERIDINE HCL	

Appendix A
Nonbiologics

Glucocorticoids

Ingredient code	
P5AR - prednisone	P5BC - dexamethasone
P5CB - triamcinolone	P5BB - betamethasone
P5AM - methylprednisolone	P5BL - budesonide
P5AB - hydrocortisone	P5AH - prednisolone
P5AA - cortisone	