

**Predicting the SURPASS-CVOT Cardiovascular Outcome Trial in
Healthcare Claims Data**

NCT07099718

5th October 2025

1. Title Page

Title	Comparative effectiveness of semaglutide and tirzepatide in patients at low, moderate, and high cardiovascular risk with type 2 diabetes and obesity: Predicting the SURPASS-CVOT Cardiovascular Outcome Trial in Healthcare Claims Data
Research question & Objectives	<p>This study is part of a three-stage project evaluating the comparative effectiveness of semaglutide and tirzepatide in patients at low, moderate, and high cardiovascular risk with type 2 diabetes and obesity:</p> <p>The SURPASS-CVOT trial evaluates the effect of tirzepatide vs dulaglutide on the risk of major adverse cardiovascular event (MACE) among patients with type 2 diabetes, overweight, and an established cardiovascular disease.</p>
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Last update date	October 5, 2025
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Study registration	<p>Site: clinicaltrials.gov Identifier: NCT07088718</p>
Sponsor	<p>Organization: N/A Contact: N/A</p>

Conflict of interest	<p>Dr. Krüger has no conflict of interest.</p> <p>Dr. Wang has consulted for Cytel Incs, Exponent Inc, and MITRE an FFRDC for Centers for Medicare and Medicaid for unrelated work.</p>
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2. Abstract

This is a non-randomized, non-interventional study that is part of the *Randomized Controlled Trials Duplicated Using Prospective Longitudinal Insurance Claims: Applying Techniques of Epidemiology* (RCT-DUPLICATE) initiative (www.rctduplicate.org) of the Brigham and Women's Hospital, Harvard Medical School. It is intended to emulate, as closely as is possible in healthcare insurance claims data, the SURPASS-CVOT trial ([NCT04255433](#)) described below. Although many features of the trial cannot be directly replicated in healthcare claims, key design features, including outcomes, exposures, and inclusion/exclusion criteria, were selected to proxy those features from the trial. Randomization cannot be achieved in healthcare claims data but was proxied through a statistical balancing of measured covariates according to standard practice. Investigators assume that the RCT provides guidance on the reference standard treatment effect estimate. However, failure to replicate RCT findings is not necessarily indicative of the inadequacy of the healthcare claims data for emulation for a range of possible reasons and does not provide information on the validity of the original RCT finding.

The SURPASS-CVOT trial is a non-inferiority trial that aims to evaluate the effect of tirzepatide, a dual glucose-dependent insulinotropic polypeptide (GIP) and glucagon-like peptide-1 receptor agonist (GLP-1-RA), vs dulaglutide, a GLP-1-RA, on time to first occurrence of any major adverse cardiovascular event (MACE), defined as cardiovascular death, myocardial infarction, or stroke among patients with T2DM and an established cardiovascular disease (CVD). In addition, the trial aims to determine noninferiority with a magnitude of difference that also supports superiority against putative placebo and for superiority to dulaglutide will be performed.¹ With estimated study completion in summer 2025, results of the trial are yet to be announced. Therefore, we aim to predict the results of the SURPASS-CVOT trial by emulating its design with protocol registration and statistical analysis conducted before the results of the trial are made public.²

The database study designed to emulate the SURPASS-CVOT trial will be a new-user active-comparative study, conducted using 2 national United States claims databases, where we compare the effect of tirzepatide vs dulaglutide on the composite end point of all-cause mortality, myocardial infarction, or stroke. Clinical guidelines during the study period recommended both agents under investigation as second-line options for glucose lowering and were similarly costly.

The study will use two data sources: Optum Clinformatics and Merative MarketScan.

Optum: Study period between May 13, 2022 to February 28, 2025.

MarketScan: Study period between May 13, 2022 to December 31, 2023.

3. Amendments and updates

Version date	Version number	Section of protocol	Amendment or update	Reason
October 5, 2025	3	6.5 (Table 5: Sensitivity analysis)	Added a sensitivity analysis examining the on-treatment	This analysis was done at the request of a reviewer who was concerned about the

			effect of an extended follow-up of up to 2 years.	comparative effect beyond the follow-up time of the primary analysis.
	2	6.4.4	Added three covariates: Heart failure, acute heart failure, microalbuminuria/proteinuria. Split covariate for “Myocardial infarction” into “Acute myocardial infarction” and “Old myocardial infarction”.	These covariates were part of the original analytical framework and were inadvertently omitted/changed in the initial version. Their inclusion corrects this oversight.
15 th May 2025	1	All sections	This emulation of SURPASS-CVOT is part of a 3-stage study that aims to compare tirzepatide vs semaglutide in patients at cardiovascular risk with type 2 diabetes and obesity. This project is independent from other projects that have also emulated SURPASS-CVOT for unrelated study objectives. Differences in results between independently conducted SURPASS-CVOT emulations may occur due to the differences in objectives and design/implementation.	

4. Rationale and background

The purpose of this protocol is to specify the emulation of the SURPASS CVOT trial (NCT04255433). Tirzepatide became available on May 13, 2022, when it was approved to treat T2DM.³ A year later, on November 8, 2023 tirzepatide was approved for chronic weight management in adults with obesity or overweight who also have at least one weight-related comorbid condition, such as hypertension, dyslipidemia, T2DM, obstructive sleep apnea, or CVD. On December 20 2024, tirzepatide was approved to treat moderate to severe obstructive sleep apnea (OSA) in adults with obesity, to be used in combination with a reduced-calorie diet and increased physical activity.

Dulaglutide was approved on September 18, 2014 to improve glycemic control in adults with T2DM.⁴ On February 21, 2020 FDA approved dulaglutide to reduce the risk of major adverse cardiovascular events in adults with T2DM who have established CVD or multiple cardiovascular risk factors.⁵ In the same year, on September 9, 2020 an additional dosing regimen was approved.⁶ Finally, on November 17, 2022, dulaglutide was approved for use in pediatric patients aged 10 years and older.

The SURPASS-CVOT trial enrolled 13299 participants between May 29, 2020 – June 27, 2022. The event-driven trial has planned a mean follow-up duration of approximately 4 years until at least 1,615 participants experience at least one component of adjudication-confirmed MACE. The primary analysis examines noninferiority of tirzepatide vs dulaglutide with an upper bound of the 95% confidence interval (CI) of the hazard ratio (HR) below 1.05 also indicating superiority of tirzepatide vs a putative placebo. An upper bound of the 95% CI of the HR of ≥ 1.05 but < 1.23 for tirzepatide vs dulaglutide will indicate noninferiority and proven safety of tirzepatide to putative placebo. If the upper 95% CI is < 1.05 in the primary analysis, a formal analysis for superiority of tirzepatide vs dulaglutide will be performed. Estimated annualized event rate for MACE in the dulaglutide treatment group was expected to be 3.5%, providing approximately 90% power to establish superiority.¹

5. Research question and objectives

Table 2. Primary and secondary research questions and objectives

A. Primary research questions and objectives

Objective:	To evaluate the comparative effect of tirzepatide vs dulaglutide on time to first occurrence of MACE (all-cause mortality, myocardial infarction, or death) in patients with T2DM and an established CVD when following the eligibility criteria of the SURPASS-CVOT trial.
Hypothesis:	We hypothesize that tirzepatide will be non-inferior to dulaglutide at preventing all-cause mortality, myocardial infarction, or stroke in individuals with T2DM and an established CVD. In addition, superiority to dulaglutide will be tested if non-inferiority is achieved.
Population (mention key inclusion-exclusion criteria):	Individuals aged 40 years or older with T2DM and an established CVD.
Exposure:	Tirzepatide.
Comparator:	Dulaglutide.
Outcome:	Composite of all-cause mortality, myocardial infarction, or stroke.
Time (when follow-up begins and ends):	1 day after cohort entry date until the first of outcome, disenrollment, end of study period, discontinuation (45 days grace and risk window), switch between the arms, nursing home admission, or start of any other GLP-1-RA.
Setting:	The outcome will be measured from inpatient hospitalizations and death.
Main measure of effect:	Hazard ratio.

B. Secondary research questions and objectives

Objective:	To evaluate the comparative effect of tirzepatide vs dulaglutide on the individual components of the primary endpoint, i.e., all-cause mortality, myocardial infarction, or stroke in patients meeting the eligibility criteria of the SURPASS-CVOT trial.
Hypothesis:	We hypothesize that tirzepatide will be non-inferior to dulaglutide at preventing all-cause mortality, myocardial infarction, or stroke in individuals with T2DM and an established CVD. In addition, superiority to dulaglutide will be tested if non-inferiority is achieved.
Population (mention key inclusion-exclusion criteria):	Individuals aged 40 years or older with T2DM and an established CVD.
Exposure:	Tirzepatide.
Comparator:	Dulaglutide.
Outcome:	The individual components of the primary endpoint, i.e., all-cause mortality, myocardial infarction, and stroke.
Time (when follow-up begins and ends):	1 day after cohort entry date until the first of outcome, disenrollment, end of study period, discontinuation (45 days grace and risk window), switch between the arms, nursing home admission, or start of any other GLP-1-RA.
Setting:	The outcome will be measured from inpatient hospitalizations and death.
Main measure of effect:	Hazard ratio.

Objective:	To evaluate the effect of tirzepatide vs dulaglutide on negative control outcomes, including (1) hernia and (2) lumbar radiculopathy in patients typically treated in clinical practice who are at cardiovascular risk with type 2 diabetes and overweight.
Hypothesis:	We hypothesize that tirzepatide will not have a different effect from dulaglutide.
Population (mention key inclusion-exclusion criteria):	Individuals aged 40 years or older with T2DM and an established CVD. In addition, patients will be excluded with recent hernia or lumbar radiculopathy prior to the follow-up time window (30 days) when studying the negative outcome hernia or lumbar radiculopathy, respectively.
Exposure:	Tirzepatide.
Comparator:	Dulaglutide.
Outcome:	Separate analyses for hernia and lumbar radiculopathy.

Time (when follow-up begins and ends):	1 day after cohort entry date until the first of outcome, disenrollment, end of study period, discontinuation (45 days grace and risk window), switch between the arms, nursing home admission, or start of any other GLP-1-RA.
Setting:	The outcome will be measured using diagnosis codes in an inpatient or outpatient setting.
Main measure of effect:	Hazard ratio.

6. Research methods

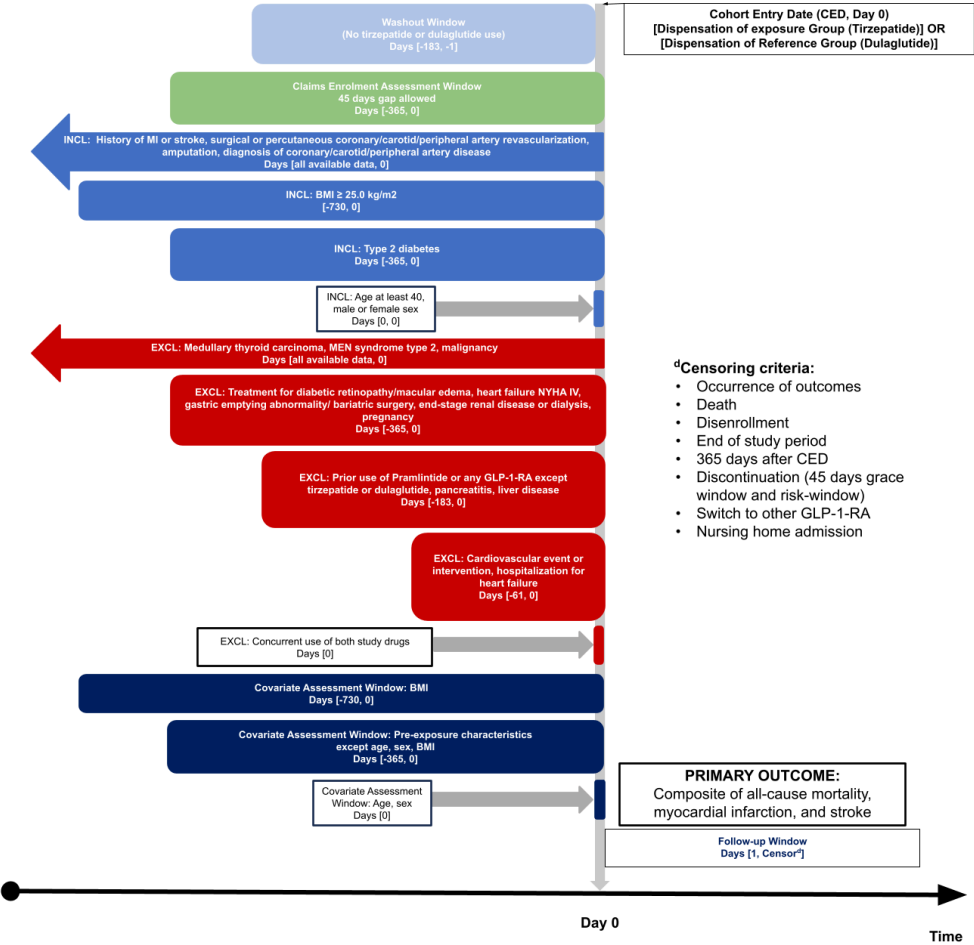
6.1 Study design

Research design (e.g. cohort, case-control, etc.): New user active-comparator cohort study.

Rationale for study design choice: The new user active-comparator design is a powerful design that may be able to address confounding by indication. It accomplishes this, in large part, through judicious selection of an appropriate active-comparator group.^{7,8} While selection of an appropriate comparator in the design phase is crucial, cohort studies often require additional adjustment of measurable confounders. A common method for adjusting for confounding is via a propensity score.

6.2 Study design diagram when following the eligibility criteria of the SURPASS-CVOT trial (Figure 1).

Figure 1. Exposure-based cohort entry where the cohort entry date is selected after application of exclusion criteria



6.3 Setting

6.3.1 Context and rationale for definition of time 0 (and other primary time anchors) for entry to the study population

Time 0 in the database study was defined to emulate randomization to tirzepatide vs dulaglutide in the trial design. See appendix tables 1 and 2a for operational definitions and detailed code algorithms.

6.3.2 Context and rationale for study inclusion criteria:

Study inclusion criteria were defined to emulate the inclusion criteria for the trial. See appendix tables 1 and 2 for operational definitions and detailed code algorithms. A flowchart of the study cohort assembly is provided in appendix 3.

6.3.3 Context and rationale for study exclusion criteria

Study exclusion criteria were defined to emulate the exclusion criteria for the trial. See appendix tables 1 and 2 for operational definitions and detailed code algorithms. A flowchart of the study cohort assembly is provided in appendix 3.

6.4 Variables

6.4.1 Context and rationale for exposure(s) of interest

The exposure and comparator were defined to emulate the agents compared for the trial, tirzepatide vs dulaglutide (active-comparator). See appendix tables 1 and 2 for operational definitions and detailed code algorithms.

Algorithm to define duration of exposure effect:

Assuming the effect of the drug lasts for 45 days after the last day's supply, we allow a 45 days gap between the dispensation (grace period) and also add 45 days at the end of the last day's supply (exposure risk window).

6.4.2 Context and rationale for outcome(s) of interest

The primary outcome for the database study was defined to emulate the primary outcome of the trial, i.e., MACE (composite of cardiovascular death, myocardial infarction, or stroke). Due to the inability to capture cause of death in our emulation, we modified the MACE outcome to capture all-cause mortality, myocardial infarction, or stroke. See appendix tables 1 and 2 for operational definitions and detailed code algorithms. Optum includes death information from the inpatient discharged dead status, social security death master file, and deaths scraped from obituaries or other sources. MarketScan includes information from the inpatient discharged dead status as well as social security death master file. PPV for myocardial infarction

using ICD9 codes was 94%.⁹⁻¹¹ PPV for ischemic stroke using ICD9 codes was 95%. Both of the above ICD9 codes were mapped to ICD10, but no validation study was performed.¹²

Secondary outcomes from the trial that will be evaluated include:

- 1. Individual components of the primary endpoint, i.e., all-cause mortality, myocardial infarction, and stroke.

Control outcomes of interest include:

- 1. Hernia (excluding patients with recent outcome prior to the follow-up time window). This is a negative control outcome where no difference in effect is expected for tirzepatide vs dulaglutide.
- 2. Lumbar radiculopathy (excluding patients with recent outcome prior to the follow-up time window). This is a negative control outcome where no difference in effect is expected for tirzepatide vs dulaglutide.

6.4.3 Context and rationale for follow-up

Both on-treatment (OT) and intention-to-treat (ITT) analyses will be conducted. Adherence in clinical practice databases is expected to be much worse than in the trial, therefore the OT analysis will be the primary analysis. The OT analysis targets the relative hazard of outcomes while on treatment and may more closely emulate the effect observed in highly adherent trial participants. Both OT and ITT analyses will be conducted with up to 1-year follow-up.

Table 1. Operational Definitions of follow-up

follow-up start	Day 1	
follow-up end ¹	Select all that apply	Specify
Date of outcome	Yes	
Date of death	Yes	Part of the primary outcome.
End of observation in data	Yes	Date of disenrollment.
Day X following index date (specify day)	Yes	Day 365.

End of study period (specify date)	Yes	Different dates for different databases (Optum: February 28, 2025; MarketScan: December 31, 2023).
End of exposure (specify operational details, e.g. stockpiling algorithm, grace period)	Yes	45 days grace window and 45 days risk window.
Date of add to/switch from exposure (specify algorithm)	Yes	Date of augmentation or switching from an exposure to a comparator and vice versa.
Other date (specify)	Yes	Censor upon nursing home admission or starting any other GLP-1-RA.

¹ follow-up ends at the first occurrence of any of the selected criteria that end follow-up.

6.4.4 Context and rationale for covariates (confounding variables and effect modifiers, e.g. risk factors, comorbidities, comedications)

We identified a series of covariates that were likely confounders due to being strong risk factors for the primary outcome that were associated with choice of treatment. These include demographics, disease severity related variables, comorbid conditions, comedications, frailty, healthcare utilization and markers of health seeking behaviour.

Table 2. Operational Definitions of Covariates

Characteristics	Details	Type of variable	Assessment window	Care Settings ¹	Code Type ²	Diagnosis Position ³	Applied to study populations:	Measurement characteristics / validation	Source for algorithm
Demographics									
Age	Cohort entry year – year of birth, (last observed value in the baseline)	Continuous	[0, 0]	n/a	n/a	n/a	Exposure: Tirzepatide Reference: Dulaglutide	n/a	n/a

Characteristics	Details	Type of variable	Assessment window	Care Settings ¹	Code Type ²	Diagnosis Position ³	Applied to study populations:	Measurement characteristics / validation	Source for algorithm
Gender	Male, Female (last observed value in the baseline)	Categorical	[0, 0]	n/a	n/a	n/a	Exposure: Tirzepatide Reference: Dulaglutide	n/a	n/a
Race*	White, Black, Other (Asian, Hispanic), Missing/Unknown (last observed value in the baseline)	Categorical	[0, 0]	n/a	n/a	n/a	Exposure: Tirzepatide Reference: Dulaglutide	n/a	n/a
Region	Northeast, Midwest/Northern central, South, West (last observed value in the baseline)	Categorical	[0, 0]	n/a	n/a	n/a	Exposure: Tirzepatide Reference: Dulaglutide	n/a	n/a
Lifestyle risk factors									
Smoking / Tobacco use		Binary	[-365, 0]	Any	ICD-10-CM	Any	Exposure: Tirzepatide Reference: Dulaglutide	n/a	Appendix, Covariate – Algorithm
Overweight, if BMI is 25.0 to 29.9		Binary	[-730, 0]	Any	ICD-10-CM	Any	Exposure: Tirzepatide Reference: Dulaglutide	n/a	Appendix, Covariate – Algorithm

Characteristics	Details	Type of variable	Assessment window	Care Settings ¹	Code Type ²	Diagnosis Position ³	Applied to study populations:	Measurement characteristics / validation	Source for algorithm
Class 1 (low-risk) obesity, if BMI is 30.0 to 34.9		Binary	[-730, 0]	Any	ICD-10-CM	Any	Exposure: Tirzepatide Reference: Dulaglutide	n/a	Appendix, Covariate – Algorithm
Class 2 (moderate-risk) obesity, if BMI is 35.0 to 39.9		Binary	[-730, 0]	Any	ICD-10-CM	Any	Exposure: Tirzepatide Reference: Dulaglutide	n/a	Appendix, Covariate – Algorithm
Class 3 (high-risk) obesity if BMI is equal to or greater than 40		Binary	[-730, 0]	Any	ICD-10-CM	Any	Exposure: Tirzepatide Reference: Dulaglutide	n/a	Appendix, Covariate – Algorithm
Unspecified obesity		Binary	[-730, 0]	Any	ICD-10-CM	Any	Exposure: Tirzepatide Reference: Dulaglutide	n/a	Appendix, Covariate – Algorithm
Diabetes complications									
Diabetic retinopathy		Binary	[-365, 0]	Any	ICD-10-CM	Any	Exposure: Tirzepatide Reference: Dulaglutide	n/a	
Diabetic neuropathy		Binary	[-365, 0]	Any	ICD-10-CM	Any	Exposure: Tirzepatide Reference: Dulaglutide	n/a	Appendix, Covariate – Algorithm

Characteristics	Details	Type of variable	Assessment window	Care Settings ¹	Code Type ²	Diagnosis Position ³	Applied to study populations:	Measurement characteristics / validation	Source for algorithm
Diabetic nephropathy		Binary	[-365, 0]	Any	ICD-10-CM	Any	Exposure: Tirzepatide Reference: Dulaglutide	n/a	Appendix, Covariate – Algorithm
Diabetes with other ophthalmic complications		Binary	[-365, 0]	Any	ICD-10-CM	Any	Exposure: Tirzepatide Reference: Dulaglutide	n/a	Appendix, Covariate – Algorithm
Diabetes with peripheral circulatory disorders		Binary	[-365, 0]	Any	ICD-10-CM	Any	Exposure: Tirzepatide Reference: Dulaglutide	n/a	Appendix, Covariate – Algorithm
Diabetic foot		Binary	[-365, 0]	Any	ICD-10-CM	Any	Exposure: Tirzepatide Reference: Dulaglutide	n/a	Appendix, Covariate – Algorithm
Erectile dysfunction		Binary	[-365, 0]	Any	ICD-10-CM	Any	Exposure: Tirzepatide Reference: Dulaglutide	n/a	Appendix, Covariate – Algorithm
Hypoglycemia		Binary	[-365, 0]	Any	ICD-10-CM	Any	Exposure: Tirzepatide Reference: Dulaglutide	n/a	Appendix, Covariate – Algorithm

Characteristics	Details	Type of variable	Assessment window	Care Settings ¹	Code Type ²	Diagnosis Position ³	Applied to study populations:	Measurement characteristics / validation	Source for algorithm
Hyperglycemia/DKA/HONK		Binary	[-365, 0]	Any	ICD-10-CM	Any	Exposure: Tirzepatide Reference: Dulaglutide	n/a	Appendix, Covariate – Algorithm
Skin infections		Binary	[-365, 0]	Any	ICD-10-CM	Any	Exposure: Tirzepatide Reference: Dulaglutide	n/a	Appendix, Covariate – Algorithm
Cardiovascular-related conditions									
Stable angina		Binary	[-365, 0]	Any	ICD-10-CM	Any	Exposure: Tirzepatide Reference: Dulaglutide	n/a	Appendix, Covariate – Algorithm
Unstable angina		Binary	[-365, 0]	Any	ICD-10-CM	Any	Exposure: Tirzepatide Reference: Dulaglutide	n/a	Appendix, Covariate – Algorithm
Hypertension		Binary	[-365, 0]	Any	ICD-10-CM	Any	Exposure: Tirzepatide Reference: Dulaglutide	n/a	Appendix, Covariate – Algorithm
Hypotension		Binary	[-365, 0]	Any	ICD-10-CM	Any	Exposure: Tirzepatide Reference: Dulaglutide	n/a	Appendix, Covariate – Algorithm

Characteristics	Details	Type of variable	Assessment window	Care Settings ¹	Code Type ²	Diagnosis Position ³	Applied to study populations:	Measurement characteristics / validation	Source for algorithm
Hyperlipidemia		Binary	[-365, 0]	Any	ICD-10-CM	Any	Exposure: Tirzepatide Reference: Dulaglutide	n/a	Appendix, Covariate – Algorithm
Atrial fibrillation		Binary	[-365, 0]	Any	ICD-10-CM	Any	Exposure: Tirzepatide Reference: Dulaglutide	n/a	Appendix, Covariate – Algorithm
Acute myocardial infarction		Binary	[-365, 0]	Any	ICD-10-CM	Primary	Exposure: Tirzepatide Reference: Dulaglutide	n/a	Appendix, Covariate – Algorithm
Old myocardial infarction		Binary	[-365, 0]	Any	ICD-10-CM	Any	Exposure: Tirzepatide Reference: Dulaglutide	n/a	Appendix, Covariate – Algorithm
Cardiac conduction disorder		Binary	[-365, 0]	Any	ICD-10-CM	Any	Exposure: Tirzepatide Reference: Dulaglutide	n/a	Appendix, Covariate – Algorithm
Previous cardiac procedure (CABG, PTCA, Stent)		Binary	[-365, 0]	Any	ICD-10-CM	Any	Exposure: Tirzepatide Reference: Dulaglutide	n/a	Appendix, Covariate – Algorithm

Characteristics	Details	Type of variable	Assessment window	Care Settings ¹	Code Type ²	Diagnosis Position ³	Applied to study populations:	Measurement characteristics / validation	Source for algorithm
Ischemic stroke		Binary	[-365, 0]	IP	ICD-10-CM	Any	Exposure: Tirzepatide Reference: Dulaglutide	n/a	Appendix, Covariate – Algorithm
PVD diagnosis or surgery PVD		Binary	[-365, 0]	Any	ICD-10-CM	Any	Exposure: Tirzepatide Reference: Dulaglutide	n/a	Appendix, Covariate – Algorithm
Other cardiac dysrhythmia		Binary	[-365, 0]	Any	ICD-10-CM	Any	Exposure: Tirzepatide Reference: Dulaglutide	n/a	Appendix, Covariate – Algorithm
Heart failure		Binary	[-365, 0]	Any	ICD-10-CM	Any	Exposure: Tirzepatide Reference: Dulaglutide	n/a	Appendix, Covariate – Algorithm
Acute heart failure		Binary	[-365, 0]	Any	ICD-10-CM	Any	Exposure: Tirzepatide Reference: Dulaglutide	n/a	Appendix, Covariate – Algorithm
Microalbuminuria/proteinuria		Binary	[-365, 0]	Any	ICD-10-CM	Any	Exposure: Tirzepatide Reference: Dulaglutide	n/a	Appendix, Covariate – Algorithm

Characteristics	Details	Type of variable	Assessment window	Care Settings ¹	Code Type ²	Diagnosis Position ³	Applied to study populations:	Measurement characteristics / validation	Source for algorithm
Cardiomyopathy		Binary	[-365, 0]	Any	ICD-10-CM	Any	Exposure: Tirzepatide Reference: Dulaglutide	n/a	Appendix, Covariate – Algorithm
Valve disorders		Binary	[-365, 0]	Any	ICD-10-CM	Any	Exposure: Tirzepatide Reference: Dulaglutide	n/a	Appendix, Covariate – Algorithm
Valve replacement		Binary	[-365, 0]	Any	ICD-10-CM	Any	Exposure: Tirzepatide Reference: Dulaglutide	n/a	Appendix, Covariate – Algorithm
TIA		Binary	[-365, 0]	Any	ICD-10-CM	Any	Exposure: Tirzepatide Reference: Dulaglutide	n/a	Appendix, Covariate – Algorithm
Edema		Binary	[-365, 0]	Any	ICD-10-CM	Any	Exposure: Tirzepatide Reference: Dulaglutide	n/a	Appendix, Covariate – Algorithm
Venous thromboembolism / Pulmonary embolism		Binary	[-365, 0]	Any	ICD-10-CM	Any	Exposure: Tirzepatide Reference: Dulaglutide	n/a	Appendix, Covariate – Algorithm

Characteristics	Details	Type of variable	Assessment window	Care Settings ¹	Code Type ²	Diagnosis Position ³	Applied to study populations:	Measurement characteristics / validation	Source for algorithm
Pulmonary hypertension		Binary	[-365, 0]	Any	ICD-10-CM	Any	Exposure: Tirzepatide Reference: Dulaglutide	n/a	Appendix, Covariate – Algorithm
Implantable cardioverter defibrillator		Binary	[-365, 0]	Any	ICD-10-CM	Any	Exposure: Tirzepatide Reference: Dulaglutide	n/a	Appendix, Covariate – Algorithm
Hyperkalemia		Binary	[-365, 0]	Any	ICD-10-CM	Any	Exposure: Tirzepatide Reference: Dulaglutide	n/a	Appendix, Covariate – Algorithm
Coronary atherosclerosis		Binary	[-365, 0]	Any	ICD-10-CM	Any	Exposure: Tirzepatide Reference: Dulaglutide	n/a	Appendix, Covariate – Algorithm
Cerebrovascular procedure		Binary	[-365, 0]	Any	ICD-10-CM	Any	Exposure: Tirzepatide Reference: Dulaglutide	n/a	Appendix, Covariate – Algorithm
Insertion of pacemakers / removal of cardiac lead		Binary	[-365, 0]	Any	ICD-10-CM	Any	Exposure: Tirzepatide Reference: Dulaglutide	n/a	Appendix, Covariate – Algorithm

Characteristics	Details	Type of variable	Assessment window	Care Settings ¹	Code Type ²	Diagnosis Position ³	Applied to study populations:	Measurement characteristics / validation	Source for algorithm
Renal-related conditions									
CKD stage 1-2		Binary	[-365, 0]	Any	ICD-10-CM	Any	Exposure: Tirzepatide Reference: Dulaglutide	n/a	Appendix, Covariate – Algorithm
CKD stage 3-4		Binary	[-365, 0]	Any	ICD-10-CM	Any	Exposure: Tirzepatide Reference: Dulaglutide	n/a	Appendix, Covariate – Algorithm
Unspecified CKD		Binary	[-365, 0]	Any	ICD-10-CM	Any	Exposure: Tirzepatide Reference: Dulaglutide	n/a	Appendix, Covariate – Algorithm
Acute kidney injury		Binary	[-365, 0]	Any	ICD-10-CM	Any	Exposure: Tirzepatide Reference: Dulaglutide	n/a	Appendix, Covariate – Algorithm
Hypertensive nephropathy		Binary	[-365, 0]	Any	ICD-10-CM	Any	Exposure: Tirzepatide Reference: Dulaglutide	n/a	Appendix, Covariate – Algorithm
Urinary tract infections		Binary	[-365, 0]	Any	ICD-10-CM	Any	Exposure: Tirzepatide Reference: Dulaglutide	n/a	Appendix, Covariate – Algorithm

Characteristics	Details	Type of variable	Assessment window	Care Settings ¹	Code Type ²	Diagnosis Position ³	Applied to study populations:	Measurement characteristics / validation	Source for algorithm
Genital infections		Binary	[-365, 0]	Any	ICD-10-CM	Any	Exposure: Tirzepatide Reference: Dulaglutide	n/a	Appendix, Covariate – Algorithm
Urolithiasis (kidney and urinary stones)		Binary	[-365, 0]	Any	ICD-10-CM	Any	Exposure: Tirzepatide Reference: Dulaglutide	n/a	Appendix, Covariate – Algorithm
Other comorbidities									
COPD		Binary	[-365, 0]	Any	ICD-10-CM	Any	Exposure: Tirzepatide Reference: Dulaglutide	n/a	Appendix, Covariate – Algorithm
Asthma		Binary	[-365, 0]	Any	ICD-10-CM	Any	Exposure: Tirzepatide Reference: Dulaglutide	n/a	Appendix, Covariate – Algorithm
Obstructive sleep apnea		Binary	[-365, 0]	Any	ICD-10-CM	Any	Exposure: Tirzepatide Reference: Dulaglutide	n/a	Appendix, Covariate – Algorithm
Serious bacterial infections		Binary	[-365, 0]	Inpatient	ICD-10-CM	Primary	Exposure: Tirzepatide Reference: Dulaglutide	n/a	Appendix, Covariate – Algorithm

Characteristics	Details	Type of variable	Assessment window	Care Settings ¹	Code Type ²	Diagnosis Position ³	Applied to study populations:	Measurement characteristics / validation	Source for algorithm
Pneumonia		Binary	[-365, 0]	Any	ICD-10-CM	Any	Exposure: Tirzepatide Reference: Dulaglutide	n/a	Appendix, Covariate – Algorithm
Liver disease		Binary	[-365, 0]	Any	ICD-10-CM	Any	Exposure: Tirzepatide Reference: Dulaglutide	n/a	Appendix, Covariate – Algorithm
MASH/MASLD		Binary	[-365, 0]	Any	ICD-10-CM	Any	Exposure: Tirzepatide Reference: Dulaglutide	n/a	Appendix, Covariate – Algorithm
Fractures / Falls		Binary	[-365, 0]	Any	ICD-10-CM	Any	Exposure: Tirzepatide Reference: Dulaglutide	n/a	Appendix, Covariate – Algorithm
Osteoporosis		Binary	[-365, 0]	Any	ICD-10-CM	Any	Exposure: Tirzepatide Reference: Dulaglutide	n/a	Appendix, Covariate – Algorithm
Osteoarthritis		Binary	[-365, 0]	Any	ICD-10-CM	Any	Exposure: Tirzepatide Reference: Dulaglutide	n/a	Appendix, Covariate – Algorithm

Characteristics	Details	Type of variable	Assessment window	Care Settings ¹	Code Type ²	Diagnosis Position ³	Applied to study populations:	Measurement characteristics / validation	Source for algorithm
Depression		Binary	[-365, 0]	Any	ICD-10-CM	Any	Exposure: Tirzepatide Reference: Dulaglutide	n/a	Appendix, Covariate – Algorithm
Dementia		Binary	[-365, 0]	Any	ICD-10-CM	Any	Exposure: Tirzepatide Reference: Dulaglutide	n/a	Appendix, Covariate – Algorithm
Delirium or psychosis		Binary	[-365, 0]	Any	ICD-10-CM	Any	Exposure: Tirzepatide Reference: Dulaglutide	n/a	Appendix, Covariate – Algorithm
Anxiety		Binary	[-365, 0]	Any	ICD-10-CM	Any	Exposure: Tirzepatide Reference: Dulaglutide	n/a	Appendix, Covariate – Algorithm
Sleep disorder		Binary	[-365, 0]	Any	ICD-10-CM	Any	Exposure: Tirzepatide Reference: Dulaglutide	n/a	Appendix, Covariate – Algorithm
Anemia		Binary	[-365, 0]	Any	ICD-10-CM	Any	Exposure: Tirzepatide Reference: Dulaglutide	n/a	Appendix, Covariate – Algorithm

Characteristics	Details	Type of variable	Assessment window	Care Settings ¹	Code Type ²	Diagnosis Position ³	Applied to study populations:	Measurement characteristics / validation	Source for algorithm
Influenza		Binary	[-365, 0]	Any	ICD-10-CM	Any	Exposure: Tirzepatide Reference: Dulaglutide	n/a	Appendix, Covariate – Algorithm
COVID-19		Binary	[-365, 0]	Any	ICD-10-CM	Any	Exposure: Tirzepatide Reference: Dulaglutide	n/a	Appendix, Covariate – Algorithm
Hyperthyroidism and other thyroid gland disorders		Binary	[-365, 0]	Any	ICD-10-CM	Any	Exposure: Tirzepatide Reference: Dulaglutide	n/a	Appendix, Covariate – Algorithm
Hypothyroidism		Binary	[-365, 0]	Any	ICD-10-CM	Any	Exposure: Tirzepatide Reference: Dulaglutide	n/a	Appendix, Covariate – Algorithm
Nephrotic syndrome		Binary	[-365, 0]	Any	ICD-10-CM	Any	Exposure: Tirzepatide Reference: Dulaglutide	n/a	Appendix, Covariate – Algorithm
Urinary incontinence		Binary	[-365, 0]	Any	ICD-10-CM	Any	Exposure: Tirzepatide Reference: Dulaglutide	n/a	Appendix, Covariate – Algorithm

Characteristics	Details	Type of variable	Assessment window	Care Settings ¹	Code Type ²	Diagnosis Position ³	Applied to study populations:	Measurement characteristics / validation	Source for algorithm
Biliary disease		Binary	[-365, 0]	Inpatient	ICD-10-CM	Primary	Exposure: Tirzepatide Reference: Dulaglutide	n/a	Appendix, Covariate – Algorithm
Pancreatitis		Binary	[-365, 0]	Inpatient	ICD-10-CM	Primary	Exposure: Tirzepatide Reference: Dulaglutide	n/a	Appendix, Covariate – Algorithm
Bowel obstruction		Binary	[-365, 0]	Inpatient	ICD-10-CM	Primary	Exposure: Tirzepatide Reference: Dulaglutide	n/a	Appendix, Covariate – Algorithm
Gastroparesis		Binary	[-365, 0]	Any	ICD-10-CM	Any	Exposure: Tirzepatide Reference: Dulaglutide	n/a	Appendix, Covariate – Algorithm
Diabetes medications									
Number of antidiabetic drugs on CED		Continuous	[0, 0]	n/a	generic	n/a	Exposure: Tirzepatide Reference: Dulaglutide	n/a	Appendix, Covariate – Algorithm
Concomitant use or initiation of metformin		Binary	[0, 0]	n/a	generic	n/a	Exposure: Tirzepatide Reference: Dulaglutide	n/a	Appendix, Covariate – Algorithm

Characteristics	Details	Type of variable	Assessment window	Care Settings ¹	Code Type ²	Diagnosis Position ³	Applied to study populations:	Measurement characteristics / validation	Source for algorithm
Concomitant use or initiation of insulin		Binary	[0, 0]	n/a	generic	n/a	Exposure: Tirzepatide Reference: Dulaglutide	n/a	Appendix, Covariate – Algorithm
Concomitant use or initiation of sulfonylureas		Binary	[0, 0]	n/a	generic	n/a	Exposure: Tirzepatide Reference: Dulaglutide	n/a	Appendix, Covariate – Algorithm
Concomitant use or initiation of DPP4i		Binary	[0, 0]	n/a	generic	n/a	Exposure: Tirzepatide Reference: Dulaglutide	n/a	Appendix, Covariate – Algorithm
Concomitant use or initiation of SGLT2i		Binary	[0, 0]	n/a	generic	n/a	Exposure: Tirzepatide Reference: Dulaglutide	n/a	Appendix, Covariate – Algorithm
Concomitant use or initiation of other glucose-lowering drugs		Binary	[0, 0]	n/a	generic	n/a	Exposure: Tirzepatide Reference: Dulaglutide	n/a	Appendix, Covariate – Algorithm
Past use of metformin		Binary	[-365, -1]	n/a	generic	n/a	Exposure: Tirzepatide Reference: Dulaglutide	n/a	Appendix, Covariate – Algorithm

Characteristics	Details	Type of variable	Assessment window	Care Settings ¹	Code Type ²	Diagnosis Position ³	Applied to study populations:	Measurement characteristics / validation	Source for algorithm
Past use of insulin		Binary	[-365, -1]	n/a	generic	n/a	Exposure: Tirzepatide Reference: Dulaglutide	n/a	Appendix, Covariate – Algorithm
Past use of sulfonylureas		Binary	[-365, -1]	n/a	generic	n/a	Exposure: Tirzepatide Reference: Dulaglutide	n/a	Appendix, Covariate – Algorithm
Past use of DPP4i		Binary	[-365, -1]	n/a	generic	n/a	Exposure: Tirzepatide Reference: Dulaglutide	n/a	Appendix, Covariate – Algorithm
Past use of SGLT2i		Binary	[-365, -1]	n/a	generic	n/a	Exposure: Tirzepatide Reference: Dulaglutide	n/a	Appendix, Covariate – Algorithm
Past use of other glucose-lowering drugs		Binary	[-365, -1]	n/a	generic	n/a	Exposure: Tirzepatide Reference: Dulaglutide	n/a	Appendix, Covariate – Algorithm
Heart failure medications									
ACEi / ARB		Binary	[-365, 0]	n/a	generic	n/a	Exposure: Tirzepatide Reference: Dulaglutide	n/a	Appendix, Covariate – Algorithm

Characteristics	Details	Type of variable	Assessment window	Care Settings ¹	Code Type ²	Diagnosis Position ³	Applied to study populations:	Measurement characteristics / validation	Source for algorithm
ARNI		Binary	[-365, 0]	n/a	generic	n/a	Exposure: Tirzepatide Reference: Dulaglutide	n/a	Appendix, Covariate – Algorithm
Thiazides		Binary	[-365, 0]	n/a	generic	n/a	Exposure: Tirzepatide Reference: Dulaglutide	n/a	Appendix, Covariate – Algorithm
Beta-blockers		Binary	[-365, 0]	n/a	generic	n/a	Exposure: Tirzepatide Reference: Dulaglutide	n/a	Appendix, Covariate – Algorithm
Calcium channel blockers		Binary	[-365, 0]	n/a	generic	n/a	Exposure: Tirzepatide Reference: Dulaglutide	n/a	Appendix, Covariate – Algorithm
Digoxin / Digitoxin		Binary	[-365, 0]	n/a	generic	n/a	Exposure: Tirzepatide Reference: Dulaglutide	n/a	Appendix, Covariate – Algorithm
Loop diuretics		Binary	[-365, 0]	n/a	generic	n/a	Exposure: Tirzepatide Reference: Dulaglutide	n/a	Appendix, Covariate – Algorithm

Characteristics	Details	Type of variable	Assessment window	Care Settings ¹	Code Type ²	Diagnosis Position ³	Applied to study populations:	Measurement characteristics / validation	Source for algorithm
Other diuretics		Binary	[-365, 0]	n/a	generic	n/a	Exposure: Tirzepatide Reference: Dulaglutide	n/a	Appendix, Covariate – Algorithm
Intravenous diuretics		Binary	[-365, 0]	n/a	generic	n/a	Exposure: Tirzepatide Reference: Dulaglutide	n/a	Appendix, Covariate – Algorithm
Nitrates		Binary	[-365, 0]	n/a	generic	n/a	Exposure: Tirzepatide Reference: Dulaglutide	n/a	Appendix, Covariate – Algorithm
Other medications									
Anti-arrhythmics		Binary	[-365, 0]	n/a	generic	n/a	Exposure: Tirzepatide Reference: Dulaglutide	n/a	Appendix, Covariate – Algorithm
Statins		Binary	[-365, 0]	n/a	generic	n/a	Exposure: Tirzepatide Reference: Dulaglutide	n/a	Appendix, Covariate – Algorithm
PCSK9 inhibitors and other lipid-lowering drugs		Binary	[-365, 0]	n/a	generic	n/a	Exposure: Tirzepatide Reference: Dulaglutide	n/a	Appendix, Covariate – Algorithm

Characteristics	Details	Type of variable	Assessment window	Care Settings ¹	Code Type ²	Diagnosis Position ³	Applied to study populations:	Measurement characteristics / validation	Source for algorithm
Antiplatelet agents		Binary	[-365, 0]	n/a	generic	n/a	Exposure: Tirzepatide Reference: Dulaglutide	n/a	Appendix, Covariate – Algorithm
Oral anticoagulants		Binary	[-365, 0]	n/a	generic	n/a	Exposure: Tirzepatide Reference: Dulaglutide	n/a	Appendix, Covariate – Algorithm
COPD/Asthma medication		Binary	[-365, 0]	n/a	generic	n/a	Exposure: Tirzepatide Reference: Dulaglutide	n/a	Appendix, Covariate – Algorithm
NSAIDs		Binary	[-365, 0]	n/a	generic	n/a	Exposure: Tirzepatide Reference: Dulaglutide	n/a	Appendix, Covariate – Algorithm
Oral corticosteroids		Binary	[-365, 0]	n/a	generic	n/a	Exposure: Tirzepatide Reference: Dulaglutide	n/a	Appendix, Covariate – Algorithm
Osteoporosis agents (incl. bisphosphonates)		Binary	[-365, 0]	n/a	generic	n/a	Exposure: Tirzepatide Reference: Dulaglutide	n/a	Appendix, Covariate – Algorithm

Characteristics	Details	Type of variable	Assessment window	Care Settings ¹	Code Type ²	Diagnosis Position ³	Applied to study populations:	Measurement characteristics / validation	Source for algorithm
Opioids		Binary	[-365, 0]	n/a	generic	n/a	Exposure: Tirzepatide Reference: Dulaglutide	n/a	Appendix, Covariate – Algorithm
Anti-depressants		Binary	[-365, 0]	n/a	generic	n/a	Exposure: Tirzepatide Reference: Dulaglutide	n/a	Appendix, Covariate – Algorithm
Antipsychotics		Binary	[-365, 0]	n/a	generic	n/a	Exposure: Tirzepatide Reference: Dulaglutide	n/a	Appendix, Covariate – Algorithm
Anxiolytics/hypnotics, benzodiazepines		Binary	[-365, 0]	n/a	generic	n/a	Exposure: Tirzepatide Reference: Dulaglutide	n/a	Appendix, Covariate – Algorithm
Medication for dementia		Binary	[-365, 0]	n/a	generic	n/a	Exposure: Tirzepatide Reference: Dulaglutide	n/a	Appendix, Covariate – Algorithm
Urinary tract infections antibiotics		Binary	[-365, 0]	n/a	generic	n/a	Exposure: Tirzepatide Reference: Dulaglutide	n/a	Appendix, Covariate – Algorithm

Characteristics	Details	Type of variable	Assessment window	Care Settings ¹	Code Type ²	Diagnosis Position ³	Applied to study populations:	Measurement characteristics / validation	Source for algorithm
Laxatives		Binary	[-365, 0]	n/a	generic	n/a	Exposure: Tirzepatide Reference: Dulaglutide	n/a	Appendix, Covariate – Algorithm
Healthcare utilization markers									
Number of distinct medications, median (iqr), mean (sd)		Continuous	[-365, 0]	n/a	n/a	n/a	Exposure: Tirzepatide Reference: Dulaglutide	n/a	Appendix, Covariate – Algorithm
Number of office visits, median (iqr), mean (sd)		Continuous	[-365, 0]	n/a	n/a	n/a	Exposure: Tirzepatide Reference: Dulaglutide	n/a	Appendix, Covariate – Algorithm
Number of endocrinologist visits, median (iqr), mean (sd)		Continuous	[-365, 0]	n/a	n/a	n/a	Exposure: Tirzepatide Reference: Dulaglutide	n/a	Appendix, Covariate – Algorithm
Number of cardiologist visits, median (iqr), mean (sd)		Continuous	[-365, 0]	n/a	n/a	n/a	Exposure: Tirzepatide Reference: Dulaglutide	n/a	Appendix, Covariate – Algorithm
Number of internal medicine/family medicine visits, median (iqr), mean		Continuous	[-365, 0]	n/a	n/a	n/a	Exposure: Tirzepatide Reference: Dulaglutide	n/a	Appendix, Covariate – Algorithm

Characteristics	Details	Type of variable	Assessment window	Care Settings ¹	Code Type ²	Diagnosis Position ³	Applied to study populations:	Measurement characteristics / validation	Source for algorithm
(sd)									
Number of Electrocardiograms, median (iqr), mean (sd)		Continuous	[-365, 0]	n/a	n/a	n/a	Exposure: Tirzepatide Reference: Dulaglutide	n/a	Appendix, Covariate – Algorithm
Number of Echocardiograms, median (iqr), mean (sd)		Continuous	[-365, 0]	n/a	n/a	n/a	Exposure: Tirzepatide Reference: Dulaglutide	n/a	Appendix, Covariate – Algorithm
Pharmacy out-of-pocket cost, median (iqr), mean (sd)		Continuous	[-365, 0]	n/a	n/a	n/a	Exposure: Tirzepatide Reference: Dulaglutide	n/a	Appendix, Covariate – Algorithm
Unique brand medications, median (iqr), mean (sd)**		Continuous	[-365, 0]	n/a	n/a	n/a	Exposure: Tirzepatide Reference: Dulaglutide	n/a	Appendix, Covariate – Algorithm
Unique generic medications, median (iqr), mean (sd)**		Continuous	[-365, 0]	n/a	n/a	n/a	Exposure: Tirzepatide Reference: Dulaglutide	n/a	Appendix, Covariate – Algorithm
Ratio of unique brand to generic medications, median (iqr), mean		Continuous	[-365, 0]	n/a	n/a	n/a	Exposure: Tirzepatide Reference: Dulaglutide	n/a	Appendix, Covariate – Algorithm

Characteristics	Details	Type of variable	Assessment window	Care Settings ¹	Code Type ²	Diagnosis Position ³	Applied to study populations:	Measurement characteristics / validation	Source for algorithm
(sd)									
Healthy behavior markers									
Colonoscopy / Sigmoidoscopy		Binary	[-365, 0]	Any	CPT/HCPSC	Any	Exposure: Tirzepatide Reference: Dulaglutide	n/a	Appendix, Covariate – Algorithm
Flu vaccine / Pneumococcal vaccine		Binary	[-365, 0]	Any	CPT/HCPSC	Any	Exposure: Tirzepatide Reference: Dulaglutide	n/a	Appendix, Covariate – Algorithm
Pap smear test		Binary	[-365, 0]	Any	CPT/HCPSC	Any	Exposure: Tirzepatide Reference: Dulaglutide	n/a	Appendix, Covariate – Algorithm
PSA test		Binary	[-365, 0]	Any	CPT/HCPSC	Any	Exposure: Tirzepatide Reference: Dulaglutide	n/a	Appendix, Covariate – Algorithm
Fecal occult blood test		Binary	[-365, 0]	Any	CPT/HCPSC	Any	Exposure: Tirzepatide Reference: Dulaglutide	n/a	Appendix, Covariate – Algorithm
Bone mineral density tests		Binary	[-365, 0]	Any	CPT/HCPSC	Any	Exposure: Tirzepatide	n/a	Appendix, Covariate – Algorithm

Characteristics	Details	Type of variable	Assessment window	Care Settings ¹	Code Type ²	Diagnosis Position ³	Applied to study populations:	Measurement characteristics / validation	Source for algorithm
							Reference: Dulaglutide		
Mammograms		Binary	[-365, 0]	Any	CPT/HCPCS	Any	Exposure: Tirzepatide Reference: Dulaglutide	n/a	Appendix, Covariate – Algorithm
Telemedicine		Binary	[-365, 0]	Any	CPT/HCPCS	Any	Exposure: Tirzepatide Reference: Dulaglutide	n/a	Appendix, Covariate – Algorithm
Laboratory and diagnostic tests									
Number of HbA1c tests, median (iqr), mean (sd)		Continuous	[-365, 0]	Any	CPT/HCPCS	Any	Exposure: Tirzepatide Reference: Dulaglutide	n/a	Appendix, Covariate – Algorithm
Number of lipid panels, median (iqr), mean (sd)		Continuous	[-365, 0]	Any	CPT/HCPCS	Any	Exposure: Tirzepatide Reference: Dulaglutide	n/a	Appendix, Covariate – Algorithm
Number of creatinine tests, median (iqr), mean (sd)		Continuous	[-365, 0]	Any	CPT/HCPCS	Any	Exposure: Tirzepatide Reference: Dulaglutide	n/a	Appendix, Covariate – Algorithm

Characteristics	Details	Type of variable	Assessment window	Care Settings ¹	Code Type ²	Diagnosis Position ³	Applied to study populations:	Measurement characteristics / validation	Source for algorithm
Number of natriuretic peptide tests, median (iqr), mean (sd)		Continuous	[-365, 0]	Any	CPT/HCPSCS	Any	Exposure: Tirzepatide Reference: Dulaglutide	n/a	Appendix, Covariate – Algorithm
Number of urine tests, median (iqr), mean (sd)		Continuous	[-365, 0]	Any	CPT/HCPSCS	Any	Exposure: Tirzepatide Reference: Dulaglutide	n/a	Appendix, Covariate – Algorithm
Lab values									
HbA1c**		Continuous	[-365, 0]	n/a	n/a	n/a	Exposure: Tirzepatide Reference: Dulaglutide	n/a	Appendix, Covariate – Algorithm
Glucose**		Continuous	[-365, 0]	n/a	n/a	n/a	Exposure: Tirzepatide Reference: Dulaglutide	n/a	Appendix, Covariate – Algorithm
Creatinine**		Continuous	[-365, 0]	n/a	n/a	n/a	Exposure: Tirzepatide Reference: Dulaglutide	n/a	Appendix, Covariate – Algorithm
Systolic blood pressure**		Continuous	[-365, 0]	n/a	n/a	n/a	Exposure: Tirzepatide Reference: Dulaglutide	n/a	Appendix, Covariate – Algorithm

Characteristics	Details	Type of variable	Assessment window	Care Settings ¹	Code Type ²	Diagnosis Position ³	Applied to study populations:	Measurement characteristics / validation	Source for algorithm
Heart rate**		Continuous	[-365, 0]	n/a	n/a	n/a	Exposure: Tirzepatide Reference: Dulaglutide	n/a	Appendix, Covariate – Algorithm
BMI**		Continuous	[-365, 0]	n/a	n/a	n/a	Exposure: Tirzepatide Reference: Dulaglutide	n/a	Appendix, Covariate – Algorithm
eGFR**		Continuous	[-365, 0]	n/a	n/a	n/a	Exposure: Tirzepatide Reference: Dulaglutide	n/a	Appendix, Covariate – Algorithm
LDL** (mg/dl; mean, sd)		Continuous	[-365, 0]	n/a	n/a	n/a	Exposure: Tirzepatide Reference: Dulaglutide	n/a	Appendix, Covariate – Algorithm
HDL** (mg/dl; mean, sd)		Continuous	[-365, 0]	n/a	n/a	n/a	Exposure: Tirzepatide Reference: Dulaglutide	n/a	Appendix, Covariate – Algorithm
Total cholesterol** (mg/dl; mean, sd)		Continuous	[-365, 0]	n/a	n/a	n/a	Exposure: Tirzepatide Reference: Dulaglutide	n/a	Appendix, Covariate – Algorithm

Characteristics	Details	Type of variable	Assessment window	Care Settings ¹	Code Type ²	Diagnosis Position ³	Applied to study populations:	Measurement characteristics / validation	Source for algorithm
Triglyceride** (mg/dl; mean, sd)		Continuous	[-365, 0]	n/a	n/a	n/a	Exposure: Tirzepatide Reference: Dulaglutide	n/a	Appendix, Covariate – Algorithm
Burden of comorbidities									
Combined comorbidity score		Continuous	[-365, 0]	Any	ICD10-CM	Any	Exposure: Tirzepatide Reference: Dulaglutide	n/a	Gagne et al., Sun et al. ^{13,14}
Frailty score		Continuous	[-365, 0]	Any	ICD10-CM	Any	Exposure: Tirzepatide Reference: Dulaglutide	n/a	Kim et al. ¹⁵
Baseline hospitalizations and hospital metrics									
Number of any hospitalization, median (iqr), mean (sd)		Continuous	[-365, 0]	n/a	n/a	n/a	Exposure: Tirzepatide Reference: Dulaglutide	n/a	Appendix, Covariate – Algorithm
Any hospitalization within prior 91 days; n (%)		Binary	[-91, 0]	n/a	n/a	n/a	Exposure: Tirzepatide Reference: Dulaglutide	n/a	Appendix, Covariate – Algorithm
Any hospitalization within prior		Binary	[-365, -92]	n/a	n/a	n/a	Exposure: Tirzepatide	n/a	Appendix, Covariate – Algorithm

Characteristics	Details	Type of variable	Assessment window	Care Settings ¹	Code Type ²	Diagnosis Position ³	Applied to study populations:	Measurement characteristics / validation	Source for algorithm
92-365 days; n (%)							Reference: Dulaglutide		
0, 1, >1 hospitalizations (any)		Continuous	[-365, 0]	n/a	n/a	n/a	Exposure: Tirzepatide Reference: Dulaglutide	n/a	Appendix, Covariate – Algorithm
Hospitalization for heart failure		Binary	[-365, 0]	n/a	n/a	n/a	Exposure: Tirzepatide Reference: Dulaglutide	n/a	Appendix, Covariate – Algorithm
Emergency department visits		Binary	[-365, 0]	n/a	n/a	n/a	Exposure: Tirzepatide Reference: Dulaglutide	n/a	Appendix, Covariate – Algorithm
Calendar year of cohort entry									
2022		Categorical	[0, 0]	n/a	n/a	n/a	Exposure: Tirzepatide Reference: Dulaglutide	n/a	n/a
2023		Categorical	[0, 0]	n/a	n/a	n/a	Exposure: Tirzepatide Reference: Dulaglutide	n/a	n/a

Characteristics	Details	Type of variable	Assessment window	Care Settings ¹	Code Type ²	Diagnosis Position ³	Applied to study populations:	Measurement characteristics / validation	Source for algorithm
2024		Categorical	[0, 0]	n/a	n/a	n/a	Exposure: Tirzepatide Reference: Dulaglutide	n/a	n/a
2025		Categorical	[0, 0]	n/a	n/a	n/a	Exposure: Tirzepatide Reference: Dulaglutide	n/a	n/a

¹IP = inpatient, OP = outpatient, ED = emergency department, OT = other, n/a = not applicable

²See appendix for listing of clinical codes for each study parameter

³Specify whether a diagnosis code is required to be in the primary position (main reason for encounter)

*Available for Optum Clinformatics and Medicare

**Not used in the PS model

6.5 Data analysis

6.5.1 Context and rationale for analysis plan

The studies will use a propensity score (PS) 1:1 nearest neighbor matching with a caliper of 0.01 on the propensity score scale. The propensity score will be estimated as the probability of initiating tirzepatide vs dulaglutide given the baseline patient characteristics using multivariable logistic regression models. As diagnostics for PS models, the study will evaluate distributional covariate balance using standardized differences and c-statistics post-matching. The study will estimate the hazard ratio for tirzepatide vs dulaglutide on MACE outcome in the matched population using a Cox proportional hazards model.

Table 3. Primary, secondary, and subgroup analysis specification

A. Primary analyses

Hypothesis: Tirzepatide does not increase the risk of a composite of death, myocardial infarction, or stroke in patients with T2DM and an established CVD when following the eligibility criteria of the SURPASS-CVOT trial.

Exposure contrast:	Tirzepatide vs dulaglutide.
Outcome:	Composite of all-cause mortality, myocardial infarction, or stroke.
Analytic software:	Aetion, SAS 9.4, R.4.4.0, Python 3.13.3
Model(s): (provide details or code)	Outcome model: Cox proportional hazards Follow-up time * status(0) = exposure
Confounding adjustment method	Name method and provide relevant details, e.g. bivariate, multivariable, propensity score weighting (specify weighting algorithm ratio and caliper), propensity score weighting (specify weight formula, trimming, truncation), propensity score stratification (specify strata definition), other.
	1:1 Propensity score nearest-neighbor matching with a caliper of 0.01 on the propensity score scale.
Missing data methods	Name method and provide relevant details, e.g. missing indicators, complete case, last value carried forward, multiple imputation (specify model/variables), other.
	Assumption that if no relevant claims diagnoses/procedures are present, the condition is not present.
Subgroup Analyses	List all subgroups
	N/A.

B. Secondary Analyses

Hypothesis:	Tirzepatide does not increase the risk of occurrence of the individual components of the primary endpoint, i.e., all-cause mortality, myocardial infarction, or stroke in patients with T2DM and an established CVD when following the eligibility criteria of the SURPASS-CVOT trial.
Exposure contrast:	Tirzepatide vs dulaglutide.
Outcome:	Individual components of the primary endpoint, i.e., all-cause mortality, myocardial infarction, or stroke.
Analytic software:	Aetion, SAS 9.4, R.4.4.0, Python 3.13.3
Model(s): (provide details or code)	Outcome model: Cox proportional hazards for all-cause mortality, Aalen-Johansen estimator for myocardial infarction and stroke to account for the competing risk of death. Follow-up time * status(0) = exposure
Confounding adjustment method	Name method and provide relevant details, e.g. bivariate, multivariable, propensity score weighting (specify weighting algorithm ratio and caliper), propensity score weighting (specify weight formula, trimming, truncation), propensity score stratification (specify strata definition), other.
	1:1 Propensity score nearest-neighbor matching with a caliper of 0.01 on the propensity score scale.
Missing data methods	Name method and provide relevant details, e.g. missing indicators, complete case, last value carried forward, multiple imputation (specify model/variables), other.
	Assumption that if no relevant claims diagnoses/procedures are present, the condition is not present.
Subgroup Analyses	List all subgroups
	N/A.

Hypothesis:	Tirzepatide vs dulaglutide has no effect on risk of negative control outcomes compared to dulaglutide. Negative control outcomes include (1) hernia and (2) lumbar radiculopathy.
Exposure contrast:	Tirzepatide vs dulaglutide.
Outcome:	Separate analyses for each negative control outcome, including hernia and lumbar radiculopathy
Analytic software:	Aetion, SAS 9.4, R.4.4.0, Python 3.13.3
Model(s): (provide details or code)	Outcome model: Cox proportional hazards Follow-up time*status(0) = exposure
Confounding adjustment method	Name method and provide relevant details, e.g. bivariate, multivariable, propensity score weighting (specify weighting algorithm ratio and caliper), propensity score weighting (specify weight formula, trimming, truncation), propensity score stratification (specify strata definition), other. 1:1 Propensity score nearest-neighbor matching with a caliper of 0.01 on the propensity score scale.
Missing data methods	Name method and provide relevant details, e.g. missing indicators, complete case, last value carried forward, multiple imputation (specify model/variables), other. Assumption that if no relevant claims diagnoses/procedures are present, the condition is not present.
Subgroup Analyses	List all subgroups N/A.

Table 4. Sensitivity analyses – rationale, strengths and limitations

	What is being varied? How?	Why? (What do you expect to learn?)	Strengths of the sensitivity analysis compared to the primary	Limitations of the sensitivity analysis compared to the primary
Negative control outcomes, including hernia, lumbar radiculopathy	We evaluate negative control outcomes of hernia and lumbar radiculopathy, where no causal effect is expected from tirzepatide, or dulaglutide.	We will evaluate the potential impact of residual confounding on this outcome for which there is not expected to be a causal effect	The evaluates the robustness of the interpretation of the primary analysis by evaluating the potential magnitude of unmeasured confounding	This analysis assumes that the confounding structure is the same or similar for the negative control outcome as the outcome of interest
Effect estimation in individuals with HbA1c measurement.	The population will be restricted to individuals with a HbA1c measurement in the 120 days before cohort entry.	To assess the impact of restricting to individuals with HbA1c measurement and including HbA1c in the PS model.	Includes baseline glycemic information as captured in laboratory HbA1c measurements.	This approach highly restricts the number of eligible individuals under study and thereby the statistical power of the analysis.

As-started analyses (observational analogue to intention-to-treat) to address potential informative censoring.	To address potential informative censoring.	We will consider the first-used medication for 365 days without considering drug discontinuation or switching, mimicking an “intention-to-treat” approach.	Reflects follow-up regimen of RCT.	Persistence of drug use is shorter in clinical practice whereas adherence is typically higher in RCTs. Therefore, we expect the estimated effects will be diluted toward the null, underestimating the true treatment effect had patients remained on therapy.
2-year on-treatment analysis (post-hoc)	We will follow the patients for up to 2 years on-treatment.	To examine potential changes in the comparative effectiveness beyond the 1-year on-treatment analysis.	Examines potential changes of effectiveness beyond the 1-year follow-up in the primary analysis.	Very few patients in clinical practice remain on treatment beyond one year. Consequently, the small number of individuals still at risk during extended follow-up represents a selected subset of patients, which may introduce bias. Moreover, the sparse data in this later period mean that outcomes among a few remaining participants can have a disproportionate effect on the Kaplan–Meier estimates.

6.5.2 Comparison of Results Between Database Studies and RCTs

We attempt to predict the results of the SURPASS-CVOT trial. Failure to predict the RCT findings is not necessarily indicative of the inadequacy of the healthcare claims data for emulation for a range of possible reasons, nor does failure to predict trial results provide information about the validity of the respective trial.¹⁶ Once trials results are available, assessment of concordance in results between the database study-trial pair will use the metrics previously implemented in the RCT-DUPLICATE initiative, namely statistical significance agreement, estimate agreement, and standardized difference agreement. In this project, “full” statistical significance agreement was defined by estimates and confidence intervals on the same side of null; estimate agreement was defined by whether estimates for the trial emulation fell within the 95% CI for the trial results; standardized difference agreement between treatment effect estimates from trials and emulations was defined by standardized differences $|Z| < 1.96$ ($Z = \frac{(\hat{\theta}_{RCT} - \hat{\theta}_{RWE})}{(\sqrt{\hat{\sigma}^2_{RCT} + \hat{\sigma}^2_{RWE}})}$ where $\hat{\theta}$ are the treatment effect estimates and the $\hat{\sigma}^2$ are associated variances). In addition, “partial” significance agreement was defined as meeting pre-specified non-inferiority criteria even though a more highly powered database study may have indicated superiority.^{16,17}

6.6 Data sources

6.6.1 Context and rationale for data sources

Reason for selection: The study will be conducted in 2 US health care claims databases: Optum Clinformatics (2022-2025), and Merative MarketScan (2022-2023). Data from the Merative MarketScan database will only be included if sufficient sample size can be accrued.

Strengths of data source(s): Each data source contains deidentified, longitudinal, date-stamped information on patient enrollment, demographics, inpatient/outpatient diagnosis and procedures, admission and discharge dates, and medication dispensation. The death data is captured in the Optum database from inpatient discharge status, social security death master file, and deaths scraped from obituaries or other sources. The death data in MarketScan is captured from the social security death master file and inpatient discharge status. It is recognized that the social security death master file has high specificity and positive predictive value for deaths. While this data resource has under captured deaths since 2011, the capture of deaths is not expected to be differential between compared exposure groups.

Limitations of data source(s): Patient healthcare encounters are only observable when they are enrolled in an insurance plan that contributes to the database. Patients may change insurance plans for multiple reasons. Both Optum Clinformatics and Merative MarketScan are primarily employer based insurance databases where patients may disenroll with job changes. In claims data, dispensing data for inpatient medication is unavailable. Diagnoses reflect billing practices, therefore algorithms (preferably validated) are needed for accurate phenotyping of patient conditions. Services that are not covered by insurance do not appear in the data. The trial evaluated cardiovascular deaths, however we will evaluate all-cause mortality in the emulation because most deaths in this cohort of patients at high cardiovascular risk will be related to cardiovascular reasons, the cause of death is not recorded for databases not linked to NDI, and the performance of NDI at identifying cardiovascular causes of death may be suboptimal.¹⁸

Data source provenance/curation:

Information about Optum Clinformatics and Merative MarketScan can be found in data dictionaries and user guides that are provided to clients.

Table 5. Metadata about data sources and software

	Data 1	Data 2
Data Source(s):	Optum Clinformatics	Merative MarketScan
Study Period:	13 th May 2022	13 th May 2022
Eligible Cohort Entry Period:	February 28, 2025	December 31, 2023

Data Version (or date of last update):	April 2025	Mortality Cut Set A Received 2024-03-01
Data sampling/extraction criteria:	n/a	n/a
Type(s) of data:	Administrative claims	Administrative claims
Data linkage:	n/a	n/a
Conversion to CDM*:	n/a	n/a
Software for data management:	Aetion Evidence Platform® (2025)	Aetion Evidence Platform® (2025)

*CDM = Common Data Model

6.7 Data management

Tracking data: The Data Use Agreement (DUA) Custodian (Principal Investigator) and the Division Operations Manager (Winta Tekle) are responsible for receiving and creating a record of new data associated with the given request. The Operations Manager is responsible for all indexing and archiving of documents and electronic media related to data that the Division receives and will log data location, data contents, and associated DUA and Institutional Review Board (IRB) numbers in the Division's centralized tracking system.

Handling and storage: In-scope data will be stored utilizing Mass General Brigham approved information systems – i.e., Division servers and Mass General Brigham network storage.

Archiving: Data retention and any removal will be executed by the Division Operations Manager (Winta Tekle) and Data Manager (Todd MacGarvey). The Division follows Mass General Brigham enterprise record retention policies and follow the terms of the agreement through which the in-scope data was received.

Information security: The Division follows Mass General Brigham's Enterprise Information Security Program (EISP). The EISP helps by providing assurance that Mass General Brigham information and information systems are protected from unauthorized access, use, disclosure, duplication, modification, or destruction in order to maintain their confidentiality, integrity, and availability. To that end, the EISP policies, standards and procedures create an information security framework that is aligned with the recommendations of the International Organization for Standardization's (ISO) publication 27001 and the National Institute of Standards and Technology's (NIST) publication 800-53 Family of Controls and MGB regulatory and legal requirements (as a HIPAA covered entity).

Mass General Brigham workforce members are required to complete new workforce privacy and information security training upon hire and annually thereafter. Refresh training is provided as appropriate. Mass General Brigham workforce members are required to review and sign a Confidentiality Agreement upon hire and annually thereafter. Additionally, we follow Enterprise Information Security and Privacy policies, including Managing Workforce Members Information Security Responsibilities Policy, which was developed to help assure that Mass General Brigham workforce members

are competent and eligible to support the information security responsibilities associated with their role. Mass General Brigham workforce, including Division staff, are required to comply with Enterprise Information Security and Privacy Policies.

Facilities: The research team uses a highly secure, state-of-the-art, computing facility housed at Mass General Brigham's Corporate Data Centers in Needham and Marlborough, Massachusetts as well as Amazon Web Services (AWS). We maintain redundant storage for maximal data integrity and high-speed data access.

The Division uses Mass General Brigham corporate provisioned servers to analyze and store data in connection with this project. There are strict access controls enforced by technical means to ensure that only study staff who have been approved to conduct data analyses and contracted data engineers are able to access data (e.g., Mass General Brigham Authentication (Active Directory) utilized; auditing, logging, and monitoring enabled; firewalls enabled; etc.). All Division servers used in this study are accessible to only authorized staff only through the MGB network and utilizing VPN as appropriate (i.e., users must be on the network and logged into VPN to access). Mass General Brigham has a network information security monitoring team and in-scope servers are enrolled in enterprise security tools (e.g., vulnerability scanning service, antivirus, etc.).

The Division also uses AWS. In-scope AWS services / resources have undergone review and assessment by Mass General Brigham's Information Security Risk Assessment Team/ InfoSec Risk Management Team as required and in alignment with NIST 800-30: Guide for Conducting Risk Assessments. In-scope AWS servers are for our exclusive use (reserved instances), are covered under our organization's Business Associate Agreement with AWS. In-scope servers are housed in anonymous facilities that are not branded as AWS facilities. Physical access is strictly controlled both at the perimeter and at building ingress points by professional security staff utilizing video surveillance, intrusion detection systems, and other electronic means.

Security attributes and controls for the Division's use of in-scope AWS in connection with this project include: encryption at rest and in transit (industry standard AES-256 encryption, SSL/TSL), anti-malware, latest OS updates and patches as well as anti-virus; multi-factor authentication (MFA), Identity and Access Management, including SSO; auditing and logging; principle of least privilege, including for traffic and ports (e.g., deny all default configurations), use of VPC enabled Step functions, etc.; separation between environments; minimum necessary (out of the box AWS roles are not used as they can be overly permissive); all data would reside in the US domestic regions – use only US east HIPAA compliant region; performance monitoring enabled and reviewed as per internal processes; passwords compliant with enterprise password policy and, as appropriate, more protective password requirements; etc. Our Division's AWS use is also subject to ongoing evaluation and monitoring as well – e.g., vulnerability scanning and management, access review, etc.

A data file list will be maintained in Amazon S3 and tracked through Cloudtrail and Cloudwatch. Reporting of data file availability for any file stored in an S3 bucket will be controlled by MGB.

Amazon EC2, Amazon EBS, and Amazon VPC are integrated with AWS CloudTrail, a service that provides a record of actions taken by a user, role, or an AWS service in Amazon EC2, Amazon EBS, and Amazon VPC. CloudTrail captures all API calls for Amazon EC2, Amazon EBS, and Amazon VPC as events, including calls from the console and from code calls to the APIs. MGB IT/security staff have full access to CloudTrail to ensure that CloudTrail monitoring is available at all times. Amazon CloudWatch Events delivers a near-real-time stream of system events that describe changes in AWS resources. Amazon CloudTrail can log, continuously monitor, and retain account activity related to actions across the MGB AWS infrastructure. CloudTrail provides event history of MGB AWS account activity. This event history simplifies security analysis, resource change tracking, and troubleshooting and complies with requirements to ensure the data file inventory is controlled by MGB.

Backups: Backups are created using industry recognized Cryptographic mechanisms (e.g., 256-bit AES encryption) as appropriate and required. Data are backed up within the MGB network from the MGB Needham data center to the MGB Marlborough data center via replication/mirroring and volume-level snapshots. AWS Backup supports both instance-level backups as Amazon Machine Images (AMIs) and volume-level backups as separate snapshots based on the resource tags. AMIs allow MGB IT and security staff to create backups of all S3 and EC2 instances.

In addition to the safeguards listed above, the Division follows enterprise privacy and information security policies and maintains internally procedures in connection with this project to safeguard the data in connection with this project as appropriate and required including: Physical Security and Environmental Controls for Electronic Information Policy; IT Access Control Standards for Users policy; Safeguarding Fax Copiers Printers Telephone Use and Pagers; Physical Removal and Transport of Protected Health Information and Personal Information policy, etc.

6.8 Quality control

Senior Programmers and Research Specialists perform QA/QC on raw or common data model converted data via SAS/R/Aetion software. The protocol will be iteratively developed and pre-specified data checks including feasibility counts and balance on baseline covariates will be conducted with outputs reviewed by MGB team members. Team members will review code lists to ensure fidelity to intended algorithms.

6.9 Study size and feasibility

See appendix 4 and appendix 5 (feasibility, weighting on age, sex, comorbidity score as well as all predefined propensity score variables). Propensity score distribution plots with c-statistics are available in appendix 6. Table 1 showing prevalence of baseline characteristics and standardized differences in distribution are available in appendix 7. Additional diagnostic evaluations, including balance assessments of laboratory and clinical examination test results not included in the propensity score as well as assessment of heart failure-related medication after follow-up, will be conducted to assess potential residual confounding and divergence of treatment over time.

7. Limitation of the methods

As we are using secondary data and the data were not collected for research purposes, some important variables may not be collected or will be measured imperfectly. We have selected validated algorithms when possible and we have created proxies for important variables that are not directly captured in the data to reduce confounding by unmeasured factors.

When comparing results from an RCT to a database study that emulates the design, we assume that the findings from the single RCT are internally valid.

Although we plan to emulate the important features of each trial as closely as possible in healthcare claims, there may be some elements of the RCT design that are not emulable with a database study, which means that the real-world evidence obtained from the database study and trial will address

slightly different clinical questions. For example, in routine clinical care, adherence to treatment is typically not as high as it is in an RCT with strong measures in place to encourage adherence to the study protocol. This means that there is more discontinuation and short-term medication use in the patients identified in claims databases than trial participants.

Apparent agreement between RCT and database study results could occur if the effects of multiple factors (chance, emulation differences, bias) cancel each other out.

8. Protection of human subjects

This study has been approved by the Brigham and Women's Hospital Institutional Review Board.

9. References

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10. Appendices

See accompanying excel files that specify the cohort study.

1 Target Trial Framework, Operational Definitions, and Data Fitness Assessment

2 Code algorithms

- 2a Exposure
- 2a Inclusion
- 2c Exclusion
- 2d Outcome

3 Flowchart for cohort assembly

4 1st feasibility assessment

5 2nd feasibility assessment

6 Balance Assessment - PS Distribution and C-Statistic

7 Balance Assessment - Table 1

8 Covariate - Algorithm Sources

	SURPASS-CVOT	OPTUM	MARKETSCAN
Treatment assignment (time 0, index date)	International, double-blind, randomized, active-controlled trial to treatment A vs B	Non-randomized initiation of treatment (first eligible entry to study population) Tirzepatide vs Dulaglutide	Non-randomized initiation of treatment (first eligible entry to study population) Tirzepatide vs Dulaglutide
Exposure	Tirzepatide (subcutaneously once per week)	Code type: RX Care setting: N/A Diagnosis position: N/A Washout window: [-183, -1] Incident with respect to: Tirzepatide in any formulation or dose Assessment window: N/A Source of algorithm: N/A Measurement characteristics: N/A	Code type: RX Care setting: N/A Diagnosis position: N/A Washout window: [-183, -1] Incident with respect to: Tirzepatide in any formulation or dose Assessment window: N/A Source of algorithm: N/A Measurement characteristics: N/A
Comparator	Dulaglutide (subcutaneously once per week)	Code type: RX Care setting: N/A Diagnosis position: N/A Washout window: [-183, -1] Incident with respect to: Dulaglutide in any formulation or dose Assessment window: N/A Source of algorithm: N/A Measurement characteristics: N/A	Code type: RX Care setting: N/A Diagnosis position: N/A Washout window: [-183, -1] Incident with respect to: Dulaglutide in any formulation or dose Assessment window: N/A Source of algorithm: N/A Measurement characteristics: N/A
Primary outcome to be emulated	MACE, defined as CV death, MI, or stroke	Code type: DX, PX Care setting: Inpatient for stroke/MI, any for death Diagnosis position: Primary for Stroke, Any for MI Washout window: Source of algorithm: Measurement characteristics: Death includes information from the inpatient discharged dead status, social security death master file, and deaths scraped from obituaries or other sources.	Code type: DX, PX Care setting: Inpatient for stroke/MI, any for death Diagnosis position: Primary Washout window: Source of algorithm: Measurement characteristics: Death includes information from the inpatient discharged dead status, social security death master file, and deaths scraped from obituaries or other sources.
Secondary outcome to be emulated	- Time to first occurrence of individual components of primary composite outcome. - Hernia (negative control) - Lumbar radiculopathy (negative control)	PPV for ischemic stroke using ICD9 codes was 88% and 95% [https://pubmed.ncbi.nlm.nih.gov/12364739/ and https://pubmed.ncbi.nlm.nih.gov/20140892/] Both of the above ICD9 codes were mapped to ICD10, but no validation study was performed.	PPV for ischemic stroke using ICD9 codes was 88% and 95% [https://pubmed.ncbi.nlm.nih.gov/12364739/ and https://pubmed.ncbi.nlm.nih.gov/20140892/] Both of the above ICD9 codes were mapped to ICD10, but no validation study was performed.
Follow up start	Randomization date	One day after initiation of treatment with tirzepatide or dulaglutide Earliest of: Outcome, end of observation in data, end of study period (365 days), discontinuation of study drug (45 days grace window and risk-window), switch to other GLP-1-RA, nursing home admission	One day after initiation of treatment with tirzepatide or dulaglutide Earliest of: Outcome, end of observation in data, end of study period (365 days), discontinuation of study drug (45 days grace window and risk-window), switch to other GLP-1-RA, nursing home admission
Follow up end	Expected mean follow-up: 4 years		
Causal estimand	Intention-to-treat effect	On-treatment effect	On-treatment effect
Effect estimation	Cox proportional hazards model	Cox proportional hazards regression model	Cox proportional hazards regression model
Inclusion criteria		Applied before/after selection of index date: Before Assessment window: [0, 0] Code type: N/A Care setting: N/A Diagnosis position: N/A Source of algorithm: N/A Measurement characteristics: N/A	Applied before/after selection of index date: Before Assessment window: [0, 0] Code type: N/A Care setting: N/A Diagnosis position: N/A Source of algorithm: N/A Measurement characteristics: N/A
1	Men and women aged 40 years or older	Applied before/after selection of index date: Before Assessment window: [-365, 0] Code type: DX Care setting: Any Diagnosis position: Any Source of algorithm: PROMISE team Measurement characteristics: N/A	Applied before/after selection of index date: Before Assessment window: [-365, 0] Code type: DX Care setting: Any Diagnosis position: Any Source of algorithm: PROMISE team Measurement characteristics: N/A
2	Type 2 diabetes mellitus	Applied before/after selection of index date: Before Assessment window: [-120, 0] Code type: DX Care setting: Any Diagnosis position: Any Source of algorithm: PROMISE team Measurement characteristics: N/A	Applied before/after selection of index date: Before Assessment window: [-120, 0] Code type: DX Care setting: Any Diagnosis position: Any Source of algorithm: PROMISE team Measurement characteristics: N/A
3	HbA1c $\geq 7\%$ and $\leq 10.5\%$	Applied before/after selection of index date: Before Assessment window: [-730, 0] Code type: DX, LOINC Care setting: Any Diagnosis position: Any Source of algorithm: Validation of obesity-related diagnosis codes in claims data; Validation of body mass index (BMI)-related ICD-9-CM and ICD-10-CM administrative diagnosis codes recorded in US claims data Measurement characteristics: N/A	Applied before/after selection of index date: Before Assessment window: [-730, 0] Code type: DX, LOINC Care setting: Any Diagnosis position: Any Source of algorithm: Validation of obesity-related diagnosis codes in claims data; Validation of body mass index (BMI)-related ICD-9-CM and ICD-10-CM administrative diagnosis codes recorded in US claims data Measurement characteristics: N/A
4	BMI $\geq 25\text{kg}/\text{m}^2$		
5	Established atherosclerotic cardiovascular disease, either one of:		
5.1	Coronary artery disease, either one of:	Applied before/after selection of index date: Before Assessment window: [all available data, 0] Code type: DX Care setting: Any Diagnosis position: Any Source of algorithm: N/A Measurement characteristics: N/A	Applied before/after selection of index date: Before Assessment window: [all available data, 0] Code type: DX Care setting: Any Diagnosis position: Any Source of algorithm: N/A Measurement characteristics: N/A
5.1.1	Documented history of myocardial infarction	Applied before/after selection of index date: Before Assessment window: [all available data, 0] Code type: DX Care setting: Any Diagnosis position: Any Source of algorithm: N/A Measurement characteristics: N/A	Applied before/after selection of index date: Before Assessment window: [all available data, 0] Code type: DX Care setting: Any Diagnosis position: Any Source of algorithm: N/A Measurement characteristics: N/A
5.1.2	$\geq 50\%$ stenosis in ≥ 1 major coronary arteries determined by invasive angiography		

Notes/Questions

Color coding

Good proxy definition
Moderate proxy definition
Poorly measured in database
Poorly measured in database and not important

Algorithm detail: Adherence in clinical practice databases is expected to be much worse than in the trial, therefore the on-treatment analysis at 1 year follow-up will be the primary analysis.

Algorithm detail: Not considered in the main cohort due to high missingness of HbA1c measurements. A sensitivity analyses on a subset of the cohort with HbA1c measurements will be conducted in the cohort from the Optum database, including the last recorded value in the propensity score.

Algorithm detail: If BMI measurement via LOINC code is below 10 or above 100 then measure is set to missing.

Algorithm detail: $\geq 50\%$ stenosis was proxied by ICD-10 codes, based on the premise that most patients are coded only after surpassing the [symptomatic threshold of 50-70%](#).

5.1.3	≥50% stenosis in 2 or more major coronary arteries	Applied before/after selection of index date: Before Assessment window: [all available data, 0] Code type: DX Care setting: Any Diagnosis position: Any Source of algorithm: N/A Measurement characteristics: N/A	Applied before/after selection of index date: Before Assessment window: [all available data, 0] Code type: DX Care setting: Any Diagnosis position: Any Source of algorithm: N/A Measurement characteristics: N/A	See 5.1.2
		Applied before/after selection of index date: Before Assessment window: [all available data, 0] Code type: DX, P, PX Care setting: Any Diagnosis position: N/A Source of algorithm: N/A Measurement characteristics: N/A	Applied before/after selection of index date: Before Assessment window: [all available data, 0] Code type: DX, PX Care setting: Any Diagnosis position: N/A Source of algorithm: N/A Measurement characteristics: N/A	
5.1.4	History of surgical or percutaneous coronary revascularization procedure			
5.2	Cerebrovascular disease, either one of:			
5.2.1	Documented history of ischemic stroke	Applied before/after selection of index date: Before Assessment window: [all available data, 0] Code type: DX Care setting: Any Diagnosis position: Any Source of algorithm: N/A Measurement characteristics: N/A	Applied before/after selection of index date: Before Assessment window: [all available data, 0] Code type: DX Care setting: Any Diagnosis position: Any Source of algorithm: N/A Measurement characteristics: N/A	
		Applied before/after selection of index date: Before Assessment window: [all available data, 0] Code type: DX Care setting: Any Diagnosis position: Any Source of algorithm: N/A Measurement characteristics: N/A	Applied before/after selection of index date: Before Assessment window: [all available data, 0] Code type: DX Care setting: Any Diagnosis position: Any Source of algorithm: N/A Measurement characteristics: N/A	
5.2.2	Carotid arterial disease with ≥50% stenosis, documented by carotid ultrasound, MRI, or angiography			See 5.1.2
5.2.3	History of carotid stenting or surgical revascularization			
5.3	Peripheral arterial disease, either one of:			
5.3.1	Intermittent claudication and ankle-brachial index <0.9	Applied before/after selection of index date: Before Assessment window: [-all available data, 0] Code type: DX Care setting: Any Diagnosis position: Any Source of algorithm: N/A Measurement characteristics: N/A	Applied before/after selection of index date: Before Assessment window: [-all available data, 0] Code type: DX Care setting: Any Diagnosis position: Any Source of algorithm: N/A Measurement characteristics: N/A	Algorithm detail: Intermittent claudication was proxied by ICD-10-CM codes for peripheral vascular disease.
		Applied before/after selection of index date: Before Assessment window: [all available data, 0] Code type: DX, PX Care setting: Any Diagnosis position: Any Source of algorithm: N/A Measurement characteristics: N/A	Applied before/after selection of index date: Before Assessment window: [all available data, 0] Code type: DX, PX Care setting: Any Diagnosis position: Any Source of algorithm: N/A Measurement characteristics: N/A	
5.3.2	Prior nontraumatic amputation or peripheral vascular procedure (eg, stenting or surgical revascularization), due to peripheral arterial ischemia			
Exclusion criteria				
6	HbA1c >10.5%	Applied before/after selection of index date: Before Assessment window: [-120, 0] Code type: DX Care setting: Any Diagnosis position: Any Source of algorithm: PROMISE team Measurement characteristics: N/A	Applied before/after selection of index date: Before Assessment window: [-120, 0] Code type: DX Care setting: Any Diagnosis position: Any Source of algorithm: PROMISE team Measurement characteristics: N/A	Algorithm detail: Not considered in the main cohort due to high missingness of HbA1c measurements. A sensitivity analyses on a subset of the cohort with HbA1c measurements will be conducted in the cohort from the Optum database, including the last recorded value in the propensity score.
		Applied before/after selection of index date: Before Assessment window: [-365, 0] Code type: PX Care setting: Any Diagnosis position: Any Source of algorithm: PROMISE team Measurement characteristics: N/A	Applied before/after selection of index date: Before Assessment window: [-365, 0] Code type: PX Care setting: Any Diagnosis position: Any Source of algorithm: PROMISE team Measurement characteristics: N/A	
7	Planning treatment for diabetic retinopathy and/or macular edema			Algorithm detail: Planned treatment will be proxied by a history of treatment (eg, codes for intravitreal injection of anti-VEGFI OR photocoagulation)
8	Hospitalized for chronic heart failure within 2 months prior to screening			
9	Chronic New York Heart Association Functional Classification IV heart failure	Can't be measured in claims.	Can't be measured in claims.	Algorithm detail: A proportion of patients with NYHA class IV will be excluded from the cohort by exclusion criterion B.
10	Planned coronary, carotid, or peripheral artery revascularization	Can't be measured in claims.	Can't be measured in claims.	
11	History of chronic or acute pancreatitis	Applied before/after selection of index date: Before Assessment window: [-183, 0] Code type: DX Care setting: Any Diagnosis position: Any Source of algorithm: PROMISE team Measurement characteristics: N/A	Applied before/after selection of index date: Before Assessment window: [-183, 0] Code type: DX Care setting: Any Diagnosis position: Any Source of algorithm: PROMISE team Measurement characteristics: N/A	
		Applied before/after selection of index date: Before Assessment window: [-365, 0] Code type: DX, Care setting: Inpatient Diagnosis position: Any Source of algorithm: PROMISE team, https://pubmed.ncbi.nlm.nih.gov/35857336/ , Investigator reviewed codes	Applied before/after selection of index date: Before Assessment window: [-365, 0] Code type: DX, Care setting: Inpatient Diagnosis position: Any Source of algorithm: PROMISE team, https://pubmed.ncbi.nlm.nih.gov/35857336/ , Investigator reviewed codes	
12	Known clinically significant gastric emptying abnormality or bariatric surgery			See SUMMIT

		Applied before/after selection of index date: Before Assessment window: [-183, 0] Code type: DX, PX Care setting: Any Diagnosis position: Any Source of algorithm: Investigator reviewed codes Measurement characteristics: N/A	Applied before/after selection of index date: Before Assessment window: [-183, 0] Code type: DX, PX Care setting: Any Diagnosis position: Any Source of algorithm: Investigator reviewed codes Measurement characteristics: N/A	
13	Liver disease (not including non-alcoholic fatty liver disease [NAFLD]) or ALT level $\geq 3\times$ the ULN	Applied before/after selection of index date: Before Assessment window: [-365, 0] Code type: DX, PX Care setting: Any Diagnosis position: Any Source of algorithm: PROMISE team Measurement characteristics: N/A	Applied before/after selection of index date: Before Assessment window: [-365, 0] Code type: DX, PX Care setting: Any Diagnosis position: Any Source of algorithm: PROMISE team Measurement characteristics: N/A	Algorithm detail: Based on diagnostic codes rather than laboratory values.
14	eGFR <15 mL/Min/1.73 m ² or on chronic dialysis	Applied before/after selection of index date: Before Assessment window: [all available data, 0] Code type: DX Care setting: Any Diagnosis position: Any Source of algorithm: PROMISE team Measurement characteristics: N/A	Applied before/after selection of index date: Before Assessment window: [all available data, 0] Code type: DX Care setting: Any Diagnosis position: Any Source of algorithm: PROMISE team Measurement characteristics: N/A	Algorithm detail: Proxied by ICD-10-CM codes for chronic kidney disease stage 5 OR end-stage renal disease OR ICD-10-CM procedure codes for dialysis.
15	Family or personal history of multiple endocrine neoplasia or medullary thyroid carcinoma	Source of algorithm: PROMISE team Measurement characteristics: N/A	Source of algorithm: PROMISE team Measurement characteristics: N/A	
16	Elevated serum calcitonin level	Can't be measured in claims.	Can't be measured in claims.	
17	Cardiovascular event or intervention <60 days prior to screening	Applied before/after selection of index date: Before Assessment window: [-60, 0] for all except unstable angina [-30, 0] Code type: DX, PX Care setting: Inpatient/ED for MI, Stroke, TIA, inpatient for procedures Diagnosis position: Any Source of algorithm: PROMISE team, Investigator reviewed codes Measurement characteristics: N/A	Applied before/after selection of index date: Before Assessment window: [-60, 0] for all except unstable angina [-30, 0] Code type: DX, PX Care setting: Inpatient/ED for MI, Stroke, TIA, inpatient for procedures Diagnosis position: Any Source of algorithm: PROMISE team, Investigator reviewed codes Measurement characteristics: N/A	
18	GLP-1-RA or pramlintide treatment within 3 months prior to Visit 1	Applied before/after selection of index date: Before Assessment window: [-183, 0] Code type: RX Care setting: N/A Diagnosis position: N/A Source of algorithm: N/A Measurement characteristics: n/a	Applied before/after selection of index date: Before Assessment window: [-183, 0] Code type: RX Care setting: N/A Diagnosis position: N/A Source of algorithm: N/A Measurement characteristics: n/a	
19	Women who are pregnant or breastfeeding	Applied before/after selection of index date: Before Assessment window: [-365, 0] Code type: DX Care setting: Any Diagnosis position: Any Source of algorithm: Pregnancy team Measurement characteristics: N/A	Applied before/after selection of index date: Before Assessment window: [-365, 0] Code type: DX Care setting: Any Diagnosis position: Any Source of algorithm: Pregnancy team Measurement characteristics: N/A	Algorithm detail: Proxied by ICD-10-CM codes indicative of pregnancy at baseline.

Variable_Name	Code	Code_category	Code_type	Notes
Exposure				
Tirzepatide	TIRZEPATIDE	RX	Generic	
Tirzepatide	0002115201	RX	NDC	
Tirzepatide	0002124301	RX	NDC	
Tirzepatide	0002145701	RX	NDC	
Tirzepatide	0002145780	RX	NDC	
Tirzepatide	0002146001	RX	NDC	
Tirzepatide	0002146080	RX	NDC	
Tirzepatide	0002147101	RX	NDC	
Tirzepatide	0002147180	RX	NDC	
Tirzepatide	0002148401	RX	NDC	NDC Route of administration: SUBCUTANEOUS
Tirzepatide	0002148480	RX	NDC	
Tirzepatide	0002149501	RX	NDC	
Tirzepatide	0002149580	RX	NDC	
Tirzepatide	0002150601	RX	NDC	
Tirzepatide	0002150661	RX	NDC	
Tirzepatide	0002150680	RX	NDC	
Tirzepatide	0002221401	RX	NDC	
Tirzepatide	0002234001	RX	NDC	
Tirzepatide	0002242301	RX	NDC	
Tirzepatide	0002300201	RX	NDC	
Tirzepatide	MOUNJARO	RX	Brand	NDC Route of administration: SUBCUTANEOUS
Tirzepatide	ZEPBOUND	RX	Brand	NDC Route of administration: SUBCUTANEOUS
Comparator				
Dulaglutide	DULAGLUTIDE	RX	Generic	
Dulaglutide	00021433	RX	NDC	
Dulaglutide	0002143301	RX	NDC	
Dulaglutide	0002143361	RX	NDC	
Dulaglutide	0002143380	RX	NDC	
Dulaglutide	00021434	RX	NDC	
Dulaglutide	00021434-01	RX	NDC	
Dulaglutide	00021434-61	RX	NDC	
Dulaglutide	00021434-80	RX	NDC	
Dulaglutide	00022236	RX	NDC	NDC Route of Administration: SUBCUTANEOUS

Dulaglutide	00022236-01	RX	NDC
Dulaglutide	00022236-61	RX	NDC
Dulaglutide	00022236-80	RX	NDC
Dulaglutide	00023182	RX	NDC
Dulaglutide	00023182-01	RX	NDC
Dulaglutide	00023182-61	RX	NDC
Dulaglutide	00023182-80	RX	NDC
Dulaglutide	500903483	RX	NDC
Dulaglutide	500903484	RX	NDC
Dulaglutide	TRULICITY	RX	Brand

Category	Variable_name	Code	Code_category	Description	Code_type	Notes
	1 Patients > 40					
	2 Diagnosed with T2DM	E11.0	DX	TYPE 2 DIABETES MELLITUS WITH HYPEROSMOLARITY	ICD-10-CM	
				TYPE 2 DIABETES MELLITUS WITH HYPEROSMOLARITY WITHOUT NONKETOTIC		
	2 Diagnosed with T2DM	E11.00	DX	HYPERGLYCEMIC-HYPEROSMOLAR COMA (NKHHC)	ICD-10-CM	
	2 Diagnosed with T2DM	E11.01	DX	TYPE 2 DIABETES MELLITUS WITH HYPEROSMOLARITY WITH COMA	ICD-10-CM	
	2 Diagnosed with T2DM	E11.1	DX	TYPE 2 DIABETES MELLITUS WITH KETOACIDOSIS	ICD-10-CM	
	2 Diagnosed with T2DM	E11.10	DX	TYPE 2 DIABETES MELLITUS WITH KETOACIDOSIS WITHOUT COMA	ICD-10-CM	
	2 Diagnosed with T2DM	E11.11	DX	TYPE 2 DIABETES MELLITUS WITH KETOACIDOSIS WITH COMA	ICD-10-CM	
	2 Diagnosed with T2DM	E11.2	DX	TYPE 2 DIABETES MELLITUS WITH KIDNEY COMPLICATIONS	ICD-10-CM	
	2 Diagnosed with T2DM	E11.21	DX	TYPE 2 DIABETES MELLITUS WITH DIABETIC NEPHROPATHY	ICD-10-CM	
	2 Diagnosed with T2DM	E11.22	DX	TYPE 2 DIABETES MELLITUS WITH DIABETIC CHRONIC KIDNEY DISEASE	ICD-10-CM	
	2 Diagnosed with T2DM	E11.29	DX	TYPE 2 DIABETES MELLITUS WITH OTHER DIABETIC KIDNEY COMPLICATION	ICD-10-CM	
	2 Diagnosed with T2DM	E11.3	DX	TYPE 2 DIABETES MELLITUS WITH OPHTHALMIC COMPLICATIONS	ICD-10-CM	
	2 Diagnosed with T2DM	E11.31	DX	TYPE 2 DIABETES MELLITUS WITH UNSPECIFIED DIABETIC RETINOPATHY	ICD-10-CM	
				TYPE 2 DIABETES MELLITUS WITH UNSPECIFIED DIABETIC RETINOPATHY WITH		
	2 Diagnosed with T2DM	E11.311	DX	MACULAR EDEMA	ICD-10-CM	
				TYPE 2 DIABETES MELLITUS WITH UNSPECIFIED DIABETIC RETINOPATHY WITHOUT		
	2 Diagnosed with T2DM	E11.319	DX	MACULAR EDEMA	ICD-10-CM	
	2 Diagnosed with T2DM	E11.32	DX	TYPE 2 DIABETES MELLITUS WITH MILD NONPROLIFERATIVE DIABETIC RETINOPATHY	ICD-10-CM	
				TYPE 2 DIABETES MELLITUS WITH MILD NONPROLIFERATIVE DIABETIC RETINOPATHY		
	2 Diagnosed with T2DM	E11.321	DX	WITH MACULAR EDEMA	ICD-10-CM	
				TYPE 2 DIABETES MELLITUS WITH MILD NONPROLIFERATIVE DIABETIC RETINOPATHY		
	2 Diagnosed with T2DM	E11.3211	DX	WITH MACULAR EDEMA, RIGHT EYE	ICD-10-CM	
				TYPE 2 DIABETES MELLITUS WITH MILD NONPROLIFERATIVE DIABETIC RETINOPATHY		
	2 Diagnosed with T2DM	E11.3212	DX	WITH MACULAR EDEMA, LEFT EYE	ICD-10-CM	
				TYPE 2 DIABETES MELLITUS WITH MILD NONPROLIFERATIVE DIABETIC RETINOPATHY		
	2 Diagnosed with T2DM	E11.3213	DX	WITH MACULAR EDEMA, BILATERAL	ICD-10-CM	
				TYPE 2 DIABETES MELLITUS WITH MILD NONPROLIFERATIVE DIABETIC RETINOPATHY		
	2 Diagnosed with T2DM	E11.3219	DX	WITH MACULAR EDEMA, UNSPECIFIED EYE	ICD-10-CM	
				TYPE 2 DIABETES MELLITUS WITH MILD NONPROLIFERATIVE DIABETIC RETINOPATHY		
	2 Diagnosed with T2DM	E11.329	DX	WITHOUT MACULAR EDEMA	ICD-10-CM	
				TYPE 2 DIABETES MELLITUS WITH MILD NONPROLIFERATIVE DIABETIC RETINOPATHY		
	2 Diagnosed with T2DM	E11.3291	DX	WITHOUT MACULAR EDEMA, RIGHT EYE	ICD-10-CM	
				TYPE 2 DIABETES MELLITUS WITH MILD NONPROLIFERATIVE DIABETIC RETINOPATHY		
	2 Diagnosed with T2DM	E11.3292	DX	WITHOUT MACULAR EDEMA, LEFT EYE	ICD-10-CM	
				TYPE 2 DIABETES MELLITUS WITH MILD NONPROLIFERATIVE DIABETIC RETINOPATHY		
	2 Diagnosed with T2DM	E11.3293	DX	WITHOUT MACULAR EDEMA, BILATERAL	ICD-10-CM	
				TYPE 2 DIABETES MELLITUS WITH MILD NONPROLIFERATIVE DIABETIC RETINOPATHY		
	2 Diagnosed with T2DM	E11.3299	DX	WITHOUT MACULAR EDEMA, UNSPECIFIED EYE	ICD-10-CM	
				TYPE 2 DIABETES MELLITUS WITH MODERATE NONPROLIFERATIVE DIABETIC		
	2 Diagnosed with T2DM	E11.33	DX	RETINOPATHY	ICD-10-CM	
				TYPE 2 DIABETES MELLITUS WITH MODERATE NONPROLIFERATIVE DIABETIC		
	2 Diagnosed with T2DM	E11.331	DX	RETINOPATHY WITH MACULAR EDEMA	ICD-10-CM	
				TYPE 2 DIABETES MELLITUS WITH MODERATE NONPROLIFERATIVE DIABETIC		
	2 Diagnosed with T2DM	E11.3311	DX	RETINOPATHY WITH MACULAR EDEMA, RIGHT EYE	ICD-10-CM	
				TYPE 2 DIABETES MELLITUS WITH MODERATE NONPROLIFERATIVE DIABETIC		
	2 Diagnosed with T2DM	E11.3312	DX	RETINOPATHY WITH MACULAR EDEMA, LEFT EYE	ICD-10-CM	
				TYPE 2 DIABETES MELLITUS WITH MODERATE NONPROLIFERATIVE DIABETIC		
	2 Diagnosed with T2DM	E11.3313	DX	RETINOPATHY WITH MACULAR EDEMA, BILATERAL	ICD-10-CM	
				TYPE 2 DIABETES MELLITUS WITH MODERATE NONPROLIFERATIVE DIABETIC		
	2 Diagnosed with T2DM	E11.3319	DX	RETINOPATHY WITH MACULAR EDEMA, UNSPECIFIED EYE	ICD-10-CM	
				TYPE 2 DIABETES MELLITUS WITH MODERATE NONPROLIFERATIVE DIABETIC		
	2 Diagnosed with T2DM	E11.339	DX	RETINOPATHY WITHOUT MACULAR EDEMA	ICD-10-CM	
				TYPE 2 DIABETES MELLITUS WITH MODERATE NONPROLIFERATIVE DIABETIC		
	2 Diagnosed with T2DM	E11.3391	DX	RETINOPATHY WITHOUT MACULAR EDEMA, RIGHT EYE	ICD-10-CM	
				TYPE 2 DIABETES MELLITUS WITH MODERATE NONPROLIFERATIVE DIABETIC		
	2 Diagnosed with T2DM	E11.3392	DX	RETINOPATHY WITHOUT MACULAR EDEMA, LEFT EYE	ICD-10-CM	
				TYPE 2 DIABETES MELLITUS WITH MODERATE NONPROLIFERATIVE DIABETIC		
	2 Diagnosed with T2DM	E11.3393	DX	RETINOPATHY WITHOUT MACULAR EDEMA, BILATERAL	ICD-10-CM	
				TYPE 2 DIABETES MELLITUS WITH MODERATE NONPROLIFERATIVE DIABETIC		
	2 Diagnosed with T2DM	E11.3399	DX	RETINOPATHY WITHOUT MACULAR EDEMA, UNSPECIFIED EYE	ICD-10-CM	
	2 Diagnosed with T2DM	E11.34	DX	TYPE 2 DIABETES MELLITUS WITH SEVERE NONPROLIFERATIVE DIABETIC RETINOPATHY	ICD-10-CM	

2	Diagnosed with T2DM	E11.341	DX	TYPE 2 DIABETES MELLITUS WITH SEVERE NONPROLIFERATIVE DIABETIC RETINOPATHY WITH MACULAR EDEMA	ICD-10-CM
2	Diagnosed with T2DM	E11.3411	DX	TYPE 2 DIABETES MELLITUS WITH SEVERE NONPROLIFERATIVE DIABETIC RETINOPATHY WITH MACULAR EDEMA, RIGHT EYE	ICD-10-CM
2	Diagnosed with T2DM	E11.3412	DX	TYPE 2 DIABETES MELLITUS WITH SEVERE NONPROLIFERATIVE DIABETIC RETINOPATHY WITH MACULAR EDEMA, LEFT EYE	ICD-10-CM
2	Diagnosed with T2DM	E11.3413	DX	TYPE 2 DIABETES MELLITUS WITH SEVERE NONPROLIFERATIVE DIABETIC RETINOPATHY WITH MACULAR EDEMA, BILATERAL	ICD-10-CM
2	Diagnosed with T2DM	E11.3419	DX	TYPE 2 DIABETES MELLITUS WITH SEVERE NONPROLIFERATIVE DIABETIC RETINOPATHY WITH MACULAR EDEMA, UNSPECIFIED EYE	ICD-10-CM
2	Diagnosed with T2DM	E11.349	DX	TYPE 2 DIABETES MELLITUS WITH SEVERE NONPROLIFERATIVE DIABETIC RETINOPATHY WITHOUT MACULAR EDEMA	ICD-10-CM
2	Diagnosed with T2DM	E11.3491	DX	TYPE 2 DIABETES MELLITUS WITH SEVERE NONPROLIFERATIVE DIABETIC RETINOPATHY WITHOUT MACULAR EDEMA, RIGHT EYE	ICD-10-CM
2	Diagnosed with T2DM	E11.3492	DX	TYPE 2 DIABETES MELLITUS WITH SEVERE NONPROLIFERATIVE DIABETIC RETINOPATHY WITHOUT MACULAR EDEMA, LEFT EYE	ICD-10-CM
2	Diagnosed with T2DM	E11.3493	DX	TYPE 2 DIABETES MELLITUS WITH SEVERE NONPROLIFERATIVE DIABETIC RETINOPATHY WITHOUT MACULAR EDEMA, BILATERAL	ICD-10-CM
2	Diagnosed with T2DM	E11.3499	DX	TYPE 2 DIABETES MELLITUS WITH SEVERE NONPROLIFERATIVE DIABETIC RETINOPATHY WITHOUT MACULAR EDEMA, UNSPECIFIED EYE	ICD-10-CM
2	Diagnosed with T2DM	E11.35	DX	TYPE 2 DIABETES MELLITUS WITH PROLIFERATIVE DIABETIC RETINOPATHY	ICD-10-CM
2	Diagnosed with T2DM	E11.351	DX	TYPE 2 DIABETES MELLITUS WITH PROLIFERATIVE DIABETIC RETINOPATHY WITH MACULAR EDEMA	ICD-10-CM
2	Diagnosed with T2DM	E11.3511	DX	TYPE 2 DIABETES MELLITUS WITH PROLIFERATIVE DIABETIC RETINOPATHY WITH MACULAR EDEMA, RIGHT EYE	ICD-10-CM
2	Diagnosed with T2DM	E11.3512	DX	TYPE 2 DIABETES MELLITUS WITH PROLIFERATIVE DIABETIC RETINOPATHY WITH MACULAR EDEMA, LEFT EYE	ICD-10-CM
2	Diagnosed with T2DM	E11.3513	DX	TYPE 2 DIABETES MELLITUS WITH PROLIFERATIVE DIABETIC RETINOPATHY WITH MACULAR EDEMA, BILATERAL	ICD-10-CM
2	Diagnosed with T2DM	E11.3519	DX	TYPE 2 DIABETES MELLITUS WITH PROLIFERATIVE DIABETIC RETINOPATHY WITH MACULAR EDEMA, UNSPECIFIED EYE	ICD-10-CM
2	Diagnosed with T2DM	E11.352	DX	TYPE 2 DIABETES MELLITUS WITH PROLIFERATIVE DIABETIC RETINOPATHY WITH TRACTION RETINAL DETACHMENT INVOLVING THE MACULA	ICD-10-CM
2	Diagnosed with T2DM	E11.3521	DX	TYPE 2 DIABETES MELLITUS WITH PROLIFERATIVE DIABETIC RETINOPATHY WITH TRACTION RETINAL DETACHMENT INVOLVING THE MACULA, RIGHT EYE	ICD-10-CM
2	Diagnosed with T2DM	E11.3522	DX	TYPE 2 DIABETES MELLITUS WITH PROLIFERATIVE DIABETIC RETINOPATHY WITH TRACTION RETINAL DETACHMENT INVOLVING THE MACULA, LEFT EYE	ICD-10-CM
2	Diagnosed with T2DM	E11.3523	DX	TYPE 2 DIABETES MELLITUS WITH PROLIFERATIVE DIABETIC RETINOPATHY WITH TRACTION RETINAL DETACHMENT INVOLVING THE MACULA, BILATERAL	ICD-10-CM
2	Diagnosed with T2DM	E11.3529	DX	TYPE 2 DIABETES MELLITUS WITH PROLIFERATIVE DIABETIC RETINOPATHY WITH TRACTION RETINAL DETACHMENT INVOLVING THE MACULA, UNSPECIFIED EYE	ICD-10-CM
2	Diagnosed with T2DM	E11.353	DX	TYPE 2 DIABETES MELLITUS WITH PROLIFERATIVE DIABETIC RETINOPATHY WITH TRACTION RETINAL DETACHMENT NOT INVOLVING THE MACULA	ICD-10-CM
2	Diagnosed with T2DM	E11.3531	DX	TYPE 2 DIABETES MELLITUS WITH PROLIFERATIVE DIABETIC RETINOPATHY WITH TRACTION RETINAL DETACHMENT NOT INVOLVING THE MACULA, RIGHT EYE	ICD-10-CM
2	Diagnosed with T2DM	E11.3532	DX	TYPE 2 DIABETES MELLITUS WITH PROLIFERATIVE DIABETIC RETINOPATHY WITH TRACTION RETINAL DETACHMENT NOT INVOLVING THE MACULA, LEFT EYE	ICD-10-CM
2	Diagnosed with T2DM	E11.3533	DX	TYPE 2 DIABETES MELLITUS WITH PROLIFERATIVE DIABETIC RETINOPATHY WITH TRACTION RETINAL DETACHMENT NOT INVOLVING THE MACULA, BILATERAL	ICD-10-CM
2	Diagnosed with T2DM	E11.3539	DX	TYPE 2 DIABETES MELLITUS WITH PROLIFERATIVE DIABETIC RETINOPATHY WITH TRACTION RETINAL DETACHMENT NOT INVOLVING THE MACULA, UNSPECIFIED EYE	ICD-10-CM
2	Diagnosed with T2DM	E11.354	DX	TYPE 2 DIABETES MELLITUS WITH Proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment	ICD-10-CM
2	Diagnosed with T2DM	E11.3541	DX	TYPE 2 DIABETES MELLITUS WITH Proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, right eye	ICD-10-CM
2	Diagnosed with T2DM	E11.3542	DX	TYPE 2 DIABETES MELLITUS WITH Proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, left eye	ICD-10-CM
2	Diagnosed with T2DM	E11.3543	DX	TYPE 2 DIABETES MELLITUS WITH Proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, bilateral	ICD-10-CM

2 Diagnosed with T2DM	E11.3549	DX	TYPE 2 DIABETES MELLITUS WITH PROLIFERATIVE DIABETIC RETINOPATHY WITH COMBINED TRACTION RETINAL DETACHMENT AND RHEGMATOGENOUS RETINAL DETACHMENT, UNSPECIFIED EYE	ICD-10-CM
2 Diagnosed with T2DM	E11.355	DX	TYPE 2 DIABETES MELLITUS WITH STABLE PROLIFERATIVE DIABETIC RETINOPATHY	ICD-10-CM
2 Diagnosed with T2DM	E11.3551	DX	TYPE 2 DIABETES MELLITUS WITH STABLE PROLIFERATIVE DIABETIC RETINOPATHY, RIGHT EYE	ICD-10-CM
2 Diagnosed with T2DM	E11.3552	DX	TYPE 2 DIABETES MELLITUS WITH STABLE PROLIFERATIVE DIABETIC RETINOPATHY, LEFT EYE	ICD-10-CM
2 Diagnosed with T2DM	E11.3553	DX	TYPE 2 DIABETES MELLITUS WITH STABLE PROLIFERATIVE DIABETIC RETINOPATHY, BILATERAL	ICD-10-CM
2 Diagnosed with T2DM	E11.3559	DX	TYPE 2 DIABETES MELLITUS WITH STABLE PROLIFERATIVE DIABETIC RETINOPATHY, UNSPECIFIED EYE	ICD-10-CM
2 Diagnosed with T2DM	E11.359	DX	TYPE 2 DIABETES MELLITUS WITH PROLIFERATIVE DIABETIC RETINOPATHY WITHOUT MACULAR EDEMA	ICD-10-CM
2 Diagnosed with T2DM	E11.3591	DX	TYPE 2 DIABETES MELLITUS WITH PROLIFERATIVE DIABETIC RETINOPATHY WITHOUT MACULAR EDEMA, RIGHT EYE	ICD-10-CM
2 Diagnosed with T2DM	E11.3592	DX	TYPE 2 DIABETES MELLITUS WITH PROLIFERATIVE DIABETIC RETINOPATHY WITHOUT MACULAR EDEMA, LEFT EYE	ICD-10-CM
2 Diagnosed with T2DM	E11.3593	DX	TYPE 2 DIABETES MELLITUS WITH PROLIFERATIVE DIABETIC RETINOPATHY WITHOUT MACULAR EDEMA, BILATERAL	ICD-10-CM
2 Diagnosed with T2DM	E11.3599	DX	TYPE 2 DIABETES MELLITUS WITH PROLIFERATIVE DIABETIC RETINOPATHY WITHOUT MACULAR EDEMA, UNSPECIFIED EYE	ICD-10-CM
2 Diagnosed with T2DM	E11.36	DX	TYPE 2 DIABETES MELLITUS WITH DIABETIC CATARACT	ICD-10-CM
2 Diagnosed with T2DM	E11.37	DX	TYPE 2 DIABETES MELLITUS WITH DIABETIC MACULAR EDEMA, RESOLVED FOLLOWING TREATMENT	ICD-10-CM
2 Diagnosed with T2DM	E11.37X1	DX	TYPE 2 DIABETES MELLITUS WITH DIABETIC MACULAR EDEMA, RESOLVED FOLLOWING TREATMENT, RIGHT EYE	ICD-10-CM
2 Diagnosed with T2DM	E11.37X2	DX	TYPE 2 DIABETES MELLITUS WITH DIABETIC MACULAR EDEMA, RESOLVED FOLLOWING TREATMENT, LEFT EYE	ICD-10-CM
2 Diagnosed with T2DM	E11.37X3	DX	TYPE 2 DIABETES MELLITUS WITH DIABETIC MACULAR EDEMA, RESOLVED FOLLOWING TREATMENT, BILATERAL	ICD-10-CM
2 Diagnosed with T2DM	E11.37X9	DX	TYPE 2 DIABETES MELLITUS WITH DIABETIC MACULAR EDEMA, RESOLVED FOLLOWING TREATMENT, UNSPECIFIED EYE	ICD-10-CM
2 Diagnosed with T2DM	E11.39	DX	TYPE 2 DIABETES MELLITUS WITH OTHER DIABETIC OPHTHALMIC COMPLICATION	ICD-10-CM
2 Diagnosed with T2DM	E11.4	DX	TYPE 2 DIABETES MELLITUS WITH NEUROLOGICAL COMPLICATIONS	ICD-10-CM
2 Diagnosed with T2DM	E11.40	DX	TYPE 2 DIABETES MELLITUS WITH DIABETIC NEUROPATHY, UNSPECIFIED	ICD-10-CM
2 Diagnosed with T2DM	E11.41	DX	TYPE 2 DIABETES MELLITUS WITH DIABETIC MONONEUROPATHY	ICD-10-CM
2 Diagnosed with T2DM	E11.42	DX	TYPE 2 DIABETES MELLITUS WITH DIABETIC POLYNEUROPATHY	ICD-10-CM
2 Diagnosed with T2DM	E11.43	DX	TYPE 2 DIABETES MELLITUS WITH DIABETIC AUTONOMIC (POLY)NEUROPATHY	ICD-10-CM
2 Diagnosed with T2DM	E11.44	DX	TYPE 2 DIABETES MELLITUS WITH DIABETIC AMYOTROPHY	ICD-10-CM
2 Diagnosed with T2DM	E11.49	DX	TYPE 2 DIABETES MELLITUS WITH OTHER DIABETIC NEUROLOGICAL COMPLICATION	ICD-10-CM
2 Diagnosed with T2DM	E11.5	DX	TYPE 2 DIABETES MELLITUS WITH CIRCULATORY COMPLICATIONS	ICD-10-CM
2 Diagnosed with T2DM	E11.51	DX	TYPE 2 DIABETES MELLITUS WITH DIABETIC PERIPHERAL ANGIOPATHY WITHOUT GANGRENE	ICD-10-CM
2 Diagnosed with T2DM	E11.52	DX	TYPE 2 DIABETES MELLITUS WITH DIABETIC PERIPHERAL ANGIOPATHY WITH GANGRENE	ICD-10-CM
2 Diagnosed with T2DM	E11.59	DX	TYPE 2 DIABETES MELLITUS WITH OTHER CIRCULATORY COMPLICATIONS	ICD-10-CM
2 Diagnosed with T2DM	E11.6	DX	TYPE 2 DIABETES MELLITUS WITH OTHER SPECIFIED COMPLICATIONS	ICD-10-CM
2 Diagnosed with T2DM	E11.61	DX	TYPE 2 DIABETES MELLITUS WITH DIABETIC ARTHROPATHY	ICD-10-CM
2 Diagnosed with T2DM	E11.610	DX	TYPE 2 DIABETES MELLITUS WITH DIABETIC NEUROPATHIC ARTHROPATHY	ICD-10-CM
2 Diagnosed with T2DM	E11.618	DX	TYPE 2 DIABETES MELLITUS WITH OTHER DIABETIC ARTHROPATHY	ICD-10-CM
2 Diagnosed with T2DM	E11.62	DX	TYPE 2 DIABETES MELLITUS WITH SKIN COMPLICATIONS	ICD-10-CM
2 Diagnosed with T2DM	E11.620	DX	TYPE 2 DIABETES MELLITUS WITH DIABETIC DERMATITIS	ICD-10-CM
2 Diagnosed with T2DM	E11.621	DX	TYPE 2 DIABETES MELLITUS WITH FOOT ULCER	ICD-10-CM
2 Diagnosed with T2DM	E11.622	DX	TYPE 2 DIABETES MELLITUS WITH OTHER SKIN ULCER	ICD-10-CM
2 Diagnosed with T2DM	E11.628	DX	TYPE 2 DIABETES MELLITUS WITH OTHER SKIN COMPLICATIONS	ICD-10-CM
2 Diagnosed with T2DM	E11.63	DX	TYPE 2 DIABETES MELLITUS WITH ORAL COMPLICATIONS	ICD-10-CM
2 Diagnosed with T2DM	E11.630	DX	TYPE 2 DIABETES MELLITUS WITH PERIODONTAL DISEASE	ICD-10-CM
2 Diagnosed with T2DM	E11.638	DX	TYPE 2 DIABETES MELLITUS WITH OTHER ORAL COMPLICATIONS	ICD-10-CM
2 Diagnosed with T2DM	E11.64	DX	TYPE 2 DIABETES MELLITUS WITH HYPOGLYCEMIA	ICD-10-CM
2 Diagnosed with T2DM	E11.641	DX	TYPE 2 DIABETES MELLITUS WITH HYPOGLYCEMIA WITH COMA	ICD-10-CM
2 Diagnosed with T2DM	E11.649	DX	TYPE 2 DIABETES MELLITUS WITH HYPOGLYCEMIA WITHOUT COMA	ICD-10-CM
2 Diagnosed with T2DM	E11.65	DX	TYPE 2 DIABETES MELLITUS WITH HYPERGLYCEMIA	ICD-10-CM
2 Diagnosed with T2DM	E11.69	DX	TYPE 2 DIABETES MELLITUS WITH OTHER SPECIFIED COMPLICATION	ICD-10-CM

	2	Diagnosed with T2DM	E11.8	DX	TYPE 2 DIABETES MELLITUS WITH UNSPECIFIED COMPLICATIONS	ICD-10-CM
	2	Diagnosed with T2DM	E11.9	DX	TYPE 2 DIABETES MELLITUS WITHOUT COMPLICATIONS	ICD-10-CM
	3	HbA1c ≥7% and ≤10.5%	17855-8	LOINC		
	3	HbA1c ≥7% and ≤10.5%	17856-6	LOINC		
	3	HbA1c ≥7% and ≤10.5%	41995-2	LOINC		
	3	HbA1c ≥7% and ≤10.5%	43150-2	LOINC		
	3	HbA1c ≥7% and ≤10.5%	4548-4	LOINC		
	3	HbA1c ≥7% and ≤10.5%	71875-9	LOINC		
	3	HbA1c ≥7% and ≤10.5%	74246-0	LOINC		
	3	HbA1c ≥7% and ≤10.5%	62388-4	LOINC		
	3	HbA1c ≥7% and ≤10.5%	59261-8	LOINC		
	3	HbA1c ≥7% and ≤10.5%	55454-3	LOINC		
	3	HbA1c ≥7% and ≤10.5%	4549-2	LOINC		
	4	BMI ≥ 25kg/m2	39156-5	LOINC	BODY MASS INDEX (BMI) [Ratio]	
	4	BMI ≥ 25kg/m2	Z68.25	DX	BMI 25.0-25.9, ADULT	ICD-10-CM
	4	BMI ≥ 25kg/m2	Z68.26	DX	BMI 26.0-26.9, ADULT	ICD-10-CM
	4	BMI ≥ 25kg/m2	Z68.27	DX	BMI 27.0-27.9, ADULT	ICD-10-CM
	4	BMI ≥ 25kg/m2	Z68.28	DX	BMI 28.0-28.9, ADULT	ICD-10-CM
	4	BMI ≥ 25kg/m2	Z68.29	DX	BMI 29.0-29.9, ADULT	ICD-10-CM
	4	BMI ≥ 25kg/m2	E66	DX	OVERWEIGHT AND OBESITY	ICD-10-CM
	4	BMI ≥ 25kg/m2	E66.0	DX	OBESITY DUE TO EXCESS CALORIES	ICD-10-CM
	4	BMI ≥ 25kg/m2	E66.01	DX	MORBID (SEVERE) OBESITY DUE TO EXCESS CALORIES	ICD-10-CM
	4	BMI ≥ 25kg/m2	E66.09	DX	OTHER OBESITY DUE TO EXCESS CALORIES	ICD-10-CM
	4	BMI ≥ 25kg/m2	E66.1	DX	DRUG-INDUCED OBESITY	ICD-10-CM
	4	BMI ≥ 25kg/m2	E66.2	DX	MORBID (SEVERE) OBESITY WITH ALVEOLAR HYPOVENTILATION	ICD-10-CM
	4	BMI ≥ 25kg/m2	E66.3	DX	OVERWEIGHT	ICD-10-CM
	4	BMI ≥ 25kg/m2	E66.30	DX		ICD-10-CM
	4	BMI ≥ 25kg/m2	E66.31	DX		ICD-10-CM
	4	BMI ≥ 25kg/m2	E66.32	DX		ICD-10-CM
	4	BMI ≥ 25kg/m2	E66.36	DX		ICD-10-CM
	4	BMI ≥ 25kg/m2	E66.8	DX	OTHER OBESITY	ICD-10-CM
	4	BMI ≥ 25kg/m2	E66.81	DX	OBESITY CLASS	ICD-10-CM
	4	BMI ≥ 25kg/m2	E66.811	DX	OBESITY, CLASS 1	ICD-10-CM
	4	BMI ≥ 25kg/m2	E66.812	DX	OBESITY, CLASS 2	ICD-10-CM
	4	BMI ≥ 25kg/m2	E66.813	DX	OBESITY, CLASS 3	ICD-10-CM
	4	BMI ≥ 25kg/m2	E66.89	DX	OTHER OBESITY NOT ELSEWHERE CLASSIFIED	ICD-10-CM
	4	BMI ≥ 25kg/m2	E66.9	DX	OBESITY, UNSPECIFIED	ICD-10-CM
	4	BMI ≥ 25kg/m2	Z68.30	DX	BODY MASS INDEX [BMI] 30.0-30.9, ADULT	ICD-10-CM
	4	BMI ≥ 25kg/m2	Z68.31	DX	BODY MASS INDEX [BMI] 31.0-31.9, ADULT	ICD-10-CM
	4	BMI ≥ 25kg/m2	Z68.32	DX	BODY MASS INDEX [BMI] 32.0-32.9, ADULT	ICD-10-CM
	4	BMI ≥ 25kg/m2	Z68.33	DX	BODY MASS INDEX [BMI] 33.0-33.9, ADULT	ICD-10-CM
	4	BMI ≥ 25kg/m2	Z68.34	DX	BODY MASS INDEX [BMI] 34.0-34.9, ADULT	ICD-10-CM
	4	BMI ≥ 25kg/m2	Z68.35	DX	BODY MASS INDEX [BMI] 35.0-35.9, ADULT	ICD-10-CM
	4	BMI ≥ 25kg/m2	Z68.36	DX	BODY MASS INDEX [BMI] 36.0-36.9, ADULT	ICD-10-CM
	4	BMI ≥ 25kg/m2	Z68.37	DX	BODY MASS INDEX [BMI] 37.0-37.9, ADULT	ICD-10-CM
	4	BMI ≥ 25kg/m2	Z68.38	DX	BODY MASS INDEX [BMI] 38.0-38.9, ADULT	ICD-10-CM
	4	BMI ≥ 25kg/m2	Z68.39	DX	BODY MASS INDEX [BMI] 39.0-39.9, ADULT	ICD-10-CM
	4	BMI ≥ 25kg/m2	Z68.4	DX	BODY MASS INDEX [BMI] 40 OR GREATER, ADULT	ICD-10-CM
	4	BMI ≥ 25kg/m2	Z68.41	DX	BODY MASS INDEX [BMI] 40.0-44.9, ADULT	ICD-10-CM
	4	BMI ≥ 25kg/m2	Z68.42	DX	BODY MASS INDEX [BMI] 45.0-49.9, ADULT	ICD-10-CM
	4	BMI ≥ 25kg/m2	Z68.43	DX	BODY MASS INDEX [BMI] 50.0-59.9, ADULT	ICD-10-CM
	4	BMI ≥ 25kg/m2	Z68.44	DX	BODY MASS INDEX [BMI] 60.0-69.9, ADULT	ICD-10-CM
	4	BMI ≥ 25kg/m2	Z68.45	DX	BODY MASS INDEX [BMI] 70 OR GREATER, ADULT	ICD-10-CM
	5	Established CV-disease				
36896		Coronary artery disease with any of the following:				
5.1.1		Documented history of myocardial infarction I21		DX	ST ELEVATION (STEMI) MYOCARDIAL INFARCTION OF OTHER SITES	ICD-10-CM
5.1.1		Documented history of myocardial infarction I21.0		DX	ST ELEVATION (STEMI) MYOCARDIAL INFARCTION OF ANTERIOR WALL	ICD-10-CM
					ST ELEVATION (STEMI) MYOCARDIAL INFARCTION INVOLVING LEFT MAIN CORONARY ARTERY	
5.1.1		Documented history of myocardial infarction I21.01		DX	ST ELEVATION (STEMI) MYOCARDIAL INFARCTION INVOLVING LEFT ANTERIOR	ICD-10-CM
					DESCENDING CORONARY ARTERY	
5.1.1		Documented history of myocardial infarction I21.02		DX	ST ELEVATION (STEMI) MYOCARDIAL INFARCTION INVOLVING OTHER CORONARY	ICD-10-CM
					ARTERY OF ANTERIOR WALL	
5.1.1		Documented history of myocardial infarction I21.09		DX		ICD-10-CM
5.1.1		Documented history of myocardial infarction I21.1		DX	ST ELEVATION (STEMI) MYOCARDIAL INFARCTION OF INFERIOR WALL	ICD-10-CM

5.1.1	Documented history of myocardial infarction I21.11	DX	ST ELEVATION (STEMI) MYOCARDIAL INFARCTION INVOLVING RIGHT CORONARY ARTERY	ICD-10-CM
5.1.1	Documented history of myocardial infarction I21.19	DX	ST ELEVATION (STEMI) MYOCARDIAL INFARCTION INVOLVING OTHER CORONARY	ICD-10-CM
5.1.1	Documented history of myocardial infarction I21.2	DX	ARTERY OF INFERIOR WALL	ICD-10-CM
			ST ELEVATION (STEMI) MYOCARDIAL INFARCTION OF OTHER SITES	ICD-10-CM
5.1.1	Documented history of myocardial infarction I21.21	DX	ST ELEVATION (STEMI) MYOCARDIAL INFARCTION INVOLVING LEFT CIRCUMFLEX	ICD-10-CM
5.1.1	Documented history of myocardial infarction I21.29	DX	CORONARY ARTERY	ICD-10-CM
5.1.1	Documented history of myocardial infarction I21.3	DX	ST ELEVATION (STEMI) MYOCARDIAL INFARCTION INVOLVING OTHER SITES	ICD-10-CM
5.1.1	Documented history of myocardial infarction I21.4	DX	ST ELEVATION (STEMI) MYOCARDIAL INFARCTION OF UNSPECIFIED SITE	ICD-10-CM
5.1.1	Documented history of myocardial infarction I21.9	DX	NON-ST ELEVATION (NSTEMI) MYOCARDIAL INFARCTION	ICD-10-CM
5.1.1	Documented history of myocardial infarction I21.A	DX	ACUTE MYOCARDIAL INFARCTION, UNSPECIFIED	ICD-10-CM
5.1.1	Documented history of myocardial infarction I21.A1	DX	OTHER TYPE OF MYOCARDIAL INFARCTION	ICD-10-CM
5.1.1	Documented history of myocardial infarction I21.A9	DX	MYOCARDIAL INFARCTION TYPE 2	ICD-10-CM
5.1.1	Documented history of myocardial infarction I21.B	DX	OTHER MYOCARDIAL INFARCTION TYPE	ICD-10-CM
			Myocardial infarction with coronary microvascular dysfunction	ICD-10-CM
5.1.1	Documented history of myocardial infarction I22	DX	SUBSEQUENT ST ELEVATION (STEMI) AND NON-ST ELEVATION (NSTEMI) MYOCARDIAL	ICD-10-CM
5.1.1	Documented history of myocardial infarction I22.0	DX	INFARCTION	ICD-10-CM
5.1.1	Documented history of myocardial infarction I22.1	DX	SUBSEQUENT ST ELEVATION (STEMI) MYOCARDIAL INFARCTION OF ANTERIOR WALL	ICD-10-CM
5.1.1	Documented history of myocardial infarction I22.2	DX	SUBSEQUENT ST ELEVATION (STEMI) MYOCARDIAL INFARCTION OF INFERIOR WALL	ICD-10-CM
5.1.1	Documented history of myocardial infarction I22.8	DX	SUBSEQUENT NON-ST ELEVATION (NSTEMI) MYOCARDIAL INFARCTION	ICD-10-CM
			SUBSEQUENT ST ELEVATION (STEMI) MYOCARDIAL INFARCTION OF OTHER SITES	ICD-10-CM
5.1.1	Documented history of myocardial infarction I22.9	DX	SUBSEQUENT ST ELEVATION (STEMI) MYOCARDIAL INFARCTION OF UNSPECIFIED SITE	ICD-10-CM
5.1.1	Documented history of myocardial infarction I23.0	DX	HEMOPERICARDIUM AS CURRENT COMPLICATION FOLLOWING ACUTE MYOCARDIAL	ICD-10-CM
5.1.1	Documented history of myocardial infarction I23.1	DX	INFARCTION	ICD-10-CM
5.1.1	Documented history of myocardial infarction I23.2	DX	ATRIAL SEPTAL DEFECT AS CURRENT COMPLICATION FOLLOWING ACUTE MYOCARDIAL	ICD-10-CM
5.1.1	Documented history of myocardial infarction I23.3	DX	INFARCTION	ICD-10-CM
5.1.1	Documented history of myocardial infarction I23.4	DX	VENTRICULAR SEPTAL DEFECT AS CURRENT COMPLICATION FOLLOWING ACUTE	ICD-10-CM
5.1.1	Documented history of myocardial infarction I23.5	DX	MYOCARDIAL INFARCTION	ICD-10-CM
5.1.1	Documented history of myocardial infarction I23.6	DX	RUPTURE OF CARDIAC WALL WITHOUT HEMOPERICARDIUM AS CURRENT	ICD-10-CM
5.1.1	Documented history of myocardial infarction I23.7	DX	COMPLICATION FOLLOWING ACUTE MYOCARDIAL INFARCTION	ICD-10-CM
5.1.1	Documented history of myocardial infarction I23.8	DX	RUPTURE OF CHORDAE TENDINEAE AS CURRENT COMPLICATION FOLLOWING ACUTE	ICD-10-CM
5.1.1	Documented history of myocardial infarction I25.2	DX	MYOCARDIAL INFARCTION	ICD-10-CM
5.1.2/5.1.3	≥50% stenosis in ≥1 major coronary arteries I20	DX	RUPTURE OF PAPILLARY MUSCLE AS CURRENT COMPLICATION FOLLOWING ACUTE	ICD-10-CM
5.1.2/5.1.3	≥50% stenosis in ≥1 major coronary arteries I20.0	DX	MYOCARDIAL INFARCTION	ICD-10-CM
5.1.2/5.1.3	≥50% stenosis in ≥1 major coronary arteries I20.2	DX	THROMBOSIS OF ATRIUM, AURICULAR APPENDAGE, AND VENTRICLE AS CURRENT	ICD-10-CM
5.1.2/5.1.3	≥50% stenosis in ≥1 major coronary arteries I20.81	DX	COMPLICATIONS FOLLOWING ACUTE MYOCARDIAL INFARCTION	ICD-10-CM
5.1.2/5.1.3	≥50% stenosis in ≥1 major coronary arteries I20.89	DX	POSTINFARCTION ANGINA	ICD-10-CM
5.1.2/5.1.3	≥50% stenosis in ≥1 major coronary arteries I20.1	DX	OTHER CURRENT COMPLICATIONS FOLLOWING ACUTE MYOCARDIAL INFARCTION	ICD-10-CM
5.1.2/5.1.3	≥50% stenosis in ≥1 major coronary arteries I20.8	DX	OLD MYOCARDIAL INFARCTION	ICD-10-CM
5.1.2/5.1.3	≥50% stenosis in ≥1 major coronary arteries I20.9	DX	Angina pectoris	ICD-10-CM
			Unstable angina	ICD-10-CM
5.1.2/5.1.3	≥50% stenosis in ≥1 major coronary arteries I25.111	DX	Refractory angina pectoris	ICD-10-CM
5.1.2/5.1.3	≥50% stenosis in ≥1 major coronary arteries I25.118	DX	Angina pectoris with coronary microvascular dysfunction	ICD-10-CM
5.1.2/5.1.3	≥50% stenosis in ≥1 major coronary arteries I25.119	DX	Other forms of angina pectoris	ICD-10-CM
5.1.2/5.1.3	≥50% stenosis in ≥1 major coronary arteries I25.701	DX	ANGINA PECTORIS WITH DOCUMENTED SPASM	ICD-10-CM
5.1.2/5.1.3	≥50% stenosis in ≥1 major coronary arteries I25.708	DX	OTHER FORMS OF ANGINA PECTORIS	ICD-10-CM
5.1.2/5.1.3	≥50% stenosis in ≥1 major coronary arteries I25.709	DX	ATHEROSCLEROTIC HEART DISEASE OF NATIVE CORONARY ARTERY WITH ANGINA	ICD-10-CM
5.1.2/5.1.3	≥50% stenosis in ≥1 major coronary arteries I25.711	DX	PECTORIS WITH DOCUMENTED SPASM	ICD-10-CM
5.1.2/5.1.3	≥50% stenosis in ≥1 major coronary arteries I25.718	DX	ATHEROSCLEROTIC HEART DISEASE OF NATIVE CORONARY ARTERY WITH OTHER	ICD-10-CM
			FORMS OF ANGINA PECTORIS	ICD-10-CM
			ATHEROSCLEROTIC HEART DISEASE OF NATIVE CORONARY ARTERY WITH UNSPECIFIED	ICD-10-CM
			ANGINA PECTORIS	ICD-10-CM
			ATHEROSCLEROSIS OF CORONARY ARTERY BYPASS GRAFT(S), UNSPECIFIED, WITH	ICD-10-CM
			ANGINA PECTORIS WITH DOCUMENTED SPASM	ICD-10-CM
			ATHEROSCLEROSIS OF CORONARY ARTERY BYPASS GRAFT(S), UNSPECIFIED, WITH	ICD-10-CM
			OTHER FORMS OF ANGINA PECTORIS	ICD-10-CM
			ATHEROSCLEROSIS OF CORONARY ARTERY BYPASS GRAFT(S), UNSPECIFIED, WITH	ICD-10-CM
			UNSPECIFIED ANGINA PECTORIS	ICD-10-CM
			ATHEROSCLEROSIS OF AUTOLOGOUS VEIN CORONARY ARTERY BYPASS GRAFT(S) WITH	ICD-10-CM
			ANGINA PECTORIS WITH DOCUMENTED SPASM	ICD-10-CM
			ATHEROSCLEROSIS OF AUTOLOGOUS VEIN CORONARY ARTERY BYPASS GRAFT(S) WITH	ICD-10-CM
			OTHER FORMS OF ANGINA PECTORIS	ICD-10-CM

51.2/51.3	≥50% stenosis in ≥1 major coronary arteries I25.719	DX	ATHEROSCLEROSIS OF AUTOLOGOUS VEIN CORONARY ARTERY BYPASS GRAFT(S) WITH UNSPECIFIED ANGINA PECTORIS	ICD-10-CM
51.2/51.3	≥50% stenosis in ≥1 major coronary arteries I25.721	DX	ATHEROSCLEROSIS OF AUTOLOGOUS ARTERY CORONARY ARTERY BYPASS GRAFT(S) WITH ANGINA PECTORIS WITH DOCUMENTED SPASM	ICD-10-CM
51.2/51.3	≥50% stenosis in ≥1 major coronary arteries I25.728	DX	ATHEROSCLEROSIS OF AUTOLOGOUS ARTERY CORONARY ARTERY BYPASS GRAFT(S) WITH OTHER FORMS OF ANGINA PECTORIS	ICD-10-CM
51.2/51.3	≥50% stenosis in ≥1 major coronary arteries I25.729	DX	ATHEROSCLEROSIS OF AUTOLOGOUS ARTERY CORONARY ARTERY BYPASS GRAFT(S) WITH UNSPECIFIED ANGINA PECTORIS	ICD-10-CM
51.2/51.3	≥50% stenosis in ≥1 major coronary arteries I25.731	DX	ATHEROSCLEROSIS OF NONAUTOLOGOUS BIOLOGICAL CORONARY ARTERY BYPASS GRAFT(S) WITH ANGINA PECTORIS WITH DOCUMENTED SPASM	ICD-10-CM
51.2/51.3	≥50% stenosis in ≥1 major coronary arteries I25.738	DX	ATHEROSCLEROSIS OF NONAUTOLOGOUS BIOLOGICAL CORONARY ARTERY BYPASS GRAFT(S) WITH OTHER FORMS OF ANGINA PECTORIS	ICD-10-CM
51.2/51.3	≥50% stenosis in ≥1 major coronary arteries I25.739	DX	ATHEROSCLEROSIS OF NONAUTOLOGOUS BIOLOGICAL CORONARY ARTERY BYPASS GRAFT(S) WITH UNSPECIFIED ANGINA PECTORIS	ICD-10-CM
51.2/51.3	≥50% stenosis in ≥1 major coronary arteries I25.751	DX	ATHEROSCLEROSIS OF NATIVE CORONARY ARTERY OF TRANSPLANTED HEART WITH ANGINA PECTORIS WITH DOCUMENTED SPASM	ICD-10-CM
51.2/51.3	≥50% stenosis in ≥1 major coronary arteries I25.758	DX	ATHEROSCLEROSIS OF NATIVE CORONARY ARTERY OF TRANSPLANTED HEART WITH OTHER FORMS OF ANGINA PECTORIS	ICD-10-CM
51.2/51.3	≥50% stenosis in ≥1 major coronary arteries I25.759	DX	ATHEROSCLEROSIS OF NATIVE CORONARY ARTERY OF TRANSPLANTED HEART WITH UNSPECIFIED ANGINA PECTORIS	ICD-10-CM
51.2/51.3	≥50% stenosis in ≥1 major coronary arteries I25.761	DX	ATHEROSCLEROSIS OF BYPASS GRAFT OF CORONARY ARTERY OF TRANSPLANTED HEART WITH ANGINA PECTORIS WITH DOCUMENTED SPASM	ICD-10-CM
51.2/51.3	≥50% stenosis in ≥1 major coronary arteries I25.768	DX	ATHEROSCLEROSIS OF BYPASS GRAFT OF CORONARY ARTERY OF TRANSPLANTED HEART WITH OTHER FORMS OF ANGINA PECTORIS	ICD-10-CM
51.2/51.3	≥50% stenosis in ≥1 major coronary arteries I25.769	DX	ATHEROSCLEROSIS OF BYPASS GRAFT OF CORONARY ARTERY OF TRANSPLANTED HEART WITH UNSPECIFIED ANGINA PECTORIS	ICD-10-CM
51.2/51.3	≥50% stenosis in ≥1 major coronary arteries I25.791	DX	ATHEROSCLEROSIS OF OTHER CORONARY ARTERY BYPASS GRAFT(S) WITH ANGINA PECTORIS WITH DOCUMENTED SPASM	ICD-10-CM
51.2/51.3	≥50% stenosis in ≥1 major coronary arteries I25.798	DX	ATHEROSCLEROSIS OF OTHER CORONARY ARTERY BYPASS GRAFT(S) WITH OTHER FORMS OF ANGINA PECTORIS	ICD-10-CM
51.2/51.3	≥50% stenosis in ≥1 major coronary arteries I25.799	DX	ATHEROSCLEROSIS OF OTHER CORONARY ARTERY BYPASS GRAFT(S) WITH UNSPECIFIED ANGINA PECTORIS	ICD-10-CM
51.2/51.3	≥50% stenosis in ≥1 major coronary arteries I25.3	DX	ANEURYSM OF HEART	ICD-10-CM
51.2/51.3	≥50% stenosis in ≥1 major coronary arteries I25.41	DX	CORONARY ARTERY ANEURYSM	ICD-10-CM
51.2/51.3	≥50% stenosis in ≥1 major coronary arteries I25.42	DX	CORONARY ARTERY DISSECTION	ICD-10-CM
51.2/51.3	≥50% stenosis in ≥1 major coronary arteries I25.5	DX	ISCHEMIC CARDIOMYOPATHY	ICD-10-CM
51.2/51.3	≥50% stenosis in ≥1 major coronary arteries I25.6	DX	SILENT MYOCARDIAL ISCHEMIA	ICD-10-CM
51.2/51.3	≥50% stenosis in ≥1 major coronary arteries I25.810	DX	ATHEROSCLEROSIS OF CORONARY ARTERY BYPASS GRAFT(S) WITHOUT ANGINA PECTORIS	ICD-10-CM
51.2/51.3	≥50% stenosis in ≥1 major coronary arteries I25.811	DX	ATHEROSCLEROSIS OF NATIVE CORONARY ARTERY OF TRANSPLANTED HEART WITHOUT ANGINA PECTORIS	ICD-10-CM
51.2/51.3	≥50% stenosis in ≥1 major coronary arteries I25.812	DX	ATHEROSCLEROSIS OF BYPASS GRAFT OF CORONARY ARTERY OF TRANSPLANTED HEART WITHOUT ANGINA PECTORIS	ICD-10-CM
51.2/51.3	≥50% stenosis in ≥1 major coronary arteries I25.82	DX	CHRONIC TOTAL OCCLUSION OF CORONARY ARTERY	ICD-10-CM
51.2/51.3	≥50% stenosis in ≥1 major coronary arteries I25.83	DX	CORONARY ATHEROSCLEROSIS DUE TO LIPID RICH PLAQUE	ICD-10-CM
51.2/51.3	≥50% stenosis in ≥1 major coronary arteries I25.84	DX	CORONARY ATHEROSCLEROSIS DUE TO CALCIFIED CORONARY LESION	ICD-10-CM
51.2/51.3	≥50% stenosis in ≥1 major coronary arteries I25.89	DX	OTHER FORMS OF CHRONIC ISCHEMIC HEART DISEASE	ICD-10-CM
51.2/51.3	≥50% stenosis in ≥1 major coronary arteries I25.9	DX	CHRONIC ISCHEMIC HEART DISEASE, UNSPECIFIED	ICD-10-CM
51.4	History of surgical or percutaneous coronary T82.211A	DX	BREAKDOWN (MECHANICAL) OF CORONARY ARTERY BYPASS GRAFT, INITIAL ENCOUNTER	ICD-10-PCS
51.4	History of surgical or percutaneous coronary T82.212A	DX	DISPLACEMENT OF CORONARY ARTERY BYPASS GRAFT, INITIAL ENCOUNTER	ICD-10-PCS
51.4	History of surgical or percutaneous coronary T82.213A	DX	LEAKAGE OF CORONARY ARTERY BYPASS GRAFT, INITIAL ENCOUNTER	ICD-10-PCS
51.4	History of surgical or percutaneous coronary T82.218A	DX	OTHER MECHANICAL COMPLICATION OF CORONARY ARTERY BYPASS GRAFT, INITIAL ENCOUNTER	ICD-10-PCS
51.4	History of surgical or percutaneous coronary 0210083	PX	BYPASS CORONARY ARTERY, ONE ARTERY FROM CORONARY ARTERY WITH ZOOPLASTIC TISSUE, OPEN APPROACH	ICD-10-PCS
51.4	History of surgical or percutaneous coronary 0210088	PX	BYPASS CORONARY ARTERY, ONE ARTERY FROM RIGHT INTERNAL MAMMARY WITH ZOOPLASTIC TISSUE, OPEN APPROACH	ICD-10-PCS
51.4	History of surgical or percutaneous coronary 0210089	PX	BYPASS CORONARY ARTERY, ONE ARTERY FROM LEFT INTERNAL MAMMARY WITH ZOOPLASTIC TISSUE, OPEN APPROACH	ICD-10-PCS
51.4	History of surgical or percutaneous coronary 021008C	PX	BYPASS CORONARY ARTERY, ONE ARTERY FROM THORACIC ARTERY WITH ZOOPLASTIC TISSUE, OPEN APPROACH	ICD-10-PCS
51.4	History of surgical or percutaneous coronary 021008F	PX	BYPASS CORONARY ARTERY, ONE ARTERY FROM ABDOMINAL ARTERY WITH ZOOPLASTIC TISSUE, OPEN APPROACH	ICD-10-PCS

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5.1.4	History of surgical or percutaneous coronary	02134K9	PX	BYPASS CORONARY ARTERY, FOUR OR MORE ARTERIES FROM LEFT INTERNAL MAMMARY WITH NONAUTOLOGOUS TISSUE SUBSTITUTE, PERCUTANEOUS ENDOSCOPIC APPROACH	ICD-10-PCS
5.1.4	History of surgical or percutaneous coronary	02134KC	PX	BYPASS CORONARY ARTERY, FOUR OR MORE ARTERIES FROM THORACIC ARTERY WITH NONAUTOLOGOUS TISSUE SUBSTITUTE, PERCUTANEOUS ENDOSCOPIC APPROACH	ICD-10-PCS
5.1.4	History of surgical or percutaneous coronary	02134KF	PX	BYPASS CORONARY ARTERY, FOUR OR MORE ARTERIES FROM ABDOMINAL ARTERY WITH NONAUTOLOGOUS TISSUE SUBSTITUTE, PERCUTANEOUS ENDOSCOPIC APPROACH	ICD-10-PCS
5.1.4	History of surgical or percutaneous coronary	02134KW	PX	BYPASS CORONARY ARTERY, FOUR OR MORE ARTERIES FROM AORTA WITH NONAUTOLOGOUS TISSUE SUBSTITUTE, PERCUTANEOUS ENDOSCOPIC APPROACH	ICD-10-PCS
5.1.4	History of surgical or percutaneous coronary	02134Z3	PX	BYPASS CORONARY ARTERY, FOUR OR MORE ARTERIES FROM CORONARY ARTERY, PERCUTANEOUS ENDOSCOPIC APPROACH	ICD-10-PCS
5.1.4	History of surgical or percutaneous coronary	02134Z8	PX	BYPASS CORONARY ARTERY, FOUR OR MORE ARTERIES FROM RIGHT INTERNAL MAMMARY, PERCUTANEOUS ENDOSCOPIC APPROACH	ICD-10-PCS
5.1.4	History of surgical or percutaneous coronary	02134Z9	PX	BYPASS CORONARY ARTERY, FOUR OR MORE ARTERIES FROM LEFT INTERNAL MAMMARY, PERCUTANEOUS ENDOSCOPIC APPROACH	ICD-10-PCS
5.1.4	History of surgical or percutaneous coronary	02134ZC	PX	BYPASS CORONARY ARTERY, FOUR OR MORE ARTERIES FROM THORACIC ARTERY, PERCUTANEOUS ENDOSCOPIC APPROACH	ICD-10-PCS
5.1.4	History of surgical or percutaneous coronary	02134ZF	PX	BYPASS CORONARY ARTERY, FOUR OR MORE ARTERIES FROM ABDOMINAL ARTERY, PERCUTANEOUS ENDOSCOPIC APPROACH	ICD-10-PCS
5.1.4	History of surgical or percutaneous coronary	021K0Z5	PX	BYPASS RIGHT VENTRICLE TO CORONARY CIRCULATION, OPEN APPROACH	ICD-10-PCS
5.1.4	History of surgical or percutaneous coronary	021K4Z5	PX	BYPASS RIGHT VENTRICLE TO CORONARY CIRCULATION, PERCUTANEOUS ENDOSCOPIC APPROACH	ICD-10-PCS
5.1.4	History of surgical or percutaneous coronary	021L0Z5	PX	BYPASS LEFT VENTRICLE TO CORONARY CIRCULATION, OPEN APPROACH	ICD-10-PCS
5.1.4	History of surgical or percutaneous coronary	021L4Z5	PX	BYPASS LEFT VENTRICLE TO CORONARY CIRCULATION, PERCUTANEOUS ENDOSCOPIC APPROACH	ICD-10-PCS
5.1.4	History of surgical or percutaneous coronary	0270046	PX	DILATION OF CORONARY ARTERY, ONE ARTERY, BIFURCATION, WITH DRUG-ELUTING INTRALUMINAL DEVICE, OPEN APPROACH	ICD-10-PCS
5.1.4	History of surgical or percutaneous coronary	027004Z	PX	DILATION OF CORONARY ARTERY, ONE ARTERY WITH DRUG-ELUTING INTRALUMINAL DEVICE, OPEN APPROACH	ICD-10-PCS
5.1.4	History of surgical or percutaneous coronary	0270056	PX	DILATION OF CORONARY ARTERY, ONE ARTERY, BIFURCATION, WITH TWO DRUGELUTING INTRALUMINAL DEVICES, OPEN APPROACH	ICD-10-PCS
5.1.4	History of surgical or percutaneous coronary	027005Z	PX	DILATION OF CORONARY ARTERY, ONE ARTERY WITH TWO DRUG-ELUTING INTRALUMINAL DEVICES, OPEN APPROACH	ICD-10-PCS
5.1.4	History of surgical or percutaneous coronary	0270066	PX	DILATION OF CORONARY ARTERY, ONE ARTERY, BIFURCATION, WITH THREE DRUG-ELUTING INTRALUMINAL DEVICES, OPEN APPROACH	ICD-10-PCS
5.1.4	History of surgical or percutaneous coronary	027006Z	PX	DILATION OF CORONARY ARTERY, ONE ARTERY WITH THREE DRUG-ELUTING INTRALUMINAL DEVICES, OPEN APPROACH	ICD-10-PCS
5.1.4	History of surgical or percutaneous coronary	0270076	PX	DILATION OF CORONARY ARTERY, ONE ARTERY, BIFURCATION, WITH FOUR OR MORE DRUG-ELUTING INTRALUMINAL DEVICES, OPEN APPROACH	ICD-10-PCS
5.1.4	History of surgical or percutaneous coronary	027007Z	PX	DILATION OF CORONARY ARTERY, ONE ARTERY WITH FOUR OR MORE DRUG-ELUTING INTRALUMINAL DEVICES, OPEN APPROACH	ICD-10-PCS
5.1.4	History of surgical or percutaneous coronary	02700D6	PX	DILATION OF CORONARY ARTERY, ONE ARTERY, BIFURCATION, WITH INTRALUMINAL DEVICE, OPEN APPROACH	ICD-10-PCS
5.1.4	History of surgical or percutaneous coronary	02700DZ	PX	DILATION OF CORONARY ARTERY, ONE ARTERY WITH INTRALUMINAL DEVICE, OPEN APPROACH	ICD-10-PCS
5.1.4	History of surgical or percutaneous coronary	02700E6	PX	DILATION OF CORONARY ARTERY, ONE ARTERY, BIFURCATION, WITH TWO INTRALUMINAL DEVICES, OPEN APPROACH	ICD-10-PCS
5.1.4	History of surgical or percutaneous coronary	02700EZ	PX	DILATION OF CORONARY ARTERY, ONE ARTERY WITH TWO INTRALUMINAL DEVICES, OPEN APPROACH	ICD-10-PCS
5.1.4	History of surgical or percutaneous coronary	02700F6	PX	DILATION OF CORONARY ARTERY, ONE ARTERY, BIFURCATION, WITH THREE INTRALUMINAL DEVICES, OPEN APPROACH	ICD-10-PCS
5.1.4	History of surgical or percutaneous coronary	02700FZ	PX	DILATION OF CORONARY ARTERY, ONE ARTERY WITH THREE INTRALUMINAL DEVICES, OPEN APPROACH	ICD-10-PCS
5.1.4	History of surgical or percutaneous coronary	02700G6	PX	DILATION OF CORONARY ARTERY, ONE ARTERY, BIFURCATION, WITH FOUR OR MORE INTRALUMINAL DEVICES, OPEN APPROACH	ICD-10-PCS
5.1.4	History of surgical or percutaneous coronary	02700GZ	PX	DILATION OF CORONARY ARTERY, ONE ARTERY WITH FOUR OR MORE INTRALUMINAL DEVICES, OPEN APPROACH	ICD-10-PCS
5.1.4	History of surgical or percutaneous coronary	02700T6	PX	DILATION OF CORONARY ARTERY, ONE ARTERY, BIFURCATION, WITH RADIOACTIVE INTRALUMINAL DEVICE, OPEN APPROACH	ICD-10-PCS
5.1.4	History of surgical or percutaneous coronary	02700TZ	PX	DILATION OF CORONARY ARTERY, ONE ARTERY WITH RADIOACTIVE INTRALUMINAL DEVICE, OPEN APPROACH	ICD-10-PCS
5.1.4	History of surgical or percutaneous coronary	02700Z6	PX	DILATION OF CORONARY ARTERY, ONE ARTERY, BIFURCATION, OPEN APPROACH	ICD-10-PCS

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			DILATION OF CORONARY ARTERY, TWO ARTERIES WITH THREE DRUG-ELUTING INTRALUMINAL DEVICES, PERCUTANEOUS APPROACH	
51.4	History of surgical or percutaneous coronary	027136Z	PX	ICD-10-PCS
51.4	History of surgical or percutaneous coronary	0271376	PX	ICD-10-PCS
51.4	History of surgical or percutaneous coronary	027137Z	PX	ICD-10-PCS
51.4	History of surgical or percutaneous coronary	02713D6	PX	ICD-10-PCS
51.4	History of surgical or percutaneous coronary	02713DZ	PX	ICD-10-PCS
51.4	History of surgical or percutaneous coronary	02713E6	PX	ICD-10-PCS
51.4	History of surgical or percutaneous coronary	02713EZ	PX	ICD-10-PCS
51.4	History of surgical or percutaneous coronary	02713F6	PX	ICD-10-PCS
51.4	History of surgical or percutaneous coronary	02713FZ	PX	ICD-10-PCS
51.4	History of surgical or percutaneous coronary	02713G6	PX	ICD-10-PCS
51.4	History of surgical or percutaneous coronary	02713GZ	PX	ICD-10-PCS
51.4	History of surgical or percutaneous coronary	02713T6	PX	ICD-10-PCS
51.4	History of surgical or percutaneous coronary	02713TZ	PX	ICD-10-PCS
51.4	History of surgical or percutaneous coronary	02713Z6	PX	ICD-10-PCS
51.4	History of surgical or percutaneous coronary	02713ZZ	PX	ICD-10-PCS
51.4	History of surgical or percutaneous coronary	0271446	PX	ICD-10-PCS
51.4	History of surgical or percutaneous coronary	027144Z	PX	ICD-10-PCS
51.4	History of surgical or percutaneous coronary	0271456	PX	ICD-10-PCS
51.4	History of surgical or percutaneous coronary	027145Z	PX	ICD-10-PCS
51.4	History of surgical or percutaneous coronary	0271466	PX	ICD-10-PCS
51.4	History of surgical or percutaneous coronary	027146Z	PX	ICD-10-PCS
51.4	History of surgical or percutaneous coronary	0271476	PX	ICD-10-PCS
51.4	History of surgical or percutaneous coronary	027147Z	PX	ICD-10-PCS
51.4	History of surgical or percutaneous coronary	02714D6	PX	ICD-10-PCS
51.4	History of surgical or percutaneous coronary	02714DZ	PX	ICD-10-PCS
51.4	History of surgical or percutaneous coronary	02714E6	PX	ICD-10-PCS
51.4	History of surgical or percutaneous coronary	02714EZ	PX	ICD-10-PCS
51.4	History of surgical or percutaneous coronary	02714F6	PX	ICD-10-PCS
51.4	History of surgical or percutaneous coronary	02714FZ	PX	ICD-10-PCS
51.4	History of surgical or percutaneous coronary	02714G6	PX	ICD-10-PCS
51.4	History of surgical or percutaneous coronary	02714GZ	PX	ICD-10-PCS
51.4	History of surgical or percutaneous coronary	02714T6	PX	ICD-10-PCS

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5.1.4	History of surgical or percutaneous coronary	02C04ZZ	PX	EXTIRPATION OF MATTER FROM CORONARY ARTERY, ONE ARTERY, PERCUTANEOUS ENDOSCOPIC APPROACH	ICD-10-PCS
5.1.4	History of surgical or percutaneous coronary	02C10Z6	PX	EXTIRPATION OF MATTER FROM CORONARY ARTERY, TWO ARTERIES, BIFURCATION, OPEN APPROACH	ICD-10-PCS
5.1.4	History of surgical or percutaneous coronary	02C10ZZ	PX	EXTIRPATION OF MATTER FROM CORONARY ARTERY, TWO ARTERIES, OPEN APPROACH	ICD-10-PCS
5.1.4	History of surgical or percutaneous coronary	02C13Z6	PX	EXTIRPATION OF MATTER FROM CORONARY ARTERY, TWO ARTERIES, BIFURCATION, PERCUTANEOUS APPROACH	ICD-10-PCS
5.1.4	History of surgical or percutaneous coronary	02C13ZZ	PX	EXTIRPATION OF MATTER FROM CORONARY ARTERY, TWO ARTERIES, PERCUTANEOUS APPROACH	ICD-10-PCS
5.1.4	History of surgical or percutaneous coronary	02C14Z6	PX	EXTIRPATION OF MATTER FROM CORONARY ARTERY, TWO ARTERIES, BIFURCATION, PERCUTANEOUS ENDOSCOPIC APPROACH	ICD-10-PCS
5.1.4	History of surgical or percutaneous coronary	02C14ZZ	PX	EXTIRPATION OF MATTER FROM CORONARY ARTERY, TWO ARTERIES, PERCUTANEOUS ENDOSCOPIC APPROACH	ICD-10-PCS
5.1.4	History of surgical or percutaneous coronary	02C20Z6	PX	EXTIRPATION OF MATTER FROM CORONARY ARTERY, THREE ARTERIES, BIFURCATION, OPEN APPROACH	ICD-10-PCS
5.1.4	History of surgical or percutaneous coronary	02C20ZZ	PX	EXTIRPATION OF MATTER FROM CORONARY ARTERY, THREE ARTERIES, OPEN APPROACH	ICD-10-PCS
5.1.4	History of surgical or percutaneous coronary	02C23Z6	PX	EXTIRPATION OF MATTER FROM CORONARY ARTERY, THREE ARTERIES, BIFURCATION, PERCUTANEOUS APPROACH	ICD-10-PCS
5.1.4	History of surgical or percutaneous coronary	02C23ZZ	PX	EXTIRPATION OF MATTER FROM CORONARY ARTERY, THREE ARTERIES, PERCUTANEOUS APPROACH	ICD-10-PCS
5.1.4	History of surgical or percutaneous coronary	02C24Z6	PX	EXTIRPATION OF MATTER FROM CORONARY ARTERY, THREE ARTERIES, BIFURCATION, PERCUTANEOUS ENDOSCOPIC APPROACH	ICD-10-PCS
5.1.4	History of surgical or percutaneous coronary	02C24ZZ	PX	EXTIRPATION OF MATTER FROM CORONARY ARTERY, THREE ARTERIES, PERCUTANEOUS ENDOSCOPIC APPROACH	ICD-10-PCS
5.1.4	History of surgical or percutaneous coronary	02C30Z6	PX	EXTIRPATION OF MATTER FROM CORONARY ARTERY, FOUR OR MORE ARTERIES, BIFURCATION, OPEN APPROACH	ICD-10-PCS
5.1.4	History of surgical or percutaneous coronary	02C30ZZ	PX	EXTIRPATION OF MATTER FROM CORONARY ARTERY, FOUR OR MORE ARTERIES, OPEN APPROACH	ICD-10-PCS
5.1.4	History of surgical or percutaneous coronary	02C33Z6	PX	EXTIRPATION OF MATTER FROM CORONARY ARTERY, FOUR OR MORE ARTERIES, BIFURCATION, PERCUTANEOUS APPROACH	ICD-10-PCS
5.1.4	History of surgical or percutaneous coronary	02C33ZZ	PX	EXTIRPATION OF MATTER FROM CORONARY ARTERY, FOUR OR MORE ARTERIES, PERCUTANEOUS APPROACH	ICD-10-PCS
5.1.4	History of surgical or percutaneous coronary	02C34Z6	PX	EXTIRPATION OF MATTER FROM CORONARY ARTERY, FOUR OR MORE ARTERIES, BIFURCATION, PERCUTANEOUS ENDOSCOPIC APPROACH	ICD-10-PCS
5.1.4	History of surgical or percutaneous coronary	02C34ZZ	PX	EXTIRPATION OF MATTER FROM CORONARY ARTERY, FOUR OR MORE ARTERIES, PERCUTANEOUS ENDOSCOPIC APPROACH	ICD-10-PCS
5.1.4	History of surgical or percutaneous coronary	02QA0ZZ	PX	REPAIR HEART, OPEN APPROACH	ICD-10-PCS
5.1.4	History of surgical or percutaneous coronary	02QA3ZZ	PX	REPAIR HEART, PERCUTANEOUS APPROACH	ICD-10-PCS
5.1.4	History of surgical or percutaneous coronary	02QA4ZZ	PX	REPAIR HEART, PERCUTANEOUS ENDOSCOPIC APPROACH	ICD-10-PCS
5.1.4	History of surgical or percutaneous coronary	02QB0ZZ	PX	REPAIR RIGHT HEART, OPEN APPROACH	ICD-10-PCS
5.1.4	History of surgical or percutaneous coronary	02QB3ZZ	PX	REPAIR RIGHT HEART, PERCUTANEOUS APPROACH	ICD-10-PCS
5.1.4	History of surgical or percutaneous coronary	02QB4ZZ	PX	REPAIR RIGHT HEART, PERCUTANEOUS ENDOSCOPIC APPROACH	ICD-10-PCS
5.1.4	History of surgical or percutaneous coronary	02QC0ZZ	PX	REPAIR LEFT HEART, OPEN APPROACH	ICD-10-PCS
5.1.4	History of surgical or percutaneous coronary	02QC3ZZ	PX	REPAIR LEFT HEART, PERCUTANEOUS APPROACH	ICD-10-PCS
5.1.4	History of surgical or percutaneous coronary	02QC4ZZ	PX	REPAIR LEFT HEART, PERCUTANEOUS ENDOSCOPIC APPROACH	ICD-10-PCS
5.1.4	History of surgical or percutaneous coronary	33140	PX	TRANSMYOCARDIAL LASER REVASCULARIZATION, BY THORACOTOMY; (SEPARATE PROCEDURE)	CPT/HCPCS
5.1.4	History of surgical or percutaneous coronary	33141	PX	TRANSMYOCARDIAL LASER REVASCULARIZATION, BY THORACOTOMY; PERFORMED AT THE TIME OF OTHER OPEN CARDIAC PROCEDURE(S) (LIST SEPARATELY IN ADDITION TO CODE FOR PRIMARY PROCEDURE)	CPT/HCPCS
5.1.4	History of surgical or percutaneous coronary	33510	PX	CORONARY ARTERY BYPASS, VEIN ONLY; SINGLE CORONARY VENOUS GRAFT	CPT/HCPCS
5.1.4	History of surgical or percutaneous coronary	33511	PX	CORONARY ARTERY BYPASS, VEIN ONLY; 2 CORONARY VENOUS GRAFTS	CPT/HCPCS
5.1.4	History of surgical or percutaneous coronary	33512	PX	CORONARY ARTERY BYPASS, VEIN ONLY; 3 CORONARY VENOUS GRAFTS	CPT/HCPCS
5.1.4	History of surgical or percutaneous coronary	33513	PX	CORONARY ARTERY BYPASS, VEIN ONLY; 4 CORONARY VENOUS GRAFTS	CPT/HCPCS
5.1.4	History of surgical or percutaneous coronary	33514	PX	CORONARY ARTERY BYPASS, VEIN ONLY; 5 CORONARY VENOUS GRAFTS	CPT/HCPCS
5.1.4	History of surgical or percutaneous coronary	33516	PX	CORONARY ARTERY BYPASS, VEIN ONLY; 6 OR MORE CORONARY VENOUS GRAFTS	CPT/HCPCS
5.1.4	History of surgical or percutaneous coronary	33517	PX	CORONARY ARTERY BYPASS, USING VENOUS GRAFT(S) AND ARTERIAL GRAFT(S); SINGLE VEIN GRAFT (LIST SEPARATELY IN ADDITION TO CODE FOR PRIMARY PROCEDURE)	CPT/HCPCS
5.1.4	History of surgical or percutaneous coronary	33518	PX	CORONARY ARTERY BYPASS, USING VENOUS GRAFT(S) AND ARTERIAL GRAFT(S); 2 VENOUS GRAFTS (LIST SEPARATELY IN ADDITION TO CODE FOR PRIMARY PROCEDURE)	CPT/HCPCS

5.1.4	History of surgical or percutaneous coronary	33519 PX	CORONARY ARTERY BYPASS, USING VENOUS GRAFT(S) AND ARTERIAL GRAFT(S); 3 VENOUS GRAFTS (LIST SEPARATELY IN ADDITION TO CODE FOR PRIMARY PROCEDURE)	CPT/HCPCS
5.1.4	History of surgical or percutaneous coronary	33521 PX	CORONARY ARTERY BYPASS, USING VENOUS GRAFT(S) AND ARTERIAL GRAFT(S); 4 VENOUS GRAFTS (LIST SEPARATELY IN ADDITION TO CODE FOR PRIMARY PROCEDURE)	CPT/HCPCS
5.1.4	History of surgical or percutaneous coronary	33522 PX	CORONARY ARTERY BYPASS, USING VENOUS GRAFT(S) AND ARTERIAL GRAFT(S); 5 VENOUS GRAFTS (LIST SEPARATELY IN ADDITION TO CODE FOR PRIMARY PROCEDURE)	CPT/HCPCS
5.1.4	History of surgical or percutaneous coronary	33523 PX	CORONARY ARTERY BYPASS, USING VENOUS GRAFT(S) AND ARTERIAL GRAFT(S); 6 OR MORE VENOUS GRAFTS (LIST SEPARATELY IN ADDITION TO CODE FOR PRIMARY PROCEDURE)	CPT/HCPCS
5.1.4	History of surgical or percutaneous coronary	33530 PX	REOPERATION, CORONARY ARTERY BYPASS PROCEDURE OR VALVE PROCEDURE, MORE THAN 1 MONTH AFTER ORIGINAL OPERATION (LIST SEPARATELY IN ADDITION TO CODE FOR PRIMARY PROCEDURE)	CPT/HCPCS
5.1.4	History of surgical or percutaneous coronary	33533 PX	CORONARY ARTERY BYPASS, USING ARTERIAL GRAFT(S); SINGLE ARTERIAL GRAFT	CPT/HCPCS
5.1.4	History of surgical or percutaneous coronary	33534 PX	CORONARY ARTERY BYPASS, USING ARTERIAL GRAFT(S); 2 CORONARY ARTERIAL GRAFTS	CPT/HCPCS
5.1.4	History of surgical or percutaneous coronary	33535 PX	CORONARY ARTERY BYPASS, USING ARTERIAL GRAFT(S); 3 CORONARY ARTERIAL GRAFTS	CPT/HCPCS
5.1.4	History of surgical or percutaneous coronary	33536 PX	CORONARY ARTERY BYPASS, USING ARTERIAL GRAFT(S); 4 OR MORE CORONARY ARTERIAL GRAFTS	CPT/HCPCS
5.1.4	History of surgical or percutaneous coronary	33545 PX	REPAIR OF POSTINFARCTION VENTRICULAR SEPTAL DEFECT, WITH OR WITHOUT MYOCARDIAL RESECTION	CPT/HCPCS
5.1.4	History of surgical or percutaneous coronary	33572 PX	CORONARY ENDARTERECTOMY, OPEN, ANY METHOD, OF LEFT ANTERIOR DESCENDING, CIRCUMFLEX, OR RIGHT CORONARY ARTERY PERFORMED IN CONJUNCTION WITH CORONARY ARTERY BYPASS GRAFT PROCEDURE, EACH VESSEL (LIST SEPARATELY IN ADDITION TO PRIMARY PROCEDURE)	CPT/HCPCS
5.1.4	History of surgical or percutaneous coronary	92920 PX	PERCUTANEOUS TRANSLUMINAL CORONARY ANGIOPLASTY; SINGLE MAJOR CORONARY ARTERY OR BRANCH	CPT/HCPCS
5.1.4	History of surgical or percutaneous coronary	92921 PX	PERCUTANEOUS TRANSLUMINAL CORONARY ANGIOPLASTY; EACH ADDITIONAL BRANCH OF A MAJOR CORONARY ARTERY (LIST SEPARATELY IN ADDITION TO CODE FOR PRIMARY PROCEDURE)	CPT/HCPCS
5.1.4	History of surgical or percutaneous coronary	92924 PX	PERCUTANEOUS TRANSLUMINAL CORONARY ATHERECTOMY, WITH CORONARY ANGIOPLASTY WHEN PERFORMED; SINGLE MAJOR CORONARY ARTERY OR BRANCH	CPT/HCPCS
5.1.4	History of surgical or percutaneous coronary	92925 PX	PERCUTANEOUS TRANSLUMINAL CORONARY ATHERECTOMY, WITH CORONARY ANGIOPLASTY WHEN PERFORMED; EACH ADDITIONAL BRANCH OF A MAJOR CORONARY ARTERY (LIST SEPARATELY IN ADDITION TO CODE FOR PRIMARY PROCEDURE)	CPT/HCPCS
5.1.4	History of surgical or percutaneous coronary	92928 PX	PERCUTANEOUS TRANSCATHETER PLACEMENT OF INTRACORONARY STENT(S), WITH CORONARY ANGIOPLASTY WHEN PERFORMED; SINGLE MAJOR CORONARY ARTERY OR BRANCH	CPT/HCPCS
5.1.4	History of surgical or percutaneous coronary	92929 PX	PERCUTANEOUS TRANSCATHETER PLACEMENT OF INTRACORONARY STENT(S), WITH CORONARY ANGIOPLASTY WHEN PERFORMED; EACH ADDITIONAL BRANCH OF A MAJOR CORONARY ARTERY (LIST SEPARATELY IN ADDITION TO CODE FOR PRIMARY PROCEDURE)	CPT/HCPCS
5.1.4	History of surgical or percutaneous coronary	92933 PX	PERCUTANEOUS TRANSLUMINAL CORONARY ATHERECTOMY, WITH INTRACORONARY STENT, WITH CORONARY ANGIOPLASTY WHEN PERFORMED; SINGLE MAJOR CORONARY ARTERY OR BRANCH	CPT/HCPCS
5.1.4	History of surgical or percutaneous coronary	92934 PX	PERCUTANEOUS TRANSLUMINAL CORONARY ATHERECTOMY, WITH INTRACORONARY STENT, WITH CORONARY ANGIOPLASTY WHEN PERFORMED; EACH ADDITIONAL BRANCH OF A MAJOR CORONARY ARTERY (LIST SEPARATELY IN ADDITION TO CODE FOR PRIMARY PROCEDURE)	CPT/HCPCS
5.1.4	History of surgical or percutaneous coronary	92937 PX	PERCUTANEOUS TRANSLUMINAL REVASCULARIZATION OF OR THROUGH CORONARY ARTERY BYPASS GRAFT (INTERNAL MAMMARY, FREE ARTERIAL, VENOUS), ANY COMBINATION OF INTRACORONARY STENT, ATHERECTOMY AND ANGIOPLASTY, INCLUDING DISTAL PROTECTION WHEN PERFORMED; SINGLE VESSEL	CPT/HCPCS
5.1.4	History of surgical or percutaneous coronary	92938 PX	PERCUTANEOUS TRANSLUMINAL REVASCULARIZATION OF OR THROUGH CORONARY ARTERY BYPASS GRAFT (INTERNAL MAMMARY, FREE ARTERIAL, VENOUS), ANY COMBINATION OF INTRACORONARY STENT, ATHERECTOMY AND ANGIOPLASTY, INCLUDING DISTAL PROTECTION WHEN PERFORMED; EACH ADDITIONAL BRANCH SUBTENDED BY THE BYPASS GRAFT (LIST SEPARATELY IN ADDITION TO CODE FOR PRIMARY PROCEDURE)	CPT/HCPCS

5.1.4	History of surgical or percutaneous coronary	92941 PX	PERCUTANEOUS TRANSLUMINAL REVASCULARIZATION OF ACUTE TOTAL/SUBTOTAL OCCLUSION DURING ACUTE MYOCARDIAL INFARCTION, CORONARY ARTERY OR CORONARY ARTERY BYPASS GRAFT, ANY COMBINATION OF INTRACORONARY STENT, ATHERECTOMY AND ANGIOPLASTY, INCLUDING ASPIRATION THROMBECTOMY WHEN PERFORMED, SINGLE VESSEL	CPT/HCPCS
5.1.4	History of surgical or percutaneous coronary	92943 PX	PERCUTANEOUS TRANSLUMINAL REVASCULARIZATION OF CHRONIC TOTAL OCCLUSION, CORONARY ARTERY, CORONARY ARTERY BRANCH, OR CORONARY ARTERY BYPASS GRAFT, ANY COMBINATION OF INTRACORONARY STENT, ATHERECTOMY AND ANGIOPLASTY; SINGLE VESSEL	CPT/HCPCS
5.1.4	History of surgical or percutaneous coronary	92944 PX	PERCUTANEOUS TRANSLUMINAL REVASCULARIZATION OF CHRONIC TOTAL OCCLUSION, CORONARY ARTERY, CORONARY ARTERY BRANCH, OR CORONARY ARTERY BYPASS GRAFT, ANY COMBINATION OF INTRACORONARY STENT, ATHERECTOMY AND ANGIOPLASTY; EACH ADDITIONAL CORONARY ARTERY, CORONARY ARTERY BRANCH, OR BYPASS GRAFT (LIST SEPARATELY IN ADDITION TO CODE FOR PRIMARY PROCEDURE)	CPT/HCPCS
5.1.4	History of surgical or percutaneous coronary	92973 PX	PERCUTANEOUS TRANSLUMINAL CORONARY THROMBECTOMY MECHANICAL (LIST SEPARATELY IN ADDITION TO CODE FOR PRIMARY PROCEDURE)	CPT/HCPCS
5.1.4	History of surgical or percutaneous coronary	92980 PX	TRANSCATHETER PLACEMENT OF AN INTRACORONARY STENT(S), PERCUTANEOUS, WITH OR WITHOUT OTHER THERAPEUTIC INTERVENTION, ANY METHOD; SINGLE VESSEL	CPT/HCPCS
5.1.4	History of surgical or percutaneous coronary	92981 PX	TRANSCATHETER PLACEMENT OF AN INTRACORONARY STENT(S), PERCUTANEOUS, WITH OR WITHOUT OTHER THERAPEUTIC INTERVENTION, ANY METHOD; EACH ADDITIONAL VESSEL (LIST SEPARATELY IN ADDITION TO CODE FOR PRIMARY PROCEDURE)	CPT/HCPCS
5.1.4	History of surgical or percutaneous coronary	92982 PX	PERCUTANEOUS TRANSLUMINAL CORONARY BALLOON ANGIOPLASTY; SINGLE VESSEL	CPT/HCPCS
5.1.4	History of surgical or percutaneous coronary	92984 PX	PERCUTANEOUS TRANSLUMINAL CORONARY BALLOON ANGIOPLASTY; EACH ADDITIONAL VESSEL (LIST SEPARATELY IN ADDITION TO CODE FOR PRIMARY PROCEDURE)	CPT/HCPCS
5.1.4	History of surgical or percutaneous coronary	92984 PX	PERCUTANEOUS TRANSLUMINAL CORONARY ATHERECTOMY, BY MECHANICAL OR OTHER METHOD, WITH OR WITHOUT BALLOON ANGIOPLASTY; SINGLE VESSEL	CPT/HCPCS
5.1.4	History of surgical or percutaneous coronary	92995 PX	PERCUTANEOUS TRANSLUMINAL CORONARY ATHERECTOMY, BY MECHANICAL OR OTHER METHOD, WITH OR WITHOUT BALLOON ANGIOPLASTY; EACH ADDITIONAL VESSEL (LIST SEPARATELY IN ADDITION TO CODE FOR PRIMARY PROCEDURE)	CPT/HCPCS
5.1.4	History of surgical or percutaneous coronary	92996 PX	PERCUTANEOUS TRANSLUMINAL CORONARY ATHERECTOMY, BY MECHANICAL OR OTHER METHOD, WITH OR WITHOUT BALLOON ANGIOPLASTY; EACH ADDITIONAL VESSEL (LIST SEPARATELY IN ADDITION TO CODE FOR PRIMARY PROCEDURE)	CPT/HCPCS
5.1.4	History of surgical or percutaneous coronary Z95.1	DX	PRESENCE OF AORTOCORONARY BYPASS GRAFT	ICD-10-CM
5.1.4	History of surgical or percutaneous coronary Z95.5	DX	PRESENCE OF CORONARY ANGIOPLASTY IMPLANT AND GRAFT	ICD-10-CM
5.1.4	History of surgical or percutaneous coronary Z98.61	DX	CORONARY ANGIOPLASTY STATUS	ICD-10-CM
5.2.1	Documented history of ischemic stroke	G43.609 DX	PERSISTENT MIGRAINE AURA WITH CEREBRAL INFARCTION, NOT INTRACTABLE, WITHOUT STATUS MIGRAINOSUS	ICD-10-CM
5.2.1	Documented history of ischemic stroke	G43.619 DX	PERSISTENT MIGRAINE AURA WITH CEREBRAL INFARCTION, INTRACTABLE, WITHOUT STATUS MIGRAINOSUS	ICD-10-CM
5.2.1	Documented history of ischemic stroke	G46.3 DX	BRAIN STEM STROKE SYNDROME	ICD-10-CM
5.2.1	Documented history of ischemic stroke	G46.4 DX	CEREBELLAR STROKE SYNDROME	ICD-10-CM
5.2.1	Documented history of ischemic stroke	I63.0 DX	CEREBRAL INFARCTION DUE TO THROMBOSIS OF PRECEREBRAL ARTERIES	ICD-10-CM
5.2.1	Documented history of ischemic stroke	I63.00 DX	CEREBRAL INFARCTION DUE TO THROMBOSIS OF UNSPECIFIED PRECEREBRAL ARTERY	ICD-10-CM
5.2.1	Documented history of ischemic stroke	I63.01 DX	CEREBRAL INFARCTION DUE TO THROMBOSIS OF VERTEBRAL ARTERY	ICD-10-CM
5.2.1	Documented history of ischemic stroke	I63.011 DX	CEREBRAL INFARCTION DUE TO THROMBOSIS OF RIGHT VERTEBRAL ARTERY	ICD-10-CM
5.2.1	Documented history of ischemic stroke	I63.012 DX	CEREBRAL INFARCTION DUE TO THROMBOSIS OF LEFT VERTEBRAL ARTERY	ICD-10-CM
5.2.1	Documented history of ischemic stroke	I63.013 DX	CEREBRAL INFARCTION DUE TO THROMBOSIS OF BILATERAL VERTEBRAL ARTERIES	ICD-10-CM
5.2.1	Documented history of ischemic stroke	I63.019 DX	CEREBRAL INFARCTION DUE TO THROMBOSIS OF UNSPECIFIED VERTEBRAL ARTERY	ICD-10-CM
5.2.1	Documented history of ischemic stroke	I63.02 DX	CEREBRAL INFARCTION DUE TO THROMBOSIS OF BASILAR ARTERY	ICD-10-CM
5.2.1	Documented history of ischemic stroke	I63.03 DX	CEREBRAL INFARCTION DUE TO THROMBOSIS OF CAROTID ARTERY	ICD-10-CM
5.2.1	Documented history of ischemic stroke	I63.031 DX	CEREBRAL INFARCTION DUE TO THROMBOSIS OF RIGHT CAROTID ARTERY	ICD-10-CM
5.2.1	Documented history of ischemic stroke	I63.032 DX	CEREBRAL INFARCTION DUE TO THROMBOSIS OF LEFT CAROTID ARTERY	ICD-10-CM
5.2.1	Documented history of ischemic stroke	I63.033 DX	CEREBRAL INFARCTION DUE TO THROMBOSIS OF BILATERAL CAROTID ARTERIES	ICD-10-CM
5.2.1	Documented history of ischemic stroke	I63.039 DX	CEREBRAL INFARCTION DUE TO THROMBOSIS OF UNSPECIFIED CAROTID ARTERY	ICD-10-CM
5.2.1	Documented history of ischemic stroke	I63.09 DX	CEREBRAL INFARCTION DUE TO THROMBOSIS OF OTHER PRECEREBRAL ARTERY	ICD-10-CM
5.2.1	Documented history of ischemic stroke	I63.1 DX	CEREBRAL INFARCTION DUE TO EMBOLISM OF PRECEREBRAL ARTERIES	ICD-10-CM
5.2.1	Documented history of ischemic stroke	I63.10 DX	CEREBRAL INFARCTION DUE TO EMBOLISM OF UNSPECIFIED PRECEREBRAL ARTERY	ICD-10-CM
5.2.1	Documented history of ischemic stroke	I63.11 DX	CEREBRAL INFARCTION DUE TO EMBOLISM OF VERTEBRAL ARTERY	ICD-10-CM
5.2.1	Documented history of ischemic stroke	I63.111 DX	CEREBRAL INFARCTION DUE TO EMBOLISM OF RIGHT VERTEBRAL ARTERY	ICD-10-CM
5.2.1	Documented history of ischemic stroke	I63.112 DX	CEREBRAL INFARCTION DUE TO EMBOLISM OF LEFT VERTEBRAL ARTERY	ICD-10-CM
5.2.1	Documented history of ischemic stroke	I63.113 DX	CEREBRAL INFARCTION DUE TO EMBOLISM OF BILATERAL VERTEBRAL ARTERIES	ICD-10-CM

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5.2.1	Documented history of ischemic stroke	I63.531	DX	CEREBRAL INFARCTION DUE TO UNSPECIFIED OCCLUSION OR STENOSIS OF RIGHT POSTERIOR CEREBRAL ARTERY	ICD-10-CM
5.2.1	Documented history of ischemic stroke	I63.532	DX	CEREBRAL INFARCTION DUE TO UNSPECIFIED OCCLUSION OR STENOSIS OF LEFT POSTERIOR CEREBRAL ARTERY	ICD-10-CM
5.2.1	Documented history of ischemic stroke	I63.533	DX	CEREBRAL INFARCTION DUE TO UNSPECIFIED OCCLUSION OR STENOSIS OF BILATERAL POSTERIOR CEREBRAL ARTERIES	ICD-10-CM
5.2.1	Documented history of ischemic stroke	I63.539	DX	CEREBRAL INFARCTION DUE TO UNSPECIFIED OCCLUSION OR STENOSIS OF UNSPECIFIED POSTERIOR CEREBRAL ARTERY	ICD-10-CM
5.2.1	Documented history of ischemic stroke	I63.54	DX	CEREBRAL INFARCTION DUE TO UNSPECIFIED OCCLUSION OR STENOSIS OF CEREBELLAR ARTERY	ICD-10-CM
5.2.1	Documented history of ischemic stroke	I63.541	DX	CEREBRAL INFARCTION DUE TO UNSPECIFIED OCCLUSION OR STENOSIS OF RIGHT CEREBELLAR ARTERY	ICD-10-CM
5.2.1	Documented history of ischemic stroke	I63.542	DX	CEREBRAL INFARCTION DUE TO UNSPECIFIED OCCLUSION OR STENOSIS OF LEFT CEREBELLAR ARTERY	ICD-10-CM
5.2.1	Documented history of ischemic stroke	I63.543	DX	CEREBRAL INFARCTION DUE TO UNSPECIFIED OCCLUSION OR STENOSIS OF BILATERAL CEREBELLAR ARTERIES	ICD-10-CM
5.2.1	Documented history of ischemic stroke	I63.549	DX	CEREBRAL INFARCTION DUE TO UNSPECIFIED OCCLUSION OR STENOSIS OF UNSPECIFIED CEREBELLAR ARTERY	ICD-10-CM
5.2.1	Documented history of ischemic stroke	I63.59	DX	CEREBRAL INFARCTION DUE TO UNSPECIFIED OCCLUSION OR STENOSIS OF OTHER CEREBRAL ARTERY	ICD-10-CM
5.2.1	Documented history of ischemic stroke	I63.6	DX	CEREBRAL INFARCTION DUE TO CEREBRAL VENOUS THROMBOSIS, NONPYOGENIC	ICD-10-CM
5.2.1	Documented history of ischemic stroke	I63.8	DX	OTHER CEREBRAL INFARCTION	ICD-10-CM
5.2.1	Documented history of ischemic stroke	I63.81	DX	OTHER CEREBRAL INFARCTION DUE TO OCCLUSION OR STENOSIS OF SMALL ARTERY	ICD-10-CM
5.2.1	Documented history of ischemic stroke	I63.89	DX	OTHER CEREBRAL INFARCTION	ICD-10-CM
5.2.1	Documented history of ischemic stroke	I63.9	DX	CEREBRAL INFARCTION, UNSPECIFIED	ICD-10-CM
5.2.1	Documented history of ischemic stroke	I65.0	DX	OCCLUSION AND STENOSIS OF VERTEBRAL ARTERY	ICD-10-CM
5.2.1	Documented history of ischemic stroke	I65.01	DX	OCCLUSION AND STENOSIS OF RIGHT VERTEBRAL ARTERY	ICD-10-CM
5.2.1	Documented history of ischemic stroke	I65.02	DX	OCCLUSION AND STENOSIS OF LEFT VERTEBRAL ARTERY	ICD-10-CM
5.2.1	Documented history of ischemic stroke	I65.03	DX	OCCLUSION AND STENOSIS OF BILATERAL VERTEBRAL ARTERIES	ICD-10-CM
5.2.1	Documented history of ischemic stroke	I65.09	DX	OCCLUSION AND STENOSIS OF UNSPECIFIED VERTEBRAL ARTERY	ICD-10-CM
5.2.1	Documented history of ischemic stroke	I65.1	DX	OCCLUSION AND STENOSIS OF BASILAR ARTERY	ICD-10-CM
5.2.1	Documented history of ischemic stroke	I65.8	DX	OCCLUSION AND STENOSIS OF OTHER PRECEREBRAL ARTERIES	ICD-10-CM
5.2.1	Documented history of ischemic stroke	I65.9	DX	OCCLUSION AND STENOSIS OF UNSPECIFIED PRECEREBRAL ARTERY	ICD-10-CM
5.2.1	Documented history of ischemic stroke	I66.0	DX	OCCLUSION AND STENOSIS OF MIDDLE CEREBRAL ARTERY	ICD-10-CM
5.2.1	Documented history of ischemic stroke	I66.01	DX	OCCLUSION AND STENOSIS OF RIGHT MIDDLE CEREBRAL ARTERY	ICD-10-CM
5.2.1	Documented history of ischemic stroke	I66.02	DX	OCCLUSION AND STENOSIS OF LEFT MIDDLE CEREBRAL ARTERY	ICD-10-CM
5.2.1	Documented history of ischemic stroke	I66.03	DX	OCCLUSION AND STENOSIS OF BILATERAL MIDDLE CEREBRAL ARTERIES	ICD-10-CM
5.2.1	Documented history of ischemic stroke	I66.09	DX	OCCLUSION AND STENOSIS OF UNSPECIFIED MIDDLE CEREBRAL ARTERY	ICD-10-CM
5.2.1	Documented history of ischemic stroke	I66.1	DX	OCCLUSION AND STENOSIS OF ANTERIOR CEREBRAL ARTERY	ICD-10-CM
5.2.1	Documented history of ischemic stroke	I66.11	DX	OCCLUSION AND STENOSIS OF RIGHT ANTERIOR CEREBRAL ARTERY	ICD-10-CM
5.2.1	Documented history of ischemic stroke	I66.12	DX	OCCLUSION AND STENOSIS OF LEFT ANTERIOR CEREBRAL ARTERY	ICD-10-CM
5.2.1	Documented history of ischemic stroke	I66.13	DX	OCCLUSION AND STENOSIS OF BILATERAL ANTERIOR CEREBRAL ARTERIES	ICD-10-CM
5.2.1	Documented history of ischemic stroke	I66.19	DX	OCCLUSION AND STENOSIS OF UNSPECIFIED ANTERIOR CEREBRAL ARTERY	ICD-10-CM
5.2.1	Documented history of ischemic stroke	I66.2	DX	OCCLUSION AND STENOSIS OF POSTERIOR CEREBRAL ARTERY	ICD-10-CM
5.2.1	Documented history of ischemic stroke	I66.21	DX	OCCLUSION AND STENOSIS OF RIGHT POSTERIOR CEREBRAL ARTERY	ICD-10-CM
5.2.1	Documented history of ischemic stroke	I66.22	DX	OCCLUSION AND STENOSIS OF LEFT POSTERIOR CEREBRAL ARTERY	ICD-10-CM
5.2.1	Documented history of ischemic stroke	I66.23	DX	OCCLUSION AND STENOSIS OF BILATERAL POSTERIOR CEREBRAL ARTERIES	ICD-10-CM
5.2.1	Documented history of ischemic stroke	I66.29	DX	OCCLUSION AND STENOSIS OF UNSPECIFIED POSTERIOR CEREBRAL ARTERY	ICD-10-CM
5.2.1	Documented history of ischemic stroke	I66.3	DX	OCCLUSION AND STENOSIS OF CEREBELLAR ARTERIES	ICD-10-CM
5.2.1	Documented history of ischemic stroke	I66.8	DX	OCCLUSION AND STENOSIS OF OTHER CEREBRAL ARTERIES	ICD-10-CM
5.2.1	Documented history of ischemic stroke	I66.9	DX	OCCLUSION AND STENOSIS OF UNSPECIFIED CEREBRAL ARTERY	ICD-10-CM
5.2.2	Carotid arterial disease with ≥50% stenosis, I63.03	I63.03	DX	Cerebral infarction due to thrombosis of carotid artery	ICD-10-CM
5.2.2	Carotid arterial disease with ≥50% stenosis, I63.031	I63.031	DX	Cerebral infarction due to thrombosis of right carotid artery	ICD-10-CM
5.2.2	Carotid arterial disease with ≥50% stenosis, I63.032	I63.032	DX	Cerebral infarction due to thrombosis of left carotid artery	ICD-10-CM
5.2.2	Carotid arterial disease with ≥50% stenosis, I63.033	I63.033	DX	Cerebral infarction due to thrombosis of bilateral carotid arteries	ICD-10-CM
5.2.2	Carotid arterial disease with ≥50% stenosis, I63.039	I63.039	DX	Cerebral infarction due to thrombosis of unspecified carotid artery	ICD-10-CM
5.2.2	Carotid arterial disease with ≥50% stenosis, I63.13	I63.13	DX	Cerebral infarction due to embolism of carotid artery	ICD-10-CM
5.2.2	Carotid arterial disease with ≥50% stenosis, I63.131	I63.131	DX	Cerebral infarction due to embolism of right carotid artery	ICD-10-CM
5.2.2	Carotid arterial disease with ≥50% stenosis, I63.132	I63.132	DX	Cerebral infarction due to embolism of left carotid artery	ICD-10-CM
5.2.2	Carotid arterial disease with ≥50% stenosis, I63.133	I63.133	DX	Cerebral infarction due to embolism of bilateral carotid arteries	ICD-10-CM
5.2.2	Carotid arterial disease with ≥50% stenosis, I63.139	I63.139	DX	Cerebral infarction due to embolism of unspecified carotid artery	ICD-10-CM
5.2.2	Carotid arterial disease with ≥50% stenosis, I63.19	I63.19	DX	Cerebral infarction due to embolism of other precerebral artery	ICD-10-CM
5.2.2	Carotid arterial disease with ≥50% stenosis, I65.2	I65.2	DX	OCCLUSION AND STENOSIS OF CAROTID ARTERY	ICD-10-CM
5.2.2	Carotid arterial disease with ≥50% stenosis, I65.21	I65.21	DX	OCCLUSION AND STENOSIS OF RIGHT CAROTID ARTERY	ICD-10-CM

5.2.2	Carotid arterial disease with ≥50% stenosis, I65.22	DX	OCCLUSION AND STENOSIS OF LEFT CAROTID ARTERY	ICD-10-CM
5.2.2	Carotid arterial disease with ≥50% stenosis, I65.23	DX	OCCLUSION AND STENOSIS OF BILATERAL CAROTID ARTERIES	ICD-10-CM
5.2.2	Carotid arterial disease with ≥50% stenosis, I65.29	DX	OCCLUSION AND STENOSIS OF UNSPECIFIED CAROTID ARTERY	ICD-10-CM
5.2.3	History of carotid stenting or surgical revascularization 031H09G	PX	BYPASS RIGHT COMMON CAROTID ARTERY TO INTRACRANIAL ARTERY WITH AUTOLOGOUS VENOUS TISSUE, OPEN APPROACH	ICD-10-PCS
5.2.3	History of carotid stenting or surgical revascularization 031H0AG	PX	BYPASS RIGHT COMMON CAROTID ARTERY TO INTRACRANIAL ARTERY WITH AUTOLOGOUS ARTERIAL TISSUE, OPEN APPROACH	ICD-10-PCS
5.2.3	History of carotid stenting or surgical revascularization 031H0JG	PX	BYPASS RIGHT COMMON CAROTID ARTERY TO INTRACRANIAL ARTERY WITH SYNTHETIC SUBSTITUTE, OPEN APPROACH	ICD-10-PCS
5.2.3	History of carotid stenting or surgical revascularization 031H0KG	PX	BYPASS RIGHT COMMON CAROTID ARTERY TO INTRACRANIAL ARTERY WITH NONAUTOLOGOUS TISSUE SUBSTITUTE, OPEN APPROACH	ICD-10-PCS
5.2.3	History of carotid stenting or surgical revascularization 031H0ZG	PX	BYPASS RIGHT COMMON CAROTID ARTERY TO INTRACRANIAL ARTERY, OPEN APPROACH	ICD-10-PCS
5.2.3	History of carotid stenting or surgical revascularization 031J09G	PX	BYPASS LEFT COMMON CAROTID ARTERY TO INTRACRANIAL ARTERY WITH AUTOLOGOUS VENOUS TISSUE, OPEN APPROACH	ICD-10-PCS
5.2.3	History of carotid stenting or surgical revascularization 031J0AG	PX	BYPASS LEFT COMMON CAROTID ARTERY TO INTRACRANIAL ARTERY WITH AUTOLOGOUS ARTERIAL TISSUE, OPEN APPROACH	ICD-10-PCS
5.2.3	History of carotid stenting or surgical revascularization 031J0JG	PX	BYPASS LEFT COMMON CAROTID ARTERY TO INTRACRANIAL ARTERY WITH SYNTHETIC SUBSTITUTE, OPEN APPROACH	ICD-10-PCS
5.2.3	History of carotid stenting or surgical revascularization 031J0KG	PX	BYPASS LEFT COMMON CAROTID ARTERY TO INTRACRANIAL ARTERY WITH NONAUTOLOGOUS TISSUE SUBSTITUTE, OPEN APPROACH	ICD-10-PCS
5.2.3	History of carotid stenting or surgical revascularization 031J0ZG	PX	BYPASS LEFT COMMON CAROTID ARTERY TO INTRACRANIAL ARTERY, OPEN APPROACH	ICD-10-PCS
5.2.3	History of carotid stenting or surgical revascularization 037G04Z	PX	DILATION OF INTRACRANIAL ARTERY WITH DRUG-ELUTING INTRALUMINAL DEVICE, OPEN APPROACH	ICD-10-PCS
5.2.3	History of carotid stenting or surgical revascularization 037G05Z	PX	DILATION OF INTRACRANIAL ARTERY WITH TWO DRUG-ELUTING INTRALUMINAL DEVICES, OPEN APPROACH	ICD-10-PCS
5.2.3	History of carotid stenting or surgical revascularization 037G06Z	PX	DILATION OF INTRACRANIAL ARTERY WITH THREE DRUG-ELUTING INTRALUMINAL DEVICES, OPEN APPROACH	ICD-10-PCS
5.2.3	History of carotid stenting or surgical revascularization 037G07Z	PX	DILATION OF INTRACRANIAL ARTERY WITH FOUR OR MORE DRUG-ELUTING INTRALUMINAL DEVICES, OPEN APPROACH	ICD-10-PCS
5.2.3	History of carotid stenting or surgical revascularization 037G0DZ	PX	DILATION OF INTRACRANIAL ARTERY WITH INTRALUMINAL DEVICE, OPEN APPROACH	ICD-10-PCS
5.2.3	History of carotid stenting or surgical revascularization 037G0EZ	PX	DILATION OF INTRACRANIAL ARTERY WITH TWO INTRALUMINAL DEVICES, OPEN APPROACH	ICD-10-PCS
5.2.3	History of carotid stenting or surgical revascularization 037G0FZ	PX	DILATION OF INTRACRANIAL ARTERY WITH THREE INTRALUMINAL DEVICES, OPEN APPROACH	ICD-10-PCS
5.2.3	History of carotid stenting or surgical revascularization 037G0GZ	PX	DILATION OF INTRACRANIAL ARTERY WITH FOUR OR MORE INTRALUMINAL DEVICES, OPEN APPROACH	ICD-10-PCS
5.2.3	History of carotid stenting or surgical revascularization 037G0ZZ	PX	DILATION OF INTRACRANIAL ARTERY, OPEN APPROACH	ICD-10-PCS
5.2.3	History of carotid stenting or surgical revascularization 037G346	PX	DILATION OF INTRACRANIAL ARTERY, BIFURCATION, WITH DRUG-ELUTING INTRALUMINAL DEVICE, PERCUTANEOUS APPROACH	ICD-10-PCS
5.2.3	History of carotid stenting or surgical revascularization 037G34Z	PX	DILATION OF INTRACRANIAL ARTERY WITH DRUG-ELUTING INTRALUMINAL DEVICE, PERCUTANEOUS APPROACH	ICD-10-PCS
5.2.3	History of carotid stenting or surgical revascularization 037G356	PX	DILATION OF INTRACRANIAL ARTERY, BIFURCATION, WITH TWO DRUG-ELUTING INTRALUMINAL DEVICES, PERCUTANEOUS APPROACH	ICD-10-PCS
5.2.3	History of carotid stenting or surgical revascularization 037G35Z	PX	DILATION OF INTRACRANIAL ARTERY WITH TWO DRUG-ELUTING INTRALUMINAL DEVICES, PERCUTANEOUS APPROACH	ICD-10-PCS
5.2.3	History of carotid stenting or surgical revascularization 037G366	PX	DILATION OF INTRACRANIAL ARTERY, BIFURCATION, WITH THREE DRUG-ELUTING INTRALUMINAL DEVICES, PERCUTANEOUS APPROACH	ICD-10-PCS
5.2.3	History of carotid stenting or surgical revascularization 037G36Z	PX	DILATION OF INTRACRANIAL ARTERY WITH THREE DRUG-ELUTING INTRALUMINAL DEVICES, PERCUTANEOUS APPROACH	ICD-10-PCS
5.2.3	History of carotid stenting or surgical revascularization 037G376	PX	DILATION OF INTRACRANIAL ARTERY, BIFURCATION, WITH FOUR OR MORE DRUG-ELUTING INTRALUMINAL DEVICES, PERCUTANEOUS APPROACH	ICD-10-PCS
5.2.3	History of carotid stenting or surgical revascularization 037G37Z	PX	DILATION OF INTRACRANIAL ARTERY WITH FOUR OR MORE DRUG-ELUTING INTRALUMINAL DEVICES, PERCUTANEOUS APPROACH	ICD-10-PCS
5.2.3	History of carotid stenting or surgical revascularization 037G3D6	PX	DILATION OF INTRACRANIAL ARTERY, BIFURCATION, WITH INTRALUMINAL DEVICE, PERCUTANEOUS APPROACH	ICD-10-PCS
5.2.3	History of carotid stenting or surgical revascularization 037G3DZ	PX	DILATION OF INTRACRANIAL ARTERY WITH INTRALUMINAL DEVICE, PERCUTANEOUS APPROACH	ICD-10-PCS
5.2.3	History of carotid stenting or surgical revascularization 037G3E6	PX	DILATION OF INTRACRANIAL ARTERY, BIFURCATION, WITH TWO INTRALUMINAL DEVICES, PERCUTANEOUS APPROACH	ICD-10-PCS
5.2.3	History of carotid stenting or surgical revascularization 037G3EZ	PX	DILATION OF INTRACRANIAL ARTERY WITH TWO INTRALUMINAL DEVICES, PERCUTANEOUS APPROACH	ICD-10-PCS

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52.3	History of carotid stenting or surgical revasc 03CK4Z6	PX	EXTIRPATION OF MATTER FROM RIGHT INTERNAL CAROTID ARTERY, BIFURCATION, PERCUTANEOUS ENDOSCOPIC APPROACH	ICD-10-PCS
52.3	History of carotid stenting or surgical revasc 03CK4ZZ	PX	EXTIRPATION OF MATTER FROM RIGHT INTERNAL CAROTID ARTERY, PERCUTANEOUS ENDOSCOPIC APPROACH	ICD-10-PCS
52.3	History of carotid stenting or surgical revasc 03CL0Z6	PX	EXTIRPATION OF MATTER FROM LEFT INTERNAL CAROTID ARTERY, BIFURCATION, OPEN APPROACH	ICD-10-PCS
52.3	History of carotid stenting or surgical revasc 03CL0ZZ	PX	EXTIRPATION OF MATTER FROM LEFT INTERNAL CAROTID ARTERY, OPEN APPROACH	ICD-10-PCS
52.3	History of carotid stenting or surgical revasc 03CL3Z6	PX	EXTIRPATION OF MATTER FROM LEFT INTERNAL CAROTID ARTERY, BIFURCATION, PERCUTANEOUS APPROACH	ICD-10-PCS
52.3	History of carotid stenting or surgical revasc 03CL3Z7	PX	EXTIRPATION OF MATTER FROM LEFT INTERNAL CAROTID ARTERY USING STENT RETRIEVER, PERCUTANEOUS APPROACH	ICD-10-PCS
52.3	History of carotid stenting or surgical revasc 03CL3ZZ	PX	EXTIRPATION OF MATTER FROM LEFT INTERNAL CAROTID ARTERY, PERCUTANEOUS APPROACH	ICD-10-PCS
52.3	History of carotid stenting or surgical revasc 03CL4Z6	PX	EXTIRPATION OF MATTER FROM LEFT INTERNAL CAROTID ARTERY, BIFURCATION, PERCUTANEOUS ENDOSCOPIC APPROACH	ICD-10-PCS
52.3	History of carotid stenting or surgical revasc 03CL4ZZ	PX	EXTIRPATION OF MATTER FROM LEFT INTERNAL CAROTID ARTERY, PERCUTANEOUS ENDOSCOPIC APPROACH	ICD-10-PCS
52.3	History of carotid stenting or surgical revasc T82.311A	DX	BREAKDOWN (MECHANICAL) OF CAROTID ARTERIAL GRAFT (BYPASS), INITIAL ENCOUNTER	ICD-10-PCS
52.3	History of carotid stenting or surgical revasc T82.311D	DX	BREAKDOWN (MECHANICAL) OF CAROTID ARTERIAL GRAFT (BYPASS), SUBSEQUENT ENCOUNTER	ICD-10-PCS
52.3	History of carotid stenting or surgical revasc T82.311S	DX	BREAKDOWN (MECHANICAL) OF CAROTID ARTERIAL GRAFT (BYPASS), SEQUELA	ICD-10-PCS
52.3	History of carotid stenting or surgical revasc T82.321A	DX	DISPLACEMENT OF CAROTID ARTERIAL GRAFT (BYPASS), INITIAL ENCOUNTER	ICD-10-PCS
52.3	History of carotid stenting or surgical revasc T82.321D	DX	DISPLACEMENT OF CAROTID ARTERIAL GRAFT (BYPASS), SUBSEQUENT ENCOUNTER	ICD-10-PCS
52.3	History of carotid stenting or surgical revasc T82.321S	DX	DISPLACEMENT OF CAROTID ARTERIAL GRAFT (BYPASS), SEQUELA	ICD-10-PCS
52.3	History of carotid stenting or surgical revasc T82.331A	DX	LEAKAGE OF CAROTID ARTERIAL GRAFT (BYPASS), INITIAL ENCOUNTER	ICD-10-PCS
52.3	History of carotid stenting or surgical revasc T82.331D	DX	LEAKAGE OF CAROTID ARTERIAL GRAFT (BYPASS), SUBSEQUENT ENCOUNTER	ICD-10-PCS
52.3	History of carotid stenting or surgical revasc T82.331S	DX	LEAKAGE OF CAROTID ARTERIAL GRAFT (BYPASS), SEQUELA	ICD-10-PCS
52.3	History of carotid stenting or surgical revasc T82.391A	DX	OTHER MECHANICAL COMPLICATION OF CAROTID ARTERIAL GRAFT (BYPASS), INITIAL ENCOUNTER	ICD-10-PCS
52.3	History of carotid stenting or surgical revasc T82.391D	DX	OTHER MECHANICAL COMPLICATION OF CAROTID ARTERIAL GRAFT (BYPASS), SUBSEQUENT ENCOUNTER	ICD-10-PCS
52.3	History of carotid stenting or surgical revasc T82.391S	DX	OTHER MECHANICAL COMPLICATION OF CAROTID ARTERIAL GRAFT (BYPASS), SEQUELA	ICD-10-PCS
5.3	Peripheral arterial disease, either one of:			
5.3.1	Intermittent claudication and ankle-brachial i I70.211	DX	ATHEROSCLEROSIS OF NATIVE ARTERIES OF EXTREMITIES WITH INTERMITTENT CLAUDICATION, RIGHT LEG	ICD-10-CM
5.3.1	Intermittent claudication and ankle-brachial i I70.212	DX	ATHEROSCLEROSIS OF NATIVE ARTERIES OF EXTREMITIES WITH INTERMITTENT CLAUDICATION, LEFT LEG	ICD-10-CM
5.3.1	Intermittent claudication and ankle-brachial i I70.213	DX	ATHEROSCLEROSIS OF NATIVE ARTERIES OF EXTREMITIES WITH INTERMITTENT CLAUDICATION, BILATERAL LEGS	ICD-10-CM
5.3.1	Intermittent claudication and ankle-brachial i I70.218	DX	ATHEROSCLEROSIS OF NATIVE ARTERIES OF EXTREMITIES WITH INTERMITTENT CLAUDICATION, OTHER EXTREMITY	ICD-10-CM
5.3.1	Intermittent claudication and ankle-brachial i I70.219	DX	ATHEROSCLEROSIS OF NATIVE ARTERIES OF EXTREMITIES WITH INTERMITTENT CLAUDICATION, UNSPECIFIED EXTREMITY	ICD-10-CM
5.3.1	Intermittent claudication and ankle-brachial i I70.221	DX	ATHEROSCLEROSIS OF NATIVE ARTERIES OF EXTREMITIES WITH REST PAIN, RIGHT LEG	ICD-10-CM
5.3.1	Intermittent claudication and ankle-brachial i I70.222	DX	ATHEROSCLEROSIS OF NATIVE ARTERIES OF EXTREMITIES WITH REST PAIN, LEFT LEG	ICD-10-CM
5.3.1	Intermittent claudication and ankle-brachial i I70.223	DX	ATHEROSCLEROSIS OF NATIVE ARTERIES OF EXTREMITIES WITH REST PAIN, BILATERAL LEGS	ICD-10-CM
5.3.1	Intermittent claudication and ankle-brachial i I70.228	DX	ATHEROSCLEROSIS OF NATIVE ARTERIES OF EXTREMITIES WITH REST PAIN, OTHER EXTREMITY	ICD-10-CM
5.3.1	Intermittent claudication and ankle-brachial i I70.229	DX	ATHEROSCLEROSIS OF NATIVE ARTERIES OF EXTREMITIES WITH REST PAIN, UNSPECIFIED EXTREMITY	ICD-10-CM
5.3.1	Intermittent claudication and ankle-brachial i I70.231	DX	ATHEROSCLEROSIS OF NATIVE ARTERIES OF RIGHT LEG WITH ULCERATION OF THIGH	ICD-10-CM
5.3.1	Intermittent claudication and ankle-brachial i I70.232	DX	ATHEROSCLEROSIS OF NATIVE ARTERIES OF RIGHT LEG WITH ULCERATION OF CALF	ICD-10-CM
5.3.1	Intermittent claudication and ankle-brachial i I70.233	DX	ATHEROSCLEROSIS OF NATIVE ARTERIES OF RIGHT LEG WITH ULCERATION OF ANKLE	ICD-10-CM
5.3.1	Intermittent claudication and ankle-brachial i I70.234	DX	ATHEROSCLEROSIS OF NATIVE ARTERIES OF RIGHT LEG WITH ULCERATION OF HEEL AND MIDFOOT	ICD-10-CM
5.3.1	Intermittent claudication and ankle-brachial i I70.235	DX	ATHEROSCLEROSIS OF NATIVE ARTERIES OF RIGHT LEG WITH ULCERATION OF OTHER PART OF FOOT	ICD-10-CM

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			OTHER ATHEROSCLEROSIS OF AUTOLOGOUS VEIN BYPASS GRAFT(S) OF THE	
5.3.1	Intermittent claudication and ankle-brachial index I70.499	DX	EXTREMITIES, UNSPECIFIED EXTREMITY	ICD-10-CM
5.3.1	Intermittent claudication and ankle-brachial index I70.501	DX	UNSPECIFIED ATHEROSCLEROSIS OF NONAUTOLOGOUS BIOLOGICAL BYPASS GRAFT(S)	ICD-10-CM
5.3.1	Intermittent claudication and ankle-brachial index I70.502	DX	OF THE EXTREMITIES, RIGHT LEG	ICD-10-CM
5.3.1	Intermittent claudication and ankle-brachial index I70.503	DX	UNSPECIFIED ATHEROSCLEROSIS OF NONAUTOLOGOUS BIOLOGICAL BYPASS GRAFT(S)	ICD-10-CM
5.3.1	Intermittent claudication and ankle-brachial index I70.508	DX	OF THE EXTREMITIES, LEFT LEG	ICD-10-CM
5.3.1	Intermittent claudication and ankle-brachial index I70.509	DX	UNSPECIFIED ATHEROSCLEROSIS OF NONAUTOLOGOUS BIOLOGICAL BYPASS GRAFT(S)	ICD-10-CM
5.3.1	Intermittent claudication and ankle-brachial index I70.511	DX	OF THE EXTREMITIES, UNspecified EXtremity	ICD-10-CM
5.3.1	Intermittent claudication and ankle-brachial index I70.512	DX	ATHEROSCLEROSIS OF NONAUTOLOGOUS BIOLOGICAL BYPASS GRAFT(S) OF THE	ICD-10-CM
5.3.1	Intermittent claudication and ankle-brachial index I70.513	DX	EXTREMITIES WITH INTERMITTENT CLAUDICATION, RIGHT LEG	ICD-10-CM
5.3.1	Intermittent claudication and ankle-brachial index I70.518	DX	ATHEROSCLEROSIS OF NONAUTOLOGOUS BIOLOGICAL BYPASS GRAFT(S) OF THE	ICD-10-CM
5.3.1	Intermittent claudication and ankle-brachial index I70.519	DX	EXTREMITIES WITH INTERMITTENT CLAUDICATION, BILATERAL LEGS	ICD-10-CM
5.3.1	Intermittent claudication and ankle-brachial index I70.521	DX	ATHEROSCLEROSIS OF NONAUTOLOGOUS BIOLOGICAL BYPASS GRAFT(S) OF THE	ICD-10-CM
5.3.1	Intermittent claudication and ankle-brachial index I70.522	DX	EXTREMITIES WITH INTERMITTENT CLAUDICATION, OTHER EXtRemITy	ICD-10-CM
5.3.1	Intermittent claudication and ankle-brachial index I70.528	DX	ATHEROSCLEROSIS OF NONAUTOLOGOUS BIOLOGICAL BYPASS GRAFT(S) OF THE	ICD-10-CM
5.3.1	Intermittent claudication and ankle-brachial index I70.529	DX	EXTREMITIES WITH INTERMITTENT CLAUDICATION, UNSPEcified ExTREmITy	ICD-10-CM
5.3.1	Intermittent claudication and ankle-brachial index I70.531	DX	ATHEROSCLEROSIS OF NONAUTOLOGOUS BIOLOGICAL BYPASS GRAFT(S) OF THE	ICD-10-CM
5.3.1	Intermittent claudication and ankle-brachial index I70.532	DX	EXTREMITIES WITH REST PAIN, RIGHT LEG	ICD-10-CM
5.3.1	Intermittent claudication and ankle-brachial index I70.533	DX	ATHEROSCLEROSIS OF NONAUTOLOGOUS BIOLOGICAL BYPASS GRAFT(S) OF THE	ICD-10-CM
5.3.1	Intermittent claudication and ankle-brachial index I70.534	DX	EXTREMITIES WITH REST PAIN, LEFT LEG	ICD-10-CM
5.3.1	Intermittent claudication and ankle-brachial index I70.535	DX	ATHEROSCLEROSIS OF NONAUTOLOGOUS BIOLOGICAL BYPASS GRAFT(S) OF THE	ICD-10-CM
5.3.1	Intermittent claudication and ankle-brachial index I70.538	DX	EXTREMITIES WITH REST PAIN, BILateral LEgS	ICD-10-CM
5.3.1	Intermittent claudication and ankle-brachial index I70.539	DX	ATHEROSCLEROSIS OF NONAUTOLOGOUS BIOLOGICAL BYPASS GRAFT(S) OF THE	ICD-10-CM
5.3.1	Intermittent claudication and ankle-brachial index I70.541	DX	EXtREMIties With RESt PAIn, Other ExtREmitY	ICD-10-CM
5.3.1	Intermittent claudication and ankle-brachial index I70.542	DX	ATHEROSCLEROSIS OF NONAUTOLOGOUS BIOLOGICAL BYPASS GRAFT(S) OF THE	ICD-10-CM
5.3.1	Intermittent claudication and ankle-brachial index I70.543	DX	EXTREMITIES WITH REST PAIN, UnspecIfied ExtreMitY	ICD-10-CM
5.3.1	Intermittent claudication and ankle-brachial index I70.544	DX	ATHEROSCLEROSIS OF NONAUTOLOGOUS BIOLOGICAL BYPASS GRAFT(S) OF THE	ICD-10-CM
5.3.1	Intermittent claudication and ankle-brachial index I70.545	DX	RIGHT LEG WItH ULCERAtION Of THIGH	ICD-10-CM
5.3.1	Intermittent claudication and ankle-brachial index I70.548	DX	ATHEROSCLEROSIS OF NONAUTOLOGOUS BIOLOGICAL BYPASS GRAFT(S) OF THE	ICD-10-CM
5.3.1	Intermittent claudication and ankle-brachial index I70.549	DX	RIGHT L EG WI t H UL CER AtI ON O F CA LF	ICD-10-CM
5.3.1	Intermittent claudication and ankle-brachial index I70.55	DX	ATHEROSCLEROSIS OF NONAUTOLOGOUS BIOLOGICAL BYPASS GRAFT(S) OF THE	ICD-10-CM
5.3.1	Intermittent claudication and ankle-brachial index I70.561	DX	LEG WITH UL CERATI ON OF ANKLE	ICD-10-CM
			ATHEROSCLEROSIS OF NONAUTOLOGOUS BIOLOGICAL BYPASS GRAFT(S) OF THE	
			LEFT LEG WITH UL CERATION OF HEEL AND MIDFOOT	
			ATHEROSCLEROSIS OF NONAUTOLOGOUS BIOLOGICAL BYPASS GRAFT(S) OF THE	
			RIGHT LEG WITH UL CERATION OF OTHER PART OF FOOT	
			ATHEROSCLEROSIS OF NONAUTOLOGOUS BIOLOGICAL BYPASS GRAFT(S) OF THE	
			RIGHT LEG WITH UL CERATION OF OTHER PART OF LOWER LEG	
			ATHEROSCLEROSIS OF NONAUTOLOGOUS BIOLOGICAL BYPASS GRAFT(S) OF THE	
			RIGHT LEG WITH UL CERATION OF UNSPECIFIED SITE	
			ATHEROSCLEROSIS OF NONAUTOLOGOUS BIOLOGICAL BYPASS GRAFT(S) OF THE	
			LEFT LEG WITH UL CERATION OF THIGH	
			ATHEROSCLEROSIS OF NONAUTOLOGOUS BIOLOGICAL BYPASS GRAFT(S) OF THE	
			LEFT LEG WITH UL CERATION OF CALF	
			ATHEROSCLEROSIS OF NONAUTOLOGOUS BIOLOGICAL BYPASS GRAFT(S) OF THE	
			LEFT LEG WITH UL CERATION OF ANKLE	
			ATHEROSCLEROSIS OF NONAUTOLOGOUS BIOLOGICAL BYPASS GRAFT(S) OF THE	
			LEFT LEG WITH UL CERATION OF HEEL AND MIDFOOT	
			ATHEROSCLEROSIS OF NONAUTOLOGOUS BIOLOGICAL BYPASS GRAFT(S) OF THE	
			LEFT LEG WITH UL CERATION OF OTHER PART OF FOOT	
			ATHEROSCLEROSIS OF NONAUTOLOGOUS BIOLOGICAL BYPASS GRAFT(S) OF THE	
			LEFT LEG WITH UL CERATION OF OTHER PART OF LOWER LEG	
			ATHEROSCLEROSIS OF NONAUTOLOGOUS BIOLOGICAL BYPASS GRAFT(S) OF THE	
			LEFT LEG WITH UL CERATION OF UNSPECIFIED SITE	
			ATHEROSCLEROSIS OF NONAUTOLOGOUS BIOLOGICAL BYPASS GRAFT(S) OF OTHER	
			EXTREMITY WITH UL CERATION	
			ATHEROSCLEROSIS OF NONAUTOLOGOUS BIOLOGICAL BYPASS GRAFT(S) OF THE	
			EXTREMITIES WITH GANGRENE, RIGHT LEG	

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5.3.1	Intermittent claudication and ankle-brachial i I70.731	DX	ATHEROSCLEROSIS OF OTHER TYPE OF BYPASS GRAFT(S) OF THE RIGHT LEG WITH ULCERATION OF THIGH	ICD-10-CM
5.3.1	Intermittent claudication and ankle-brachial i I70.732	DX	ATHEROSCLEROSIS OF OTHER TYPE OF BYPASS GRAFT(S) OF THE RIGHT LEG WITH ULCERATION OF CALF	ICD-10-CM
5.3.1	Intermittent claudication and ankle-brachial i I70.733	DX	ATHEROSCLEROSIS OF OTHER TYPE OF BYPASS GRAFT(S) OF THE RIGHT LEG WITH ULCERATION OF ANKLE	ICD-10-CM
5.3.1	Intermittent claudication and ankle-brachial i I70.734	DX	ATHEROSCLEROSIS OF OTHER TYPE OF BYPASS GRAFT(S) OF THE RIGHT LEG WITH ULCERATION OF HEEL AND MIDFOOT	ICD-10-CM
5.3.1	Intermittent claudication and ankle-brachial i I70.735	DX	ATHEROSCLEROSIS OF OTHER TYPE OF BYPASS GRAFT(S) OF THE RIGHT LEG WITH ULCERATION OF OTHER PART OF FOOT	ICD-10-CM
5.3.1	Intermittent claudication and ankle-brachial i I70.738	DX	ATHEROSCLEROSIS OF OTHER TYPE OF BYPASS GRAFT(S) OF THE RIGHT LEG WITH ULCERATION OF OTHER PART OF LOWER LEG	ICD-10-CM
5.3.1	Intermittent claudication and ankle-brachial i I70.739	DX	ATHEROSCLEROSIS OF OTHER TYPE OF BYPASS GRAFT(S) OF THE RIGHT LEG WITH ULCERATION OF UNSPECIFIED SITE	ICD-10-CM
5.3.1	Intermittent claudication and ankle-brachial i I70.741	DX	ATHEROSCLEROSIS OF OTHER TYPE OF BYPASS GRAFT(S) OF THE LEFT LEG WITH ULCERATION OF THIGH	ICD-10-CM
5.3.1	Intermittent claudication and ankle-brachial i I70.742	DX	ATHEROSCLEROSIS OF OTHER TYPE OF BYPASS GRAFT(S) OF THE LEFT LEG WITH ULCERATION OF CALF	ICD-10-CM
5.3.1	Intermittent claudication and ankle-brachial i I70.743	DX	ATHEROSCLEROSIS OF OTHER TYPE OF BYPASS GRAFT(S) OF THE LEFT LEG WITH ULCERATION OF ANKLE	ICD-10-CM
5.3.1	Intermittent claudication and ankle-brachial i I70.744	DX	ATHEROSCLEROSIS OF OTHER TYPE OF BYPASS GRAFT(S) OF THE LEFT LEG WITH ULCERATION OF HEEL AND MIDFOOT	ICD-10-CM
5.3.1	Intermittent claudication and ankle-brachial i I70.745	DX	ATHEROSCLEROSIS OF OTHER TYPE OF BYPASS GRAFT(S) OF THE LEFT LEG WITH ULCERATION OF OTHER PART OF FOOT	ICD-10-CM
5.3.1	Intermittent claudication and ankle-brachial i I70.748	DX	ATHEROSCLEROSIS OF OTHER TYPE OF BYPASS GRAFT(S) OF THE LEFT LEG WITH ULCERATION OF OTHER PART OF LOWER LEG	ICD-10-CM
5.3.1	Intermittent claudication and ankle-brachial i I70.749	DX	ATHEROSCLEROSIS OF OTHER TYPE OF BYPASS GRAFT(S) OF THE LEFT LEG WITH ULCERATION OF UNSPECIFIED SITE	ICD-10-CM
5.3.1	Intermittent claudication and ankle-brachial i I70.75	DX	ATHEROSCLEROSIS OF OTHER TYPE OF BYPASS GRAFT(S) OF OTHER EXTREMITY WITH ULCERATION	ICD-10-CM
5.3.1	Intermittent claudication and ankle-brachial i I70.761	DX	ATHEROSCLEROSIS OF OTHER TYPE OF BYPASS GRAFT(S) OF THE EXTREMITIES WITH GANGRENE, RIGHT LEG	ICD-10-CM
5.3.1	Intermittent claudication and ankle-brachial i I70.762	DX	ATHEROSCLEROSIS OF OTHER TYPE OF BYPASS GRAFT(S) OF THE EXTREMITIES WITH GANGRENE, LEFT LEG	ICD-10-CM
5.3.1	Intermittent claudication and ankle-brachial i I70.763	DX	ATHEROSCLEROSIS OF OTHER TYPE OF BYPASS GRAFT(S) OF THE EXTREMITIES WITH GANGRENE, BILATERAL LEGS	ICD-10-CM
5.3.1	Intermittent claudication and ankle-brachial i I70.768	DX	ATHEROSCLEROSIS OF OTHER TYPE OF BYPASS GRAFT(S) OF THE EXTREMITIES WITH GANGRENE, OTHER EXTREMITY	ICD-10-CM
5.3.1	Intermittent claudication and ankle-brachial i I70.769	DX	ATHEROSCLEROSIS OF OTHER TYPE OF BYPASS GRAFT(S) OF THE EXTREMITIES WITH GANGRENE, UNSPECIFIED EXTREMITY	ICD-10-CM
5.3.1	Intermittent claudication and ankle-brachial i I70.791	DX	OTHER ATHEROSCLEROSIS OF OTHER TYPE OF BYPASS GRAFT(S) OF THE EXTREMITIES, RIGHT LEG	ICD-10-CM
5.3.1	Intermittent claudication and ankle-brachial i I70.792	DX	OTHER ATHEROSCLEROSIS OF OTHER TYPE OF BYPASS GRAFT(S) OF THE EXTREMITIES, LEFT LEG	ICD-10-CM
5.3.1	Intermittent claudication and ankle-brachial i I70.793	DX	OTHER ATHEROSCLEROSIS OF OTHER TYPE OF BYPASS GRAFT(S) OF THE EXTREMITIES, BILATERAL LEGS	ICD-10-CM
5.3.1	Intermittent claudication and ankle-brachial i I70.798	DX	OTHER ATHEROSCLEROSIS OF OTHER TYPE OF BYPASS GRAFT(S) OF THE EXTREMITIES, OTHER EXTREMITY	ICD-10-CM
5.3.1	Intermittent claudication and ankle-brachial i I70.799	DX	OTHER ATHEROSCLEROSIS OF OTHER TYPE OF BYPASS GRAFT(S) OF THE EXTREMITIES, UNSPECIFIED EXTREMITY	ICD-10-CM
5.3.1	Intermittent claudication and ankle-brachial i I70.92	DX	CHRONIC TOTAL OCCLUSION OF ARTERY OF THE EXTREMITIES	ICD-10-CM
5.3.1	Intermittent claudication and ankle-brachial i I73.89	DX	OTHER SPECIFIED PERIPHERAL VASCULAR DISEASES	ICD-10-CM
5.3.1	Intermittent claudication and ankle-brachial i I73.9	DX	PERIPHERAL VASCULAR DISEASE, UNSPECIFIED	ICD-10-CM
5.3.2	Prior nontraumatic amputation or peripheral 0410096	PX	BYPASS ABDOMINAL AORTA TO RIGHT COMMON ILIAC ARTERY WITH AUTOLOGOUS VENOUS TISSUE, OPEN APPROACH	ICD-10-PCS
5.3.2	Prior nontraumatic amputation or peripheral 0410097	PX	BYPASS ABDOMINAL AORTA TO LEFT COMMON ILIAC ARTERY WITH AUTOLOGOUS VENOUS TISSUE, OPEN APPROACH	ICD-10-PCS
5.3.2	Prior nontraumatic amputation or peripheral 0410098	PX	BYPASS ABDOMINAL AORTA TO BILATERAL COMMON ILIAC ARTERIES WITH AUTOLOGOUS VENOUS TISSUE, OPEN APPROACH	ICD-10-PCS
5.3.2	Prior nontraumatic amputation or peripheral 0410099	PX	BYPASS ABDOMINAL AORTA TO RIGHT INTERNAL ILIAC ARTERY WITH AUTOLOGOUS VENOUS TISSUE, OPEN APPROACH	ICD-10-PCS
5.3.2	Prior nontraumatic amputation or peripheral 041009B	PX	BYPASS ABDOMINAL AORTA TO LEFT INTERNAL ILIAC ARTERY WITH AUTOLOGOUS VENOUS TISSUE, OPEN APPROACH	ICD-10-PCS

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	Prior nontraumatic amputation or peripheral	DILATION OF RIGHT PERONEAL ARTERY, BIFURCATION, WITH THREE DRUG-ELUTING INTRALUMINAL DEVICES, OPEN APPROACH DILATION OF RIGHT PERONEAL ARTERY WITH THREE DRUG-ELUTING INTRALUMINAL DEVICES, OPEN APPROACH		ICD-10-PCS
5.3.2	Prior nontraumatic amputation or peripheral 047T066	PX		
5.3.2	Prior nontraumatic amputation or peripheral 047T06Z	PX		
5.3.2	Prior nontraumatic amputation or peripheral 047T076	PX		
5.3.2	Prior nontraumatic amputation or peripheral 047T07Z	PX		
5.3.2	Prior nontraumatic amputation or peripheral 047T0D6	PX		
5.3.2	Prior nontraumatic amputation or peripheral 047T0DZ	PX		
5.3.2	Prior nontraumatic amputation or peripheral 047T0E6	PX		
5.3.2	Prior nontraumatic amputation or peripheral 047T0EZ	PX		
5.3.2	Prior nontraumatic amputation or peripheral 047T0F6	PX		
5.3.2	Prior nontraumatic amputation or peripheral 047T0FZ	PX		
5.3.2	Prior nontraumatic amputation or peripheral 047T0G6	PX		
5.3.2	Prior nontraumatic amputation or peripheral 047T0GZ	PX		
5.3.2	Prior nontraumatic amputation or peripheral 047T0Z6	PX		
5.3.2	Prior nontraumatic amputation or peripheral 047T0ZZ	PX		
5.3.2	Prior nontraumatic amputation or peripheral 047T346	PX		
5.3.2	Prior nontraumatic amputation or peripheral 047T34Z	PX		
5.3.2	Prior nontraumatic amputation or peripheral 047T356	PX		
5.3.2	Prior nontraumatic amputation or peripheral 047T35Z	PX		
5.3.2	Prior nontraumatic amputation or peripheral 047T366	PX		
5.3.2	Prior nontraumatic amputation or peripheral 047T36Z	PX		
5.3.2	Prior nontraumatic amputation or peripheral 047T376	PX		
5.3.2	Prior nontraumatic amputation or peripheral 047T37Z	PX		
5.3.2	Prior nontraumatic amputation or peripheral 047T3D6	PX		
5.3.2	Prior nontraumatic amputation or peripheral 047T3DZ	PX		
5.3.2	Prior nontraumatic amputation or peripheral 047T3E6	PX		
5.3.2	Prior nontraumatic amputation or peripheral 047T3EZ	PX		
5.3.2	Prior nontraumatic amputation or peripheral 047T3F6	PX		
5.3.2	Prior nontraumatic amputation or peripheral 047T3FZ	PX		
5.3.2	Prior nontraumatic amputation or peripheral 047T3G6	PX		
5.3.2	Prior nontraumatic amputation or peripheral 047T3GZ	PX		
5.3.2	Prior nontraumatic amputation or peripheral 047T3Z6	PX		
5.3.2	Prior nontraumatic amputation or peripheral 047T3ZZ	PX		
5.3.2	Prior nontraumatic amputation or peripheral 047T446	PX		
5.3.2	Prior nontraumatic amputation or peripheral 047T44Z	PX		

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5.3.2	Prior nontraumatic amputation or peripheral	T82.332A	DX	LEAKAGE OF FEMORAL ARTERIAL GRAFT (BYPASS), INITIAL ENCOUNTER	ICD-10-CM
5.3.2	Prior nontraumatic amputation or peripheral	T82.332D	DX	LEAKAGE OF FEMORAL ARTERIAL GRAFT (BYPASS), SUBSEQUENT ENCOUNTER	ICD-10-CM
5.3.2	Prior nontraumatic amputation or peripheral	T82.332S	DX	LEAKAGE OF FEMORAL ARTERIAL GRAFT (BYPASS), SEQUELA	ICD-10-CM
5.3.2	Prior nontraumatic amputation or peripheral	T82.390A	DX	OTHER MECHANICAL COMPLICATION OF AORTIC (BIFURCATION) GRAFT (REPLACEMENT), INITIAL ENCOUNTER	ICD-10-CM
5.3.2	Prior nontraumatic amputation or peripheral	T82.390D	DX	OTHER MECHANICAL COMPLICATION OF AORTIC (BIFURCATION) GRAFT (REPLACEMENT), SUBSEQUENT ENCOUNTER	ICD-10-CM
5.3.2	Prior nontraumatic amputation or peripheral	T82.390S	DX	OTHER MECHANICAL COMPLICATION OF AORTIC (BIFURCATION) GRAFT (REPLACEMENT), SEQUELA	ICD-10-CM
5.3.2	Prior nontraumatic amputation or peripheral	T82.392A	DX	OTHER MECHANICAL COMPLICATION OF FEMORAL ARTERIAL GRAFT (BYPASS), INITIAL ENCOUNTER	ICD-10-CM
5.3.2	Prior nontraumatic amputation or peripheral	T82.392D	DX	OTHER MECHANICAL COMPLICATION OF FEMORAL ARTERIAL GRAFT (BYPASS), SUBSEQUENT ENCOUNTER	ICD-10-CM
5.3.2	Prior nontraumatic amputation or peripheral	T82.392S	DX	OTHER MECHANICAL COMPLICATION OF FEMORAL ARTERIAL GRAFT (BYPASS), SEQUELA	ICD-10-CM
5.3.2	Prior nontraumatic amputation or peripheral	T82.856A	DX	STENOSIS OF PERIPHERAL VASCULAR STENT, INITIAL ENCOUNTER	ICD-10-CM
5.3.2	Prior nontraumatic amputation or peripheral	T82.856D	DX	STENOSIS OF PERIPHERAL VASCULAR STENT, SUBSEQUENT ENCOUNTER	ICD-10-CM
5.3.2	Prior nontraumatic amputation or peripheral	T82.856S	DX	STENOSIS OF PERIPHERAL VASCULAR STENT, SEQUELA	ICD-10-CM
5.3.2	Prior nontraumatic amputation or peripheral	Z98.62	DX	PERIPHERAL VASCULAR ANGIOPLASTY STATUS	ICD-10-CM
5.3.2	Prior nontraumatic amputation or peripheral	35256	PX	REPAIR BLOOD VESSEL WITH VEIN GRAFT; LOWER EXTREMITY	CPT/HCPCS
5.3.2	Prior nontraumatic amputation or peripheral	35286	PX	REPAIR BLOOD VESSEL WITH GRAFT OTHER THAN VEIN; LOWER EXTREMITY	CPT/HCPCS
5.3.2	Prior nontraumatic amputation or peripheral	35351	PX	THROMBOENDARTERECTOMY, INCLUDING PATCH GRAFT, IF PERFORMED; ILIAC	CPT/HCPCS
5.3.2	Prior nontraumatic amputation or peripheral	35355	PX	THROMBOENDARTERECTOMY, INCLUDING PATCH GRAFT, IF PERFORMED; ILIOFEMORAL	CPT/HCPCS
5.3.2	Prior nontraumatic amputation or peripheral	35361	PX	THROMBOENDARTERECTOMY, INCLUDING PATCH GRAFT, IF PERFORMED; COMBINED AORTOILIAC	CPT/HCPCS
5.3.2	Prior nontraumatic amputation or peripheral	35363	PX	THROMBOENDARTERECTOMY, INCLUDING PATCH GRAFT, IF PERFORMED; COMBINED AORTOILIOFEMORAL	CPT/HCPCS
5.3.2	Prior nontraumatic amputation or peripheral	35371	PX	THROMBOENDARTERECTOMY, INCLUDING PATCH GRAFT, IF PERFORMED; COMMON FEMORAL	CPT/HCPCS
5.3.2	Prior nontraumatic amputation or peripheral	35372	PX	THROMBOENDARTERECTOMY, INCLUDING PATCH GRAFT, IF PERFORMED; DEEP (PROFUNDA) FEMORAL	CPT/HCPCS
5.3.2	Prior nontraumatic amputation or peripheral	35381	PX	THROMBOENDARTERECTOMY, WITH OR WITHOUT PATCH GRAFT; FEMORAL AND/OR POPLITEAL, AND/OR TIBIOPERONEAL	CPT/HCPCS
5.3.2	Prior nontraumatic amputation or peripheral	35454	PX	TRANSLUMINAL BALLOON ANGIOPLASTY, OPEN; ILIAC	CPT/HCPCS
5.3.2	Prior nontraumatic amputation or peripheral	35456	PX	TRANSLUMINAL BALLOON ANGIOPLASTY, OPEN; FEMORAL-POPLITEAL	CPT/HCPCS
5.3.2	Prior nontraumatic amputation or peripheral	35459	PX	TRANSLUMINAL BALLOON ANGIOPLASTY, OPEN; TIBIOPERONEAL TRUNK AND BRANCHES	CPT/HCPCS
5.3.2	Prior nontraumatic amputation or peripheral	35470	PX	TRANSLUMINAL BALLOON ANGIOPLASTY, PERCUTANEOUS; TIBIOPERONEAL TRUNK OR BRANCHES, EACH VESSEL	CPT/HCPCS
5.3.2	Prior nontraumatic amputation or peripheral	35473	PX	TRANSLUMINAL BALLOON ANGIOPLASTY, PERCUTANEOUS; ILIAC	CPT/HCPCS
5.3.2	Prior nontraumatic amputation or peripheral	35474	PX	TRANSLUMINAL BALLOON ANGIOPLASTY, PERCUTANEOUS; FEMORAL-POPLITEAL	CPT/HCPCS
5.3.2	Prior nontraumatic amputation or peripheral	35482	PX	TRANSLUMINAL PERIPHERAL ATHERECTOMY, OPEN; ILIAC	CPT/HCPCS
5.3.2	Prior nontraumatic amputation or peripheral	35483	PX	TRANSLUMINAL PERIPHERAL ATHERECTOMY, OPEN; FEMORAL-POPLITEAL	CPT/HCPCS
5.3.2	Prior nontraumatic amputation or peripheral	35485	PX	TRANSLUMINAL PERIPHERAL ATHERECTOMY, OPEN; TIBIOPERONEAL TRUNK AND BRANCHES	CPT/HCPCS
5.3.2	Prior nontraumatic amputation or peripheral	35492	PX	TRANSLUMINAL PERIPHERAL ATHERECTOMY, PERCUTANEOUS; ILIAC	CPT/HCPCS
5.3.2	Prior nontraumatic amputation or peripheral	35493	PX	TRANSLUMINAL PERIPHERAL ATHERECTOMY, PERCUTANEOUS; FEMORAL-POPLITEAL	CPT/HCPCS
5.3.2	Prior nontraumatic amputation or peripheral	35495	PX	TRANSLUMINAL PERIPHERAL ATHERECTOMY, PERCUTANEOUS; TIBIOPERONEAL TRUNK AND BRANCHES	CPT/HCPCS
5.3.2	Prior nontraumatic amputation or peripheral	35521	PX	BYPASS GRAFT, WITH VEIN; AXILLARY-FEMORAL	CPT/HCPCS
5.3.2	Prior nontraumatic amputation or peripheral	35533	PX	BYPASS GRAFT, WITH VEIN; AXILLARY-FEMORAL-FEMORAL	CPT/HCPCS
5.3.2	Prior nontraumatic amputation or peripheral	35541	PX	BYPASS GRAFT, WITH VEIN; AORTOILIAC OR BI-ILIAC	CPT/HCPCS
5.3.2	Prior nontraumatic amputation or peripheral	35546	PX	BYPASS GRAFT, WITH VEIN; AORTOFEMORAL OR BIFEMORAL	CPT/HCPCS
5.3.2	Prior nontraumatic amputation or peripheral	35548	PX	BYPASS GRAFT, WITH VEIN; AORTOILIOFEMORAL, UNILATERAL	CPT/HCPCS
5.3.2	Prior nontraumatic amputation or peripheral	35549	PX	BYPASS GRAFT, WITH VEIN; AORTOILIOFEMORAL, BILATERAL	CPT/HCPCS
5.3.2	Prior nontraumatic amputation or peripheral	35551	PX	BYPASS GRAFT, WITH VEIN; AORTOFEMORAL-POPLITEAL	CPT/HCPCS
5.3.2	Prior nontraumatic amputation or peripheral	35556	PX	BYPASS GRAFT, WITH VEIN; FEMORAL-POPLITEAL	CPT/HCPCS
5.3.2	Prior nontraumatic amputation or peripheral	35558	PX	BYPASS GRAFT, WITH VEIN; FEMORAL-FEMORAL	CPT/HCPCS
5.3.2	Prior nontraumatic amputation or peripheral	35563	PX	BYPASS GRAFT, WITH VEIN; ILIOILIAC	CPT/HCPCS
5.3.2	Prior nontraumatic amputation or peripheral	35565	PX	BYPASS GRAFT, WITH VEIN; ILIOFEMORAL	CPT/HCPCS
5.3.2	Prior nontraumatic amputation or peripheral	35566	PX	BYPASS GRAFT, WITH VEIN; FEMORAL-ANTERIOR TIBIAL, POSTERIOR TIBIAL, PERONEAL ARTERY OR OTHER DISTAL VESSELS	CPT/HCPCS

5.3.2	Prior nontraumatic amputation or peripheral	35570	PX	BYPASS GRAFT, WITH VEIN; TIBIAL-TIBIAL, PERONEAL-TIBIAL, OR TIBIAL/PERONEAL TRUNK-TIBIAL	CPT/HCPCS
5.3.2	Prior nontraumatic amputation or peripheral	35571	PX	BYPASS GRAFT, WITH VEIN; POPLITEAL-TIBIAL, -PERONEAL ARTERY OR OTHER DISTAL VESSELS	CPT/HCPCS
5.3.2	Prior nontraumatic amputation or peripheral	35582	PX	IN-SITU VEIN BYPASS; AORTOFEMORAL-POPLITEAL (ONLY FEMORAL-POPLITEAL PORTION IN-SITU)	CPT/HCPCS
5.3.2	Prior nontraumatic amputation or peripheral	35583	PX	IN-SITU VEIN BYPASS; FEMORAL-POPLITEAL	CPT/HCPCS
5.3.2	Prior nontraumatic amputation or peripheral	35585	PX	IN-SITU VEIN BYPASS; FEMORAL-ANTERIOR TIBIAL, POSTERIOR TIBIAL, OR PERONEAL ARTERY	CPT/HCPCS
5.3.2	Prior nontraumatic amputation or peripheral	35587	PX	IN-SITU VEIN BYPASS; POPLITEAL-TIBIAL, PERONEAL	CPT/HCPCS
5.3.2	Prior nontraumatic amputation or peripheral	35621	PX	BYPASS GRAFT, WITH OTHER THAN VEIN; AXILLARY-FEMORAL	CPT/HCPCS
5.3.2	Prior nontraumatic amputation or peripheral	35623	PX	BYPASS GRAFT, WITH OTHER THAN VEIN; AXILLARY-POPLITEAL OR -TIBIAL	CPT/HCPCS
5.3.2	Prior nontraumatic amputation or peripheral	35637	PX	BYPASS GRAFT, WITH OTHER THAN VEIN; AORTOILIAC	CPT/HCPCS
5.3.2	Prior nontraumatic amputation or peripheral	35638	PX	BYPASS GRAFT, WITH OTHER THAN VEIN; AORTOBI-ILIAC	CPT/HCPCS
5.3.2	Prior nontraumatic amputation or peripheral	35641	PX	BYPASS GRAFT, WITH OTHER THAN VEIN; AORTOILIAC OR BI-ILIAC	CPT/HCPCS
5.3.2	Prior nontraumatic amputation or peripheral	35646	PX	BYPASS GRAFT, WITH OTHER THAN VEIN; AORTOBIFEMORAL	CPT/HCPCS
5.3.2	Prior nontraumatic amputation or peripheral	35647	PX	BYPASS GRAFT, WITH OTHER THAN VEIN; AORTOFEMORAL	CPT/HCPCS
5.3.2	Prior nontraumatic amputation or peripheral	35650	PX	BYPASS GRAFT, WITH OTHER THAN VEIN; AXILLARY-AXILLARY	CPT/HCPCS
5.3.2	Prior nontraumatic amputation or peripheral	35651	PX	BYPASS GRAFT, WITH OTHER THAN VEIN; AORTOFEMORAL-POPLITEAL	CPT/HCPCS
5.3.2	Prior nontraumatic amputation or peripheral	35654	PX	BYPASS GRAFT, WITH OTHER THAN VEIN; AXILLARY-FEMORAL-FEMORAL	CPT/HCPCS
5.3.2	Prior nontraumatic amputation or peripheral	35656	PX	BYPASS GRAFT, WITH OTHER THAN VEIN; FEMORAL-POPLITEAL	CPT/HCPCS
5.3.2	Prior nontraumatic amputation or peripheral	35661	PX	BYPASS GRAFT, WITH OTHER THAN VEIN; FEMORAL-FEMORAL	CPT/HCPCS
5.3.2	Prior nontraumatic amputation or peripheral	35663	PX	BYPASS GRAFT, WITH OTHER THAN VEIN; ILIOILIAC	CPT/HCPCS
5.3.2	Prior nontraumatic amputation or peripheral	35666	PX	BYPASS GRAFT, WITH OTHER THAN VEIN; FEMORAL-ANTERIOR TIBIAL, POSTERIOR TIBIAL, OR PERONEAL ARTERY	CPT/HCPCS
5.3.2	Prior nontraumatic amputation or peripheral	35671	PX	BYPASS GRAFT, WITH OTHER THAN VEIN; POPLITEAL-TIBIAL OR -PERONEAL ARTERY	CPT/HCPCS
5.3.2	Prior nontraumatic amputation or peripheral	35681	PX	BYPASS GRAFT; COMPOSITE, PROSTHETIC AND VEIN (LIST SEPARATELY IN ADDITION TO CODE FOR PRIMARY PROCEDURE)	CPT/HCPCS
5.3.2	Prior nontraumatic amputation or peripheral	35682	PX	BYPASS GRAFT; AUTOGENOUS COMPOSITE, 2 SEGMENTS OF VEINS FROM 2 LOCATIONS (LIST SEPARATELY IN ADDITION TO CODE FOR PRIMARY PROCEDURE)	CPT/HCPCS
5.3.2	Prior nontraumatic amputation or peripheral	35683	PX	BYPASS GRAFT; AUTOGENOUS COMPOSITE, 3 OR MORE SEGMENTS OF VEIN FROM 2 OR MORE LOCATIONS (LIST SEPARATELY IN ADDITION TO CODE FOR PRIMARY PROCEDURE)	CPT/HCPCS
5.3.2	Prior nontraumatic amputation or peripheral	35879	PX	REVISION, LOWER EXTREMITY ARTERIAL BYPASS, WITHOUT THROMBECTOMY, OPEN; WITH VEIN PATCH ANGIOPLASTY	CPT/HCPCS
5.3.2	Prior nontraumatic amputation or peripheral	37207	PX	TRANSCATHETER PLACEMENT OF AN INTRAVASCULAR STENT(S) (EXCEPT CORONARY, CAROTID, VERTEBRAL, ILIAC AND LOWER EXTREMITY ARTERIES), OPEN; INITIAL VESSEL / TRANSCATHETER PLACEMENT OF AN INTRAVASCULAR STENT(S) (NON-CORONARY VESSEL), OPEN; INITIAL VESSEL / TRANSCATHETER PLACEMENT OF AN INTRAVASCULAR STENT(S), (NON-CORONARY VESSEL), OPEN; INITIAL VESSEL	CPT/HCPCS
5.3.2	Prior nontraumatic amputation or peripheral	37208	PX	TRANSCATHETER PLACEMENT OF AN INTRAVASCULAR STENT(S) (EXCEPT CORONARY, CAROTID, VERTEBRAL, ILIAC AND LOWER EXTREMITY ARTERIES), OPEN; EACH ADDITIONAL VESSEL (LIST SEPARATELY IN ADDITION TO CODE FOR PRIMARY PROCEDURE) / TRANSCATHETER PLACEMENT OF AN INTRAVASCULAR STENT(S) (NON-CORONARY VESSEL), OPEN; EACH ADDITIONAL VESSEL (LIST SEPARATELY IN ADDITION TO CODE FOR PRIMARY PROCEDURE) / TRANSCATHETER PLACEMENT OF AN INTRAVASCULAR STENT(S), (NON-CORONARY VESSEL), OPEN; EACH ADDITIONAL VESSEL (LIST SEPARATELY IN ADDITION TO CODE FOR PRIMARY PROCEDURE)	CPT/HCPCS
5.3.2	Prior nontraumatic amputation or peripheral	37220	PX	REVASCLARIZATION, ENDOVASCULAR, OPEN OR PERCUTANEOUS, ILIAC ARTERY, UNILATERAL, INITIAL VESSEL; WITH TRANSLUMINAL ANGIOPLASTY	CPT/HCPCS
5.3.2	Prior nontraumatic amputation or peripheral	37221	PX	REVASCLARIZATION, ENDOVASCULAR, OPEN OR PERCUTANEOUS, ILIAC ARTERY, UNILATERAL, INITIAL VESSEL; WITH TRANSLUMINAL STENT PLACEMENT(S), INCLUDES ANGIOPLASTY WITHIN THE SAME VESSEL, WHEN PERFORMED	CPT/HCPCS
5.3.2	Prior nontraumatic amputation or peripheral	37222	PX	REVASCLARIZATION, ENDOVASCULAR, OPEN OR PERCUTANEOUS, ILIAC ARTERY, EACH ADDITIONAL IPSILATERAL ILIAC VESSEL; WITH TRANSLUMINAL ANGIOPLASTY (LIST SEPARATELY IN ADDITION TO CODE FOR PRIMARY PROCEDURE)	CPT/HCPCS
5.3.2	Prior nontraumatic amputation or peripheral	37223	PX	REVASCLARIZATION, ENDOVASCULAR, OPEN OR PERCUTANEOUS, ILIAC ARTERY, EACH ADDITIONAL IPSILATERAL ILIAC VESSEL; WITH TRANSLUMINAL STENT PLACEMENT(S), INCLUDES ANGIOPLASTY WITHIN THE SAME VESSEL, WHEN PERFORMED (LIST SEPARATELY IN ADDITION TO CODE FOR PRIMARY PROCEDURE)	CPT/HCPCS
5.3.2	Prior nontraumatic amputation or peripheral	37224	PX	REVASCLARIZATION, ENDOVASCULAR, OPEN OR PERCUTANEOUS, FEMORAL, POPLITEAL ARTERY(S), UNILATERAL; WITH TRANSLUMINAL ANGIOPLASTY	CPT/HCPCS

5.3.2	Prior nontraumatic amputation or peripheral 37225	PX	REVASCLARIZATION, ENDOVASCULAR, OPEN OR PERCUTANEOUS, FEMORAL, POPLITEAL ARTERY(S), UNILATERAL; WITH ATHERECTOMY, INCLUDES ANGIOPLASTY WITHIN THE SAME VESSEL, WHEN PERFORMED	CPT/HCPCS
5.3.2	Prior nontraumatic amputation or peripheral 37226	PX	REVASCLARIZATION, ENDOVASCULAR, OPEN OR PERCUTANEOUS, FEMORAL, POPLITEAL ARTERY(S), UNILATERAL; WITH TRANSLUMINAL STENT PLACEMENT(S), INCLUDES ANGIOPLASTY WITHIN THE SAME VESSEL, WHEN PERFORMED	CPT/HCPCS
5.3.2	Prior nontraumatic amputation or peripheral 37227	PX	REVASCLARIZATION, ENDOVASCULAR, OPEN OR PERCUTANEOUS, FEMORAL, POPLITEAL ARTERY(S), UNILATERAL; WITH TRANSLUMINAL STENT PLACEMENT(S) AND ATHERECTOMY, INCLUDES ANGIOPLASTY WITHIN THE SAME VESSEL, WHEN PERFORMED	CPT/HCPCS
5.3.2	Prior nontraumatic amputation or peripheral 37228	PX	REVASCLARIZATION, ENDOVASCULAR, OPEN OR PERCUTANEOUS, TIBIAL, PERONEAL ARTERY, UNILATERAL, INITIAL VESSEL; WITH TRANSLUMINAL ANGIOPLASTY	CPT/HCPCS
5.3.2	Prior nontraumatic amputation or peripheral 37229	PX	REVASCLARIZATION, ENDOVASCULAR, OPEN OR PERCUTANEOUS, TIBIAL, PERONEAL ARTERY, UNILATERAL, INITIAL VESSEL; WITH ATHERECTOMY, INCLUDES ANGIOPLASTY WITHIN THE SAME VESSEL, WHEN PERFORMED	CPT/HCPCS
5.3.2	Prior nontraumatic amputation or peripheral 37230	PX	REVASCLARIZATION, ENDOVASCULAR, OPEN OR PERCUTANEOUS, TIBIAL, PERONEAL ARTERY, UNILATERAL, INITIAL VESSEL; WITH TRANSLUMINAL STENT PLACEMENT(S), INCLUDES ANGIOPLASTY WITHIN THE SAME VESSEL, WHEN PERFORMED	CPT/HCPCS
5.3.2	Prior nontraumatic amputation or peripheral 37231	PX	REVASCLARIZATION, ENDOVASCULAR, OPEN OR PERCUTANEOUS, TIBIAL, PERONEAL ARTERY, UNILATERAL, INITIAL VESSEL; WITH TRANSLUMINAL STENT PLACEMENT(S) AND ATHERECTOMY, INCLUDES ANGIOPLASTY WITHIN THE SAME VESSEL, WHEN PERFORMED	CPT/HCPCS
5.3.2	Prior nontraumatic amputation or peripheral 37232	PX	REVASCLARIZATION, ENDOVASCULAR, OPEN OR PERCUTANEOUS, TIBIAL/PERONEAL ARTERY, UNILATERAL, EACH ADDITIONAL VESSEL; WITH TRANSLUMINAL ANGIOPLASTY (LIST SEPARATELY IN ADDITION TO CODE FOR PRIMARY PROCEDURE)	CPT/HCPCS
5.3.2	Prior nontraumatic amputation or peripheral 37233	PX	REVASCLARIZATION, ENDOVASCULAR, OPEN OR PERCUTANEOUS, TIBIAL/PERONEAL ARTERY, UNILATERAL, EACH ADDITIONAL VESSEL; WITH ATHERECTOMY, INCLUDES ANGIOPLASTY WITHIN THE SAME VESSEL, WHEN PERFORMED (LIST SEPARATELY IN ADDITION TO CODE FOR PRIMARY PROCEDURE)	CPT/HCPCS
5.3.2	Prior nontraumatic amputation or peripheral 37234	PX	REVASCLARIZATION, ENDOVASCULAR, OPEN OR PERCUTANEOUS, TIBIAL/PERONEAL ARTERY, UNILATERAL, EACH ADDITIONAL VESSEL; WITH TRANSLUMINAL STENT PLACEMENT(S), INCLUDES ANGIOPLASTY WITHIN THE SAME VESSEL, WHEN PERFORMED (LIST SEPARATELY IN ADDITION TO CODE FOR PRIMARY PROCEDURE)	CPT/HCPCS
5.3.2	Prior nontraumatic amputation or peripheral 37235	PX	REVASCLARIZATION, ENDOVASCULAR, OPEN OR PERCUTANEOUS, TIBIAL/PERONEAL ARTERY, UNILATERAL, EACH ADDITIONAL VESSEL; WITH TRANSLUMINAL STENT PLACEMENT(S) AND ATHERECTOMY, INCLUDES ANGIOPLASTY WITHIN THE SAME VESSEL, WHEN PERFORMED (LIST SEPARATELY IN ADDITION TO CODE FOR PRIMARY PROCEDURE)	CPT/HCPCS
5.3.2	Prior nontraumatic amputation or peripheral Z89.43	DX	Acquired absence of foot	ICD-10-CM
5.3.2	Prior nontraumatic amputation or peripheral Z89.431	DX	Acquired absence of right foot	ICD-10-CM
5.3.2	Prior nontraumatic amputation or peripheral Z89.432	DX	Acquired absence of left foot	ICD-10-CM
5.3.2	Prior nontraumatic amputation or peripheral Z89.439	DX	Acquired absence of unspecified foot	ICD-10-CM
5.3.2	Prior nontraumatic amputation or peripheral Z89.44	DX	Acquired absence of ankle	ICD-10-CM
5.3.2	Prior nontraumatic amputation or peripheral Z89.441	DX	Acquired absence of right ankle	ICD-10-CM
5.3.2	Prior nontraumatic amputation or peripheral Z89.442	DX	Acquired absence of left ankle	ICD-10-CM
5.3.2	Prior nontraumatic amputation or peripheral Z89.449	DX	Acquired absence of unspecified ankle	ICD-10-CM
5.3.2	Prior nontraumatic amputation or peripheral Z89.5	DX	Acquired absence of leg below knee	ICD-10-CM
5.3.2	Prior nontraumatic amputation or peripheral Z89.51	DX	Acquired absence of leg below knee	ICD-10-CM
5.3.2	Prior nontraumatic amputation or peripheral Z89.511	DX	Acquired absence of right leg below knee	ICD-10-CM
5.3.2	Prior nontraumatic amputation or peripheral Z89.512	DX	Acquired absence of left leg below knee	ICD-10-CM
5.3.2	Prior nontraumatic amputation or peripheral Z89.519	DX	Acquired absence of unspecified leg below knee	ICD-10-CM
5.3.2	Prior nontraumatic amputation or peripheral Z89.52	DX	Acquired absence of knee	ICD-10-CM
5.3.2	Prior nontraumatic amputation or peripheral Z89.521	DX	Acquired absence of right knee	ICD-10-CM
5.3.2	Prior nontraumatic amputation or peripheral Z89.522	DX	Acquired absence of left knee	ICD-10-CM
5.3.2	Prior nontraumatic amputation or peripheral Z89.529	DX	Acquired absence of unspecified knee	ICD-10-CM
5.3.2	Prior nontraumatic amputation or peripheral Z89.6	DX	Acquired absence of leg above knee	ICD-10-CM
5.3.2	Prior nontraumatic amputation or peripheral Z89.61	DX	Acquired absence of leg above knee	ICD-10-CM
5.3.2	Prior nontraumatic amputation or peripheral Z89.611	DX	Acquired absence of right leg above knee	ICD-10-CM
5.3.2	Prior nontraumatic amputation or peripheral Z89.612	DX	Acquired absence of left leg above knee	ICD-10-CM
5.3.2	Prior nontraumatic amputation or peripheral Z89.619	DX	Acquired absence of unspecified leg above knee	ICD-10-CM

5.3.2	Prior nontraumatic amputation or peripheral	Z89.62	DX	Acquired absence of hip	ICD-10-CM
5.3.2	Prior nontraumatic amputation or peripheral	Z89.621	DX	Acquired absence of right hip joint	ICD-10-CM
5.3.2	Prior nontraumatic amputation or peripheral	Z89.622	DX	Acquired absence of left hip joint	ICD-10-CM
5.3.2	Prior nontraumatic amputation or peripheral	Z89.629	DX	Acquired absence of unspecified hip joint	ICD-10-CM
5.3.2	Prior nontraumatic amputation or peripheral	Z89.9	DX	Acquired absence of limb, unspecified	ICD-10-CM
5.3.2	Prior nontraumatic amputation or peripheral	OY670ZZ	PX	Detachment at Right Femoral Region, Open Approach	ICD-10-PCS
5.3.2	Prior nontraumatic amputation or peripheral	OY680ZZ	PX	Detachment at Left Femoral Region, Open Approach	ICD-10-PCS
5.3.2	Prior nontraumatic amputation or peripheral	OY6C0Z1	PX	Detachment at Right Upper Leg, High, Open Approach	ICD-10-PCS
5.3.2	Prior nontraumatic amputation or peripheral	OY6C0Z2	PX	Detachment at Right Upper Leg, Mid, Open Approach	ICD-10-PCS
5.3.2	Prior nontraumatic amputation or peripheral	OY6C0Z3	PX	Detachment at Right Upper Leg, Low, Open Approach	ICD-10-PCS
5.3.2	Prior nontraumatic amputation or peripheral	OY6D0Z1	PX	Detachment at Left Upper Leg, High, Open Approach	ICD-10-PCS
5.3.2	Prior nontraumatic amputation or peripheral	OY6D0Z2	PX	Detachment at Left Upper Leg, Mid, Open Approach	ICD-10-PCS
5.3.2	Prior nontraumatic amputation or peripheral	OY6D0Z3	PX	Detachment at Left Upper Leg, Low, Open Approach	ICD-10-PCS
5.3.2	Prior nontraumatic amputation or peripheral	OY6F0ZZ	PX	Detachment at Right Knee Region, Open Approach	ICD-10-PCS
5.3.2	Prior nontraumatic amputation or peripheral	OY6G0ZZ	PX	Detachment at Left Knee Region, Open Approach	ICD-10-PCS
5.3.2	Prior nontraumatic amputation or peripheral	OY6H0Z1	PX	Detachment at Right Lower Leg, High, Open Approach	ICD-10-PCS
5.3.2	Prior nontraumatic amputation or peripheral	OY6H0Z2	PX	Detachment at Right Lower Leg, Mid, Open Approach	ICD-10-PCS
5.3.2	Prior nontraumatic amputation or peripheral	OY6H0Z3	PX	Detachment at Right Lower Leg, Low, Open Approach	ICD-10-PCS
5.3.2	Prior nontraumatic amputation or peripheral	OY6J0Z1	PX	Detachment at Left Lower Leg, High, Open Approach	ICD-10-PCS
5.3.2	Prior nontraumatic amputation or peripheral	OY6J0Z2	PX	Detachment at Left Lower Leg, Mid, Open Approach	ICD-10-PCS
5.3.2	Prior nontraumatic amputation or peripheral	OY6J0Z3	PX	Detachment at Left Lower Leg, Low, Open Approach	ICD-10-PCS
5.3.2	Prior nontraumatic amputation or peripheral	OY6M0Z0	PX	Detachment at Right Foot, Complete, Open Approach	ICD-10-PCS
5.3.2	Prior nontraumatic amputation or peripheral	OY6M0Z4	PX	Detachment at Right Foot, Complete 1st Ray, Open Approach	ICD-10-PCS
5.3.2	Prior nontraumatic amputation or peripheral	OY6M0Z5	PX	Detachment at Right Foot, Complete 2nd Ray, Open Approach	ICD-10-PCS
5.3.2	Prior nontraumatic amputation or peripheral	OY6M0Z6	PX	Detachment at Right Foot, Complete 3rd Ray, Open Approach	ICD-10-PCS
5.3.2	Prior nontraumatic amputation or peripheral	OY6M0Z7	PX	Detachment at Right Foot, Complete 4th Ray, Open Approach	ICD-10-PCS
5.3.2	Prior nontraumatic amputation or peripheral	OY6M0Z8	PX	Detachment at Right Foot, Complete 5th Ray, Open Approach	ICD-10-PCS
5.3.2	Prior nontraumatic amputation or peripheral	OY6M0Z9	PX	Detachment at Right Foot, Partial 1st Ray, Open Approach	ICD-10-PCS
5.3.2	Prior nontraumatic amputation or peripheral	OY6M0ZB	PX	Detachment at Right Foot, Partial 2nd Ray, Open Approach	ICD-10-PCS
5.3.2	Prior nontraumatic amputation or peripheral	OY6M0ZC	PX	Detachment at Right Foot, Partial 3rd Ray, Open Approach	ICD-10-PCS
5.3.2	Prior nontraumatic amputation or peripheral	OY6M0ZD	PX	Detachment at Right Foot, Partial 4th Ray, Open Approach	ICD-10-PCS
5.3.2	Prior nontraumatic amputation or peripheral	OY6M0ZF	PX	Detachment at Right Foot, Partial 5th Ray, Open Approach	ICD-10-PCS
5.3.2	Prior nontraumatic amputation or peripheral	OY6N0Z0	PX	Detachment at Left Foot, Complete, Open Approach	ICD-10-PCS
5.3.2	Prior nontraumatic amputation or peripheral	OY6N0Z4	PX	Detachment at Left Foot, Complete 1st Ray, Open Approach	ICD-10-PCS
5.3.2	Prior nontraumatic amputation or peripheral	OY6N0Z5	PX	Detachment at Left Foot, Complete 2nd Ray, Open Approach	ICD-10-PCS
5.3.2	Prior nontraumatic amputation or peripheral	OY6N0Z6	PX	Detachment at Left Foot, Complete 3rd Ray, Open Approach	ICD-10-PCS
5.3.2	Prior nontraumatic amputation or peripheral	OY6N0Z7	PX	Detachment at Left Foot, Complete 4th Ray, Open Approach	ICD-10-PCS
5.3.2	Prior nontraumatic amputation or peripheral	OY6N0Z8	PX	Detachment at Left Foot, Complete 5th Ray, Open Approach	ICD-10-PCS
5.3.2	Prior nontraumatic amputation or peripheral	OY6N0Z9	PX	Detachment at Left Foot, Partial 1st Ray, Open Approach	ICD-10-PCS
5.3.2	Prior nontraumatic amputation or peripheral	OY6N0ZB	PX	Detachment at Left Foot, Partial 2nd Ray, Open Approach	ICD-10-PCS
5.3.2	Prior nontraumatic amputation or peripheral	OY6N0ZC	PX	Detachment at Left Foot, Partial 3rd Ray, Open Approach	ICD-10-PCS
5.3.2	Prior nontraumatic amputation or peripheral	OY6N0ZD	PX	Detachment at Left Foot, Partial 4th Ray, Open Approach	ICD-10-PCS
5.3.2	Prior nontraumatic amputation or peripheral	OY6N0ZF	PX	Detachment at Left Foot, Partial 5th Ray, Open Approach	ICD-10-PCS
5.3.2	Prior nontraumatic amputation or peripheral	27598	PX	Amputate lower leg at knee	CPT
5.3.2	Prior nontraumatic amputation or peripheral	27880	PX	Amputation of lower leg	CPT
5.3.2	Prior nontraumatic amputation or peripheral	27881	PX	Amputation of lower leg	CPT
5.3.2	Prior nontraumatic amputation or peripheral	27882	PX	Amputation of lower leg	CPT
5.3.2	Prior nontraumatic amputation or peripheral	27888	PX	Amputation of foot at ankle	CPT
5.3.2	Prior nontraumatic amputation or peripheral	27889	PX	Amputation of foot at ankle	CPT

Category	Variable_name	Variable_subtype	Code	Code_category	Description	Code_type	Notes
	6 HbA1c >10.5%		17855-8	LOINC			
	6 HbA1c >10.5%		17856-6	LOINC			
	6 HbA1c >10.5%		41995-2	LOINC			
	6 HbA1c >10.5%		43150-2	LOINC			
	6 HbA1c >10.5%		4548-4	LOINC			
	6 HbA1c >10.5%		71875-9	LOINC			
	6 HbA1c >10.5%		74246-0	LOINC			
	6 HbA1c >10.5%		62388-4	LOINC			
	6 HbA1c >10.5%		59261-8	LOINC			
	6 HbA1c >10.5%		55454-3	LOINC			
	6 HbA1c >10.5%		4549-2	LOINC			
	Planning treatment for diabetic retinopathy and/or						
	macular edema		67028	PX	Anti-VEGFi (component 2)	CPT/HCPCS	
	Planning treatment for diabetic retinopathy and/or						
	macular edema		67028	PX	Photocoagulation (component 3)	CPT/HCPCS	
	Planning treatment for diabetic retinopathy and/or						
	macular edema		67220	PX	Photocoagulation (component 3)	CPT/HCPCS	
	Planning treatment for diabetic retinopathy and/or						
	macular edema		67228	PX	Photocoagulation (component 3)	CPT/HCPCS	
	Hospitalized for chronic heart failure within 2 months						
	prior to screening		109.81	DX	RHEUMATIC HEART FAILURE	ICD-10-CM	
	Hospitalized for chronic heart failure within 2 months						
	prior to screening		111.0	DX	HYPERTENSIVE HEART DISEASE WITH HEART FAILURE	ICD-10-CM	
	Hospitalized for chronic heart failure within 2 months						
	prior to screening		113.0	DX	HYPERTENSIVE HEART AND CHRONIC KIDNEY DISEASE WITH HEART FAILURE AND STAGE	ICD-10-CM	
	Hospitalized for chronic heart failure within 2 months						
	prior to screening		113.2	DX	HYPERTENSIVE HEART AND CHRONIC KIDNEY DISEASE WITH HEART FAILURE AND WITH S	ICD-10-CM	
	Hospitalized for chronic heart failure within 2 months						
	prior to screening		150	DX	HEART FAILURE	ICD-10-CM	
	Hospitalized for chronic heart failure within 2 months						
	prior to screening		150.1	DX	LEFT VENTRICULAR FAILURE, UNSPECIFIED	ICD-10-CM	
	Hospitalized for chronic heart failure within 2 months						
	prior to screening		150.2	DX	SYSTOLIC (CONGESTIVE) HEART FAILURE	ICD-10-CM	
	Hospitalized for chronic heart failure within 2 months						
	prior to screening		150.20	DX	UNSPECIFIED SYSTOLIC (CONGESTIVE) HEART FAILURE	ICD-10-CM	
	Hospitalized for chronic heart failure within 2 months						
	prior to screening		150.21	DX	ACUTE SYSTOLIC (CONGESTIVE) HEART FAILURE	ICD-10-CM	
	Hospitalized for chronic heart failure within 2 months						
	prior to screening		150.22	DX	CHRONIC SYSTOLIC (CONGESTIVE) HEART FAILURE	ICD-10-CM	
	Hospitalized for chronic heart failure within 2 months						
	prior to screening		150.23	DX	ACUTE ON CHRONIC SYSTOLIC (CONGESTIVE) HEART FAILURE	ICD-10-CM	
	Hospitalized for chronic heart failure within 2 months						
	prior to screening		150.3	DX	DIASTOLIC (CONGESTIVE) HEART FAILURE	ICD-10-CM	
	Hospitalized for chronic heart failure within 2 months						
	prior to screening		150.30	DX	UNSPECIFIED DIASTOLIC (CONGESTIVE) HEART FAILURE	ICD-10-CM	
	Hospitalized for chronic heart failure within 2 months						
	prior to screening		150.31	DX	ACUTE DIASTOLIC (CONGESTIVE) HEART FAILURE	ICD-10-CM	
	Hospitalized for chronic heart failure within 2 months						
	prior to screening		150.32	DX	CHRONIC DIASTOLIC (CONGESTIVE) HEART FAILURE	ICD-10-CM	
	Hospitalized for chronic heart failure within 2 months						
	prior to screening		150.33	DX	ACUTE ON CHRONIC DIASTOLIC (CONGESTIVE) HEART FAILURE	ICD-10-CM	
	Hospitalized for chronic heart failure within 2 months						
	prior to screening		150.4	DX	COMBINED SYSTOLIC (CONGESTIVE) AND DIASTOLIC (CONGESTIVE) HEART FAILURE	ICD-10-CM	
	Hospitalized for chronic heart failure within 2 months						
	prior to screening		150.40	DX	UNSPECIFIED COMBINED SYSTOLIC (CONGESTIVE) AND DIASTOLIC (CONGESTIVE) HEART F	ICD-10-CM	
	Hospitalized for chronic heart failure within 2 months						
	prior to screening		150.41	DX	ACUTE COMBINED SYSTOLIC (CONGESTIVE) AND DIASTOLIC (CONGESTIVE) HEART F	ICD-10-CM	
	Hospitalized for chronic heart failure within 2 months						
	prior to screening		150.42	DX	CHRONIC COMBINED SYSTOLIC (CONGESTIVE) AND DIASTOLIC (CONGESTIVE) HEART F	ICD-10-CM	
	Hospitalized for chronic heart failure within 2 months						
	prior to screening		150.43	DX	ACUTE ON CHRONIC COMBINED SYSTOLIC (CONGESTIVE) AND DIASTOLIC (CONGESTIVE) H	ICD-10-CM	
	Hospitalized for chronic heart failure within 2 months						
	prior to screening		150.8	DX	OTHER HEART FAILURE	ICD-10-CM	
	Hospitalized for chronic heart failure within 2 months						
	prior to screening		150.810	DX	RIGHT HEART FAILURE, UNSPECIFIED	ICD-10-CM	
	Hospitalized for chronic heart failure within 2 months						
	prior to screening		150.811	DX	ACUTE RIGHT HEART FAILURE	ICD-10-CM	
	Hospitalized for chronic heart failure within 2 months						
	prior to screening		150.812	DX	CHRONIC RIGHT HEART FAILURE	ICD-10-CM	
	Hospitalized for chronic heart failure within 2 months						
	prior to screening		150.813	DX	ACUTE ON CHRONIC RIGHT HEART FAILURE	ICD-10-CM	
	Hospitalized for chronic heart failure within 2 months						
	prior to screening		150.814	DX	RIGHT HEART FAILURE DUE TO LEFT HEART FAILURE	ICD-10-CM	
	Hospitalized for chronic heart failure within 2 months						
	prior to screening		150.82	DX	BIVENTRICULAR HEART FAILURE	ICD-10-CM	

8	Hospitalized for chronic heart failure within 2 months prior to screening	I50.83	DX	HIGH OUTPUT HEART FAILURE	ICD-10-CM
8	Hospitalized for chronic heart failure within 2 months prior to screening	I50.84	DX	END STAGE HEART FAILURE	ICD-10-CM
8	Hospitalized for chronic heart failure within 2 months prior to screening	I50.89	DX	OTHER HEART FAILURE	ICD-10-CM
8	Hospitalized for chronic heart failure within 2 months prior to screening	I50.9	DX	HEART FAILURE, UNSPECIFIED	ICD-10-CM
11	History of chronic or acute pancreatitis	B25.2	DX	CYTOMEGALOVIRAL PANCREATITIS	ICD-10-CM
11	History of chronic or acute pancreatitis	K85.0	DX	IDIOPATHIC ACUTE PANCREATITIS	ICD-10-CM
11	History of chronic or acute pancreatitis	K85.00	DX	IDIOPATHIC ACUTE PANCREATITIS WITHOUT NECROSIS OR INFECTION	ICD-10-CM
11	History of chronic or acute pancreatitis	K85.01	DX	IDIOPATHIC ACUTE PANCREATITIS WITH UNINFECTED NECROSIS	ICD-10-CM
11	History of chronic or acute pancreatitis	K85.02	DX	IDIOPATHIC ACUTE PANCREATITIS WITH INFECTED NECROSIS	ICD-10-CM
11	History of chronic or acute pancreatitis	K85.1	DX	BILIARY ACUTE PANCREATITIS	ICD-10-CM
11	History of chronic or acute pancreatitis	K85.10	DX	BILIARY ACUTE PANCREATITIS WITHOUT NECROSIS OR INFECTION	ICD-10-CM
11	History of chronic or acute pancreatitis	K85.11	DX	BILIARY ACUTE PANCREATITIS WITH UNINFECTED NECROSIS	ICD-10-CM
11	History of chronic or acute pancreatitis	K85.12	DX	BILIARY ACUTE PANCREATITIS WITH INFECTED NECROSIS	ICD-10-CM
11	History of chronic or acute pancreatitis	K85.2	DX	ALCOHOL INDUCED ACUTE PANCREATITIS	ICD-10-CM
11	History of chronic or acute pancreatitis	K85.20	DX	ALCOHOL INDUCED ACUTE PANCREATITIS WITHOUT NECROSIS OR INFECTION	ICD-10-CM
11	History of chronic or acute pancreatitis	K85.21	DX	ALCOHOL INDUCED ACUTE PANCREATITIS WITH UNINFECTED NECROSIS	ICD-10-CM
11	History of chronic or acute pancreatitis	K85.22	DX	ALCOHOL INDUCED ACUTE PANCREATITIS WITH INFECTED NECROSIS	ICD-10-CM
11	History of chronic or acute pancreatitis	K85.3	DX	DRUG INDUCED ACUTE PANCREATITIS	ICD-10-CM
11	History of chronic or acute pancreatitis	K85.30	DX	DRUG INDUCED ACUTE PANCREATITIS WITHOUT NECROSIS OR INFECTION	ICD-10-CM
11	History of chronic or acute pancreatitis	K85.31	DX	DRUG INDUCED ACUTE PANCREATITIS WITH UNINFECTED NECROSIS	ICD-10-CM
11	History of chronic or acute pancreatitis	K85.32	DX	DRUG INDUCED ACUTE PANCREATITIS WITH INFECTED NECROSIS	ICD-10-CM
11	History of chronic or acute pancreatitis	K85.8	DX	OTHER ACUTE PANCREATITIS	ICD-10-CM
11	History of chronic or acute pancreatitis	K85.80	DX	OTHER ACUTE PANCREATITIS WITHOUT NECROSIS OR INFECTION	ICD-10-CM
11	History of chronic or acute pancreatitis	K85.81	DX	OTHER ACUTE PANCREATITIS WITH UNINFECTED NECROSIS	ICD-10-CM
11	History of chronic or acute pancreatitis	K85.82	DX	OTHER ACUTE PANCREATITIS WITH INFECTED NECROSIS	ICD-10-CM
11	History of chronic or acute pancreatitis	K85.9	DX	ACUTE PANCREATITIS, UNSPECIFIED	ICD-10-CM
11	History of chronic or acute pancreatitis	K85.90	DX	ACUTE PANCREATITIS WITHOUT NECROSIS OR INFECTION, UNSPECIFIED	ICD-10-CM
11	History of chronic or acute pancreatitis	K85.91	DX	ACUTE PANCREATITIS WITH UNINFECTED NECROSIS, UNSPECIFIED	ICD-10-CM
11	History of chronic or acute pancreatitis	K85.92	DX	ACUTE PANCREATITIS WITH INFECTED NECROSIS, UNSPECIFIED	ICD-10-CM
11	History of chronic or acute pancreatitis	K86.0	DX	ALCOHOL-INDUCED CHRONIC PANCREATITIS	ICD-10-CM
11	History of chronic or acute pancreatitis	K86.1	DX	OTHER CHRONIC PANCREATITIS	ICD-10-CM
11	History of chronic or acute pancreatitis	K86.2	DX	CYST OF PANCREAS	ICD-10-CM
11	History of chronic or acute pancreatitis	K86.3	DX	PSEUDOCYST OF PANCREAS	ICD-10-CM
11	History of chronic or acute pancreatitis	K86.8	DX	OTHER SPECIFIED DISEASES OF PANCREAS	ICD-10-CM
11	History of chronic or acute pancreatitis	K86.81	DX	EXOCRINE PANCREATIC INSUFFICIENCY	ICD-10-CM
11	History of chronic or acute pancreatitis	K86.89	DX	OTHER SPECIFIED DISEASES OF PANCREAS	ICD-10-CM
11	History of chronic or acute pancreatitis	K86.9	DX	DISEASE OF PANCREAS, UNSPECIFIED	ICD-10-CM
12	Known clinically significant gastric emptying abnormality or bariatric surgery	K31.84	DX	GASTROPARESIS	ICD-10-CM
12	Known clinically significant gastric emptying abnormality or bariatric surgery	K31.1	DX	Adult hypertrophic pyloric stenosis	ICD-10-CM
12	Known clinically significant gastric emptying abnormality or bariatric surgery	K31.2	DX	Hourglass stricture and stenosis of stomach	ICD-10-CM
12	Known clinically significant gastric emptying abnormality or bariatric surgery	K31.5	DX	Obstruction of duodenum	ICD-10-CM
12	Known clinically significant gastric emptying abnormality or bariatric surgery	BUTORPHANOL TARTRATE	RX		Generic
12	Known clinically significant gastric emptying abnormality or bariatric surgery	DIHYDROCODEINE BITARTRAT	RX		Generic
12	Known clinically significant gastric emptying abnormality or bariatric surgery	FENTANYL	RX		Generic
12	Known clinically significant gastric emptying abnormality or bariatric surgery	FENTANYL CITRATE	RX		Generic
12	Known clinically significant gastric emptying abnormality or bariatric surgery	FENTANYL CITRATE/DROPERID	RX		Generic
12	Known clinically significant gastric emptying abnormality or bariatric surgery	FENTANYL HCL	RX		Generic
12	Known clinically significant gastric emptying abnormality or bariatric surgery	HYDROMORPHONE HCL	RX		Generic
12	Known clinically significant gastric emptying abnormality or bariatric surgery	LEVORPHANOL TARTRATE	RX		Generic
12	Known clinically significant gastric emptying abnormality or bariatric surgery	MEPERIDINE HCL	RX		Generic
12	Known clinically significant gastric emptying abnormality or bariatric surgery	MEPERIDINE HCL/ATROPINE S	RX		Generic
12	Known clinically significant gastric emptying abnormality or bariatric surgery	MEPERIDINE HCL/PROMETHA	RX		Generic
12	Known clinically significant gastric emptying abnormality or bariatric surgery	METHADONE HCL	RX		Generic
12	Known clinically significant gastric emptying abnormality or bariatric surgery	MORPHINE SULFATE	RX		Generic

Known clinically significant gastric emptying abnormality or bariatric surgery	OPIUM TINCTURE	RX		Generic
Known clinically significant gastric emptying abnormality or bariatric surgery	OXYMORPHONE HCL	RX		Generic
Known clinically significant gastric emptying abnormality or bariatric surgery	PENTAZOCINE HCL/NALOXONI	RX		Generic
Known clinically significant gastric emptying abnormality or bariatric surgery	PENTAZOCINE LACTATE	RX		Generic
Known clinically significant gastric emptying abnormality or bariatric surgery	TAPENTADOL HCL	RX		Generic
Known clinically significant gastric emptying abnormality or bariatric surgery	ACETAMINOPHEN WITH CODEI	RX		Generic
Known clinically significant gastric emptying abnormality or bariatric surgery	BUTALBITAL/ACETAMINOPHE	RX		Generic
Known clinically significant gastric emptying abnormality or bariatric surgery	CODEINE PHOSPHATE	RX		Generic
Known clinically significant gastric emptying abnormality or bariatric surgery	CODEINE PHOSPHATE/BUTALI	RX		Generic
Known clinically significant gastric emptying abnormality or bariatric surgery	CODEINE SULFATE	RX		Generic
Known clinically significant gastric emptying abnormality or bariatric surgery	CODEINE/ASPIRIN/SALICYLAM	RX		Generic
Known clinically significant gastric emptying abnormality or bariatric surgery	HYDROCODONE BITARTRATE	RX		Generic
Known clinically significant gastric emptying abnormality or bariatric surgery	OXYCODONE HCL	RX		Generic
Known clinically significant gastric emptying abnormality or bariatric surgery	OXYCODONE HCL/ACETAMINO	RX		Generic
Known clinically significant gastric emptying abnormality or bariatric surgery	OXYCODONE HCL/ASPIRIN	RX		Generic
Known clinically significant gastric emptying abnormality or bariatric surgery	OXYCODONE HCL/OXYCODONI	RX		Generic
Known clinically significant gastric emptying abnormality or bariatric surgery	OXYCODONE MYRISTATE	RX		Generic
Known clinically significant gastric emptying abnormality or bariatric surgery	OXYCODONE/ASPIRIN	RX		Generic
Known clinically significant gastric emptying abnormality or bariatric surgery	Z98.84	DX	BARIATRIC SURGERY STATUS	ICD-10-CM
Known clinically significant gastric emptying abnormality or bariatric surgery	K95.01	DX	INFECTION DUE TO GASTRIC BAND PROCEDURE	ICD-10-CM
Known clinically significant gastric emptying abnormality or bariatric surgery	K95.09	DX	OTHER COMPLICATIONS OF GASTRIC BAND PROCEDURE	ICD-10-CM
Known clinically significant gastric emptying abnormality or bariatric surgery	K95.81	DX	INFECTION DUE TO OTHER BARIATRIC PROCEDURE	ICD-10-CM
Known clinically significant gastric emptying abnormality or bariatric surgery	K95.89	DX	OTHER COMPLICATIONS OF OTHER BARIATRIC PROCEDURE	ICD-10-CM
Known clinically significant gastric emptying abnormality or bariatric surgery	0DB60ZZ	PX	EXCISION OF STOMACH, OPEN APPROACH	ICD-10-PCS
Known clinically significant gastric emptying abnormality or bariatric surgery	0DB63ZZ	PX	EXCISION OF STOMACH, PERCUTANEOUS APPROACH	ICD-10-PCS
Known clinically significant gastric emptying abnormality or bariatric surgery	0DB67ZZ	PX	EXCISION OF STOMACH, VIA NATURAL OR ARTIFICIAL OPENING	ICD-10-PCS
Known clinically significant gastric emptying abnormality or bariatric surgery	0D1607A	PX	BYPASS STOMACH TO JEJUNUM WITH AUTOLOGOUS TISSUE SUBSTITUTE, OPEN APPROACH	ICD-10-PCS
Known clinically significant gastric emptying abnormality or bariatric surgery	0D1607B	PX	BYPASS STOMACH TO ILEUM WITH AUTOLOGOUS TISSUE SUBSTITUTE, OPEN APPROACH	ICD-10-PCS
Known clinically significant gastric emptying abnormality or bariatric surgery	0D1607L	PX	BYPASS STOMACH TO TRANSVERSE COLON WITH AUTOLOGOUS TISSUE SUBSTITUTE, OPEN APPROACH	ICD-10-PCS
Known clinically significant gastric emptying abnormality or bariatric surgery	0D160JA	PX	BYPASS STOMACH TO JEJUNUM WITH SYNTHETIC SUBSTITUTE, OPEN APPROACH	ICD-10-PCS
Known clinically significant gastric emptying abnormality or bariatric surgery	0D160JB	PX	BYPASS STOMACH TO ILEUM WITH SYNTHETIC SUBSTITUTE, OPEN APPROACH	ICD-10-PCS
Known clinically significant gastric emptying abnormality or bariatric surgery	0D160JL	PX	BYPASS STOMACH TO TRANSVERSE COLON WITH SYNTHETIC SUBSTITUTE, OPEN APPROACH	ICD-10-PCS
Known clinically significant gastric emptying abnormality or bariatric surgery	0D160KA	PX	BYPASS STOMACH TO JEJUNUM WITH NONAUTOLOGOUS TISSUE SUBSTITUTE, OPEN APPROACH	ICD-10-PCS
Known clinically significant gastric emptying abnormality or bariatric surgery	0D160KB	PX	BYPASS STOMACH TO ILEUM WITH NONAUTOLOGOUS TISSUE SUBSTITUTE, OPEN APPROACH	ICD-10-PCS
Known clinically significant gastric emptying abnormality or bariatric surgery	0D160KL	PX	BYPASS STOMACH TO TRANSVERSE COLON WITH NONAUTOLOGOUS TISSUE SUBSTITUTE	ICD-10-PCS
Known clinically significant gastric emptying abnormality or bariatric surgery	0D160ZA	PX	BYPASS STOMACH TO JEJUNUM, OPEN APPROACH	ICD-10-PCS
Known clinically significant gastric emptying abnormality or bariatric surgery	0D160ZB	PX	BYPASS STOMACH TO ILEUM, OPEN APPROACH	ICD-10-PCS
Known clinically significant gastric emptying abnormality or bariatric surgery	0D160ZL	PX	BYPASS STOMACH TO TRANSVERSE COLON, OPEN APPROACH	ICD-10-PCS

Known clinically significant gastric emptying abnormality or bariatric surgery	0D1687A	PX	BYPASS STOMACH TO JEJUNUM WITH AUTOLOGOUS TISSUE SUBSTITUTE, VIA NATURAL OICD-10-PCS
Known clinically significant gastric emptying abnormality or bariatric surgery	0D1687B	PX	BYPASS STOMACH TO ILEUM WITH AUTOLOGOUS TISSUE SUBSTITUTE, VIA NATURAL OR #ICD-10-PCS
Known clinically significant gastric emptying abnormality or bariatric surgery	0D1687L	PX	BYPASS STOMACH TO TRANSVERSE COLON WITH AUTOLOGOUS TISSUE SUBSTITUTE, VIA ICD-10-PCS
Known clinically significant gastric emptying abnormality or bariatric surgery	0D168JA	PX	BYPASS STOMACH TO JEJUNUM WITH SYNTHETIC SUBSTITUTE, VIA NATURAL OR ARTIFIC ICD-10-PCS
Known clinically significant gastric emptying abnormality or bariatric surgery	0D168JB	PX	BYPASS STOMACH TO ILEUM WITH SYNTHETIC SUBSTITUTE, VIA NATURAL OR ARTIFICIAL ICD-10-PCS
Known clinically significant gastric emptying abnormality or bariatric surgery	0D168JL	PX	BYPASS STOMACH TO TRANSVERSE COLON WITH SYNTHETIC SUBSTITUTE, VIA NATURAL ICD-10-PCS
Known clinically significant gastric emptying abnormality or bariatric surgery	0D168KA	PX	BYPASS STOMACH TO JEJUNUM WITH NONAUTOLOGOUS TISSUE SUBSTITUTE, VIA NATUR ICD-10-PCS
Known clinically significant gastric emptying abnormality or bariatric surgery	0D168KB	PX	BYPASS STOMACH TO ILEUM WITH NONAUTOLOGOUS TISSUE SUBSTITUTE, VIA NATURAL ICD-10-PCS
Known clinically significant gastric emptying abnormality or bariatric surgery	0D168KL	PX	BYPASS STOMACH TO TRANSVERSE COLON WITH NONAUTOLOGOUS TISSUE SUBSTITUTE ICD-10-PCS
Known clinically significant gastric emptying abnormality or bariatric surgery	0D168ZA	PX	BYPASS STOMACH TO JEJUNUM, VIA NATURAL OR ARTIFICIAL OPENING ENDOSCOPIC ICD-10-PCS
Known clinically significant gastric emptying abnormality or bariatric surgery	0D168ZB	PX	BYPASS STOMACH TO ILEUM, VIA NATURAL OR ARTIFICIAL OPENING ENDOSCOPIC ICD-10-PCS
Known clinically significant gastric emptying abnormality or bariatric surgery	0D168ZL	PX	BYPASS STOMACH TO TRANSVERSE COLON, VIA NATURAL OR ARTIFICIAL OPENING ENDOICD-10-PCS
Known clinically significant gastric emptying abnormality or bariatric surgery	0D16479	PX	BYPASS STOMACH TO DUODENUM WITH AUTOLOGOUS TISSUE SUBSTITUTE, PERCUTANE ICD-10-PCS
Known clinically significant gastric emptying abnormality or bariatric surgery	0D1647A	PX	BYPASS STOMACH TO JEJUNUM WITH AUTOLOGOUS TISSUE SUBSTITUTE, PERCUTANEOUICD-10-PCS
Known clinically significant gastric emptying abnormality or bariatric surgery	0D1647B	PX	BYPASS STOMACH TO ILEUM WITH AUTOLOGOUS TISSUE SUBSTITUTE, PERCUTANEOUS EICD-10-PCS
Known clinically significant gastric emptying abnormality or bariatric surgery	0D1647L	PX	BYPASS STOMACH TO TRANSVERSE COLON WITH AUTOLOGOUS TISSUE SUBSTITUTE, PEFICD-10-PCS
Known clinically significant gastric emptying abnormality or bariatric surgery	0D164J9	PX	BYPASS STOMACH TO DUODENUM WITH SYNTHETIC SUBSTITUTE, PERCUTANEOUS ENDO ICD-10-PCS
Known clinically significant gastric emptying abnormality or bariatric surgery	0D164JA	PX	BYPASS STOMACH TO JEJUNUM WITH SYNTHETIC SUBSTITUTE, PERCUTANEOUS ENDOSC ICD-10-PCS
Known clinically significant gastric emptying abnormality or bariatric surgery	0D164JB	PX	BYPASS STOMACH TO ILEUM WITH SYNTHETIC SUBSTITUTE, PERCUTANEOUS ENDOSCOP ICD-10-PCS
Known clinically significant gastric emptying abnormality or bariatric surgery	0D164JL	PX	BYPASS STOMACH TO TRANSVERSE COLON WITH SYNTHETIC SUBSTITUTE, PERCUTANECICD-10-PCS
Known clinically significant gastric emptying abnormality or bariatric surgery	0D164K9	PX	BYPASS STOMACH TO DUODENUM WITH NONAUTOLOGOUS TISSUE SUBSTITUTE, PERCUT ICD-10-PCS
Known clinically significant gastric emptying abnormality or bariatric surgery	0D164KA	PX	BYPASS STOMACH TO JEJUNUM WITH NONAUTOLOGOUS TISSUE SUBSTITUTE, PERCUTAN ICD-10-PCS
Known clinically significant gastric emptying abnormality or bariatric surgery	0D164KB	PX	BYPASS STOMACH TO ILEUM WITH NONAUTOLOGOUS TISSUE SUBSTITUTE, PERCUTANECICD-10-PCS
Known clinically significant gastric emptying abnormality or bariatric surgery	0D164KL	PX	BYPASS STOMACH TO TRANSVERSE COLON WITH NONAUTOLOGOUS TISSUE SUBSTITUTE ICD-10-PCS
Known clinically significant gastric emptying abnormality or bariatric surgery	0D164Z9	PX	BYPASS STOMACH TO DUODENUM, PERCUTANEOUS ENDOSCOPIC APPROACH ICD-10-PCS
Known clinically significant gastric emptying abnormality or bariatric surgery	0D164ZA	PX	BYPASS STOMACH TO JEJUNUM, PERCUTANEOUS ENDOSCOPIC APPROACH ICD-10-PCS
Known clinically significant gastric emptying abnormality or bariatric surgery	0D164ZB	PX	BYPASS STOMACH TO ILEUM, PERCUTANEOUS ENDOSCOPIC APPROACH ICD-10-PCS
Known clinically significant gastric emptying abnormality or bariatric surgery	0D164ZL	PX	BYPASS STOMACH TO TRANSVERSE COLON, PERCUTANEOUS ENDOSCOPIC APPROACH ICD-10-PCS
Known clinically significant gastric emptying abnormality or bariatric surgery	0D16079	PX	BYPASS STOMACH TO DUODENUM WITH AUTOLOGOUS TISSUE SUBSTITUTE, OPEN APPR#ICD-10-PCS
Known clinically significant gastric emptying abnormality or bariatric surgery	0D160J9	PX	BYPASS STOMACH TO DUODENUM WITH SYNTHETIC SUBSTITUTE, OPEN APPROACH ICD-10-PCS
Known clinically significant gastric emptying abnormality or bariatric surgery	0D160K9	PX	BYPASS STOMACH TO DUODENUM WITH NONAUTOLOGOUS TISSUE SUBSTITUTE, OPEN AFICD-10-PCS
Known clinically significant gastric emptying abnormality or bariatric surgery	0D160Z9	PX	BYPASS STOMACH TO DUODENUM, OPEN APPROACH ICD-10-PCS
Known clinically significant gastric emptying abnormality or bariatric surgery	0D16879	PX	BYPASS STOMACH TO DUODENUM WITH AUTOLOGOUS TISSUE SUBSTITUTE, VIA NATURAL#ICD-10-PCS
Known clinically significant gastric emptying abnormality or bariatric surgery	0D168J9	PX	BYPASS STOMACH TO DUODENUM WITH SYNTHETIC SUBSTITUTE, VIA NATURAL OR ARTIF ICD-10-PCS
Known clinically significant gastric emptying abnormality or bariatric surgery	0D168K9	PX	BYPASS STOMACH TO DUODENUM WITH NONAUTOLOGOUS TISSUE SUBSTITUTE, VIA NAT#ICD-10-PCS
Known clinically significant gastric emptying abnormality or bariatric surgery	0D168Z9	PX	BYPASS STOMACH TO DUODENUM, VIA NATURAL OR ARTIFICIAL OPENING ENDOSCOPIC ICD-10-PCS
Known clinically significant gastric emptying abnormality or bariatric surgery	0DQ64ZZ	PX	REPAIR STOMACH, PERCUTANEOUS ENDOSCOPIC APPROACH ICD-10-PCS
Known clinically significant gastric emptying abnormality or bariatric surgery	43770	PX	LAPAROSCOPY, SURGICAL, GASTRIC RESTRICTIVE PROCEDURE: PLACEMENT OF ADJUST CPT/HCP#PCS

Known clinically significant gastric emptying abnormality or bariatric surgery		43644	PX	LAPAROSCOPY, SURGICAL, GASTRIC RESTRICTIVE PROCEDURE WITH GASTRIC BYPASS	CPT/HCPCS
Known clinically significant gastric emptying abnormality or bariatric surgery		43645	PX	LAPAROSCOPY, SURGICAL, GASTRIC RESTRICTIVE WITH GASTRIC BYPASS AND SMALL INTESTINE RECONSTRUCTION	CPT/HCPCS
Known clinically significant gastric emptying abnormality or bariatric surgery		43842	PX	GASTRIC RESTRICTIVE PROCEDURE, WITHOUT GASTRIC BYPASS, FOR MORBID OBESITY	CPT/HCPCS
Known clinically significant gastric emptying abnormality or bariatric surgery		43843	PX	OTHER GASTRIC RESTRICTIVE PROCEDURES, WITHOUT GASTRIC BYPASS, AND OTHER SMALL INTESTINE RECONSTRUCTION	CPT/HCPCS
Known clinically significant gastric emptying abnormality or bariatric surgery		43844	PX	LAPAROSCOPIC GASTRIC RESTRICTIVE PROCEDURE WITH GASTRIC BYPASS AND SMALL INTESTINE RECONSTRUCTION	CPT/HCPCS
Known clinically significant gastric emptying abnormality or bariatric surgery		43845	PX	GASTRIC RESTRICTIVE PROCEDURE WITH PARTIAL GASTRECTOMY, PYLORUS-PRESERVING	CPT/HCPCS
Known clinically significant gastric emptying abnormality or bariatric surgery		43846	PX	GASTRIC RESTRICTIVE PROCEDURE, WITH GASTRIC BYPASS, FOR MORBID OBESITY; WITH SMALL INTESTINE RECONSTRUCTION	CPT/HCPCS
Known clinically significant gastric emptying abnormality or bariatric surgery		43847	PX	GASTRIC RESTRICTIVE PROCEDURE, WITH SMALL INTESTINE RECONSTRUCTION TO LIMIT GASTRIC BYPASS	CPT/HCPCS
Known clinically significant gastric emptying abnormality or bariatric surgery		43659	PX	GASTRECTOMY, TOTAL; WITH ROUX-EN-Y RECONSTRUCTION; MINI-GASTRIC BYPASS	CPT/HCPCS
Known clinically significant gastric emptying abnormality or bariatric surgery	S2082		PX	LAPAROSCOPY, SURGICAL; GASTRIC RESTRICTIVE PROCEDURE, ADJUSTABLE GASTRIC BYPASS	CPT/HCPCS
Known clinically significant gastric emptying abnormality or bariatric surgery	S2085		PX	LAPAROSCOPIC GASTRIC BYPASS	CPT/HCPCS
Known clinically significant gastric emptying abnormality or bariatric surgery		43775	PX	LAPAROSCOPY, SURGICAL, GASTRIC RESTRICTIVE PROCEDURE; LONGITUDINAL GASTRIC BYPASS	CPT/HCPCS
Known clinically significant gastric emptying abnormality or bariatric surgery		43848	PX	REVISION RYGB	CPT/HCPCS
Liver disease (not including non-alcoholic fatty liver disease [NAFLD]) or ALT level $\geq 3X$ the ULN	C22		DX	MALIGNANT NEOPLASM OF LIVER AND INTRAHEPATIC BILE DUCTS	ICD-10-CM
Liver disease (not including non-alcoholic fatty liver disease [NAFLD]) or ALT level $\geq 3X$ the ULN	C22.0		DX	LIVER CELL CARCINOMA (HEPATOCELLULAR CARCINOMA, HEPATOMA)	ICD-10-CM
Liver disease (not including non-alcoholic fatty liver disease [NAFLD]) or ALT level $\geq 3X$ the ULN	C22.1		DX	INTRAHEPATIC BILE DUCT CARCINOMA (CHOLANGIOCARCINOMA)	ICD-10-CM
Liver disease (not including non-alcoholic fatty liver disease [NAFLD]) or ALT level $\geq 3X$ the ULN	C22.2		DX	HEPATOBLASTOMA	ICD-10-CM
Liver disease (not including non-alcoholic fatty liver disease [NAFLD]) or ALT level $\geq 3X$ the ULN	C22.3		DX	ANGIOSARCOMA OF LIVER (KUPFFER CELL SARCOMA)	ICD-10-CM
Liver disease (not including non-alcoholic fatty liver disease [NAFLD]) or ALT level $\geq 3X$ the ULN	C22.4		DX	OTHER SARCOMAS OF LIVER	ICD-10-CM
Liver disease (not including non-alcoholic fatty liver disease [NAFLD]) or ALT level $\geq 3X$ the ULN	C22.7		DX	OTHER SPECIFIED CARCINOMAS OF LIVER	ICD-10-CM
Liver disease (not including non-alcoholic fatty liver disease [NAFLD]) or ALT level $\geq 3X$ the ULN	C22.8		DX	MALIGNANT NEOPLASM OF LIVER, PRIMARY, UNSPECIFIED AS TO TYPE	ICD-10-CM
Liver disease (not including non-alcoholic fatty liver disease [NAFLD]) or ALT level $\geq 3X$ the ULN	C22.9		DX	MALIGNANT NEOPLASM OF LIVER, NOT SPECIFIED AS PRIMARY OR SECONDARY	ICD-10-CM
Liver disease (not including non-alcoholic fatty liver disease [NAFLD]) or ALT level $\geq 3X$ the ULN	K76.7		DX	HEPATORENAL SYNDROME	ICD-10-CM
Liver disease (not including non-alcoholic fatty liver disease [NAFLD]) or ALT level $\geq 3X$ the ULN	Z94.4		DX	LIVER TRANSPLANT STATUS	ICD-10-CM
Liver disease (not including non-alcoholic fatty liver disease [NAFLD]) or ALT level $\geq 3X$ the ULN	Z48.23		DX	ENCOUNTER FOR AFTERCARE FOLLOWING LIVER TRANSPLANT	ICD-10-CM
Liver disease (not including non-alcoholic fatty liver disease [NAFLD]) or ALT level $\geq 3X$ the ULN	T86.40		DX	UNSPECIFIED COMPLICATION OF LIVER TRANSPLANT	ICD-10-CM
Liver disease (not including non-alcoholic fatty liver disease [NAFLD]) or ALT level $\geq 3X$ the ULN	T86.41		DX	LIVER TRANSPLANT REJECTION	ICD-10-CM
Liver disease (not including non-alcoholic fatty liver disease [NAFLD]) or ALT level $\geq 3X$ the ULN	T86.42		DX	LIVER TRANSPLANT FAILURE	ICD-10-CM
Liver disease (not including non-alcoholic fatty liver disease [NAFLD]) or ALT level $\geq 3X$ the ULN	T86.43		DX	LIVER TRANSPLANT INFECTION	ICD-10-CM
Liver disease (not including non-alcoholic fatty liver disease [NAFLD]) or ALT level $\geq 3X$ the ULN	T86.49		DX	OTHER COMPLICATIONS OF LIVER TRANSPLANT	ICD-10-CM
Liver disease (not including non-alcoholic fatty liver disease [NAFLD]) or ALT level $\geq 3X$ the ULN	0FY00Z0		PX	TRANSPLANTATION OF LIVER, ALLOGENEIC, OPEN APPROACH	ICD-10-CM
Liver disease (not including non-alcoholic fatty liver disease [NAFLD]) or ALT level $\geq 3X$ the ULN	0FY00Z1		PX	TRANSPLANTATION OF LIVER, SYNGENEIC, OPEN APPROACH	ICD-10-CM
Liver disease (not including non-alcoholic fatty liver disease [NAFLD]) or ALT level $\geq 3X$ the ULN	0FY00Z2		PX	TRANSPLANTATION OF LIVER, ZOOPLASTIC, OPEN APPROACH	ICD-10-CM
Liver disease (not including non-alcoholic fatty liver disease [NAFLD]) or ALT level $\geq 3X$ the ULN	47135		PX	LIVER TRANSPLANTATION PROCEDURES	CPT/HCPCS
Liver disease (not including non-alcoholic fatty liver disease [NAFLD]) or ALT level $\geq 3X$ the ULN	E83.00		DX	DISORDER OF COPPER METABOLISM, UNSPECIFIED	ICD-10-CM
Liver disease (not including non-alcoholic fatty liver disease [NAFLD]) or ALT level $\geq 3X$ the ULN	E83.01		DX	WILSON'S DISEASE	ICD-10-CM
Liver disease (not including non-alcoholic fatty liver disease [NAFLD]) or ALT level $\geq 3X$ the ULN	E83.09		DX	OTHER DISORDERS OF COPPER METABOLISM	ICD-10-CM
Liver disease (not including non-alcoholic fatty liver disease [NAFLD]) or ALT level $\geq 3X$ the ULN	I82.0		DX	BUDD-CHIARI SYNDROME	ICD-10-CM

Liver disease (not including non-alcoholic fatty liver disease [NAFLD]) or ALT level \geq 3X the ULN	R18.0	DX	MALIGNANT ASCITES	ICD-10-CM
Liver disease (not including non-alcoholic fatty liver disease [NAFLD]) or ALT level \geq 3X the ULN	K70.2	DX	ALCOHOLIC FIBROSIS AND SCLEROSIS OF LIVER	ICD-10-CM
Liver disease (not including non-alcoholic fatty liver disease [NAFLD]) or ALT level \geq 3X the ULN	K70.3	DX	ALCOHOLIC CIRRHOSIS OF LIVER	ICD-10-CM
Liver disease (not including non-alcoholic fatty liver disease [NAFLD]) or ALT level \geq 3X the ULN	K70.30	DX	ALCOHOLIC CIRRHOSIS OF LIVER WITHOUT ASCITES	ICD-10-CM
Liver disease (not including non-alcoholic fatty liver disease [NAFLD]) or ALT level \geq 3X the ULN	K70.31	DX	ALCOHOLIC CIRRHOSIS OF LIVER WITH ASCITES	ICD-10-CM
Liver disease (not including non-alcoholic fatty liver disease [NAFLD]) or ALT level \geq 3X the ULN	K70.4	DX	ALCOHOLIC HEPATIC FAILURE	ICD-10-CM
Liver disease (not including non-alcoholic fatty liver disease [NAFLD]) or ALT level \geq 3X the ULN	K70.40	DX	ALCOHOLIC HEPATIC FAILURE WITHOUT COMA	ICD-10-CM
Liver disease (not including non-alcoholic fatty liver disease [NAFLD]) or ALT level \geq 3X the ULN	K70.41	DX	ALCOHOLIC HEPATIC FAILURE WITH COMA	ICD-10-CM
Liver disease (not including non-alcoholic fatty liver disease [NAFLD]) or ALT level \geq 3X the ULN	K71	DX	TOXIC LIVER DISEASE INCLUDES DRUG-INDUCED IDIOSYNCRATIC OR TOXIC LIVER DISEASES	ICD-10-CM
Liver disease (not including non-alcoholic fatty liver disease [NAFLD]) or ALT level \geq 3X the ULN	K71.0	DX	TOXIC LIVER DISEASE WITH CHOLESTASIS	ICD-10-CM
Liver disease (not including non-alcoholic fatty liver disease [NAFLD]) or ALT level \geq 3X the ULN	K71.1	DX	TOXIC LIVER DISEASE WITH HEPATIC NECROSIS	ICD-10-CM
Liver disease (not including non-alcoholic fatty liver disease [NAFLD]) or ALT level \geq 3X the ULN	K71.10	DX	TOXIC LIVER DISEASE WITH HEPATIC NECROSIS, WITHOUT COMA	ICD-10-CM
Liver disease (not including non-alcoholic fatty liver disease [NAFLD]) or ALT level \geq 3X the ULN	K71.11	DX	TOXIC LIVER DISEASE WITH HEPATIC NECROSIS, WITH COMA	ICD-10-CM
Liver disease (not including non-alcoholic fatty liver disease [NAFLD]) or ALT level \geq 3X the ULN	K71.2	DX	TOXIC LIVER DISEASE WITH ACUTE HEPATITIS	ICD-10-CM
Liver disease (not including non-alcoholic fatty liver disease [NAFLD]) or ALT level \geq 3X the ULN	K71.3	DX	TOXIC LIVER DISEASE WITH CHRONIC PERSISTENT HEPATITIS	ICD-10-CM
Liver disease (not including non-alcoholic fatty liver disease [NAFLD]) or ALT level \geq 3X the ULN	K71.4	DX	TOXIC LIVER DISEASE WITH CHRONIC LOBULAR HEPATITIS	ICD-10-CM
Liver disease (not including non-alcoholic fatty liver disease [NAFLD]) or ALT level \geq 3X the ULN	K71.5	DX	TOXIC LIVER DISEASE WITH CHRONIC ACTIVE HEPATITIS	ICD-10-CM
Liver disease (not including non-alcoholic fatty liver disease [NAFLD]) or ALT level \geq 3X the ULN	K71.50	DX	TOXIC LIVER DISEASE WITH CHRONIC ACTIVE HEPATITIS WITHOUT ASCITES	ICD-10-CM
Liver disease (not including non-alcoholic fatty liver disease [NAFLD]) or ALT level \geq 3X the ULN	K71.51	DX	TOXIC LIVER DISEASE WITH CHRONIC ACTIVE HEPATITIS WITH ASCITES	ICD-10-CM
Liver disease (not including non-alcoholic fatty liver disease [NAFLD]) or ALT level \geq 3X the ULN	K71.6	DX	TOXIC LIVER DISEASE WITH HEPATITIS, NOT ELSEWHERE CLASSIFIED	ICD-10-CM
Liver disease (not including non-alcoholic fatty liver disease [NAFLD]) or ALT level \geq 3X the ULN	K71.7	DX	TOXIC LIVER DISEASE WITH FIBROSIS AND CIRRHOSIS OF LIVER	ICD-10-CM
Liver disease (not including non-alcoholic fatty liver disease [NAFLD]) or ALT level \geq 3X the ULN	K71.8	DX	TOXIC LIVER DISEASE WITH OTHER DISORDERS OF LIVER	ICD-10-CM
Liver disease (not including non-alcoholic fatty liver disease [NAFLD]) or ALT level \geq 3X the ULN	K71.9	DX	TOXIC LIVER DISEASE, UNSPECIFIED	ICD-10-CM
Liver disease (not including non-alcoholic fatty liver disease [NAFLD]) or ALT level \geq 3X the ULN	K72	DX	HEPATIC FAILURE, NOT ELSEWHERE CLASSIFIED	ICD-10-CM
Liver disease (not including non-alcoholic fatty liver disease [NAFLD]) or ALT level \geq 3X the ULN	K72.0	DX	ACUTE AND SUBACUTE HEPATIC FAILURE	ICD-10-CM
Liver disease (not including non-alcoholic fatty liver disease [NAFLD]) or ALT level \geq 3X the ULN	K72.00	DX	ACUTE AND SUBACUTE HEPATIC FAILURE WITHOUT COMA	ICD-10-CM
Liver disease (not including non-alcoholic fatty liver disease [NAFLD]) or ALT level \geq 3X the ULN	K72.01	DX	ACUTE AND SUBACUTE HEPATIC FAILURE WITH COMA	ICD-10-CM
Liver disease (not including non-alcoholic fatty liver disease [NAFLD]) or ALT level \geq 3X the ULN	K72.1	DX	CHRONIC HEPATIC FAILURE	ICD-10-CM
Liver disease (not including non-alcoholic fatty liver disease [NAFLD]) or ALT level \geq 3X the ULN	K72.10	DX	CHRONIC HEPATIC FAILURE WITHOUT COMA	ICD-10-CM
Liver disease (not including non-alcoholic fatty liver disease [NAFLD]) or ALT level \geq 3X the ULN	K72.11	DX	CHRONIC HEPATIC FAILURE WITH COMA	ICD-10-CM
Liver disease (not including non-alcoholic fatty liver disease [NAFLD]) or ALT level \geq 3X the ULN	K72.9	DX	HEPATIC FAILURE, UNSPECIFIED	ICD-10-CM
Liver disease (not including non-alcoholic fatty liver disease [NAFLD]) or ALT level \geq 3X the ULN	K72.90	DX	HEPATIC FAILURE, UNSPECIFIED WITHOUT COMA	ICD-10-CM
Liver disease (not including non-alcoholic fatty liver disease [NAFLD]) or ALT level \geq 3X the ULN	K72.91	DX	HEPATIC FAILURE, UNSPECIFIED WITH COMA	ICD-10-CM
Liver disease (not including non-alcoholic fatty liver disease [NAFLD]) or ALT level \geq 3X the ULN	K73	DX	CHRONIC HEPATITIS, NOT ELSEWHERE CLASSIFIED	ICD-10-CM
Liver disease (not including non-alcoholic fatty liver disease [NAFLD]) or ALT level \geq 3X the ULN	K73.0	DX	CHRONIC PERSISTENT HEPATITIS, NOT ELSEWHERE CLASSIFIED	ICD-10-CM
Liver disease (not including non-alcoholic fatty liver disease [NAFLD]) or ALT level \geq 3X the ULN	K73.1	DX	CHRONIC LOBULAR HEPATITIS, NOT ELSEWHERE CLASSIFIED	ICD-10-CM
Liver disease (not including non-alcoholic fatty liver disease [NAFLD]) or ALT level \geq 3X the ULN	K73.2	DX	CHRONIC ACTIVE HEPATITIS, NOT ELSEWHERE CLASSIFIED	ICD-10-CM
Liver disease (not including non-alcoholic fatty liver disease [NAFLD]) or ALT level \geq 3X the ULN	K73.8	DX	OTHER CHRONIC HEPATITIS, NOT ELSEWHERE CLASSIFIED	ICD-10-CM

Liver disease (not including non-alcoholic fatty liver disease [NAFLD]) or ALT level \geq 3X the ULN	K73.9	DX	CHRONIC HEPATITIS, UNSPECIFIED	ICD-10-CM
Liver disease (not including non-alcoholic fatty liver disease [NAFLD]) or ALT level \geq 3X the ULN	K74	DX	FIBROSIS AND CIRRHOSIS OF LIVER	ICD-10-CM
Liver disease (not including non-alcoholic fatty liver disease [NAFLD]) or ALT level \geq 3X the ULN	K74.0	DX	HEPATIC FIBROSIS	ICD-10-CM
Liver disease (not including non-alcoholic fatty liver disease [NAFLD]) or ALT level \geq 3X the ULN	K74.02	DX	HEPATIC FIBROSIS, ADVANCED FIBROSIS	ICD-10-CM
Liver disease (not including non-alcoholic fatty liver disease [NAFLD]) or ALT level \geq 3X the ULN	K74.1	DX	HEPATIC SCLEROSIS	ICD-10-CM
Liver disease (not including non-alcoholic fatty liver disease [NAFLD]) or ALT level \geq 3X the ULN	K74.2	DX	HEPATIC FIBROSIS WITH HEPATIC SCLEROSIS	ICD-10-CM
Liver disease (not including non-alcoholic fatty liver disease [NAFLD]) or ALT level \geq 3X the ULN	K74.3	DX	PRIMARY BILIARY CIRRHOSIS	ICD-10-CM
Liver disease (not including non-alcoholic fatty liver disease [NAFLD]) or ALT level \geq 3X the ULN	K74.4	DX	SECONDARY BILIARY CIRRHOSIS	ICD-10-CM
Liver disease (not including non-alcoholic fatty liver disease [NAFLD]) or ALT level \geq 3X the ULN	K74.5	DX	BILIARY CIRRHOSIS, UNSPECIFIED	ICD-10-CM
Liver disease (not including non-alcoholic fatty liver disease [NAFLD]) or ALT level \geq 3X the ULN	K74.6	DX	OTHER AND UNSPECIFIED CIRRHOSIS OF LIVER	ICD-10-CM
Liver disease (not including non-alcoholic fatty liver disease [NAFLD]) or ALT level \geq 3X the ULN	K74.60	DX	UNSPECIFIED CIRRHOSIS OF LIVER	ICD-10-CM
Liver disease (not including non-alcoholic fatty liver disease [NAFLD]) or ALT level \geq 3X the ULN	K74.69	DX	OTHER CIRRHOSIS OF LIVER	ICD-10-CM
Liver disease (not including non-alcoholic fatty liver disease [NAFLD]) or ALT level \geq 3X the ULN	K75.2	DX	NONSPECIFIC REACTIVE HEPATITIS	ICD-10-CM
Liver disease (not including non-alcoholic fatty liver disease [NAFLD]) or ALT level \geq 3X the ULN	K75.3	DX	GRANULOMATOUS HEPATITIS, NOT ELSEWHERE CLASSIFIED	ICD-10-CM
Liver disease (not including non-alcoholic fatty liver disease [NAFLD]) or ALT level \geq 3X the ULN	K75.4	DX	AUTOIMMUNE HEPATITIS	ICD-10-CM
Liver disease (not including non-alcoholic fatty liver disease [NAFLD]) or ALT level \geq 3X the ULN	K76.1	DX	CHRONIC PASSIVE CONGESTION OF LIVER (CARDIAC CIRRHOSIS OR SCLEROSIS)	ICD-10-CM
Liver disease (not including non-alcoholic fatty liver disease [NAFLD]) or ALT level \geq 3X the ULN	K76.2	DX	CENTRAL HEMORRHAGIC NECROSIS OF LIVER	ICD-10-CM
Liver disease (not including non-alcoholic fatty liver disease [NAFLD]) or ALT level \geq 3X the ULN	K76.3	DX	INFARCTION OF LIVER	ICD-10-CM
Liver disease (not including non-alcoholic fatty liver disease [NAFLD]) or ALT level \geq 3X the ULN	K76.4	DX	PELIOSIS HEPATIS (HEPATIC ANGIOMATOSIS)	ICD-10-CM
Liver disease (not including non-alcoholic fatty liver disease [NAFLD]) or ALT level \geq 3X the ULN	K76.5	DX	HEPATIC VENO-OCCLUSIVE DISEASE	ICD-10-CM
Liver disease (not including non-alcoholic fatty liver disease [NAFLD]) or ALT level \geq 3X the ULN	K76.7	DX	HEPATORENAL SYNDROME	ICD-10-CM
Liver disease (not including non-alcoholic fatty liver disease [NAFLD]) or ALT level \geq 3X the ULN	K76.81	DX	HEPATOPULMONARY SYNDROME	ICD-10-CM
Liver disease (not including non-alcoholic fatty liver disease [NAFLD]) or ALT level \geq 3X the ULN	K76.82	DX	HEPATIC ENCEPHALOPATHY	ICD-10-CM
eGFR <15 mL/Min/1.73 m2 or on chronic dialysis	N18.5	DX	CHRONIC KIDNEY DISEASE, STAGE 5	ICD-10-CM
eGFR <15 mL/Min/1.73 m2 or on chronic dialysis	N18.6	DX	END STAGE RENAL DISEASE	ICD-10-CM
eGFR <15 mL/Min/1.73 m2 or on chronic dialysis	I12.0	DX	HYPERTENSIVE CHRONIC KIDNEY DISEASE WITH STAGE 5 CHRONIC KIDNEY DISEASE OR END STAGE RENAL DISEASE	ICD-10-CM
eGFR <15 mL/Min/1.73 m2 or on chronic dialysis	I13.2	DX	HYPERTENSIVE HEART AND CHRONIC KIDNEY DISEASE WITH HEART FAILURE AND WITH STAGE 5 CHRONIC KIDNEY DISEASE OR END STAGE RENAL DISEASE	ICD-10-CM
eGFR <15 mL/Min/1.73 m2 or on chronic dialysis	Z49	DX	ENCOUNTER FOR CARE INVOLVING RENAL DIALYSIS	ICD-10-CM
eGFR <15 mL/Min/1.73 m2 or on chronic dialysis	Z49.0	DX	PREPARATORY CARE FOR RENAL DIALYSIS	ICD-10-CM
eGFR <15 mL/Min/1.73 m2 or on chronic dialysis	Z49.3	DX	ENCOUNTER FOR ADEQUACY TESTING FOR DIALYSIS	ICD-10-CM
eGFR <15 mL/Min/1.73 m2 or on chronic dialysis	Z49.31	DX	ENCOUNTER FOR ADEQUACY TESTING FOR HEMODIALYSIS	ICD-10-CM
eGFR <15 mL/Min/1.73 m2 or on chronic dialysis	Z49.32	DX	ENCOUNTER FOR ADEQUACY TESTING FOR PERITONEAL DIALYSIS	ICD-10-CM
eGFR <15 mL/Min/1.73 m2 or on chronic dialysis	Z49.01	DX	ENCOUNTER FOR FITTING AND ADJUSTMENT OF EXTRACORPOREAL DIALYSIS CATHETER	ICD-10-CM
eGFR <15 mL/Min/1.73 m2 or on chronic dialysis	Z49.02	DX	ENCOUNTER FOR FITTING AND ADJUSTMENT OF PERITONEAL DIALYSIS CATHETER	ICD-10-CM
eGFR <15 mL/Min/1.73 m2 or on chronic dialysis	Z91.15	DX	PATIENT'S NONCOMPLIANCE WITH RENAL DIALYSIS	ICD-10-CM
eGFR <15 mL/Min/1.73 m2 or on chronic dialysis	Z99.2	DX	DEPENDENCE ON RENAL DIALYSIS	ICD-10-CM
eGFR <15 mL/Min/1.73 m2 or on chronic dialysis	R88.0	DX	CLOUDY (HEMODIALYSIS) (PERITONEAL) DIALYSIS EFFLUENT	ICD-10-CM
eGFR <15 mL/Min/1.73 m2 or on chronic dialysis	T82.41	DX	BREAKDOWN (MECHANICAL) OF VASCULAR DIALYSIS CATHETER	ICD-10-CM
eGFR <15 mL/Min/1.73 m2 or on chronic dialysis	T82.41XA	DX	BREAKDOWN (MECHANICAL) OF VASCULAR DIALYSIS CATHETER, INITIAL ENCOUNTER	ICD-10-CM
eGFR <15 mL/Min/1.73 m2 or on chronic dialysis	T82.41XD	DX	BREAKDOWN (MECHANICAL) OF VASCULAR DIALYSIS CATHETER, SUBSEQUENT ENCOUNTER	ICD-10-CM
eGFR <15 mL/Min/1.73 m2 or on chronic dialysis	T82.41XS	DX	BREAKDOWN (MECHANICAL) OF VASCULAR DIALYSIS CATHETER, SEQUELA	ICD-10-CM
eGFR <15 mL/Min/1.73 m2 or on chronic dialysis	T82.42	DX	DISPLACEMENT OF VASCULAR DIALYSIS CATHETER	ICD-10-CM
eGFR <15 mL/Min/1.73 m2 or on chronic dialysis	T82.42XA	DX	DISPLACEMENT OF VASCULAR DIALYSIS CATHETER, INITIAL ENCOUNTER	ICD-10-CM
eGFR <15 mL/Min/1.73 m2 or on chronic dialysis	T82.42XD	DX	DISPLACEMENT OF VASCULAR DIALYSIS CATHETER, SUBSEQUENT ENCOUNTER	ICD-10-CM
eGFR <15 mL/Min/1.73 m2 or on chronic dialysis	T82.42XS	DX	DISPLACEMENT OF VASCULAR DIALYSIS CATHETER, SEQUELA	ICD-10-CM
eGFR <15 mL/Min/1.73 m2 or on chronic dialysis	T82.43	DX	LEAKAGE OF VASCULAR DIALYSIS CATHETER	ICD-10-CM
eGFR <15 mL/Min/1.73 m2 or on chronic dialysis	T82.43XA	DX	LEAKAGE OF VASCULAR DIALYSIS CATHETER, INITIAL ENCOUNTER	ICD-10-CM
eGFR <15 mL/Min/1.73 m2 or on chronic dialysis	T82.43XD	DX	LEAKAGE OF VASCULAR DIALYSIS CATHETER, SUBSEQUENT ENCOUNTER	ICD-10-CM
eGFR <15 mL/Min/1.73 m2 or on chronic dialysis	T82.43XS	DX	LEAKAGE OF VASCULAR DIALYSIS CATHETER, SEQUELA	ICD-10-CM
eGFR <15 mL/Min/1.73 m2 or on chronic dialysis	T82.49	DX	OTHER COMPLICATION OF VASCULAR DIALYSIS CATHETER	ICD-10-CM
eGFR <15 mL/Min/1.73 m2 or on chronic dialysis	T82.49XA	DX	OTHER COMPLICATION OF VASCULAR DIALYSIS CATHETER, INITIAL ENCOUNTER	ICD-10-CM
eGFR <15 mL/Min/1.73 m2 or on chronic dialysis	T82.49XD	DX	OTHER COMPLICATION OF VASCULAR DIALYSIS CATHETER, SUBSEQUENT ENCOUNTER	ICD-10-CM
eGFR <15 mL/Min/1.73 m2 or on chronic dialysis	T82.49XS	DX	OTHER COMPLICATION OF VASCULAR DIALYSIS CATHETER, SEQUELA	ICD-10-CM

14 eGFR <15 mL/Min/1.73 m2 or on chronic dialysis	T85.611	DX	BREAKDOWN (MECHANICAL) OF INTRAPERITONEAL DIALYSIS CATHETER	ICD-10-CM
14 eGFR <15 mL/Min/1.73 m2 or on chronic dialysis	T85.611A	DX	BREAKDOWN (MECHANICAL) OF INTRAPERITONEAL DIALYSIS CATHETER, INITIAL ENCOUNTER	ICD-10-CM
14 eGFR <15 mL/Min/1.73 m2 or on chronic dialysis	T85.611D	DX	BREAKDOWN (MECHANICAL) OF INTRAPERITONEAL DIALYSIS CATHETER, SUBSEQUENT ENCOUNTER	ICD-10-CM
14 eGFR <15 mL/Min/1.73 m2 or on chronic dialysis	T85.611S	DX	BREAKDOWN (MECHANICAL) OF INTRAPERITONEAL DIALYSIS CATHETER, SEQUELA	ICD-10-CM
14 eGFR <15 mL/Min/1.73 m2 or on chronic dialysis	T85.621	DX	DISPLACEMENT OF INTRAPERITONEAL DIALYSIS CATHETER	ICD-10-CM
14 eGFR <15 mL/Min/1.73 m2 or on chronic dialysis	T85.621A	DX	DISPLACEMENT OF INTRAPERITONEAL DIALYSIS CATHETER, INITIAL ENCOUNTER	ICD-10-CM
14 eGFR <15 mL/Min/1.73 m2 or on chronic dialysis	T85.621D	DX	DISPLACEMENT OF INTRAPERITONEAL DIALYSIS CATHETER, SUBSEQUENT ENCOUNTER	ICD-10-CM
14 eGFR <15 mL/Min/1.73 m2 or on chronic dialysis	T85.621S	DX	DISPLACEMENT OF INTRAPERITONEAL DIALYSIS CATHETER, SEQUELA	ICD-10-CM
14 eGFR <15 mL/Min/1.73 m2 or on chronic dialysis	T85.631	DX	LEAKAGE OF INTRAPERITONEAL DIALYSIS CATHETER	ICD-10-CM
14 eGFR <15 mL/Min/1.73 m2 or on chronic dialysis	T85.631A	DX	LEAKAGE OF INTRAPERITONEAL DIALYSIS CATHETER, INITIAL ENCOUNTER	ICD-10-CM
14 eGFR <15 mL/Min/1.73 m2 or on chronic dialysis	T85.631D	DX	LEAKAGE OF INTRAPERITONEAL DIALYSIS CATHETER, SUBSEQUENT ENCOUNTER	ICD-10-CM
14 eGFR <15 mL/Min/1.73 m2 or on chronic dialysis	T85.631S	DX	LEAKAGE OF INTRAPERITONEAL DIALYSIS CATHETER, SEQUELA	ICD-10-CM
14 eGFR <15 mL/Min/1.73 m2 or on chronic dialysis	T85.691	DX	OTHER MECHANICAL COMPLICATION OF INTRAPERITONEAL DIALYSIS CATHETER	ICD-10-CM
14 eGFR <15 mL/Min/1.73 m2 or on chronic dialysis	T85.691A	DX	OTHER MECHANICAL COMPLICATION OF INTRAPERITONEAL DIALYSIS CATHETER, INITIAL ENCOUNTER	ICD-10-CM
14 eGFR <15 mL/Min/1.73 m2 or on chronic dialysis	T85.691D	DX	OTHER MECHANICAL COMPLICATION OF INTRAPERITONEAL DIALYSIS CATHETER, SUBSEQUENT ENCOUNTER	ICD-10-CM
14 eGFR <15 mL/Min/1.73 m2 or on chronic dialysis	T85.691S	DX	OTHER MECHANICAL COMPLICATION OF INTRAPERITONEAL DIALYSIS CATHETER, SEQUELA	ICD-10-CM
14 eGFR <15 mL/Min/1.73 m2 or on chronic dialysis	T85.71	DX	INFECTION AND INFLAMMATORY REACTION DUE TO PERITONEAL DIALYSIS CATHETER	ICD-10-CM
14 eGFR <15 mL/Min/1.73 m2 or on chronic dialysis	T85.71XA	DX	INFECTION AND INFLAMMATORY REACTION DUE TO PERITONEAL DIALYSIS CATHETER, INITIAL ENCOUNTER	ICD-10-CM
14 eGFR <15 mL/Min/1.73 m2 or on chronic dialysis	T85.71XD	DX	INFECTION AND INFLAMMATORY REACTION DUE TO PERITONEAL DIALYSIS CATHETER, SUBSEQUENT ENCOUNTER	ICD-10-CM
14 eGFR <15 mL/Min/1.73 m2 or on chronic dialysis	T85.71XS	DX	INFECTION AND INFLAMMATORY REACTION DUE TO PERITONEAL DIALYSIS CATHETER, SEQUELA	ICD-10-CM
14 eGFR <15 mL/Min/1.73 m2 or on chronic dialysis	Y84.1	DX	KIDNEY DIALYSIS AS THE CAUSE OF ABNORMAL REACTION OF THE PATIENT, OR OF LATER ICD-10-CM	ICD-10-CM
14 eGFR <15 mL/Min/1.73 m2 or on chronic dialysis	Z94.0	DX	KIDNEY TRANSPLANT STATUS	ICD-10-CM
14 eGFR <15 mL/Min/1.73 m2 or on chronic dialysis	T86.1	DX	COMPLICATIONS OF KIDNEY TRANSPLANT	ICD-10-CM
14 eGFR <15 mL/Min/1.73 m2 or on chronic dialysis	T86.10	DX	UNSPECIFIED COMPLICATION OF KIDNEY TRANSPLANT	ICD-10-CM
14 eGFR <15 mL/Min/1.73 m2 or on chronic dialysis	T86.11	DX	KIDNEY TRANSPLANT REJECTION	ICD-10-CM
14 eGFR <15 mL/Min/1.73 m2 or on chronic dialysis	T86.12	DX	KIDNEY TRANSPLANT FAILURE	ICD-10-CM
14 eGFR <15 mL/Min/1.73 m2 or on chronic dialysis	T86.13	DX	KIDNEY TRANSPLANT INFECTION	ICD-10-CM
14 eGFR <15 mL/Min/1.73 m2 or on chronic dialysis	T86.19	DX	OTHER COMPLICATION OF KIDNEY TRANSPLANT	ICD-10-CM
14 eGFR <15 mL/Min/1.73 m2 or on chronic dialysis	Z48.22	DX	ENCOUNTER FOR AFTERCARE FOLLOWING KIDNEY TRANSPLANT	ICD-10-CM
14 eGFR <15 mL/Min/1.73 m2 or on chronic dialysis	5A1D70Z	PX	PERFORMANCE OF URINARY FILTRATION, INTERMITTENT, LESS THAN 6 HOURS PER DAY	ICD-10-CM
14 eGFR <15 mL/Min/1.73 m2 or on chronic dialysis	5A1D80Z	PX	PERFORMANCE OF URINARY FILTRATION, PROLONGED INTERMITTENT, 6-18 HOURS PER DAY	ICD-10-CM
14 eGFR <15 mL/Min/1.73 m2 or on chronic dialysis	5A1D90Z	PX	PERFORMANCE OF URINARY FILTRATION, CONTINUOUS, GREATER THAN 18 HOURS PER DAY	ICD-10-CM
14 eGFR <15 mL/Min/1.73 m2 or on chronic dialysis	5A1D00Z	PX	PERFORMANCE OF URINARY FILTRATION, SINGLE	ICD-10-CM
14 eGFR <15 mL/Min/1.73 m2 or on chronic dialysis	5A1D60Z	PX	PERFORMANCE OF URINARY FILTRATION, MULTIPLE	ICD-10-CM
14 eGFR <15 mL/Min/1.73 m2 or on chronic dialysis	3E1M39Z	PX	IRRIGATION OF PERITONEAL CAVITY USING DIALYSATE, PERCUTANEOUS APPROACH	ICD-10-CM
14 eGFR <15 mL/Min/1.73 m2 or on chronic dialysis	0TY0020	PX	TRANSPLANTATION OF RIGHT KIDNEY, ALLOGENEIC, OPEN APPROACH	ICD-10-CM
14 eGFR <15 mL/Min/1.73 m2 or on chronic dialysis	0TY0021	PX	TRANSPLANTATION OF RIGHT KIDNEY, SYNGENEIC, OPEN APPROACH	ICD-10-CM
14 eGFR <15 mL/Min/1.73 m2 or on chronic dialysis	0TY0022	PX	TRANSPLANTATION OF RIGHT KIDNEY, ZOOPLASTIC, OPEN APPROACH	ICD-10-CM
14 eGFR <15 mL/Min/1.73 m2 or on chronic dialysis	0TY1020	PX	TRANSPLANTATION OF LEFT KIDNEY, ALLOGENEIC, OPEN APPROACH	ICD-10-CM
14 eGFR <15 mL/Min/1.73 m2 or on chronic dialysis	0TY1021	PX	TRANSPLANTATION OF LEFT KIDNEY, SYNGENEIC, OPEN APPROACH	ICD-10-CM
14 eGFR <15 mL/Min/1.73 m2 or on chronic dialysis	0TY1022	PX	TRANSPLANTATION OF LEFT KIDNEY, ZOOPLASTIC, OPEN APPROACH	ICD-10-CM
14 eGFR <15 mL/Min/1.73 m2 or on chronic dialysis	0TS002Z	PX	REPOSITION RIGHT KIDNEY, OPEN APPROACH	ICD-10-CM
14 eGFR <15 mL/Min/1.73 m2 or on chronic dialysis	0TS102Z	PX	REPOSITION LEFT KIDNEY, OPEN APPROACH	ICD-10-CM
14 eGFR <15 mL/Min/1.73 m2 or on chronic dialysis	90989	PX	DIALYSIS TRAINING, PATIENT, INCLUDING HELPER WHERE APPLICABLE, ANY MODE, COMFORTABLE	CPT/HCPCS
14 eGFR <15 mL/Min/1.73 m2 or on chronic dialysis	90993	PX	DIALYSIS TRAINING, PATIENT, INCLUDING HELPER WHERE APPLICABLE, ANY MODE, COMFORTABLE	CPT/HCPCS
14 eGFR <15 mL/Min/1.73 m2 or on chronic dialysis	90999	PX	UNLISTED DIALYSIS PROCEDURE, INPATIENT OR OUTPATIENT	CPT/HCPCS
14 eGFR <15 mL/Min/1.73 m2 or on chronic dialysis	99512	PX	HOME VISIT FOR HEMODIALYSIS	CPT/HCPCS
14 eGFR <15 mL/Min/1.73 m2 or on chronic dialysis	99559	PX	HOME INFUSION OF PERITONEAL DIALYSIS, PER DIEM / HOME INFUSION OF PERITONEAL DIALYSIS	CPT/HCPCS
14 eGFR <15 mL/Min/1.73 m2 or on chronic dialysis	90925	PX	END STAGE RENAL DISEASE (ESRD) RELATED SERVICES (LESS THAN FULL MONTH), PER DAY	CPT/HCPCS
14 eGFR <15 mL/Min/1.73 m2 or on chronic dialysis	50360	PX	RENAL ALLOTTRANSPLANTATION, IMPLANTATION OF GRAFT; WITHOUT RECIPIENT NEPHRECTOMY	CPT/HCPCS
14 eGFR <15 mL/Min/1.73 m2 or on chronic dialysis	50365	PX	RENAL ALLOTTRANSPLANTATION, IMPLANTATION OF GRAFT; WITH RECIPIENT NEPHRECTOMY	CPT/HCPCS
14 eGFR <15 mL/Min/1.73 m2 or on chronic dialysis	50370	PX	REMOVAL OF TRANSPLANTED RENAL ALLOGRAFT	CPT/HCPCS
14 eGFR <15 mL/Min/1.73 m2 or on chronic dialysis	50380	PX	RENAL AUTOTRANSPLANTATION, REIMPLANTATION OF KIDNEY	CPT/HCPCS
14 eGFR <15 mL/Min/1.73 m2 or on chronic dialysis	G0257	PX	UNSCHEDULED OR EMERGENCY DIALYSIS TREATMENT FOR AN ESRD PATIENT IN A HOSPITAL	CPT/HCPCS
14 eGFR <15 mL/Min/1.73 m2 or on chronic dialysis	G0319	PX	END STAGE RENAL DISEASE (ESRD) RELATED SERVICES DURING THE COURSE OF TREATMENT	CPT/HCPCS
14 eGFR <15 mL/Min/1.73 m2 or on chronic dialysis	G0326	PX	END STAGE RENAL DISEASE (ESRD) RELATED SERVICES FOR HOME DIALYSIS (LESS THAN 1 MONTH)	CPT/HCPCS
14 eGFR <15 mL/Min/1.73 m2 or on chronic dialysis	S9335	PX	HOME THERAPY, HEMODIALYSIS; ADMINISTRATIVE SERVICES, PROFESSIONAL PHARMACOLOGICAL	CPT/HCPCS
14 eGFR <15 mL/Min/1.73 m2 or on chronic dialysis	90920	PX	END STAGE RENAL DISEASE (ESRD) RELATED SERVICES PER FULL MONTH; FOR PATIENTS ON CPT/HCPCS	CPT/HCPCS
14 eGFR <15 mL/Min/1.73 m2 or on chronic dialysis	90921	PX	END STAGE RENAL DISEASE (ESRD) RELATED SERVICES PER FULL MONTH; FOR PATIENTS ON CPT/HCPCS	CPT/HCPCS
14 eGFR <15 mL/Min/1.73 m2 or on chronic dialysis	90924	PX	END STAGE RENAL DISEASE (ESRD) RELATED SERVICES (LESS THAN FULL MONTH), PER DAY	CPT/HCPCS
14 eGFR <15 mL/Min/1.73 m2 or on chronic dialysis	90925	PX	END STAGE RENAL DISEASE (ESRD) RELATED SERVICES (LESS THAN FULL MONTH), PER DAY	CPT/HCPCS
14 eGFR <15 mL/Min/1.73 m2 or on chronic dialysis	90935	PX	HEMODIALYSIS PROCEDURE WITH SINGLE EVALUATION BY A PHYSICIAN OR OTHER QUALIFIED	CPT/HCPCS
14 eGFR <15 mL/Min/1.73 m2 or on chronic dialysis	90937	PX	HEMODIALYSIS PROCEDURE REQUIRING REPEATED EVALUATION(S) WITH OR WITHOUT SINGLE	CPT/HCPCS
14 eGFR <15 mL/Min/1.73 m2 or on chronic dialysis	90939	PX	HEMODIALYSIS ACCESS FLOW STUDY TO DETERMINE BLOOD FLOW IN GRAFTS AND ARTERIES	CPT/HCPCS
14 eGFR <15 mL/Min/1.73 m2 or on chronic dialysis	90940	PX	HEMODIALYSIS ACCESS FLOW STUDY TO DETERMINE BLOOD FLOW IN GRAFTS AND ARTERIES	CPT/HCPCS
14 eGFR <15 mL/Min/1.73 m2 or on chronic dialysis	90945	PX	DIALYSIS PROCEDURE OTHER THAN HEMODIALYSIS (EG, PERITONEAL DIALYSIS, HEMOFILTRATION)	CPT/HCPCS
14 eGFR <15 mL/Min/1.73 m2 or on chronic dialysis	90947	PX	DIALYSIS PROCEDURE OTHER THAN HEMODIALYSIS (EG, PERITONEAL DIALYSIS, HEMOFILTRATION)	CPT/HCPCS
14 eGFR <15 mL/Min/1.73 m2 or on chronic dialysis	90957	PX	END-STAGE RENAL DISEASE (ESRD) RELATED SERVICES MONTHLY, FOR PATIENTS 12-19 YEARS	CPT/HCPCS
14 eGFR <15 mL/Min/1.73 m2 or on chronic dialysis	90958	PX	END-STAGE RENAL DISEASE (ESRD) RELATED SERVICES MONTHLY, FOR PATIENTS 12-19 YEARS	CPT/HCPCS
14 eGFR <15 mL/Min/1.73 m2 or on chronic dialysis	90959	PX	END-STAGE RENAL DISEASE (ESRD) RELATED SERVICES MONTHLY, FOR PATIENTS 12-19 YEARS	CPT/HCPCS
14 eGFR <15 mL/Min/1.73 m2 or on chronic dialysis	90960	PX	END-STAGE RENAL DISEASE (ESRD) RELATED SERVICES MONTHLY, FOR PATIENTS 20 YEARS	CPT/HCPCS
14 eGFR <15 mL/Min/1.73 m2 or on chronic dialysis	90961	PX	END-STAGE RENAL DISEASE (ESRD) RELATED SERVICES MONTHLY, FOR PATIENTS 20 YEARS	CPT/HCPCS
14 eGFR <15 mL/Min/1.73 m2 or on chronic dialysis	90962	PX	END-STAGE RENAL DISEASE (ESRD) RELATED SERVICES MONTHLY, FOR PATIENTS 20 YEARS	CPT/HCPCS
14 eGFR <15 mL/Min/1.73 m2 or on chronic dialysis	90965	PX	END-STAGE RENAL DISEASE (ESRD) RELATED SERVICES FOR HOME DIALYSIS PER FULL MONTH	CPT/HCPCS
14 eGFR <15 mL/Min/1.73 m2 or on chronic dialysis	90966	PX	END-STAGE RENAL DISEASE (ESRD) RELATED SERVICES FOR HOME DIALYSIS PER FULL MONTH	CPT/HCPCS
14 eGFR <15 mL/Min/1.73 m2 or on chronic dialysis	90969	PX	END-STAGE RENAL DISEASE (ESRD) RELATED SERVICES FOR DIALYSIS LESS THAN A FULL MONTH	CPT/HCPCS

14	eGFR <15 mL/Min/1.73 m2 or on chronic dialysis	90970	PX	END-STAGE RENAL DISEASE (ESRD) RELATED SERVICES FOR DIALYSIS LESS THAN A FULL CPT/HCPCS	
15	Family or personal history of multiple endocrine neoplasia or medullary thyroid carcinoma	E3122	DX	MULTIPLE ENDOCRINE NEOPLASIA [MEN] TYPE IIA	ICD-10-CM
15	Family or personal history of multiple endocrine neoplasia or medullary thyroid carcinoma	E3123	DX	MULTIPLE ENDOCRINE NEOPLASIA [MEN] TYPE IIB	ICD-10-CM
15	Family or personal history of multiple endocrine neoplasia or medullary thyroid carcinoma	C73	DX	MALIGNANT NEOPLASM OF THYROID GLAND	ICD-10-CM
17	Cardiovascular event or intervention <60 days prior to screening	G43.609	DX	PERSISTENT MIGRAINE AURA WITH CEREBRAL INFARCTION, NOT INTRACTABLE, WITHOUT ST	ICD-10-CM
17	Cardiovascular event or intervention <60 days prior to screening	G43.619	DX	PERSISTENT MIGRAINE AURA WITH CEREBRAL INFARCTION, INTRACTABLE, WITHOUT ST	ICD-10-CM
17	Cardiovascular event or intervention <60 days prior to screening	G45.0	DX	VERTEBRO-BASILAR ARTERY SYNDROME	ICD-10-CM
17	Cardiovascular event or intervention <60 days prior to screening	G45.1	DX	CAROTID ARTERY SYNDROME (HEMISPHERIC)	ICD-10-CM
17	Cardiovascular event or intervention <60 days prior to screening	G45.2	DX	MULTIPLE AND BILATERAL PRECEREBRAL ARTERY SYNDROMES	ICD-10-CM
17	Cardiovascular event or intervention <60 days prior to screening	G45.8	DX	OTHER TRANSIENT CEREBRAL ISCHEMIC ATTACKS AND RELATED SYNDROMES	ICD-10-CM
17	Cardiovascular event or intervention <60 days prior to screening	G45.9	DX	TRANSIENT CEREBRAL ISCHEMIC ATTACK, UNSPECIFIED	ICD-10-CM
17	Cardiovascular event or intervention <60 days prior to screening	G46.0	DX	MIDDLE CEREBRAL ARTERY SYNDROME	ICD-10-CM
17	Cardiovascular event or intervention <60 days prior to screening	G46.1	DX	ANTERIOR CEREBRAL ARTERY SYNDROME	ICD-10-CM
17	Cardiovascular event or intervention <60 days prior to screening	G46.2	DX	POSTERIOR CEREBRAL ARTERY SYNDROME	ICD-10-CM
17	Cardiovascular event or intervention <60 days prior to screening	G46.3	DX	BRAIN STEM STROKE SYNDROME	ICD-10-CM
17	Cardiovascular event or intervention <60 days prior to screening	G46.4	DX	CEREBELLAR STROKE SYNDROME	ICD-10-CM
17	Cardiovascular event or intervention <60 days prior to screening	I21	DX	ACUTE MYOCARDIAL INFARCTION	ICD-10-CM
17	Cardiovascular event or intervention <60 days prior to screening	I21.0	DX	ST ELEVATION (STEMI) MYOCARDIAL INFARCTION OF ANTERIOR WALL	ICD-10-CM
17	Cardiovascular event or intervention <60 days prior to screening	I21.01	DX	ST ELEVATION (STEMI) MYOCARDIAL INFARCTION INVOLVING LEFT MAIN CORONARY ART	ICD-10-CM
17	Cardiovascular event or intervention <60 days prior to screening	I21.02	DX	ST ELEVATION (STEMI) MYOCARDIAL INFARCTION INVOLVING LEFT ANTERIOR DESCENDIN	ICD-10-CM
17	Cardiovascular event or intervention <60 days prior to screening	I21.09	DX	ST ELEVATION (STEMI) MYOCARDIAL INFARCTION INVOLVING OTHER CORONARY ARTERY	ICD-10-CM
17	Cardiovascular event or intervention <60 days prior to screening	I21.1	DX	ST ELEVATION (STEMI) MYOCARDIAL INFARCTION OF INFERIOR WALL	ICD-10-CM
17	Cardiovascular event or intervention <60 days prior to screening	I21.11	DX	ST ELEVATION (STEMI) MYOCARDIAL INFARCTION INVOLVING RIGHT CORONARY ARTERY	ICD-10-CM
17	Cardiovascular event or intervention <60 days prior to screening	I21.19	DX	ST ELEVATION (STEMI) MYOCARDIAL INFARCTION INVOLVING OTHER CORONARY ARTERY	ICD-10-CM
17	Cardiovascular event or intervention <60 days prior to screening	I21.2	DX	ST ELEVATION (STEMI) MYOCARDIAL INFARCTION OF OTHER SITES	ICD-10-CM
17	Cardiovascular event or intervention <60 days prior to screening	I21.21	DX	ST ELEVATION (STEMI) MYOCARDIAL INFARCTION INVOLVING LEFT CIRCUMFLEX CORON	ICD-10-CM
17	Cardiovascular event or intervention <60 days prior to screening	I21.29	DX	ST ELEVATION (STEMI) MYOCARDIAL INFARCTION INVOLVING OTHER SITES	ICD-10-CM
17	Cardiovascular event or intervention <60 days prior to screening	I21.3	DX	ST ELEVATION (STEMI) MYOCARDIAL INFARCTION OF UNSPECIFIED SITE	ICD-10-CM
17	Cardiovascular event or intervention <60 days prior to screening	I21.4	DX	NON-ST ELEVATION (NSTEMI) MYOCARDIAL INFARCTION	ICD-10-CM
17	Cardiovascular event or intervention <60 days prior to screening	I21.9	DX	ACUTE MYOCARDIAL INFARCTION, UNSPECIFIED	ICD-10-CM
17	Cardiovascular event or intervention <60 days prior to screening	I21.A	DX	OTHER TYPE OF MYOCARDIAL INFARCTION	ICD-10-CM
17	Cardiovascular event or intervention <60 days prior to screening	I21.A1	DX	MYOCARDIAL INFARCTION TYPE 2	ICD-10-CM
17	Cardiovascular event or intervention <60 days prior to screening	I21.A9	DX	OTHER MYOCARDIAL INFARCTION TYPE	ICD-10-CM
17	Cardiovascular event or intervention <60 days prior to screening	I22	DX	SUBSEQUENT ST ELEVATION (STEMI) AND NON-ST ELEVATION (NSTEMI) MYOCARDIAL INF	ICD-10-CM
17	Cardiovascular event or intervention <60 days prior to screening	I22.0	DX	SUBSEQUENT ST ELEVATION (STEMI) MYOCARDIAL INFARCTION OF ANTERIOR WALL	ICD-10-CM
17	Cardiovascular event or intervention <60 days prior to screening	I22.1	DX	SUBSEQUENT ST ELEVATION (STEMI) MYOCARDIAL INFARCTION OF INFERIOR WALL	ICD-10-CM
17	Cardiovascular event or intervention <60 days prior to screening	I22.2	DX	SUBSEQUENT NON-ST ELEVATION (NSTEMI) MYOCARDIAL INFARCTION	ICD-10-CM
17	Cardiovascular event or intervention <60 days prior to screening	I22.8	DX	SUBSEQUENT ST ELEVATION (STEMI) MYOCARDIAL INFARCTION OF OTHER SITES	ICD-10-CM

Cardiovascular event or intervention <60 days prior to screening	I22.9	DX	SUBSEQUENT ST ELEVATION (STEMI) MYOCARDIAL INFARCTION OF UNSPECIFIED SITE	ICD-10-CM
Cardiovascular event or intervention <60 days prior to screening	I60	DX	NONTRAUMATIC SUBARACHNOID HEMORRHAGE	ICD-10-CM
Cardiovascular event or intervention <60 days prior to screening	I60.0	DX	NONTRAUMATIC SUBARACHNOID HEMORRHAGE FROM CAROTID SIPHON AND BIFURCATION	ICD-10-CM
Cardiovascular event or intervention <60 days prior to screening	I60.00	DX	NONTRAUMATIC SUBARACHNOID HEMORRHAGE FROM UNSPECIFIED CAROTID SIPHON	ICD-10-CM
Cardiovascular event or intervention <60 days prior to screening	I60.01	DX	NONTRAUMATIC SUBARACHNOID HEMORRHAGE FROM RIGHT CAROTID SIPHON AND BIFURCATION	ICD-10-CM
Cardiovascular event or intervention <60 days prior to screening	I60.02	DX	NONTRAUMATIC SUBARACHNOID HEMORRHAGE FROM LEFT CAROTID SIPHON AND BIFURCATION	ICD-10-CM
Cardiovascular event or intervention <60 days prior to screening	I60.1	DX	NONTRAUMATIC SUBARACHNOID HEMORRHAGE FROM MIDDLE CEREBRAL ARTERY	ICD-10-CM
Cardiovascular event or intervention <60 days prior to screening	I60.10	DX	NONTRAUMATIC SUBARACHNOID HEMORRHAGE FROM UNSPECIFIED MIDDLE CEREBRAL ARTERY	ICD-10-CM
Cardiovascular event or intervention <60 days prior to screening	I60.11	DX	NONTRAUMATIC SUBARACHNOID HEMORRHAGE FROM RIGHT MIDDLE CEREBRAL ARTERY	ICD-10-CM
Cardiovascular event or intervention <60 days prior to screening	I60.12	DX	NONTRAUMATIC SUBARACHNOID HEMORRHAGE FROM LEFT MIDDLE CEREBRAL ARTERY	ICD-10-CM
Cardiovascular event or intervention <60 days prior to screening	I60.2	DX	NONTRAUMATIC SUBARACHNOID HEMORRHAGE FROM ANTERIOR COMMUNICATING ARTERY	ICD-10-CM
Cardiovascular event or intervention <60 days prior to screening	I60.3	DX	NONTRAUMATIC SUBARACHNOID HEMORRHAGE FROM POSTERIOR COMMUNICATING ARTERY	ICD-10-CM
Cardiovascular event or intervention <60 days prior to screening	I60.30	DX	NONTRAUMATIC SUBARACHNOID HEMORRHAGE FROM UNSPECIFIED POSTERIOR COMMUNICATING ARTERY	ICD-10-CM
Cardiovascular event or intervention <60 days prior to screening	I60.31	DX	NONTRAUMATIC SUBARACHNOID HEMORRHAGE FROM RIGHT POSTERIOR COMMUNICATING ARTERY	ICD-10-CM
Cardiovascular event or intervention <60 days prior to screening	I60.32	DX	NONTRAUMATIC SUBARACHNOID HEMORRHAGE FROM LEFT POSTERIOR COMMUNICATING ARTERY	ICD-10-CM
Cardiovascular event or intervention <60 days prior to screening	I60.4	DX	NONTRAUMATIC SUBARACHNOID HEMORRHAGE FROM BASILAR ARTERY	ICD-10-CM
Cardiovascular event or intervention <60 days prior to screening	I60.5	DX	NONTRAUMATIC SUBARACHNOID HEMORRHAGE FROM VERTEBRAL ARTERY	ICD-10-CM
Cardiovascular event or intervention <60 days prior to screening	I60.50	DX	NONTRAUMATIC SUBARACHNOID HEMORRHAGE FROM UNSPECIFIED VERTEBRAL ARTERY	ICD-10-CM
Cardiovascular event or intervention <60 days prior to screening	I60.51	DX	NONTRAUMATIC SUBARACHNOID HEMORRHAGE FROM RIGHT VERTEBRAL ARTERY	ICD-10-CM
Cardiovascular event or intervention <60 days prior to screening	I60.52	DX	NONTRAUMATIC SUBARACHNOID HEMORRHAGE FROM LEFT VERTEBRAL ARTERY	ICD-10-CM
Cardiovascular event or intervention <60 days prior to screening	I60.6	DX	NONTRAUMATIC SUBARACHNOID HEMORRHAGE FROM OTHER INTRACRANIAL ARTERIES	ICD-10-CM
Cardiovascular event or intervention <60 days prior to screening	I60.7	DX	NONTRAUMATIC SUBARACHNOID HEMORRHAGE FROM UNSPECIFIED INTRACRANIAL ARTERY	ICD-10-CM
Cardiovascular event or intervention <60 days prior to screening	I60.8	DX	OTHER NONTRAUMATIC SUBARACHNOID HEMORRHAGE	ICD-10-CM
Cardiovascular event or intervention <60 days prior to screening	I60.9	DX	NONTRAUMATIC SUBARACHNOID HEMORRHAGE, UNSPECIFIED	ICD-10-CM
Cardiovascular event or intervention <60 days prior to screening	I61	DX	NONTRAUMATIC INTRACEREBRAL HEMORRHAGE	ICD-10-CM
Cardiovascular event or intervention <60 days prior to screening	I61.0	DX	NONTRAUMATIC INTRACEREBRAL HEMORRHAGE IN HEMISPHERE, SUBCORTICAL	ICD-10-CM
Cardiovascular event or intervention <60 days prior to screening	I61.1	DX	NONTRAUMATIC INTRACEREBRAL HEMORRHAGE IN HEMISPHERE, CORTICAL	ICD-10-CM
Cardiovascular event or intervention <60 days prior to screening	I61.2	DX	NONTRAUMATIC INTRACEREBRAL HEMORRHAGE IN HEMISPHERE, UNSPECIFIED	ICD-10-CM
Cardiovascular event or intervention <60 days prior to screening	I61.3	DX	NONTRAUMATIC INTRACEREBRAL HEMORRHAGE IN BRAIN STEM	ICD-10-CM
Cardiovascular event or intervention <60 days prior to screening	I61.4	DX	NONTRAUMATIC INTRACEREBRAL HEMORRHAGE IN CEREBELLUM	ICD-10-CM
Cardiovascular event or intervention <60 days prior to screening	I61.5	DX	NONTRAUMATIC INTRACEREBRAL HEMORRHAGE, INTRAVENTRICULAR	ICD-10-CM
Cardiovascular event or intervention <60 days prior to screening	I61.6	DX	NONTRAUMATIC INTRACEREBRAL HEMORRHAGE, MULTIPLE LOCALIZED	ICD-10-CM
Cardiovascular event or intervention <60 days prior to screening	I61.8	DX	OTHER NONTRAUMATIC INTRACEREBRAL HEMORRHAGE	ICD-10-CM
Cardiovascular event or intervention <60 days prior to screening	I61.9	DX	NONTRAUMATIC INTRACEREBRAL HEMORRHAGE, UNSPECIFIED	ICD-10-CM
Cardiovascular event or intervention <60 days prior to screening	I63	DX	CEREBRAL INFARCTION	ICD-10-CM
Cardiovascular event or intervention <60 days prior to screening	I63.0	DX	CEREBRAL INFARCTION DUE TO THROMBOSIS OF PRECEREBRAL ARTERIES	ICD-10-CM
Cardiovascular event or intervention <60 days prior to screening	I63.01	DX	CEREBRAL INFARCTION DUE TO THROMBOSIS OF VERTEBRAL ARTERY	ICD-10-CM
Cardiovascular event or intervention <60 days prior to screening	I63.011	DX	CEREBRAL INFARCTION DUE TO THROMBOSIS OF RIGHT VERTEBRAL ARTERY	ICD-10-CM

[illegible]

[illegible]

	Cardiovascular event or intervention <60 days prior to screening	I63.433	DX	CEREBRAL INFARCTION DUE TO EMBOLISM OF BILATERAL POSTERIOR CEREBRAL ARTERIES ICD-10-CM	
17	Cardiovascular event or intervention <60 days prior to screening	I63.439	DX	CEREBRAL INFARCTION DUE TO EMBOLISM OF UNSPECIFIED POSTERIOR CEREBRAL ART ICD-10-CM	
17	Cardiovascular event or intervention <60 days prior to screening	I63.44	DX	CEREBRAL INFARCTION DUE TO EMBOLISM OF CEREBELLAR ARTERY	ICD-10-CM
17	Cardiovascular event or intervention <60 days prior to screening	I63.441	DX	CEREBRAL INFARCTION DUE TO EMBOLISM OF RIGHT CEREBELLAR ARTERY	ICD-10-CM
17	Cardiovascular event or intervention <60 days prior to screening	I63.442	DX	CEREBRAL INFARCTION DUE TO EMBOLISM OF LEFT CEREBELLAR ARTERY	ICD-10-CM
17	Cardiovascular event or intervention <60 days prior to screening	I63.443	DX	CEREBRAL INFARCTION DUE TO EMBOLISM OF BILATERAL CEREBELLAR ARTERIES	ICD-10-CM
17	Cardiovascular event or intervention <60 days prior to screening	I63.449	DX	CEREBRAL INFARCTION DUE TO EMBOLISM OF UNSPECIFIED CEREBELLAR ARTERY	ICD-10-CM
17	Cardiovascular event or intervention <60 days prior to screening	I63.49	DX	CEREBRAL INFARCTION DUE TO EMBOLISM OF OTHER CEREBRAL ARTERY	ICD-10-CM
17	Cardiovascular event or intervention <60 days prior to screening	I63.5	DX	CEREBRAL INFARCTION DUE TO UNSPECIFIED OCCLUSION OR STENOSIS OF CEREBRAL A/I CD-10-CM	
17	Cardiovascular event or intervention <60 days prior to screening	I63.50	DX	CEREBRAL INFARCTION DUE TO UNSPECIFIED OCCLUSION OR STENOSIS OF UNSPECIFIED ICD-10-CM	
17	Cardiovascular event or intervention <60 days prior to screening	I63.51	DX	CEREBRAL INFARCTION DUE TO UNSPECIFIED OCCLUSION OR STENOSIS OF MIDDLE CERE ICD-10-CM	
17	Cardiovascular event or intervention <60 days prior to screening	I63.511	DX	CEREBRAL INFARCTION DUE TO UNSPECIFIED OCCLUSION OR STENOSIS OF RIGHT MIDDL ICD-10-CM	
17	Cardiovascular event or intervention <60 days prior to screening	I63.512	DX	CEREBRAL INFARCTION DUE TO UNSPECIFIED OCCLUSION OR STENOSIS OF LEFT MIDDLE ICD-10-CM	
17	Cardiovascular event or intervention <60 days prior to screening	I63.513	DX	CEREBRAL INFARCTION DUE TO UNSPECIFIED OCCLUSION OR STENOSIS OF BILATERAL MIDC ICD-10-CM	
17	Cardiovascular event or intervention <60 days prior to screening	I63.519	DX	CEREBRAL INFARCTION DUE TO UNSPECIFIED OCCLUSION OR STENOSIS OF UNSPECIFIED ICD-10-CM	
17	Cardiovascular event or intervention <60 days prior to screening	I63.52	DX	CEREBRAL INFARCTION DUE TO UNSPECIFIED OCCLUSION OR STENOSIS OF ANTERIOR CE ICD-10-CM	
17	Cardiovascular event or intervention <60 days prior to screening	I63.521	DX	CEREBRAL INFARCTION DUE TO UNSPECIFIED OCCLUSION OR STENOSIS OF RIGHT ANTER ICD-10-CM	
17	Cardiovascular event or intervention <60 days prior to screening	I63.522	DX	CEREBRAL INFARCTION DUE TO UNSPECIFIED OCCLUSION OR STENOSIS OF LEFT ANTERI ICD-10-CM	
17	Cardiovascular event or intervention <60 days prior to screening	I63.523	DX	CEREBRAL INFARCTION DUE TO UNSPECIFIED OCCLUSION OR STENOSIS OF BILATERAL A ICD-10-CM	
17	Cardiovascular event or intervention <60 days prior to screening	I63.529	DX	CEREBRAL INFARCTION DUE TO UNSPECIFIED OCCLUSION OR STENOSIS OF UNSPECIFIED ICD-10-CM	
17	Cardiovascular event or intervention <60 days prior to screening	I63.53	DX	CEREBRAL INFARCTION DUE TO UNSPECIFIED OCCLUSION OR STENOSIS OF POSTERIOR C ICD-10-CM	
17	Cardiovascular event or intervention <60 days prior to screening	I63.531	DX	CEREBRAL INFARCTION DUE TO UNSPECIFIED OCCLUSION OR STENOSIS OF RIGHT POSTE ICD-10-CM	
17	Cardiovascular event or intervention <60 days prior to screening	I63.532	DX	CEREBRAL INFARCTION DUE TO UNSPECIFIED OCCLUSION OR STENOSIS OF LEFT POSTER ICD-10-CM	
17	Cardiovascular event or intervention <60 days prior to screening	I63.533	DX	CEREBRAL INFARCTION DUE TO UNSPECIFIED OCCLUSION OR STENOSIS OF BILATERAL P ICD-10-CM	
17	Cardiovascular event or intervention <60 days prior to screening	I63.539	DX	CEREBRAL INFARCTION DUE TO UNSPECIFIED OCCLUSION OR STENOSIS OF UNSPECIFIED ICD-10-CM	
17	Cardiovascular event or intervention <60 days prior to screening	I63.54	DX	CEREBRAL INFARCTION DUE TO UNSPECIFIED OCCLUSION OR STENOSIS OF CEREBELLAR ICD-10-CM	
17	Cardiovascular event or intervention <60 days prior to screening	I63.541	DX	CEREBRAL INFARCTION DUE TO UNSPECIFIED OCCLUSION OR STENOSIS OF RIGHT CEREB ICD-10-CM	
17	Cardiovascular event or intervention <60 days prior to screening	I63.542	DX	CEREBRAL INFARCTION DUE TO UNSPECIFIED OCCLUSION OR STENOSIS OF LEFT CEREBE ICD-10-CM	
17	Cardiovascular event or intervention <60 days prior to screening	I63.543	DX	CEREBRAL INFARCTION DUE TO UNSPECIFIED OCCLUSION OR STENOSIS OF BILATERAL C ICD-10-CM	
17	Cardiovascular event or intervention <60 days prior to screening	I63.549	DX	CEREBRAL INFARCTION DUE TO UNSPECIFIED OCCLUSION OR STENOSIS OF UNSPECIFIED ICD-10-CM	
17	Cardiovascular event or intervention <60 days prior to screening	I63.59	DX	CEREBRAL INFARCTION DUE TO UNSPECIFIED OCCLUSION OR STENOSIS OF OTHER CEREE ICD-10-CM	
17	Cardiovascular event or intervention <60 days prior to screening	I63.6	DX	CEREBRAL INFARCTION DUE TO CEREBRAL VENOUS THROMBOSIS, NONPYOGENIC	ICD-10-CM
17	Cardiovascular event or intervention <60 days prior to screening	I63.8	DX	OTHER CEREBRAL INFARCTION	ICD-10-CM
17	Cardiovascular event or intervention <60 days prior to screening	I63.81	DX	OTHER CEREBRAL INFARCTION DUE TO OCCLUSION OR STENOSIS OF SMALL ARTERY	ICD-10-CM
17	Cardiovascular event or intervention <60 days prior to screening	I63.89	DX	OTHER CEREBRAL INFARCTION	ICD-10-CM
17	Cardiovascular event or intervention <60 days prior to screening	I63.9	DX	CEREBRAL INFARCTION, UNSPECIFIED	ICD-10-CM
17	Cardiovascular event or intervention <60 days prior to screening	T82.211A	DX	BREAKDOWN (MECHANICAL) OF CORONARY ARTERY BYPASS GRAFT, INITIAL ENCOUNTER ICD-10-CM	
17	Cardiovascular event or intervention <60 days prior to screening	T82.212A	DX	DISPLACEMENT OF CORONARY ARTERY BYPASS GRAFT, INITIAL ENCOUNTER	ICD-10-CM

Cardiovascular event or intervention <60 days prior to screening	T82.213A	DX	LEAKAGE OF CORONARY ARTERY BYPASS GRAFT, INITIAL ENCOUNTER	ICD-10-CM
Cardiovascular event or intervention <60 days prior to screening	T82.218A	DX	OTHER MECHANICAL COMPLICATION OF CORONARY ARTERY BYPASS GRAFT, INITIAL ENCOUNTER	ICD-10-CM
Cardiovascular event or intervention <60 days prior to screening	T86.30	DX	UNSPECIFIED COMPLICATION OF HEART-LUNG TRANSPLANT	ICD-10-CM
Cardiovascular event or intervention <60 days prior to screening	T86.31	DX	HEART-LUNG TRANSPLANT REJECTION	ICD-10-CM
Cardiovascular event or intervention <60 days prior to screening	T86.32	DX	HEART-LUNG TRANSPLANT FAILURE	ICD-10-CM
Cardiovascular event or intervention <60 days prior to screening	T86.33	DX	HEART-LUNG TRANSPLANT INFECTION	ICD-10-CM
Cardiovascular event or intervention <60 days prior to screening	T86.39	DX	OTHER COMPLICATIONS OF HEART-LUNG TRANSPLANT	ICD-10-CM
Cardiovascular event or intervention <60 days prior to screening	Z48.280	DX	ENCOUNTER FOR AFTERCARE FOLLOWING HEART-LUNG TRANSPLANT	ICD-10-CM
Cardiovascular event or intervention <60 days prior to screening	Z94.3	DX	HEART AND LUNGS TRANSPLANT STATUS	ICD-10-CM
Cardiovascular event or intervention <60 days prior to screening	Z95.1	DX	PRESENCE OF AORTOCORONARY BYPASS GRAFT	ICD-10-CM
Cardiovascular event or intervention <60 days prior to screening	0210083	PX	BYPASS CORONARY ARTERY, ONE ARTERY FROM CORONARY ARTERY WITH ZOOPLASTIC INTERPOSITION	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	0210088	PX	BYPASS CORONARY ARTERY, ONE ARTERY FROM RIGHT INTERNAL MAMMARY WITH ZOOPLASTIC INTERPOSITION	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	0210089	PX	BYPASS CORONARY ARTERY, ONE ARTERY FROM LEFT INTERNAL MAMMARY WITH ZOOPLASTIC INTERPOSITION	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	021008C	PX	BYPASS CORONARY ARTERY, ONE ARTERY FROM THORACIC ARTERY WITH ZOOPLASTIC INTERPOSITION	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	021008F	PX	BYPASS CORONARY ARTERY, ONE ARTERY FROM ABDOMINAL ARTERY WITH ZOOPLASTIC INTERPOSITION	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	021008W	PX	BYPASS CORONARY ARTERY, ONE ARTERY FROM AORTA WITH ZOOPLASTIC TISSUE, OPEN END ANASTOMOSIS	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	0210093	PX	BYPASS CORONARY ARTERY, ONE ARTERY FROM CORONARY ARTERY WITH AUTOLOGOUS INTERPOSITION	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	0210098	PX	BYPASS CORONARY ARTERY, ONE ARTERY FROM RIGHT INTERNAL MAMMARY WITH AUTOLOGOUS INTERPOSITION	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	0210099	PX	BYPASS CORONARY ARTERY, ONE ARTERY FROM LEFT INTERNAL MAMMARY WITH AUTOLOGOUS INTERPOSITION	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	021009C	PX	BYPASS CORONARY ARTERY, ONE ARTERY FROM THORACIC ARTERY WITH AUTOLOGOUS INTERPOSITION	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	021009F	PX	BYPASS CORONARY ARTERY, ONE ARTERY FROM ABDOMINAL ARTERY WITH AUTOLOGOUS INTERPOSITION	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	021009W	PX	BYPASS CORONARY ARTERY, ONE ARTERY FROM AORTA WITH AUTOLOGOUS VENOUS TISSUE INTERPOSITION	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02100A3	PX	BYPASS CORONARY ARTERY, ONE ARTERY FROM CORONARY ARTERY WITH AUTOLOGOUS INTERPOSITION	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02100A8	PX	BYPASS CORONARY ARTERY, ONE ARTERY FROM RIGHT INTERNAL MAMMARY WITH AUTOLOGOUS INTERPOSITION	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02100A9	PX	BYPASS CORONARY ARTERY, ONE ARTERY FROM LEFT INTERNAL MAMMARY WITH AUTOLOGOUS INTERPOSITION	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02100AC	PX	BYPASS CORONARY ARTERY, ONE ARTERY FROM THORACIC ARTERY WITH AUTOLOGOUS INTERPOSITION	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02100AF	PX	BYPASS CORONARY ARTERY, ONE ARTERY FROM ABDOMINAL ARTERY WITH AUTOLOGOUS INTERPOSITION	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02100AW	PX	BYPASS CORONARY ARTERY, ONE ARTERY FROM AORTA WITH AUTOLOGOUS ARTERIAL TISSUE INTERPOSITION	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02100J3	PX	BYPASS CORONARY ARTERY, ONE ARTERY FROM CORONARY ARTERY WITH SYNTHETIC INTERPOSITION	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02100J8	PX	BYPASS CORONARY ARTERY, ONE ARTERY FROM RIGHT INTERNAL MAMMARY WITH SYNTHETIC INTERPOSITION	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02100J9	PX	BYPASS CORONARY ARTERY, ONE ARTERY FROM LEFT INTERNAL MAMMARY WITH SYNTHETIC INTERPOSITION	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02100JC	PX	BYPASS CORONARY ARTERY, ONE ARTERY FROM THORACIC ARTERY WITH SYNTHETIC INTERPOSITION	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02100JF	PX	BYPASS CORONARY ARTERY, ONE ARTERY FROM ABDOMINAL ARTERY WITH SYNTHETIC INTERPOSITION	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02100JW	PX	BYPASS CORONARY ARTERY, ONE ARTERY FROM AORTA WITH SYNTHETIC SUBSTITUTE, CLOSED END ANASTOMOSIS	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02100K3	PX	BYPASS CORONARY ARTERY, ONE ARTERY FROM CORONARY ARTERY WITH NONAUTOLOGOUS INTERPOSITION	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02100K8	PX	BYPASS CORONARY ARTERY, ONE ARTERY FROM RIGHT INTERNAL MAMMARY WITH NONAUTOLOGOUS INTERPOSITION	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02100K9	PX	BYPASS CORONARY ARTERY, ONE ARTERY FROM LEFT INTERNAL MAMMARY WITH NONAUTOLOGOUS INTERPOSITION	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02100KC	PX	BYPASS CORONARY ARTERY, ONE ARTERY FROM THORACIC ARTERY WITH NONAUTOLOGOUS INTERPOSITION	ICD-10-PCS

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Cardiovascular event or intervention <60 days prior to screening	021V48T	PX	BYPASS SUPERIOR VENA CAVA TO LEFT PULMONARY VEIN WITH ZOOPLASTIC TISSUE, PE ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	021V48U	PX	BYPASS SUPERIOR VENA CAVA TO PULMONARY VEIN CONFLUENCE WITH ZOOPLASTIC TI ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	021V49S	PX	BYPASS SUPERIOR VENA CAVA TO RIGHT PULMONARY VEIN WITH AUTOLOGOUS VENOUS ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	021V49T	PX	BYPASS SUPERIOR VENA CAVA TO LEFT PULMONARY VEIN WITH AUTOLOGOUS VENOUS ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	021V49U	PX	BYPASS SUPERIOR VENA CAVA TO PULMONARY VEIN CONFLUENCE WITH AUTOLOGOUS V ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	021V4AS	PX	BYPASS SUPERIOR VENA CAVA TO RIGHT PULMONARY VEIN WITH AUTOLOGOUS ARTERIA ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	021V4AT	PX	BYPASS SUPERIOR VENA CAVA TO LEFT PULMONARY VEIN WITH AUTOLOGOUS ARTERIA ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	021V4AU	PX	BYPASS SUPERIOR VENA CAVA TO PULMONARY VEIN CONFLUENCE WITH AUTOLOGOUS ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	021V4JS	PX	BYPASS SUPERIOR VENA CAVA TO RIGHT PULMONARY VEIN WITH SYNTHETIC SUBSTITUTE ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	021V4JT	PX	BYPASS SUPERIOR VENA CAVA TO LEFT PULMONARY VEIN WITH SYNTHETIC SUBSTITUTE ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	021V4JU	PX	BYPASS SUPERIOR VENA CAVA TO PULMONARY VEIN CONFLUENCE WITH SYNTHETIC SUI ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	021V4KS	PX	BYPASS SUPERIOR VENA CAVA TO RIGHT PULMONARY VEIN WITH NONAUTOLOGOUS TISS ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	021V4KT	PX	BYPASS SUPERIOR VENA CAVA TO LEFT PULMONARY VEIN WITH NONAUTOLOGOUS TISSI ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	024F07J	PX	CREATION OF AORTIC VALVE FROM TRUNCAL VALVE USING AUTOLOGOUS TISSUE SUBST ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	024F08J	PX	CREATION OF AORTIC VALVE FROM TRUNCAL VALVE USING ZOOPLASTIC TISSUE, OPEN A ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	024F0JJ	PX	CREATION OF AORTIC VALVE FROM TRUNCAL VALVE USING SYNTHETIC SUBSTITUTE, OPI ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	024F0KJ	PX	CREATION OF AORTIC VALVE FROM TRUNCAL VALVE USING NONAUTOLOGOUS TISSUE SL ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	024G0J2	PX	CREATION OF MITRAL VALVE FROM COMMON ATRIOVENTRICULAR VALVE USING SYNTH ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	024J0J2	PX	CREATION OF TRICUSPID VALVE FROM COMMON ATRIOVENTRICULAR VALVE USING SYN ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02560ZZ	PX	DESTRUCTION OF RIGHT ATRIUM, OPEN APPROACH ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02563ZZ	PX	DESTRUCTION OF RIGHT ATRIUM, PERCUTANEOUS APPROACH ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02564ZZ	PX	DESTRUCTION OF RIGHT ATRIUM, PERCUTANEOUS ENDOSCOPIC APPROACH ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02570ZK	PX	DESTRUCTION OF LEFT ATRIAL APPENDAGE, OPEN APPROACH ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02570ZZ	PX	DESTRUCTION OF LEFT ATRIUM, OPEN APPROACH ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02573ZK	PX	DESTRUCTION OF LEFT ATRIAL APPENDAGE, PERCUTANEOUS APPROACH ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02573ZZ	PX	DESTRUCTION OF LEFT ATRIUM, PERCUTANEOUS APPROACH ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02574ZK	PX	DESTRUCTION OF LEFT ATRIAL APPENDAGE, PERCUTANEOUS ENDOSCOPIC APPROACH ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02574ZZ	PX	DESTRUCTION OF LEFT ATRIUM, PERCUTANEOUS ENDOSCOPIC APPROACH ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	025K0ZZ	PX	DESTRUCTION OF RIGHT VENTRICLE, OPEN APPROACH ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	025K3ZZ	PX	DESTRUCTION OF RIGHT VENTRICLE, PERCUTANEOUS APPROACH ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	025K4ZZ	PX	DESTRUCTION OF RIGHT VENTRICLE, PERCUTANEOUS ENDOSCOPIC APPROACH ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	025L0ZZ	PX	DESTRUCTION OF LEFT VENTRICLE, OPEN APPROACH ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	025L3ZZ	PX	DESTRUCTION OF LEFT VENTRICLE, PERCUTANEOUS APPROACH ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	025L4ZZ	PX	DESTRUCTION OF LEFT VENTRICLE, PERCUTANEOUS ENDOSCOPIC APPROACH ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	027F04Z	PX	DILATION OF AORTIC VALVE WITH DRUG-ELUTING INTRALUMINAL DEVICE, OPEN APPROACH ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	027F0DZ	PX	DILATION OF AORTIC VALVE WITH INTRALUMINAL DEVICE, OPEN APPROACH ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	027F0ZZ	PX	DILATION OF AORTIC VALVE, OPEN APPROACH ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	027F3ZZ	PX	DILATION OF AORTIC VALVE, PERCUTANEOUS APPROACH ICD-10-PCS

Cardiovascular event or intervention <60 days prior to screening	027F4ZZ	PX	DILATION OF AORTIC VALVE, PERCUTANEOUS ENDOSCOPIC APPROACH	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	027G04Z	PX	DILATION OF MITRAL VALVE WITH DRUG-ELUTING INTRALUMINAL DEVICE, OPEN APPROACH	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	027G0DZ	PX	DILATION OF MITRAL VALVE WITH INTRALUMINAL DEVICE, OPEN APPROACH	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	027G0ZZ	PX	DILATION OF MITRAL VALVE, OPEN APPROACH	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	027G3ZZ	PX	DILATION OF MITRAL VALVE, PERCUTANEOUS APPROACH	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	027G4ZZ	PX	DILATION OF MITRAL VALVE, PERCUTANEOUS ENDOSCOPIC APPROACH	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	027H04Z	PX	DILATION OF PULMONARY VALVE WITH DRUG-ELUTING INTRALUMINAL DEVICE, OPEN APPROACH	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	027H0DZ	PX	DILATION OF PULMONARY VALVE WITH INTRALUMINAL DEVICE, OPEN APPROACH	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	027H0ZZ	PX	DILATION OF PULMONARY VALVE, OPEN APPROACH	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	027H3ZZ	PX	DILATION OF PULMONARY VALVE, PERCUTANEOUS APPROACH	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	027H4ZZ	PX	DILATION OF PULMONARY VALVE, PERCUTANEOUS ENDOSCOPIC APPROACH	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	027J04Z	PX	DILATION OF TRICUSPID VALVE WITH DRUG-ELUTING INTRALUMINAL DEVICE, OPEN APPROACH	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	027J0DZ	PX	DILATION OF TRICUSPID VALVE WITH INTRALUMINAL DEVICE, OPEN APPROACH	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	027J0ZZ	PX	DILATION OF TRICUSPID VALVE, OPEN APPROACH	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	027J3ZZ	PX	DILATION OF TRICUSPID VALVE, PERCUTANEOUS APPROACH	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	027J4ZZ	PX	DILATION OF TRICUSPID VALVE, PERCUTANEOUS ENDOSCOPIC APPROACH	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02890ZZ	PX	DIVISION OF CHORDAE TENDINEAE, OPEN APPROACH	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02893ZZ	PX	DIVISION OF CHORDAE TENDINEAE, PERCUTANEOUS APPROACH	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02894ZZ	PX	DIVISION OF CHORDAE TENDINEAE, PERCUTANEOUS ENDOSCOPIC APPROACH	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	028D0ZZ	PX	DIVISION OF PAPILLARY MUSCLE, OPEN APPROACH	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	028D3ZZ	PX	DIVISION OF PAPILLARY MUSCLE, PERCUTANEOUS APPROACH	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	028D4ZZ	PX	DIVISION OF PAPILLARY MUSCLE, PERCUTANEOUS ENDOSCOPIC APPROACH	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02B50ZZ	PX	EXCISION OF ATRIAL SEPTUM, OPEN APPROACH	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02B53ZZ	PX	EXCISION OF ATRIAL SEPTUM, PERCUTANEOUS APPROACH	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02B54ZZ	PX	EXCISION OF ATRIAL SEPTUM, PERCUTANEOUS ENDOSCOPIC APPROACH	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02B60ZZ	PX	EXCISION OF RIGHT ATRIUM, OPEN APPROACH	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02B63ZZ	PX	EXCISION OF RIGHT ATRIUM, PERCUTANEOUS APPROACH	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02B64ZZ	PX	EXCISION OF RIGHT ATRIUM, PERCUTANEOUS ENDOSCOPIC APPROACH	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02B70ZK	PX	EXCISION OF LEFT ATRIAL APPENDAGE, OPEN APPROACH	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02B70ZZ	PX	EXCISION OF LEFT ATRIUM, OPEN APPROACH	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02B73ZK	PX	EXCISION OF LEFT ATRIAL APPENDAGE, PERCUTANEOUS APPROACH	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02B73ZZ	PX	EXCISION OF LEFT ATRIUM, PERCUTANEOUS APPROACH	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02B74ZK	PX	EXCISION OF LEFT ATRIAL APPENDAGE, PERCUTANEOUS ENDOSCOPIC APPROACH	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02B74ZZ	PX	EXCISION OF LEFT ATRIUM, PERCUTANEOUS ENDOSCOPIC APPROACH	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02BK0ZZ	PX	EXCISION OF RIGHT VENTRICLE, OPEN APPROACH	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02BK3ZZ	PX	EXCISION OF RIGHT VENTRICLE, PERCUTANEOUS APPROACH	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02BK4ZZ	PX	EXCISION OF RIGHT VENTRICLE, PERCUTANEOUS ENDOSCOPIC APPROACH	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02BL0ZZ	PX	EXCISION OF LEFT VENTRICLE, OPEN APPROACH	ICD-10-PCS

Cardiovascular event or intervention <60 days prior to screening	02BL3ZZ	PX	EXCISION OF LEFT VENTRICLE, PERCUTANEOUS APPROACH	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02BL4ZZ	PX	EXCISION OF LEFT VENTRICLE, PERCUTANEOUS ENDOSCOPIC APPROACH	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02BN0ZZ	PX	EXCISION OF PERICARDIUM, OPEN APPROACH	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02BN3ZZ	PX	EXCISION OF PERICARDIUM, PERCUTANEOUS APPROACH	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02BN4ZZ	PX	EXCISION OF PERICARDIUM, PERCUTANEOUS ENDOSCOPIC APPROACH	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02BP0ZZ	PX	EXCISION OF PULMONARY TRUNK, OPEN APPROACH	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02BP4ZZ	PX	EXCISION OF PULMONARY TRUNK, PERCUTANEOUS ENDOSCOPIC APPROACH	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02BQ0ZZ	PX	EXCISION OF RIGHT PULMONARY ARTERY, OPEN APPROACH	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02BQ4ZZ	PX	EXCISION OF RIGHT PULMONARY ARTERY, PERCUTANEOUS ENDOSCOPIC APPROACH	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02BR0ZZ	PX	EXCISION OF LEFT PULMONARY ARTERY, OPEN APPROACH	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02BR4ZZ	PX	EXCISION OF LEFT PULMONARY ARTERY, PERCUTANEOUS ENDOSCOPIC APPROACH	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02BS0ZZ	PX	EXCISION OF RIGHT PULMONARY VEIN, OPEN APPROACH	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02BS4ZZ	PX	EXCISION OF RIGHT PULMONARY VEIN, PERCUTANEOUS ENDOSCOPIC APPROACH	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02BT0ZZ	PX	EXCISION OF LEFT PULMONARY VEIN, OPEN APPROACH	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02BT4ZZ	PX	EXCISION OF LEFT PULMONARY VEIN, PERCUTANEOUS ENDOSCOPIC APPROACH	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02BV0ZZ	PX	EXCISION OF SUPERIOR VENA CAVA, OPEN APPROACH	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02BV4ZZ	PX	EXCISION OF SUPERIOR VENA CAVA, PERCUTANEOUS ENDOSCOPIC APPROACH	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02BW0ZZ	PX	EXCISION OF THORACIC AORTA, DESCENDING, OPEN APPROACH	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02BW4ZZ	PX	EXCISION OF THORACIC AORTA, DESCENDING, PERCUTANEOUS ENDOSCOPIC APPROACH	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02BX0ZZ	PX	EXCISION OF THORACIC AORTA, ASCENDING/ARCH, OPEN APPROACH	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02BX4ZZ	PX	EXCISION OF THORACIC AORTA, ASCENDING/ARCH, PERCUTANEOUS ENDOSCOPIC APPROACH	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02C60ZZ	PX	EXTIRPATION OF MATTER FROM RIGHT ATRIUM, OPEN APPROACH	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02C63ZZ	PX	EXTIRPATION OF MATTER FROM RIGHT ATRIUM, PERCUTANEOUS APPROACH	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02C64ZZ	PX	EXTIRPATION OF MATTER FROM RIGHT ATRIUM, PERCUTANEOUS ENDOSCOPIC APPROACH	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02C70ZZ	PX	EXTIRPATION OF MATTER FROM LEFT ATRIUM, OPEN APPROACH	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02C73ZZ	PX	EXTIRPATION OF MATTER FROM LEFT ATRIUM, PERCUTANEOUS APPROACH	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02C74ZZ	PX	EXTIRPATION OF MATTER FROM LEFT ATRIUM, PERCUTANEOUS ENDOSCOPIC APPROACH	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02C80ZZ	PX	EXTIRPATION OF MATTER FROM CONDUCTION MECHANISM, OPEN APPROACH	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02C83ZZ	PX	EXTIRPATION OF MATTER FROM CONDUCTION MECHANISM, PERCUTANEOUS APPROACH	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02C84ZZ	PX	EXTIRPATION OF MATTER FROM CONDUCTION MECHANISM, PERCUTANEOUS ENDOSCOPIC APPROACH	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02C90ZZ	PX	EXTIRPATION OF MATTER FROM CHORDAE TENDINEAE, OPEN APPROACH	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02C93ZZ	PX	EXTIRPATION OF MATTER FROM CHORDAE TENDINEAE, PERCUTANEOUS APPROACH	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02C94ZZ	PX	EXTIRPATION OF MATTER FROM CHORDAE TENDINEAE, PERCUTANEOUS ENDOSCOPIC APPROACH	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02CK0ZZ	PX	EXTIRPATION OF MATTER FROM RIGHT VENTRICLE, OPEN APPROACH	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02CK3ZZ	PX	EXTIRPATION OF MATTER FROM RIGHT VENTRICLE, PERCUTANEOUS APPROACH	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02CK4ZZ	PX	EXTIRPATION OF MATTER FROM RIGHT VENTRICLE, PERCUTANEOUS ENDOSCOPIC APPROACH	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02CL0ZZ	PX	EXTIRPATION OF MATTER FROM LEFT VENTRICLE, OPEN APPROACH	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02CL3ZZ	PX	EXTIRPATION OF MATTER FROM LEFT VENTRICLE, PERCUTANEOUS APPROACH	ICD-10-PCS

Cardiovascular event or intervention <60 days prior to screening	02CL4ZZ	PX	EXTIRPATION OF MATTER FROM LEFT VENTRICLE, PERCUTANEOUS ENDOSCOPIC APPROACH	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02CN0ZZ	PX	EXTIRPATION OF MATTER FROM PERICARDIUM, OPEN APPROACH	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02CN3ZZ	PX	EXTIRPATION OF MATTER FROM PERICARDIUM, PERCUTANEOUS APPROACH	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02CN4ZZ	PX	EXTIRPATION OF MATTER FROM PERICARDIUM, PERCUTANEOUS ENDOSCOPIC APPROACH	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02CP3ZZ	PX	EXTIRPATION OF MATTER FROM PULMONARY TRUNK, PERCUTANEOUS APPROACH	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02CQ3ZZ	PX	EXTIRPATION OF MATTER FROM RIGHT PULMONARY ARTERY, PERCUTANEOUS APPROACH	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02CR3ZZ	PX	EXTIRPATION OF MATTER FROM LEFT PULMONARY ARTERY, PERCUTANEOUS APPROACH	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02CS3ZZ	PX	EXTIRPATION OF MATTER FROM RIGHT PULMONARY VEIN, PERCUTANEOUS APPROACH	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02CT3ZZ	PX	EXTIRPATION OF MATTER FROM LEFT PULMONARY VEIN, PERCUTANEOUS APPROACH	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02CV3ZZ	PX	EXTIRPATION OF MATTER FROM SUPERIOR VENA CAVA, PERCUTANEOUS APPROACH	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02CW3ZZ	PX	EXTIRPATION OF MATTER FROM THORACIC AORTA, DESCENDING, PERCUTANEOUS APPROACH	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02CX3ZZ	PX	EXTIRPATION OF MATTER FROM THORACIC AORTA, ASCENDING/ARCH, PERCUTANEOUS APPROACH	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02H40YZ	PX	INSERTION OF OTHER DEVICE INTO CORONARY VEIN, OPEN APPROACH	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02H43YZ	PX	INSERTION OF OTHER DEVICE INTO CORONARY VEIN, PERCUTANEOUS APPROACH	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02H44YZ	PX	INSERTION OF OTHER DEVICE INTO CORONARY VEIN, PERCUTANEOUS ENDOSCOPIC APPROACH	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02H60YZ	PX	INSERTION OF OTHER DEVICE INTO RIGHT ATRIUM, OPEN APPROACH	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02H63YZ	PX	INSERTION OF OTHER DEVICE INTO RIGHT ATRIUM, PERCUTANEOUS APPROACH	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02H64YZ	PX	INSERTION OF OTHER DEVICE INTO RIGHT ATRIUM, PERCUTANEOUS ENDOSCOPIC APPROACH	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02H70YZ	PX	INSERTION OF OTHER DEVICE INTO LEFT ATRIUM, OPEN APPROACH	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02H73YZ	PX	INSERTION OF OTHER DEVICE INTO LEFT ATRIUM, PERCUTANEOUS APPROACH	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02H74YZ	PX	INSERTION OF OTHER DEVICE INTO LEFT ATRIUM, PERCUTANEOUS ENDOSCOPIC APPROACH	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02HA0QZ	PX	INSERTION OF IMPLANTABLE HEART ASSIST SYSTEM INTO HEART, OPEN APPROACH	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02HA0RJ	PX	INSERTION OF SHORT-TERM EXTERNAL HEART ASSIST SYSTEM INTO HEART, INTRAOPERATIVE	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02HA0RS	PX	INSERTION OF BIVENTRICULAR SHORT-TERM EXTERNAL HEART ASSIST SYSTEM INTO HEART	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02HA0RZ	PX	INSERTION OF SHORT-TERM EXTERNAL HEART ASSIST SYSTEM INTO HEART, OPEN APPROACH	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02HA0YZ	PX	INSERTION OF OTHER DEVICE INTO HEART, OPEN APPROACH	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02HA3QZ	PX	INSERTION OF IMPLANTABLE HEART ASSIST SYSTEM INTO HEART, PERCUTANEOUS APPROACH	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02HA3RJ	PX	INSERTION OF SHORT-TERM EXTERNAL HEART ASSIST SYSTEM INTO HEART, INTRAOPERATIVE	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02HA3RS	PX	INSERTION OF BIVENTRICULAR SHORT-TERM EXTERNAL HEART ASSIST SYSTEM INTO HEART	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02HA3RZ	PX	INSERTION OF SHORT-TERM EXTERNAL HEART ASSIST SYSTEM INTO HEART, PERCUTANEOUS APPROACH	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02HA3YZ	PX	INSERTION OF OTHER DEVICE INTO HEART, PERCUTANEOUS APPROACH	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02HA4QZ	PX	INSERTION OF IMPLANTABLE HEART ASSIST SYSTEM INTO HEART, PERCUTANEOUS APPROACH	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02HA4RJ	PX	INSERTION OF SHORT-TERM EXTERNAL HEART ASSIST SYSTEM INTO HEART, INTRAOPERATIVE	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02HA4RS	PX	INSERTION OF BIVENTRICULAR SHORT-TERM EXTERNAL HEART ASSIST SYSTEM INTO HEART	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02HA4RZ	PX	INSERTION OF SHORT-TERM EXTERNAL HEART ASSIST SYSTEM INTO HEART, PERCUTANEOUS APPROACH	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02HA4YZ	PX	INSERTION OF OTHER DEVICE INTO HEART, PERCUTANEOUS ENDOSCOPIC APPROACH	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02HK0YZ	PX	INSERTION OF OTHER DEVICE INTO RIGHT VENTRICLE, OPEN APPROACH	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02HK3YZ	PX	INSERTION OF OTHER DEVICE INTO RIGHT VENTRICLE, PERCUTANEOUS APPROACH	ICD-10-PCS

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Cardiovascular event or intervention <60 days prior to screening	02N70ZZ	PX	RELEASE LEFT ATRIUM, OPEN APPROACH	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02N73ZZ	PX	RELEASE LEFT ATRIUM, PERCUTANEOUS APPROACH	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02N74ZZ	PX	RELEASE LEFT ATRIUM, PERCUTANEOUS ENDOSCOPIC APPROACH	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02NF0ZZ	PX	RELEASE AORTIC VALVE, OPEN APPROACH	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02NF3ZZ	PX	RELEASE AORTIC VALVE, PERCUTANEOUS APPROACH	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02NF4ZZ	PX	RELEASE AORTIC VALVE, PERCUTANEOUS ENDOSCOPIC APPROACH	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02NG0ZZ	PX	RELEASE MITRAL VALVE, OPEN APPROACH	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02NG3ZZ	PX	RELEASE MITRAL VALVE, PERCUTANEOUS APPROACH	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02NG4ZZ	PX	RELEASE MITRAL VALVE, PERCUTANEOUS ENDOSCOPIC APPROACH	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02NH0ZZ	PX	RELEASE PULMONARY VALVE, OPEN APPROACH	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02NH3ZZ	PX	RELEASE PULMONARY VALVE, PERCUTANEOUS APPROACH	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02NH4ZZ	PX	RELEASE PULMONARY VALVE, PERCUTANEOUS ENDOSCOPIC APPROACH	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02NJ0ZZ	PX	RELEASE TRICUSPID VALVE, OPEN APPROACH	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02NJ3ZZ	PX	RELEASE TRICUSPID VALVE, PERCUTANEOUS APPROACH	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02NJ4ZZ	PX	RELEASE TRICUSPID VALVE, PERCUTANEOUS ENDOSCOPIC APPROACH	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02NK0ZZ	PX	RELEASE RIGHT VENTRICLE, OPEN APPROACH	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02NK3ZZ	PX	RELEASE RIGHT VENTRICLE, PERCUTANEOUS APPROACH	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02NK4ZZ	PX	RELEASE RIGHT VENTRICLE, PERCUTANEOUS ENDOSCOPIC APPROACH	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02NL0ZZ	PX	RELEASE LEFT VENTRICLE, OPEN APPROACH	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02NL3ZZ	PX	RELEASE LEFT VENTRICLE, PERCUTANEOUS APPROACH	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02NL4ZZ	PX	RELEASE LEFT VENTRICLE, PERCUTANEOUS ENDOSCOPIC APPROACH	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02NN0ZZ	PX	RELEASE PERICARDIUM, OPEN APPROACH	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02NN3ZZ	PX	RELEASE PERICARDIUM, PERCUTANEOUS APPROACH	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02NN4ZZ	PX	RELEASE PERICARDIUM, PERCUTANEOUS ENDOSCOPIC APPROACH	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02PA0JZ	PX	REMOVAL OF SYNTHETIC SUBSTITUTE FROM HEART, OPEN APPROACH	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02PA0QZ	PX	REMOVAL OF IMPLANTABLE HEART ASSIST SYSTEM FROM HEART, OPEN APPROACH	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02PA0RS	PX	REMOVAL OF BIVENTRICULAR SHORT-TERM EXTERNAL HEART ASSIST SYSTEM FROM HEART, OPEN APPROACH	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02PA0RZ	PX	REMOVAL OF SHORT-TERM EXTERNAL HEART ASSIST SYSTEM FROM HEART, OPEN APPROACH	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02PA0YZ	PX	REMOVAL OF OTHER DEVICE FROM HEART, OPEN APPROACH	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02PA3QZ	PX	REMOVAL OF IMPLANTABLE HEART ASSIST SYSTEM FROM HEART, PERCUTANEOUS APPROACH	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02PA3RZ	PX	REMOVAL OF SHORT-TERM EXTERNAL HEART ASSIST SYSTEM FROM HEART, PERCUTANEOUS APPROACH	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02PA4QZ	PX	REMOVAL OF IMPLANTABLE HEART ASSIST SYSTEM FROM HEART, PERCUTANEOUS ENDOSCOPIC APPROACH	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02PA4RS	PX	REMOVAL OF BIVENTRICULAR SHORT-TERM EXTERNAL HEART ASSIST SYSTEM FROM HEART, OPEN APPROACH	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02PA4RZ	PX	REMOVAL OF SHORT-TERM EXTERNAL HEART ASSIST SYSTEM FROM HEART, PERCUTANEOUS APPROACH	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02PA4YZ	PX	REMOVAL OF OTHER DEVICE FROM HEART, PERCUTANEOUS ENDOSCOPIC APPROACH	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02Q00ZZ	PX	REPAIR CORONARY ARTERY, ONE ARTERY, OPEN APPROACH	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02Q03ZZ	PX	REPAIR CORONARY ARTERY, ONE ARTERY, PERCUTANEOUS APPROACH	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02Q04ZZ	PX	REPAIR CORONARY ARTERY, ONE ARTERY, PERCUTANEOUS ENDOSCOPIC APPROACH	ICD-10-PCS

Cardiovascular event or intervention <60 days prior to screening	02Q40ZZ	PX	REPAIR CORONARY VEIN, OPEN APPROACH	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02Q43ZZ	PX	REPAIR CORONARY VEIN, PERCUTANEOUS APPROACH	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02Q44ZZ	PX	REPAIR CORONARY VEIN, PERCUTANEOUS ENDOSCOPIC APPROACH	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02Q50ZZ	PX	REPAIR ATRIAL SEPTUM, OPEN APPROACH	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02Q53ZZ	PX	REPAIR ATRIAL SEPTUM, PERCUTANEOUS APPROACH	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02Q54ZZ	PX	REPAIR ATRIAL SEPTUM, PERCUTANEOUS ENDOSCOPIC APPROACH	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02Q90ZZ	PX	REPAIR CHORDAE TENDINEAE, OPEN APPROACH	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02Q93ZZ	PX	REPAIR CHORDAE TENDINEAE, PERCUTANEOUS APPROACH	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02Q94ZZ	PX	REPAIR CHORDAE TENDINEAE, PERCUTANEOUS ENDOSCOPIC APPROACH	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02QA0ZZ	PX	REPAIR HEART, OPEN APPROACH	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02QA3ZZ	PX	REPAIR HEART, PERCUTANEOUS APPROACH	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02QA4ZZ	PX	REPAIR HEART, PERCUTANEOUS ENDOSCOPIC APPROACH	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02QB0ZZ	PX	REPAIR RIGHT HEART, OPEN APPROACH	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02QB3ZZ	PX	REPAIR RIGHT HEART, PERCUTANEOUS APPROACH	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02QB4ZZ	PX	REPAIR RIGHT HEART, PERCUTANEOUS ENDOSCOPIC APPROACH	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02QC0ZZ	PX	REPAIR LEFT HEART, OPEN APPROACH	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02QC3ZZ	PX	REPAIR LEFT HEART, PERCUTANEOUS APPROACH	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02QC4ZZ	PX	REPAIR LEFT HEART, PERCUTANEOUS ENDOSCOPIC APPROACH	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02QD0ZZ	PX	REPAIR PAPILLARY MUSCLE, OPEN APPROACH	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02QD3ZZ	PX	REPAIR PAPILLARY MUSCLE, PERCUTANEOUS APPROACH	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02QD4ZZ	PX	REPAIR PAPILLARY MUSCLE, PERCUTANEOUS ENDOSCOPIC APPROACH	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02QF0ZJ	PX	REPAIR AORTIC VALVE CREATED FROM TRUNCAL VALVE, OPEN APPROACH	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02QF0ZZ	PX	REPAIR AORTIC VALVE, OPEN APPROACH	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02QF3ZJ	PX	REPAIR AORTIC VALVE CREATED FROM TRUNCAL VALVE, PERCUTANEOUS APPROACH	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02QF3ZZ	PX	REPAIR AORTIC VALVE, PERCUTANEOUS APPROACH	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02QF4ZJ	PX	REPAIR AORTIC VALVE CREATED FROM TRUNCAL VALVE, PERCUTANEOUS ENDOSCOPIC	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02QF4ZZ	PX	REPAIR AORTIC VALVE, PERCUTANEOUS ENDOSCOPIC APPROACH	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02QG0ZE	PX	REPAIR MITRAL VALVE CREATED FROM LEFT ATRIOVENTRICULAR VALVE, OPEN APPROACH	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02QG0ZZ	PX	REPAIR MITRAL VALVE, OPEN APPROACH	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02QG3ZE	PX	REPAIR MITRAL VALVE CREATED FROM LEFT ATRIOVENTRICULAR VALVE, PERCUTANEOUS	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02QG3ZZ	PX	REPAIR MITRAL VALVE, PERCUTANEOUS APPROACH	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02QG4ZE	PX	REPAIR MITRAL VALVE CREATED FROM LEFT ATRIOVENTRICULAR VALVE, PERCUTANEOUS	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02QG4ZZ	PX	REPAIR MITRAL VALVE, PERCUTANEOUS ENDOSCOPIC APPROACH	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02QH0ZZ	PX	REPAIR PULMONARY VALVE, OPEN APPROACH	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02QH3ZZ	PX	REPAIR PULMONARY VALVE, PERCUTANEOUS APPROACH	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02QH4ZZ	PX	REPAIR PULMONARY VALVE, PERCUTANEOUS ENDOSCOPIC APPROACH	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02QJ0ZG	PX	REPAIR TRICUSPID VALVE CREATED FROM RIGHT ATRIOVENTRICULAR VALVE, OPEN APPROACH	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02QJ0ZZ	PX	REPAIR TRICUSPID VALVE, OPEN APPROACH	ICD-10-PCS

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[illegible]

[illegible]

Cardiovascular event or intervention <60 days prior to screening	02RT07Z	PX	REPLACEMENT OF LEFT PULMONARY VEIN WITH AUTOLOGOUS TISSUE SUBSTITUTE, OPE ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02RT08Z	PX	REPLACEMENT OF LEFT PULMONARY VEIN WITH ZOOPLASTIC TISSUE, OPEN APPROACH ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02RT0JZ	PX	REPLACEMENT OF LEFT PULMONARY VEIN WITH SYNTHETIC SUBSTITUTE, OPEN APPROACH ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02RT0KZ	PX	REPLACEMENT OF LEFT PULMONARY VEIN WITH NONAUTOLOGOUS TISSUE SUBSTITUTE, ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02RT47Z	PX	REPLACEMENT OF LEFT PULMONARY VEIN WITH AUTOLOGOUS TISSUE SUBSTITUTE, PER ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02RT48Z	PX	REPLACEMENT OF LEFT PULMONARY VEIN WITH ZOOPLASTIC TISSUE, PERCUTANEOUS E ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02RT4JZ	PX	REPLACEMENT OF LEFT PULMONARY VEIN WITH SYNTHETIC SUBSTITUTE, PERCUTANEOUS ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02RT4KZ	PX	REPLACEMENT OF LEFT PULMONARY VEIN WITH NONAUTOLOGOUS TISSUE SUBSTITUTE, ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02S00ZZ	PX	REPOSITION CORONARY ARTERY, ONE ARTERY, OPEN APPROACH ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02S10ZZ	PX	REPOSITION CORONARY ARTERY, TWO ARTERIES, OPEN APPROACH ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02SP0ZZ	PX	REPOSITION PULMONARY TRUNK, OPEN APPROACH ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02SW0ZZ	PX	REPOSITION THORACIC AORTA, DESCENDING, OPEN APPROACH ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02SX0ZZ	PX	REPOSITION THORACIC AORTA, ASCENDING/ARCH, OPEN APPROACH ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02T80ZZ	PX	RESECTION OF CONDUCTION MECHANISM, OPEN APPROACH ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02TN0ZZ	PX	RESECTION OF PERICARDIUM, OPEN APPROACH ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02TN3ZZ	PX	RESECTION OF PERICARDIUM, PERCUTANEOUS APPROACH ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02TN4ZZ	PX	RESECTION OF PERICARDIUM, PERCUTANEOUS ENDOSCOPIC APPROACH ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02U507Z	PX	SUPPLEMENT ATRIAL SEPTUM WITH AUTOLOGOUS TISSUE SUBSTITUTE, OPEN APPROACH ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02U508Z	PX	SUPPLEMENT ATRIAL SEPTUM WITH ZOOPLASTIC TISSUE, OPEN APPROACH ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02U50JZ	PX	SUPPLEMENT ATRIAL SEPTUM WITH SYNTHETIC SUBSTITUTE, OPEN APPROACH ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02U50KZ	PX	SUPPLEMENT ATRIAL SEPTUM WITH NONAUTOLOGOUS TISSUE SUBSTITUTE, OPEN APPROACH ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02U537Z	PX	SUPPLEMENT ATRIAL SEPTUM WITH AUTOLOGOUS TISSUE SUBSTITUTE, PERCUTANEOUS ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02U538Z	PX	SUPPLEMENT ATRIAL SEPTUM WITH ZOOPLASTIC TISSUE, PERCUTANEOUS APPROACH ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02U53JZ	PX	SUPPLEMENT ATRIAL SEPTUM WITH SYNTHETIC SUBSTITUTE, PERCUTANEOUS APPROACH ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02U53KZ	PX	SUPPLEMENT ATRIAL SEPTUM WITH NONAUTOLOGOUS TISSUE SUBSTITUTE, PERCUTANEOUS ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02U547Z	PX	SUPPLEMENT ATRIAL SEPTUM WITH AUTOLOGOUS TISSUE SUBSTITUTE, PERCUTANEOUS ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02U548Z	PX	SUPPLEMENT ATRIAL SEPTUM WITH ZOOPLASTIC TISSUE, PERCUTANEOUS ENDOSCOPIC ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02U54JZ	PX	SUPPLEMENT ATRIAL SEPTUM WITH SYNTHETIC SUBSTITUTE, PERCUTANEOUS ENDOSCOPIC ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02U54KZ	PX	SUPPLEMENT ATRIAL SEPTUM WITH NONAUTOLOGOUS TISSUE SUBSTITUTE, PERCUTANEOUS ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02UA0JZ	PX	SUPPLEMENT HEART WITH SYNTHETIC SUBSTITUTE, OPEN APPROACH ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02UA3JZ	PX	SUPPLEMENT HEART WITH SYNTHETIC SUBSTITUTE, PERCUTANEOUS APPROACH ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02UA4JZ	PX	SUPPLEMENT HEART WITH SYNTHETIC SUBSTITUTE, PERCUTANEOUS ENDOSCOPIC APPROACH ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02UG3JZ	PX	SUPPLEMENT MITRAL VALVE WITH SYNTHETIC SUBSTITUTE, PERCUTANEOUS APPROACH ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02UM07Z	PX	SUPPLEMENT VENTRICULAR SEPTUM WITH AUTOLOGOUS TISSUE SUBSTITUTE, OPEN APPROACH ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02UM0JZ	PX	SUPPLEMENT VENTRICULAR SEPTUM WITH SYNTHETIC SUBSTITUTE, OPEN APPROACH ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02UM0KZ	PX	SUPPLEMENT VENTRICULAR SEPTUM WITH NONAUTOLOGOUS TISSUE SUBSTITUTE, OPEN APPROACH ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02UM37Z	PX	SUPPLEMENT VENTRICULAR SEPTUM WITH AUTOLOGOUS TISSUE SUBSTITUTE, PERCUTANEOUS ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02UM38Z	PX	SUPPLEMENT VENTRICULAR SEPTUM WITH ZOOPLASTIC TISSUE, PERCUTANEOUS APPROACH ICD-10-PCS

Cardiovascular event or intervention <60 days prior to screening	02UM3JZ	PX	SUPPLEMENT VENTRICULAR SEPTUM WITH SYNTHETIC SUBSTITUTE, PERCUTANEOUS AICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02UM3KZ	PX	SUPPLEMENT VENTRICULAR SEPTUM WITH NONAUTOLOGOUS TISSUE SUBSTITUTE, PERICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02UM47Z	PX	SUPPLEMENT VENTRICULAR SEPTUM WITH AUTOLOGOUS TISSUE SUBSTITUTE, PERCUTICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02UM48Z	PX	SUPPLEMENT VENTRICULAR SEPTUM WITH ZOOPLASTIC TISSUE, PERCUTANEOUS ENDOICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02UM4JZ	PX	SUPPLEMENT VENTRICULAR SEPTUM WITH SYNTHETIC SUBSTITUTE, PERCUTANEOUS ENICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02UM4KZ	PX	SUPPLEMENT VENTRICULAR SEPTUM WITH NONAUTOLOGOUS TISSUE SUBSTITUTE, PERICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02UW3JZ	PX	SUPPLEMENT THORACIC AORTA, DESCENDING WITH SYNTHETIC SUBSTITUTE, PERCUTANICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02UW4JZ	PX	SUPPLEMENT THORACIC AORTA, DESCENDING WITH SYNTHETIC SUBSTITUTE, PERCUTANICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02UX3JZ	PX	SUPPLEMENT THORACIC AORTA, ASCENDING/ARCH WITH SYNTHETIC SUBSTITUTE, PERCICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02UX4JZ	PX	SUPPLEMENT THORACIC AORTA, ASCENDING/ARCH WITH SYNTHETIC SUBSTITUTE, PERCICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02VG0ZZ	PX	RESTRICTION OF MITRAL VALVE, OPEN APPROACHICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02VG3ZZ	PX	RESTRICTION OF MITRAL VALVE, PERCUTANEOUS APPROACHICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02VG4ZZ	PX	RESTRICTION OF MITRAL VALVE, PERCUTANEOUS ENDOSCOPIC APPROACHICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02VP0DZ	PX	RESTRICTION OF PULMONARY TRUNK WITH INTRALUMINAL DEVICE, OPEN APPROACHICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02VP0ZZ	PX	RESTRICTION OF PULMONARY TRUNK, OPEN APPROACHICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02VP3DZ	PX	RESTRICTION OF PULMONARY TRUNK WITH INTRALUMINAL DEVICE, PERCUTANEOUS APICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02VP3ZZ	PX	RESTRICTION OF PULMONARY TRUNK, PERCUTANEOUS APPROACHICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02VP4DZ	PX	RESTRICTION OF PULMONARY TRUNK WITH INTRALUMINAL DEVICE, PERCUTANEOUS ENICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02VP4ZZ	PX	RESTRICTION OF PULMONARY TRUNK, PERCUTANEOUS ENDOSCOPIC APPROACHICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02VQ0DZ	PX	RESTRICTION OF RIGHT PULMONARY ARTERY WITH INTRALUMINAL DEVICE, OPEN APPROACHICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02VQ0ZZ	PX	RESTRICTION OF RIGHT PULMONARY ARTERY, OPEN APPROACHICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02VQ3DZ	PX	RESTRICTION OF RIGHT PULMONARY ARTERY WITH INTRALUMINAL DEVICE, PERCUTANECICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02VQ3ZZ	PX	RESTRICTION OF RIGHT PULMONARY ARTERY, PERCUTANEOUS APPROACHICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02VQ4DZ	PX	RESTRICTION OF RIGHT PULMONARY ARTERY WITH INTRALUMINAL DEVICE, PERCUTANECICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02VQ4ZZ	PX	RESTRICTION OF RIGHT PULMONARY ARTERY, PERCUTANEOUS ENDOSCOPIC APPROACHICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02VR0DT	PX	RESTRICTION OF DUCTUS ARTERIOSUS WITH INTRALUMINAL DEVICE, OPEN APPROACHICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02VR0DZ	PX	RESTRICTION OF LEFT PULMONARY ARTERY WITH INTRALUMINAL DEVICE, OPEN APPROACHICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02VR0ZT	PX	RESTRICTION OF DUCTUS ARTERIOSUS, OPEN APPROACHICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02VR0ZZ	PX	RESTRICTION OF LEFT PULMONARY ARTERY, OPEN APPROACHICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02VR3DT	PX	RESTRICTION OF DUCTUS ARTERIOSUS WITH INTRALUMINAL DEVICE, PERCUTANEOUS AICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02VR3DZ	PX	RESTRICTION OF LEFT PULMONARY ARTERY WITH INTRALUMINAL DEVICE, PERCUTANECICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02VR3ZT	PX	RESTRICTION OF DUCTUS ARTERIOSUS, PERCUTANEOUS APPROACHICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02VR3ZZ	PX	RESTRICTION OF LEFT PULMONARY ARTERY, PERCUTANEOUS APPROACHICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02VR4DT	PX	RESTRICTION OF DUCTUS ARTERIOSUS WITH INTRALUMINAL DEVICE, PERCUTANEOUS ENICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02VR4DZ	PX	RESTRICTION OF LEFT PULMONARY ARTERY WITH INTRALUMINAL DEVICE, PERCUTANECICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02VR4ZT	PX	RESTRICTION OF DUCTUS ARTERIOSUS, PERCUTANEOUS ENDOSCOPIC APPROACHICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02VR4ZZ	PX	RESTRICTION OF LEFT PULMONARY ARTERY, PERCUTANEOUS ENDOSCOPIC APPROACHICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02VS0DZ	PX	RESTRICTION OF RIGHT PULMONARY VEIN WITH INTRALUMINAL DEVICE, OPEN APPROACHICD-10-PCS

Cardiovascular event or intervention <60 days prior to screening	02VS0ZZ	PX	RESTRICTION OF RIGHT PULMONARY VEIN, OPEN APPROACH	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02VS3DZ	PX	RESTRICTION OF RIGHT PULMONARY VEIN WITH INTRALUMINAL DEVICE, PERCUTANEOUS	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02VS3ZZ	PX	RESTRICTION OF RIGHT PULMONARY VEIN, PERCUTANEOUS APPROACH	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02VS4DZ	PX	RESTRICTION OF RIGHT PULMONARY VEIN WITH INTRALUMINAL DEVICE, PERCUTANEOUS	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02VS4ZZ	PX	RESTRICTION OF RIGHT PULMONARY VEIN, PERCUTANEOUS ENDOSCOPIC APPROACH	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02VT0DZ	PX	RESTRICTION OF LEFT PULMONARY VEIN WITH INTRALUMINAL DEVICE, OPEN APPROACH	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02VT0ZZ	PX	RESTRICTION OF LEFT PULMONARY VEIN, OPEN APPROACH	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02VT3DZ	PX	RESTRICTION OF LEFT PULMONARY VEIN WITH INTRALUMINAL DEVICE, PERCUTANEOUS	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02VT3ZZ	PX	RESTRICTION OF LEFT PULMONARY VEIN, PERCUTANEOUS APPROACH	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02VT4DZ	PX	RESTRICTION OF LEFT PULMONARY VEIN WITH INTRALUMINAL DEVICE, PERCUTANEOUS	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02VT4ZZ	PX	RESTRICTION OF LEFT PULMONARY VEIN, PERCUTANEOUS ENDOSCOPIC APPROACH	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02VW0DZ	PX	RESTRICTION OF THORACIC AORTA, DESCENDING WITH INTRALUMINAL DEVICE, OPEN AP	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02VW0ZZ	PX	RESTRICTION OF THORACIC AORTA, DESCENDING, OPEN APPROACH	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02VW3DZ	PX	RESTRICTION OF THORACIC AORTA, DESCENDING WITH INTRALUMINAL DEVICE, PERCUT	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02VW4DZ	PX	RESTRICTION OF THORACIC AORTA, DESCENDING WITH INTRALUMINAL DEVICE, PERCUT	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02VW4ZZ	PX	RESTRICTION OF THORACIC AORTA, DESCENDING, PERCUTANEOUS ENDOSCOPIC APPRO	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02VX0DZ	PX	RESTRICTION OF THORACIC AORTA, ASCENDING/ARCH WITH INTRALUMINAL DEVICE, OPE	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02VX0ZZ	PX	RESTRICTION OF THORACIC AORTA, ASCENDING/ARCH, OPEN APPROACH	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02VX3DZ	PX	RESTRICTION OF THORACIC AORTA, ASCENDING/ARCH WITH INTRALUMINAL DEVICE, PER	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02VX4DZ	PX	RESTRICTION OF THORACIC AORTA, ASCENDING/ARCH WITH INTRALUMINAL DEVICE, PER	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02VX4ZZ	PX	RESTRICTION OF THORACIC AORTA, ASCENDING/ARCH, PERCUTANEOUS ENDOSCOPIC AF	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02W50JZ	PX	REVISION OF SYNTHETIC SUBSTITUTE IN ATRIAL SEPTUM, OPEN APPROACH	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02W54JZ	PX	REVISION OF SYNTHETIC SUBSTITUTE IN ATRIAL SEPTUM, PERCUTANEOUS ENDOSCOPIC	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02WA0JZ	PX	REVISION OF SYNTHETIC SUBSTITUTE IN HEART, OPEN APPROACH	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02WA0QZ	PX	REVISION OF IMPLANTABLE HEART ASSIST SYSTEM IN HEART, OPEN APPROACH	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02WA0RS	PX	REVISION OF BIVENTRICULAR SHORT-TERM EXTERNAL HEART ASSIST SYSTEM IN HEART, ICD	10-PCS
Cardiovascular event or intervention <60 days prior to screening	02WA0RZ	PX	REVISION OF SHORT-TERM EXTERNAL HEART ASSIST SYSTEM IN HEART, OPEN APPROACH	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02WA0YZ	PX	REVISION OF OTHER DEVICE IN HEART, OPEN APPROACH	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02WA3QZ	PX	REVISION OF IMPLANTABLE HEART ASSIST SYSTEM IN HEART, PERCUTANEOUS APPROACH	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02WA3RS	PX	REVISION OF BIVENTRICULAR SHORT-TERM EXTERNAL HEART ASSIST SYSTEM IN HEART, ICD	10-PCS
Cardiovascular event or intervention <60 days prior to screening	02WA3RZ	PX	REVISION OF SHORT-TERM EXTERNAL HEART ASSIST SYSTEM IN HEART, PERCUTANEOUS	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02WA3YZ	PX	REVISION OF OTHER DEVICE IN HEART, PERCUTANEOUS APPROACH	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02WA4QZ	PX	REVISION OF IMPLANTABLE HEART ASSIST SYSTEM IN HEART, PERCUTANEOUS ENDOSC	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02WA4RS	PX	REVISION OF BIVENTRICULAR SHORT-TERM EXTERNAL HEART ASSIST SYSTEM IN HEART, ICD	10-PCS
Cardiovascular event or intervention <60 days prior to screening	02WA4RZ	PX	REVISION OF SHORT-TERM EXTERNAL HEART ASSIST SYSTEM IN HEART, PERCUTANEOUS	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02WA4YZ	PX	REVISION OF OTHER DEVICE IN HEART, PERCUTANEOUS ENDOSCOPIC APPROACH	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02WF07Z	PX	REVISION OF AUTOLOGOUS TISSUE SUBSTITUTE IN AORTIC VALVE, OPEN APPROACH	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02WF08Z	PX	REVISION OF ZOOPLASTIC TISSUE IN AORTIC VALVE, OPEN APPROACH	ICD-10-PCS

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Cardiovascular event or intervention <60 days prior to screening	02WJ37Z	PX	REVISION OF AUTOLOGOUS TISSUE SUBSTITUTE IN TRICUSPID VALVE, PERCUTANEOUS AI ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02WJ38Z	PX	REVISION OF ZOOPLASTIC TISSUE IN TRICUSPID VALVE, PERCUTANEOUS APPROACH ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02WJ3JZ	PX	REVISION OF SYNTHETIC SUBSTITUTE IN TRICUSPID VALVE, PERCUTANEOUS APPROACH ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02WJ3KZ	PX	REVISION OF NONAUTOLOGOUS TISSUE SUBSTITUTE IN TRICUSPID VALVE, PERCUTANEOUS ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02WJ47Z	PX	REVISION OF AUTOLOGOUS TISSUE SUBSTITUTE IN TRICUSPID VALVE, PERCUTANEOUS EI ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02WJ48Z	PX	REVISION OF ZOOPLASTIC TISSUE IN TRICUSPID VALVE, PERCUTANEOUS ENDOSCOPIC AF ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02WJ4JZ	PX	REVISION OF SYNTHETIC SUBSTITUTE IN TRICUSPID VALVE, PERCUTANEOUS ENDOSCOPIC ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02WJ4KZ	PX	REVISION OF NONAUTOLOGOUS TISSUE SUBSTITUTE IN TRICUSPID VALVE, PERCUTANEOUS ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02WM0JZ	PX	REVISION OF SYNTHETIC SUBSTITUTE IN VENTRICULAR SEPTUM, OPEN APPROACH ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	02WM4JZ	PX	REVISION OF SYNTHETIC SUBSTITUTE IN VENTRICULAR SEPTUM, PERCUTANEOUS ENDOS ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	031209B	PX	BYPASS INNOMINATE ARTERY TO LEFT LOWER LEG ARTERY WITH AUTOLOGOUS VENOUS ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	031209C	PX	BYPASS INNOMINATE ARTERY TO BILATERAL LOWER LEG ARTERY WITH AUTOLOGOUS VI ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	031209D	PX	BYPASS INNOMINATE ARTERY TO UPPER ARM VEIN WITH AUTOLOGOUS VENOUS TISSUE, I ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	031209F	PX	BYPASS INNOMINATE ARTERY TO LOWER ARM VEIN WITH AUTOLOGOUS VENOUS TISSUE, ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	031209J	PX	BYPASS INNOMINATE ARTERY TO RIGHT EXTRACRANIAL ARTERY WITH AUTOLOGOUS VEI ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	031209K	PX	BYPASS INNOMINATE ARTERY TO LEFT EXTRACRANIAL ARTERY WITH AUTOLOGOUS VEN ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	03120A0	PX	BYPASS INNOMINATE ARTERY TO RIGHT UPPER ARM ARTERY WITH AUTOLOGOUS ARTER ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	03120A1	PX	BYPASS INNOMINATE ARTERY TO LEFT UPPER ARM ARTERY WITH AUTOLOGOUS ARTERII ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	03120A2	PX	BYPASS INNOMINATE ARTERY TO BILATERAL UPPER ARM ARTERY WITH AUTOLOGOUS A ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	03120A3	PX	BYPASS INNOMINATE ARTERY TO RIGHT LOWER ARM ARTERY WITH AUTOLOGOUS ARTER ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	03120A4	PX	BYPASS INNOMINATE ARTERY TO LEFT LOWER ARM ARTERY WITH AUTOLOGOUS ARTERI ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	03120A5	PX	BYPASS INNOMINATE ARTERY TO BILATERAL LOWER ARM ARTERY WITH AUTOLOGOUS A ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	03120A6	PX	BYPASS INNOMINATE ARTERY TO RIGHT UPPER LEG ARTERY WITH AUTOLOGOUS ARTERI ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	03120A7	PX	BYPASS INNOMINATE ARTERY TO LEFT UPPER LEG ARTERY WITH AUTOLOGOUS ARTERIA ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	03120A8	PX	BYPASS INNOMINATE ARTERY TO BILATERAL UPPER LEG ARTERY WITH AUTOLOGOUS AF ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	03120A9	PX	BYPASS INNOMINATE ARTERY TO RIGHT LOWER LEG ARTERY WITH AUTOLOGOUS ARTERI ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	03120AB	PX	BYPASS INNOMINATE ARTERY TO LEFT LOWER LEG ARTERY WITH AUTOLOGOUS ARTERII ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	03120AC	PX	BYPASS INNOMINATE ARTERY TO BILATERAL LOWER LEG ARTERY WITH AUTOLOGOUS AI ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	03120AD	PX	BYPASS INNOMINATE ARTERY TO UPPER ARM VEIN WITH AUTOLOGOUS ARTERIAL TISSUI ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	03120AF	PX	BYPASS INNOMINATE ARTERY TO LOWER ARM VEIN WITH AUTOLOGOUS ARTERIAL TISSU ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	03120AJ	PX	BYPASS INNOMINATE ARTERY TO RIGHT EXTRACRANIAL ARTERY WITH AUTOLOGOUS AR ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	03120AK	PX	BYPASS INNOMINATE ARTERY TO LEFT EXTRACRANIAL ARTERY WITH AUTOLOGOUS ART ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	03120J0	PX	BYPASS INNOMINATE ARTERY TO RIGHT UPPER ARM ARTERY WITH SYNTHETIC SUBSTITU ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	03120J1	PX	BYPASS INNOMINATE ARTERY TO LEFT UPPER ARM ARTERY WITH SYNTHETIC SUBSTITUT ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	03120J2	PX	BYPASS INNOMINATE ARTERY TO BILATERAL UPPER ARM ARTERY WITH SYNTHETIC SUB ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	03120J3	PX	BYPASS INNOMINATE ARTERY TO RIGHT LOWER ARM ARTERY WITH SYNTHETIC SUBSTITU ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	03120J4	PX	BYPASS INNOMINATE ARTERY TO LEFT LOWER ARM ARTERY WITH SYNTHETIC SUBSTITU ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	03120J5	PX	BYPASS INNOMINATE ARTERY TO BILATERAL LOWER ARM ARTERY WITH SYNTHETIC SUB ICD-10-PCS

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Cardiovascular event or intervention <60 days prior to screening	031L0AK	PX	BYPASS LEFT INTERNAL CAROTID ARTERY TO LEFT EXTRACRANIAL ARTERY WITH AUTO ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	031L0JK	PX	BYPASS LEFT INTERNAL CAROTID ARTERY TO LEFT EXTRACRANIAL ARTERY WITH SYNTH ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	031L0KK	PX	BYPASS LEFT INTERNAL CAROTID ARTERY TO LEFT EXTRACRANIAL ARTERY WITH NONA ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	031L0ZK	PX	BYPASS LEFT INTERNAL CAROTID ARTERY TO LEFT EXTRACRANIAL ARTERY, OPEN APPR ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	031M09J	PX	BYPASS RIGHT EXTERNAL CAROTID ARTERY TO RIGHT EXTRACRANIAL ARTERY WITH AU ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	031M0AJ	PX	BYPASS RIGHT EXTERNAL CAROTID ARTERY TO RIGHT EXTRACRANIAL ARTERY WITH AU ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	031M0JJ	PX	BYPASS RIGHT EXTERNAL CAROTID ARTERY TO RIGHT EXTRACRANIAL ARTERY WITH SYN ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	031M0KJ	PX	BYPASS RIGHT EXTERNAL CAROTID ARTERY TO RIGHT EXTRACRANIAL ARTERY WITH NOI ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	031M0ZJ	PX	BYPASS RIGHT EXTERNAL CAROTID ARTERY TO RIGHT EXTRACRANIAL ARTERY, OPEN AF ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	031N09K	PX	BYPASS LEFT EXTERNAL CAROTID ARTERY TO LEFT EXTRACRANIAL ARTERY WITH AUTC ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	031N0AK	PX	BYPASS LEFT EXTERNAL CAROTID ARTERY TO LEFT EXTRACRANIAL ARTERY WITH AUTC ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	031N0JK	PX	BYPASS LEFT EXTERNAL CAROTID ARTERY TO LEFT EXTRACRANIAL ARTERY WITH SYNT ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	031N0KK	PX	BYPASS LEFT EXTERNAL CAROTID ARTERY TO LEFT EXTRACRANIAL ARTERY WITH NONA ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	031N0ZK	PX	BYPASS LEFT EXTERNAL CAROTID ARTERY TO LEFT EXTRACRANIAL ARTERY, OPEN APPI ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	03B00ZZ	PX	EXCISION OF RIGHT INTERNAL MAMMARY ARTERY, OPEN APPROACH ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	03B04ZZ	PX	EXCISION OF RIGHT INTERNAL MAMMARY ARTERY, PERCUTANEOUS ENDOSCOPIC APPR ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	03B10ZZ	PX	EXCISION OF LEFT INTERNAL MAMMARY ARTERY, OPEN APPROACH ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	03B14ZZ	PX	EXCISION OF LEFT INTERNAL MAMMARY ARTERY, PERCUTANEOUS ENDOSCOPIC APPRO ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	03B20ZZ	PX	EXCISION OF INNOMINATE ARTERY, OPEN APPROACH ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	03B24ZZ	PX	EXCISION OF INNOMINATE ARTERY, PERCUTANEOUS ENDOSCOPIC APPROACH ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	03B30ZZ	PX	EXCISION OF RIGHT SUBCLAVIAN ARTERY, OPEN APPROACH ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	03B34ZZ	PX	EXCISION OF RIGHT SUBCLAVIAN ARTERY, PERCUTANEOUS ENDOSCOPIC APPROACH ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	03B40ZZ	PX	EXCISION OF LEFT SUBCLAVIAN ARTERY, OPEN APPROACH ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	03B44ZZ	PX	EXCISION OF LEFT SUBCLAVIAN ARTERY, PERCUTANEOUS ENDOSCOPIC APPROACH ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	03C23ZZ	PX	EXTIRPATION OF MATTER FROM INNOMINATE ARTERY, PERCUTANEOUS APPROACH ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	03C33ZZ	PX	EXTIRPATION OF MATTER FROM RIGHT SUBCLAVIAN ARTERY, PERCUTANEOUS APPROACH ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	03C43ZZ	PX	EXTIRPATION OF MATTER FROM LEFT SUBCLAVIAN ARTERY, PERCUTANEOUS APPROACH ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	03L23ZZ	PX	OCCLUSION OF INNOMINATE ARTERY, PERCUTANEOUS APPROACH ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	03L33ZZ	PX	OCCLUSION OF RIGHT SUBCLAVIAN ARTERY, PERCUTANEOUS APPROACH ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	03L43ZZ	PX	OCCLUSION OF LEFT SUBCLAVIAN ARTERY, PERCUTANEOUS APPROACH ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	03LH3ZZ	PX	OCCLUSION OF RIGHT COMMON CAROTID ARTERY, PERCUTANEOUS APPROACH ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	03LJ3ZZ	PX	OCCLUSION OF LEFT COMMON CAROTID ARTERY, PERCUTANEOUS APPROACH ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	03LK3ZZ	PX	OCCLUSION OF RIGHT INTERNAL CAROTID ARTERY, PERCUTANEOUS APPROACH ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	03LL3ZZ	PX	OCCLUSION OF LEFT INTERNAL CAROTID ARTERY, PERCUTANEOUS APPROACH ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	03LM3ZZ	PX	OCCLUSION OF RIGHT EXTERNAL CAROTID ARTERY, PERCUTANEOUS APPROACH ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	03LN3ZZ	PX	OCCLUSION OF LEFT EXTERNAL CAROTID ARTERY, PERCUTANEOUS APPROACH ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	03R147Z	PX	REPLACEMENT OF LEFT INTERNAL MAMMARY ARTERY WITH AUTOLOGOUS TISSUE SUBS ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	03R14JZ	PX	REPLACEMENT OF LEFT INTERNAL MAMMARY ARTERY WITH SYNTHETIC SUBSTITUTE, PE ICD-10-PCS

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Cardiovascular event or intervention <60 days prior to screening	03VM4ZZ	PX	RESTRICTION OF RIGHT EXTERNAL CAROTID ARTERY, PERCUTANEOUS ENDOSCOPIC APPROACH	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	03VN0ZZ	PX	RESTRICTION OF LEFT EXTERNAL CAROTID ARTERY, OPEN APPROACH	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	03VN3ZZ	PX	RESTRICTION OF LEFT EXTERNAL CAROTID ARTERY, PERCUTANEOUS APPROACH	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	03VN4ZZ	PX	RESTRICTION OF LEFT EXTERNAL CAROTID ARTERY, PERCUTANEOUS ENDOSCOPIC APPROACH	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	03VP0ZZ	PX	RESTRICTION OF RIGHT VERTEBRAL ARTERY, OPEN APPROACH	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	03VP4ZZ	PX	RESTRICTION OF RIGHT VERTEBRAL ARTERY, PERCUTANEOUS ENDOSCOPIC APPROACH	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	03VQ0ZZ	PX	RESTRICTION OF LEFT VERTEBRAL ARTERY, OPEN APPROACH	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	03VQ4ZZ	PX	RESTRICTION OF LEFT VERTEBRAL ARTERY, PERCUTANEOUS ENDOSCOPIC APPROACH	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	03VR0ZZ	PX	RESTRICTION OF FACE ARTERY, OPEN APPROACH	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	03VR4ZZ	PX	RESTRICTION OF FACE ARTERY, PERCUTANEOUS ENDOSCOPIC APPROACH	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	03VS0ZZ	PX	RESTRICTION OF RIGHT TEMPORAL ARTERY, OPEN APPROACH	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	03VS4ZZ	PX	RESTRICTION OF RIGHT TEMPORAL ARTERY, PERCUTANEOUS ENDOSCOPIC APPROACH	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	03VT0ZZ	PX	RESTRICTION OF LEFT TEMPORAL ARTERY, OPEN APPROACH	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	03VT4ZZ	PX	RESTRICTION OF LEFT TEMPORAL ARTERY, PERCUTANEOUS ENDOSCOPIC APPROACH	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	03VU0ZZ	PX	RESTRICTION OF RIGHT THYROID ARTERY, OPEN APPROACH	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	03VU4ZZ	PX	RESTRICTION OF RIGHT THYROID ARTERY, PERCUTANEOUS ENDOSCOPIC APPROACH	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	03VV0ZZ	PX	RESTRICTION OF LEFT THYROID ARTERY, OPEN APPROACH	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	03VV4ZZ	PX	RESTRICTION OF LEFT THYROID ARTERY, PERCUTANEOUS ENDOSCOPIC APPROACH	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	03VY0ZZ	PX	RESTRICTION OF UPPER ARTERY, OPEN APPROACH	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	03VY4ZZ	PX	RESTRICTION OF UPPER ARTERY, PERCUTANEOUS ENDOSCOPIC APPROACH	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	04I009B	PX	BYPASS ABDOMINAL AORTA TO LEFT INTERNAL ILIAC ARTERY WITH AUTOLOGOUS VENO	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	04I009C	PX	BYPASS ABDOMINAL AORTA TO BILATERAL INTERNAL ILIAC ARTERIES WITH AUTOLOGO	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	04I009D	PX	BYPASS ABDOMINAL AORTA TO RIGHT EXTERNAL ILIAC ARTERY WITH AUTOLOGOUS VEN	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	04I009F	PX	BYPASS ABDOMINAL AORTA TO LEFT EXTERNAL ILIAC ARTERY WITH AUTOLOGOUS VENC	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	04I009G	PX	BYPASS ABDOMINAL AORTA TO BILATERAL EXTERNAL ILIAC ARTERIES WITH AUTOLOGO	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	04I009H	PX	BYPASS ABDOMINAL AORTA TO RIGHT FEMORAL ARTERY WITH AUTOLOGOUS VENOUS TI	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	04I009J	PX	BYPASS ABDOMINAL AORTA TO LEFT FEMORAL ARTERY WITH AUTOLOGOUS VENOUS TI	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	04I009K	PX	BYPASS ABDOMINAL AORTA TO BILATERAL FEMORAL ARTERIES WITH AUTOLOGOUS VEN	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	04I009Q	PX	BYPASS ABDOMINAL AORTA TO LOWER EXTREMITY ARTERY WITH AUTOLOGOUS VENOU	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	04I009R	PX	BYPASS ABDOMINAL AORTA TO LOWER ARTERY WITH AUTOLOGOUS VENOUS TISSUE, OP	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	04I00A6	PX	BYPASS ABDOMINAL AORTA TO RIGHT COMMON ILIAC ARTERY WITH AUTOLOGOUS ARTE	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	04I00A7	PX	BYPASS ABDOMINAL AORTA TO LEFT COMMON ILIAC ARTERY WITH AUTOLOGOUS ARTER	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	04I00A8	PX	BYPASS ABDOMINAL AORTA TO BILATERAL COMMON ILIAC ARTERIES WITH AUTOLOGOU	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	04I00A9	PX	BYPASS ABDOMINAL AORTA TO RIGHT INTERNAL ILIAC ARTERY WITH AUTOLOGOUS ARTI	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	04I00AB	PX	BYPASS ABDOMINAL AORTA TO LEFT INTERNAL ILIAC ARTERY WITH AUTOLOGOUS ARTE	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	04I00AC	PX	BYPASS ABDOMINAL AORTA TO BILATERAL INTERNAL ILIAC ARTERIES WITH AUTOLOGO	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	04I00AD	PX	BYPASS ABDOMINAL AORTA TO RIGHT EXTERNAL ILIAC ARTERY WITH AUTOLOGOUS ART	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	04I00AF	PX	BYPASS ABDOMINAL AORTA TO LEFT EXTERNAL ILIAC ARTERY WITH AUTOLOGOUS ARTE	ICD-10-PCS

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Cardiovascular event or intervention <60 days prior to screening	041W4AS	PX	BYPASS LEFT FOOT ARTERY TO LOWER EXTREMITY VEIN WITH AUTOLOGOUS ARTERIAL T	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	041W4JP	PX	BYPASS LEFT FOOT ARTERY TO FOOT ARTERY WITH SYNTHETIC SUBSTITUTE, PERCUTAN	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	041W4JQ	PX	BYPASS LEFT FOOT ARTERY TO LOWER EXTREMITY ARTERY WITH SYNTHETIC SUBSTITU	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	041W4JS	PX	BYPASS LEFT FOOT ARTERY TO LOWER EXTREMITY VEIN WITH SYNTHETIC SUBSTITUTE, F	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	041W4KP	PX	BYPASS LEFT FOOT ARTERY TO FOOT ARTERY WITH NONAUTOLOGOUS TISSUE SUBSTITU	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	041W4KQ	PX	BYPASS LEFT FOOT ARTERY TO LOWER EXTREMITY ARTERY WITH NONAUTOLOGOUS TIS	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	041W4KS	PX	BYPASS LEFT FOOT ARTERY TO LOWER EXTREMITY VEIN WITH NONAUTOLOGOUS TISSUE	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	041W4ZP	PX	BYPASS LEFT FOOT ARTERY TO FOOT ARTERY, PERCUTANEOUS ENDOSCOPIC APPROACH	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	041W4ZQ	PX	BYPASS LEFT FOOT ARTERY TO LOWER EXTREMITY ARTERY, PERCUTANEOUS ENDOSCOF	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	041W4ZS	PX	BYPASS LEFT FOOT ARTERY TO LOWER EXTREMITY VEIN, PERCUTANEOUS ENDOSCOPIC ,	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	04500ZZ	PX	DESTRUCTION OF ABDOMINAL AORTA, OPEN APPROACH	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	04503ZZ	PX	DESTRUCTION OF ABDOMINAL AORTA, PERCUTANEOUS APPROACH	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	04504ZZ	PX	DESTRUCTION OF ABDOMINAL AORTA, PERCUTANEOUS ENDOSCOPIC APPROACH	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	04B00ZZ	PX	EXCISION OF ABDOMINAL AORTA, OPEN APPROACH	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	04B03ZZ	PX	EXCISION OF ABDOMINAL AORTA, PERCUTANEOUS APPROACH	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	04B04ZZ	PX	EXCISION OF ABDOMINAL AORTA, PERCUTANEOUS ENDOSCOPIC APPROACH	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	04B10ZZ	PX	EXCISION OF CELIAC ARTERY, OPEN APPROACH	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	04B14ZZ	PX	EXCISION OF CELIAC ARTERY, PERCUTANEOUS ENDOSCOPIC APPROACH	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	04B20ZZ	PX	EXCISION OF GASTRIC ARTERY, OPEN APPROACH	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	04B24ZZ	PX	EXCISION OF GASTRIC ARTERY, PERCUTANEOUS ENDOSCOPIC APPROACH	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	04B30ZZ	PX	EXCISION OF HEPATIC ARTERY, OPEN APPROACH	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	04B34ZZ	PX	EXCISION OF HEPATIC ARTERY, PERCUTANEOUS ENDOSCOPIC APPROACH	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	04B40ZZ	PX	EXCISION OF SPLENIC ARTERY, OPEN APPROACH	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	04B44ZZ	PX	EXCISION OF SPLENIC ARTERY, PERCUTANEOUS ENDOSCOPIC APPROACH	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	04B50ZZ	PX	EXCISION OF SUPERIOR MESENTERIC ARTERY, OPEN APPROACH	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	04B54ZZ	PX	EXCISION OF SUPERIOR MESENTERIC ARTERY, PERCUTANEOUS ENDOSCOPIC APPROACH	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	04B60ZZ	PX	EXCISION OF RIGHT COLIC ARTERY, OPEN APPROACH	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	04B64ZZ	PX	EXCISION OF RIGHT COLIC ARTERY, PERCUTANEOUS ENDOSCOPIC APPROACH	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	04B70ZZ	PX	EXCISION OF LEFT COLIC ARTERY, OPEN APPROACH	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	04B74ZZ	PX	EXCISION OF LEFT COLIC ARTERY, PERCUTANEOUS ENDOSCOPIC APPROACH	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	04B80ZZ	PX	EXCISION OF MIDDLE COLIC ARTERY, OPEN APPROACH	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	04B84ZZ	PX	EXCISION OF MIDDLE COLIC ARTERY, PERCUTANEOUS ENDOSCOPIC APPROACH	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	04B90ZZ	PX	EXCISION OF RIGHT RENAL ARTERY, OPEN APPROACH	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	04B94ZZ	PX	EXCISION OF RIGHT RENAL ARTERY, PERCUTANEOUS ENDOSCOPIC APPROACH	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	04BA0ZZ	PX	EXCISION OF LEFT RENAL ARTERY, OPEN APPROACH	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	04BA4ZZ	PX	EXCISION OF LEFT RENAL ARTERY, PERCUTANEOUS ENDOSCOPIC APPROACH	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	04BB0ZZ	PX	EXCISION OF INFERIOR MESENTERIC ARTERY, OPEN APPROACH	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	04BB4ZZ	PX	EXCISION OF INFERIOR MESENTERIC ARTERY, PERCUTANEOUS ENDOSCOPIC APPROACH	ICD-10-PCS

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Cardiovascular event or intervention <60 days prior to screening	0BYG0Z0	PX	TRANSPLANTATION OF LEFT UPPER LUNG LOBE, ALLOGENEIC, OPEN APPROACH	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	0BYG0Z1	PX	TRANSPLANTATION OF LEFT UPPER LUNG LOBE, SYNGENEIC, OPEN APPROACH	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	0BYG0Z2	PX	TRANSPLANTATION OF LEFT UPPER LUNG LOBE, ZOOPLASTIC, OPEN APPROACH	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	0BYH0Z0	PX	TRANSPLANTATION OF LUNG LINGULA, ALLOGENEIC, OPEN APPROACH	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	0BYH0Z1	PX	TRANSPLANTATION OF LUNG LINGULA, SYNGENEIC, OPEN APPROACH	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	0BYH0Z2	PX	TRANSPLANTATION OF LUNG LINGULA, ZOOPLASTIC, OPEN APPROACH	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	0BYJ0Z0	PX	TRANSPLANTATION OF LEFT LOWER LUNG LOBE, ALLOGENEIC, OPEN APPROACH	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	0BYJ0Z1	PX	TRANSPLANTATION OF LEFT LOWER LUNG LOBE, SYNGENEIC, OPEN APPROACH	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	0BYJ0Z2	PX	TRANSPLANTATION OF LEFT LOWER LUNG LOBE, ZOOPLASTIC, OPEN APPROACH	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	0BYK0Z0	PX	TRANSPLANTATION OF RIGHT LUNG, ALLOGENEIC, OPEN APPROACH	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	0BYK0Z1	PX	TRANSPLANTATION OF RIGHT LUNG, SYNGENEIC, OPEN APPROACH	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	0BYK0Z2	PX	TRANSPLANTATION OF RIGHT LUNG, ZOOPLASTIC, OPEN APPROACH	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	0BYL0Z0	PX	TRANSPLANTATION OF LEFT LUNG, ALLOGENEIC, OPEN APPROACH	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	0BYL0Z1	PX	TRANSPLANTATION OF LEFT LUNG, SYNGENEIC, OPEN APPROACH	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	0BYL0Z2	PX	TRANSPLANTATION OF LEFT LUNG, ZOOPLASTIC, OPEN APPROACH	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	0BYM0Z0	PX	TRANSPLANTATION OF BILATERAL LUNGS, ALLOGENEIC, OPEN APPROACH	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	0BYM0Z1	PX	TRANSPLANTATION OF BILATERAL LUNGS, SYNGENEIC, OPEN APPROACH	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	0BYM0Z2	PX	TRANSPLANTATION OF BILATERAL LUNGS, ZOOPLASTIC, OPEN APPROACH	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	0W9C30Z	PX	DRAINAGE OF MEDIASTINUM WITH DRAINAGE DEVICE, PERCUTANEOUS APPROACH	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	0W9C3ZZ	PX	DRAINAGE OF MEDIASTINUM, PERCUTANEOUS APPROACH	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	0W9D00Z	PX	DRAINAGE OF PERICARDIAL CAVITY WITH DRAINAGE DEVICE, OPEN APPROACH	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	0W9D0ZX	PX	DRAINAGE OF PERICARDIAL CAVITY, OPEN APPROACH, DIAGNOSTIC	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	0W9D0ZZ	PX	DRAINAGE OF PERICARDIAL CAVITY, OPEN APPROACH	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	0W9D30Z	PX	DRAINAGE OF PERICARDIAL CAVITY WITH DRAINAGE DEVICE, PERCUTANEOUS APPROACH	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	0W9D3ZX	PX	DRAINAGE OF PERICARDIAL CAVITY, PERCUTANEOUS APPROACH, DIAGNOSTIC	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	0W9D3ZZ	PX	DRAINAGE OF PERICARDIAL CAVITY, PERCUTANEOUS APPROACH	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	0W9D40Z	PX	DRAINAGE OF PERICARDIAL CAVITY WITH DRAINAGE DEVICE, PERCUTANEOUS ENDOSCOPIC APPROACH	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	0W9D4ZX	PX	DRAINAGE OF PERICARDIAL CAVITY, PERCUTANEOUS ENDOSCOPIC APPROACH, DIAGNOSTIC	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	0W9D4ZZ	PX	DRAINAGE OF PERICARDIAL CAVITY, PERCUTANEOUS ENDOSCOPIC APPROACH	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	0WCD0ZZ	PX	EXTIRPATION OF MATTER FROM PERICARDIAL CAVITY, OPEN APPROACH	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	0WCD3ZZ	PX	EXTIRPATION OF MATTER FROM PERICARDIAL CAVITY, PERCUTANEOUS APPROACH	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	0WCD4ZZ	PX	EXTIRPATION OF MATTER FROM PERICARDIAL CAVITY, PERCUTANEOUS ENDOSCOPIC APPROACH	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	5A02110	PX	ASSISTANCE WITH CARDIAC OUTPUT USING BALLOON PUMP, INTERMITTENT	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	5A02116	PX	ASSISTANCE WITH CARDIAC OUTPUT USING OTHER PUMP, INTERMITTENT	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	5A0211D	PX	ASSISTANCE WITH CARDIAC OUTPUT USING IMPELLER PUMP, INTERMITTENT	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	5A02210	PX	ASSISTANCE WITH CARDIAC OUTPUT USING BALLOON PUMP, CONTINUOUS	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	5A02216	PX	ASSISTANCE WITH CARDIAC OUTPUT USING OTHER PUMP, CONTINUOUS	ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	5A0221D	PX	ASSISTANCE WITH CARDIAC OUTPUT USING IMPELLER PUMP, CONTINUOUS	ICD-10-PCS

Cardiovascular event or intervention <60 days prior to screening	X2RF032	PX	REPLACEMENT OF AORTIC VALVE USING ZOOPLASTIC TISSUE, RAPID DEPLOYMENT TECH ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	X2RF332	PX	REPLACEMENT OF AORTIC VALVE USING ZOOPLASTIC TISSUE, RAPID DEPLOYMENT TECH ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	X2RF432	PX	REPLACEMENT OF AORTIC VALVE USING ZOOPLASTIC TISSUE, RAPID DEPLOYMENT TECH ICD-10-PCS
Cardiovascular event or intervention <60 days prior to screening	0257T	PX	IMPLANTATION OF CATHETER-DELIVERED PROSTHETIC AORTIC HEART VALVE; OPEN TH CPT/HCPCS
Cardiovascular event or intervention <60 days prior to screening	0258T	PX	TRANSTHORACIC CARDIAC EXPOSURE (EG, STERNOTOMY, THORACOTOMY, SUBXIPHOID) CPT/HCPCS
Cardiovascular event or intervention <60 days prior to screening	0259T	PX	TRANSTHORACIC CARDIAC EXPOSURE (EG, STERNOTOMY, THORACOTOMY, SUBXIPHOID) CPT/HCPCS
Cardiovascular event or intervention <60 days prior to screening	0262T	PX	IMPLANTATION OF CATHETER-DELIVERED PROSTHETIC PULMONARY VALVE, ENDOVASC CPT/HCPCS
Cardiovascular event or intervention <60 days prior to screening	0343T	PX	TRANSCATHETER MITRAL VALVE REPAIR PERCUTANEOUS APPROACH INCLUDING TRAN CPT/HCPCS
Cardiovascular event or intervention <60 days prior to screening	0344T	PX	TRANSCATHETER MITRAL VALVE REPAIR PERCUTANEOUS APPROACH INCLUDING TRAN CPT/HCPCS
Cardiovascular event or intervention <60 days prior to screening	32851	PX	LUNG TRANSPLANT, SINGLE; WITHOUT CARDIOPULMONARY BYPASS CPT/HCPCS
Cardiovascular event or intervention <60 days prior to screening	32852	PX	LUNG TRANSPLANT, SINGLE; WITH CARDIOPULMONARY BYPASS CPT/HCPCS
Cardiovascular event or intervention <60 days prior to screening	32853	PX	LUNG TRANSPLANT, DOUBLE (BILATERAL SEQUENTIAL OR EN BLOC); WITHOUT CARDIOP CPT/HCPCS
Cardiovascular event or intervention <60 days prior to screening	32854	PX	LUNG TRANSPLANT, DOUBLE (BILATERAL SEQUENTIAL OR EN BLOC); WITH CARDIOPULM CPT/HCPCS
Cardiovascular event or intervention <60 days prior to screening	33361	PX	TRANSCATHETER AORTIC VALVE REPLACEMENT (TAVR/TAVI) WITH PROSTHETIC VALVE CPT/HCPCS
Cardiovascular event or intervention <60 days prior to screening	33362	PX	TRANSCATHETER AORTIC VALVE REPLACEMENT (TAVR/TAVI) WITH PROSTHETIC VALVE CPT/HCPCS
Cardiovascular event or intervention <60 days prior to screening	33363	PX	TRANSCATHETER AORTIC VALVE REPLACEMENT (TAVR/TAVI) WITH PROSTHETIC VALVE CPT/HCPCS
Cardiovascular event or intervention <60 days prior to screening	33364	PX	TRANSCATHETER AORTIC VALVE REPLACEMENT (TAVR/TAVI) WITH PROSTHETIC VALVE CPT/HCPCS
Cardiovascular event or intervention <60 days prior to screening	33365	PX	TRANSCATHETER AORTIC VALVE REPLACEMENT (TAVR/TAVI) WITH PROSTHETIC VALVE CPT/HCPCS
Cardiovascular event or intervention <60 days prior to screening	33367	PX	TRANSCATHETER AORTIC VALVE REPLACEMENT (TAVR/TAVI) WITH PROSTHETIC VALVE CPT/HCPCS
Cardiovascular event or intervention <60 days prior to screening	33368	PX	TRANSCATHETER AORTIC VALVE REPLACEMENT (TAVR/TAVI) WITH PROSTHETIC VALVE CPT/HCPCS
Cardiovascular event or intervention <60 days prior to screening	33369	PX	TRANSCATHETER AORTIC VALVE REPLACEMENT (TAVR/TAVI) WITH PROSTHETIC VALVE CPT/HCPCS
Cardiovascular event or intervention <60 days prior to screening	33400	PX	VALVULOPLASTY, AORTIC VALVE; OPEN, WITH CARDIOPULMONARY BYPASS CPT/HCPCS
Cardiovascular event or intervention <60 days prior to screening	33401	PX	VALVULOPLASTY, AORTIC VALVE; OPEN, WITH INFLOW OCCLUSION CPT/HCPCS
Cardiovascular event or intervention <60 days prior to screening	33403	PX	VALVULOPLASTY, AORTIC VALVE; USING TRANSVENTRICULAR DILATION, WITH CARDIOP CPT/HCPCS
Cardiovascular event or intervention <60 days prior to screening	33405	PX	REPLACEMENT, AORTIC VALVE, OPEN, WITH CARDIOPULMONARY BYPASS; WITH PROSTH CPT/HCPCS
Cardiovascular event or intervention <60 days prior to screening	33406	PX	REPLACEMENT, AORTIC VALVE, OPEN, WITH CARDIOPULMONARY BYPASS; WITH ALLOGR CPT/HCPCS
Cardiovascular event or intervention <60 days prior to screening	33410	PX	REPLACEMENT, AORTIC VALVE, OPEN, WITH CARDIOPULMONARY BYPASS; WITH STENTL CPT/HCPCS
Cardiovascular event or intervention <60 days prior to screening	33418	PX	TRANSCATHETER MITRAL VALVE REPAIR, PERCUTANEOUS APPROACH, INCLUDING TRA CPT/HCPCS
Cardiovascular event or intervention <60 days prior to screening	33419	PX	TRANSCATHETER MITRAL VALVE REPAIR, PERCUTANEOUS APPROACH, INCLUDING TRA CPT/HCPCS
Cardiovascular event or intervention <60 days prior to screening	33420	PX	VALVOTOMY, MITRAL VALVE; CLOSED HEART CPT/HCPCS
Cardiovascular event or intervention <60 days prior to screening	33422	PX	VALVOTOMY, MITRAL VALVE; OPEN HEART, WITH CARDIOPULMONARY BYPASS CPT/HCPCS
Cardiovascular event or intervention <60 days prior to screening	33425	PX	VALVULOPLASTY, MITRAL VALVE, WITH CARDIOPULMONARY BYPASS; CPT/HCPCS
Cardiovascular event or intervention <60 days prior to screening	33426	PX	VALVULOPLASTY, MITRAL VALVE, WITH CARDIOPULMONARY BYPASS; WITH PROSTHETI CPT/HCPCS
Cardiovascular event or intervention <60 days prior to screening	33427	PX	VALVULOPLASTY, MITRAL VALVE, WITH CARDIOPULMONARY BYPASS; RADICAL RECON CPT/HCPCS
Cardiovascular event or intervention <60 days prior to screening	33430	PX	REPLACEMENT, MITRAL VALVE, WITH CARDIOPULMONARY BYPASS CPT/HCPCS
Cardiovascular event or intervention <60 days prior to screening	33460	PX	VALVECTOMY, TRICUSPID VALVE, WITH CARDIOPULMONARY BYPASS CPT/HCPCS
Cardiovascular event or intervention <60 days prior to screening	33463	PX	VALVULOPLASTY, TRICUSPID VALVE; WITHOUT RING INSERTION CPT/HCPCS
Cardiovascular event or intervention <60 days prior to screening	33464	PX	VALVULOPLASTY, TRICUSPID VALVE; WITH RING INSERTION CPT/HCPCS

Cardiovascular event or intervention <60 days prior to screening	33465	PX	REPLACEMENT, TRICUSPID VALVE, WITH CARDIOPULMONARY BYPASS	CPT/HCP
Cardiovascular event or intervention <60 days prior to screening	33468	PX	TRICUSPID VALVE REPOSITIONING AND PLICATION FOR EBSTEIN ANOMALY	CPT/HCP
Cardiovascular event or intervention <60 days prior to screening	33475	PX	REPLACEMENT, PULMONARY VALVE	CPT/HCP
Cardiovascular event or intervention <60 days prior to screening	33477	PX	TRANSCATHETER PULMONARY VALVE IMPLANTATION, PERCUTANEOUS APPROACH, INC	CPT/HCP
Cardiovascular event or intervention <60 days prior to screening	33496	PX	REPAIR OF NON-STRUCTURAL PROSTHETIC VALVE DYSFUNCTION WITH CARDIOPULMON	CPT/HCP
Cardiovascular event or intervention <60 days prior to screening	33510	PX	CORONARY ARTERY BYPASS, VEIN ONLY; SINGLE CORONARY VENOUS GRAFT	CPT/HCP
Cardiovascular event or intervention <60 days prior to screening	33511	PX	CORONARY ARTERY BYPASS, VEIN ONLY; 2 CORONARY VENOUS GRAFTS	CPT/HCP
Cardiovascular event or intervention <60 days prior to screening	33512	PX	CORONARY ARTERY BYPASS, VEIN ONLY; 3 CORONARY VENOUS GRAFTS	CPT/HCP
Cardiovascular event or intervention <60 days prior to screening	33513	PX	CORONARY ARTERY BYPASS, VEIN ONLY; 4 CORONARY VENOUS GRAFTS	CPT/HCP
Cardiovascular event or intervention <60 days prior to screening	33514	PX	CORONARY ARTERY BYPASS, VEIN ONLY; 5 CORONARY VENOUS GRAFTS	CPT/HCP
Cardiovascular event or intervention <60 days prior to screening	33516	PX	CORONARY ARTERY BYPASS, VEIN ONLY; 6 OR MORE CORONARY VENOUS GRAFTS	CPT/HCP
Cardiovascular event or intervention <60 days prior to screening	33517	PX	CORONARY ARTERY BYPASS, USING VENOUS GRAFT(S) AND ARTERIAL GRAFT(S); SINGLE	CPT/HCP
Cardiovascular event or intervention <60 days prior to screening	33518	PX	CORONARY ARTERY BYPASS, USING VENOUS GRAFT(S) AND ARTERIAL GRAFT(S); 2 VENOL	CPT/HCP
Cardiovascular event or intervention <60 days prior to screening	33519	PX	CORONARY ARTERY BYPASS, USING VENOUS GRAFT(S) AND ARTERIAL GRAFT(S); 3 VENOL	CPT/HCP
Cardiovascular event or intervention <60 days prior to screening	33521	PX	CORONARY ARTERY BYPASS, USING VENOUS GRAFT(S) AND ARTERIAL GRAFT(S); 4 VENOL	CPT/HCP
Cardiovascular event or intervention <60 days prior to screening	33522	PX	CORONARY ARTERY BYPASS, USING VENOUS GRAFT(S) AND ARTERIAL GRAFT(S); 5 VENOL	CPT/HCP
Cardiovascular event or intervention <60 days prior to screening	33523	PX	CORONARY ARTERY BYPASS, USING VENOUS GRAFT(S) AND ARTERIAL GRAFT(S); 6 OR MO	CPT/HCP
Cardiovascular event or intervention <60 days prior to screening	33530	PX	REOPERATION, CORONARY ARTERY BYPASS PROCEDURE OR VALVE PROCEDURE, MORE	CPT/HCP
Cardiovascular event or intervention <60 days prior to screening	33533	PX	CORONARY ARTERY BYPASS, USING ARTERIAL GRAFT(S); SINGLE ARTERIAL GRAFT	CPT/HCP
Cardiovascular event or intervention <60 days prior to screening	33534	PX	CORONARY ARTERY BYPASS, USING ARTERIAL GRAFT(S); 2 CORONARY ARTERIAL GRAFT:	CPT/HCP
Cardiovascular event or intervention <60 days prior to screening	33535	PX	CORONARY ARTERY BYPASS, USING ARTERIAL GRAFT(S); 3 CORONARY ARTERIAL GRAFT:	CPT/HCP
Cardiovascular event or intervention <60 days prior to screening	33536	PX	CORONARY ARTERY BYPASS, USING ARTERIAL GRAFT(S); 4 OR MORE CORONARY ARTERI/	CPT/HCP
Cardiovascular event or intervention <60 days prior to screening	33542	PX	MYOCARDIAL RESECTION (EG, VENTRICULAR ANEURYSMECTOMY)	CPT/HCP
Cardiovascular event or intervention <60 days prior to screening	33545	PX	REPAIR OF POSTINFARCTION VENTRICULAR SEPTAL DEFECT, WITH OR WITHOUT MYOCAI	CPT/HCP
Cardiovascular event or intervention <60 days prior to screening	33548	PX	SURGICAL VENTRICULAR RESTORATION PROCEDURE, INCLUDES PROSTHETIC PATCH, WI	CPT/HCP
Cardiovascular event or intervention <60 days prior to screening	33572	PX	CORONARY ENDARTERECTOMY, OPEN, ANY METHOD, OF LEFT ANTERIOR DESCENDING, CI	CPT/HCP
Cardiovascular event or intervention <60 days prior to screening	33665	PX	REPAIR OF INTERMEDIATE OR TRANSITIONAL ATRIOVENTRICULAR CANAL, WITH OR WITH	CPT/HCP
Cardiovascular event or intervention <60 days prior to screening	33935	PX	HEART-LUNG TRANSPLANT WITH RECIPIENT CARDIECTOMY-PNEUMONECTOMY	CPT/HCP
Cardiovascular event or intervention <60 days prior to screening	33999	PX	UNLISTED PROCEDURE, CARDIAC SURGERY	CPT/HCP
Cardiovascular event or intervention <60 days prior to screening	S2060	PX	LOBAR LUNG TRANSPLANTATION	CPT/HCP
Cardiovascular event or intervention <60 days prior to screening	I20.0	DX	UNSTABLE ANGINA	ICD-10-CM
Cardiovascular event or intervention <60 days prior to screening	I24.0	DX	ACUTE CORONARY THROMBOSIS NOT RESULTING IN MYOCARDIAL INFARCTION	ICD-10-CM
Cardiovascular event or intervention <60 days prior to screening	I24.1	DX	DRESSLER'S SYNDROME	ICD-10-CM
Cardiovascular event or intervention <60 days prior to screening	I24.8*	DX	OTHER FORMS OF ACUTE ISCHEMIC HEART DISEASE	ICD-10-CM
Cardiovascular event or intervention <60 days prior to screening	I24.81	DX	ACUTE CORONARY MICROVASCULAR DYSFUNCTION	ICD-10-CM
Cardiovascular event or intervention <60 days prior to screening	I24.89	DX	OTHER FORMS OF ACUTE ISCHEMIC HEART DISEASE	ICD-10-CM
Cardiovascular event or intervention <60 days prior to screening	I24.9	DX	ACUTE ISCHEMIC HEART DISEASE, UNSPECIFIED	ICD-10-CM
Cardiovascular event or intervention <60 days prior to screening	I25.110	DX	ATHEROSCLEROTIC HEART DISEASE OF NATIVE CORONARY ARTERY WITH UNSTABLE AN	ICD-10-CM

Cardiovascular event or intervention <60 days prior to screening	I25.700	DX	ATHEROSCLEROSIS OF CORONARY ARTERY BYPASS GRAFT(S), UNSPECIFIED, WITH UNST	ICD-10-CM
Cardiovascular event or intervention <60 days prior to screening	I25.710	DX	ATHEROSCLEROSIS OF AUTOLOGOUS VEIN CORONARY ARTERY BYPASS GRAFT(S) WITH U	ICD-10-CM
Cardiovascular event or intervention <60 days prior to screening	I25.720	DX	ATHEROSCLEROSIS OF AUTOLOGOUS ARTERY CORONARY ARTERY BYPASS GRAFT(S) WITH I	ICD-10-CM
Cardiovascular event or intervention <60 days prior to screening	I25.730	DX	ATHEROSCLEROSIS OF NONAUTOLOGOUS BIOLOGICAL CORONARY ARTERY BYPASS GRA	ICD-10-CM
Cardiovascular event or intervention <60 days prior to screening	I25.750	DX	ATHEROSCLEROSIS OF NATIVE CORONARY ARTERY OF TRANSPLANTED HEART WITH UN	ICD-10-CM
Cardiovascular event or intervention <60 days prior to screening	I25.760	DX	ATHEROSCLEROSIS OF BYPASS GRAFT OF CORONARY ARTERY OF TRANSPLANTED HEAR	ICD-10-CM
Cardiovascular event or intervention <60 days prior to screening	I25.790	DX	ATHEROSCLEROSIS OF OTHER CORONARY ARTERY BYPASS GRAFT(S) WITH UNSTABLE A	ICD-10-CM
GLP-1-RA or pramlintide treatment within 3 months prior to Visit 1	LIXISENATIDE	RX		Generic
GLP-1-RA or pramlintide treatment within 3 months prior to Visit 1	LIRAGLUTIDE	RX		Generic
GLP-1-RA or pramlintide treatment within 3 months prior to Visit 1	ALBIGLUTIDE	RX		Generic
GLP-1-RA or pramlintide treatment within 3 months prior to Visit 1	EXENATIDE	RX		Generic
GLP-1-RA or pramlintide treatment within 3 months prior to Visit 1	EXENATIDE MICROSPHERES	RX		Generic
GLP-1-RA or pramlintide treatment within 3 months prior to Visit 1	PRAMLINTIDE ACETATE	RX		Generic
GLP-1-RA or pramlintide treatment within 3 months prior to Visit 1	SEMAGLUTIDE	RX		Generic
Women who is pregnant or breastfeeding	H35.1	DX	RETINOPATHY OF PREMATURITY	ICD-10-CM
Women who is pregnant or breastfeeding	H35.10	DX	RETINOPATHY OF PREMATURITY, UNSPECIFIED	ICD-10-CM
Women who is pregnant or breastfeeding	H35.101	DX	RETINOPATHY OF PREMATURITY, UNSPECIFIED, RIGHT EYE	ICD-10-CM
Women who is pregnant or breastfeeding	H35.102	DX	RETINOPATHY OF PREMATURITY, UNSPECIFIED, LEFT EYE	ICD-10-CM
Women who is pregnant or breastfeeding	H35.103	DX	RETINOPATHY OF PREMATURITY, UNSPECIFIED, BILATERAL	ICD-10-CM
Women who is pregnant or breastfeeding	H35.109	DX	RETINOPATHY OF PREMATURITY, UNSPECIFIED, UNSPECIFIED EYE	ICD-10-CM
Women who is pregnant or breastfeeding	H35.11	DX	RETINOPATHY OF PREMATURITY, STAGE 0	ICD-10-CM
Women who is pregnant or breastfeeding	H35.111	DX	RETINOPATHY OF PREMATURITY, STAGE 0, RIGHT EYE	ICD-10-CM
Women who is pregnant or breastfeeding	H35.112	DX	RETINOPATHY OF PREMATURITY, STAGE 0, LEFT EYE	ICD-10-CM
Women who is pregnant or breastfeeding	H35.113	DX	RETINOPATHY OF PREMATURITY, STAGE 0, BILATERAL	ICD-10-CM
Women who is pregnant or breastfeeding	H35.119	DX	RETINOPATHY OF PREMATURITY, STAGE 0, UNSPECIFIED EYE	ICD-10-CM
Women who is pregnant or breastfeeding	H35.12	DX	RETINOPATHY OF PREMATURITY, STAGE 1	ICD-10-CM
Women who is pregnant or breastfeeding	H35.121	DX	RETINOPATHY OF PREMATURITY, STAGE 1, RIGHT EYE	ICD-10-CM
Women who is pregnant or breastfeeding	H35.122	DX	RETINOPATHY OF PREMATURITY, STAGE 1, LEFT EYE	ICD-10-CM
Women who is pregnant or breastfeeding	H35.123	DX	RETINOPATHY OF PREMATURITY, STAGE 1, BILATERAL	ICD-10-CM
Women who is pregnant or breastfeeding	H35.129	DX	RETINOPATHY OF PREMATURITY, STAGE 1, UNSPECIFIED EYE	ICD-10-CM
Women who is pregnant or breastfeeding	H35.13	DX	RETINOPATHY OF PREMATURITY, STAGE 2	ICD-10-CM
Women who is pregnant or breastfeeding	H35.131	DX	RETINOPATHY OF PREMATURITY, STAGE 2, RIGHT EYE	ICD-10-CM
Women who is pregnant or breastfeeding	H35.132	DX	RETINOPATHY OF PREMATURITY, STAGE 2, LEFT EYE	ICD-10-CM
Women who is pregnant or breastfeeding	H35.133	DX	RETINOPATHY OF PREMATURITY, STAGE 2, BILATERAL	ICD-10-CM
Women who is pregnant or breastfeeding	H35.139	DX	RETINOPATHY OF PREMATURITY, STAGE 2, UNSPECIFIED EYE	ICD-10-CM
Women who is pregnant or breastfeeding	H35.14	DX	RETINOPATHY OF PREMATURITY, STAGE 3	ICD-10-CM
Women who is pregnant or breastfeeding	H35.141	DX	RETINOPATHY OF PREMATURITY, STAGE 3, RIGHT EYE	ICD-10-CM
Women who is pregnant or breastfeeding	H35.142	DX	RETINOPATHY OF PREMATURITY, STAGE 3, LEFT EYE	ICD-10-CM
Women who is pregnant or breastfeeding	H35.143	DX	RETINOPATHY OF PREMATURITY, STAGE 3, BILATERAL	ICD-10-CM
Women who is pregnant or breastfeeding	H35.149	DX	RETINOPATHY OF PREMATURITY, STAGE 3, UNSPECIFIED EYE	ICD-10-CM
Women who is pregnant or breastfeeding	H35.15	DX	RETINOPATHY OF PREMATURITY, STAGE 4	ICD-10-CM
Women who is pregnant or breastfeeding	H35.151	DX	RETINOPATHY OF PREMATURITY, STAGE 4, RIGHT EYE	ICD-10-CM
Women who is pregnant or breastfeeding	H35.152	DX	RETINOPATHY OF PREMATURITY, STAGE 4, LEFT EYE	ICD-10-CM
Women who is pregnant or breastfeeding	H35.153	DX	RETINOPATHY OF PREMATURITY, STAGE 4, BILATERAL	ICD-10-CM
Women who is pregnant or breastfeeding	H35.159	DX	RETINOPATHY OF PREMATURITY, STAGE 4, UNSPECIFIED EYE	ICD-10-CM
Women who is pregnant or breastfeeding	H35.16	DX	RETINOPATHY OF PREMATURITY, STAGE 5	ICD-10-CM
Women who is pregnant or breastfeeding	H35.161	DX	RETINOPATHY OF PREMATURITY, STAGE 5, RIGHT EYE	ICD-10-CM
Women who is pregnant or breastfeeding	H35.162	DX	RETINOPATHY OF PREMATURITY, STAGE 5, LEFT EYE	ICD-10-CM
Women who is pregnant or breastfeeding	H35.163	DX	RETINOPATHY OF PREMATURITY, STAGE 5, BILATERAL	ICD-10-CM
Women who is pregnant or breastfeeding	H35.169	DX	RETINOPATHY OF PREMATURITY, STAGE 5, UNSPECIFIED EYE	ICD-10-CM
Women who is pregnant or breastfeeding	H35.17	DX	RETROLENTAL FIBROPLASIA	ICD-10-CM
Women who is pregnant or breastfeeding	H35.171	DX	RETROLENTAL FIBROPLASIA, RIGHT EYE	ICD-10-CM
Women who is pregnant or breastfeeding	H35.172	DX	RETROLENTAL FIBROPLASIA, LEFT EYE	ICD-10-CM
Women who is pregnant or breastfeeding	H35.173	DX	RETROLENTAL FIBROPLASIA, BILATERAL	ICD-10-CM
Women who is pregnant or breastfeeding	H35.179	DX	RETROLENTAL FIBROPLASIA, UNSPECIFIED EYE	ICD-10-CM
Women who is pregnant or breastfeeding	O00	DX	ECTOPIC PREGNANCY	ICD-10-CM
Women who is pregnant or breastfeeding	O00.0	DX	ABDOMINAL PREGNANCY	ICD-10-CM
Women who is pregnant or breastfeeding	O00.00	DX	ABDOMINAL PREGNANCY WITHOUT INTRAUTERINE PREGNANCY	ICD-10-CM
Women who is pregnant or breastfeeding	O00.01	DX	ABDOMINAL PREGNANCY WITH INTRAUTERINE PREGNANCY	ICD-10-CM
Women who is pregnant or breastfeeding	O00.1	DX	TUBAL PREGNANCY	ICD-10-CM
Women who is pregnant or breastfeeding	O00.10	DX	TUBAL PREGNANCY WITHOUT INTRAUTERINE PREGNANCY	ICD-10-CM
Women who is pregnant or breastfeeding	O00.101	DX	RIGHT TUBAL PREGNANCY WITHOUT INTRAUTERINE PREGNANCY	ICD-10-CM

19 Women who is pregnant or breastfeeding	000.102	DX	LEFT TUBAL PREGNANCY WITHOUT INTRAUTERINE PREGNANCY	ICD-10-CM
19 Women who is pregnant or breastfeeding	000.109	DX	UNSPECIFIED TUBAL PREGNANCY WITHOUT INTRAUTERINE PREGNANCY	ICD-10-CM
19 Women who is pregnant or breastfeeding	000.11	DX	TUBAL PREGNANCY WITH INTRAUTERINE PREGNANCY	ICD-10-CM
19 Women who is pregnant or breastfeeding	000.111	DX	RIGHT TUBAL PREGNANCY WITH INTRAUTERINE PREGNANCY	ICD-10-CM
19 Women who is pregnant or breastfeeding	000.112	DX	LEFT TUBAL PREGNANCY WITH INTRAUTERINE PREGNANCY	ICD-10-CM
19 Women who is pregnant or breastfeeding	000.119	DX	UNSPECIFIED TUBAL PREGNANCY WITH INTRAUTERINE PREGNANCY	ICD-10-CM
19 Women who is pregnant or breastfeeding	000.2	DX	OVARIAN PREGNANCY	ICD-10-CM
19 Women who is pregnant or breastfeeding	000.20	DX	OVARIAN PREGNANCY WITHOUT INTRAUTERINE PREGNANCY	ICD-10-CM
19 Women who is pregnant or breastfeeding	000.201	DX	RIGHT OVARIAN PREGNANCY WITHOUT INTRAUTERINE PREGNANCY	ICD-10-CM
19 Women who is pregnant or breastfeeding	000.202	DX	LEFT OVARIAN PREGNANCY WITHOUT INTRAUTERINE PREGNANCY	ICD-10-CM
19 Women who is pregnant or breastfeeding	000.209	DX	UNSPECIFIED OVARIAN PREGNANCY WITHOUT INTRAUTERINE PREGNANCY	ICD-10-CM
19 Women who is pregnant or breastfeeding	000.21	DX	OVARIAN PREGNANCY WITH INTRAUTERINE PREGNANCY	ICD-10-CM
19 Women who is pregnant or breastfeeding	000.211	DX	RIGHT OVARIAN PREGNANCY WITH INTRAUTERINE PREGNANCY	ICD-10-CM
19 Women who is pregnant or breastfeeding	000.212	DX	LEFT OVARIAN PREGNANCY WITH INTRAUTERINE PREGNANCY	ICD-10-CM
19 Women who is pregnant or breastfeeding	000.219	DX	UNSPECIFIED OVARIAN PREGNANCY WITH INTRAUTERINE PREGNANCY	ICD-10-CM
19 Women who is pregnant or breastfeeding	000.8	DX	OTHER ECTOPIC PREGNANCY	ICD-10-CM
19 Women who is pregnant or breastfeeding	000.80	DX	OTHER ECTOPIC PREGNANCY WITHOUT INTRAUTERINE PREGNANCY	ICD-10-CM
19 Women who is pregnant or breastfeeding	000.81	DX	OTHER ECTOPIC PREGNANCY WITH INTRAUTERINE PREGNANCY	ICD-10-CM
19 Women who is pregnant or breastfeeding	000.9	DX	ECTOPIC PREGNANCY, UNSPECIFIED	ICD-10-CM
19 Women who is pregnant or breastfeeding	000.90	DX	UNSPECIFIED ECTOPIC PREGNANCY WITHOUT INTRAUTERINE PREGNANCY	ICD-10-CM
19 Women who is pregnant or breastfeeding	000.91	DX	UNSPECIFIED ECTOPIC PREGNANCY WITH INTRAUTERINE PREGNANCY	ICD-10-CM
19 Women who is pregnant or breastfeeding	001	DX	HYDATIDIFORM MOLE	ICD-10-CM
19 Women who is pregnant or breastfeeding	001.0	DX	CLASSICAL HYDATIDIFORM MOLE	ICD-10-CM
19 Women who is pregnant or breastfeeding	001.1	DX	INCOMPLETE AND PARTIAL HYDATIDIFORM MOLE	ICD-10-CM
19 Women who is pregnant or breastfeeding	001.9	DX	HYDATIDIFORM MOLE, UNSPECIFIED	ICD-10-CM
19 Women who is pregnant or breastfeeding	002	DX	OTHER ABNORMAL PRODUCTS OF CONCEPTION	ICD-10-CM
19 Women who is pregnant or breastfeeding	002.0	DX	BLIGHTED OVUM AND NONHYDATIDIFORM MOLE	ICD-10-CM
19 Women who is pregnant or breastfeeding	002.1	DX	MISSED ABORTION	ICD-10-CM
19 Women who is pregnant or breastfeeding	002.8	DX	OTHER SPECIFIED ABNORMAL PRODUCTS OF CONCEPTION	ICD-10-CM
19 Women who is pregnant or breastfeeding	002.81	DX	INAPPROPRIATE CHANGE IN QUANTITATIVE HUMAN CHORIONIC GONADOTROPIN (HCG) IN	ICD-10-CM
19 Women who is pregnant or breastfeeding	002.89	DX	OTHER ABNORMAL PRODUCTS OF CONCEPTION	ICD-10-CM
19 Women who is pregnant or breastfeeding	002.9	DX	ABNORMAL PRODUCT OF CONCEPTION, UNSPECIFIED	ICD-10-CM
19 Women who is pregnant or breastfeeding	003	DX	SPONTANEOUS ABORTION	ICD-10-CM
19 Women who is pregnant or breastfeeding	003.0	DX	GENITAL TRACT AND PELVIC INFECTION FOLLOWING INCOMPLETE SPONTANEOUS ABOR	ICD-10-CM
19 Women who is pregnant or breastfeeding	003.1	DX	DELAYED OR EXCESSIVE HEMORRHAGE FOLLOWING INCOMPLETE SPONTANEOUS ABOR	ICD-10-CM
19 Women who is pregnant or breastfeeding	003.2	DX	EMBOLISM FOLLOWING INCOMPLETE SPONTANEOUS ABORTION	ICD-10-CM
19 Women who is pregnant or breastfeeding	003.3	DX	OTHER AND UNSPECIFIED COMPLICATIONS FOLLOWING INCOMPLETE SPONTANEOUS AB	ICD-10-CM
19 Women who is pregnant or breastfeeding	003.30	DX	UNSPECIFIED COMPLICATION FOLLOWING INCOMPLETE SPONTANEOUS ABORTION	ICD-10-CM
19 Women who is pregnant or breastfeeding	003.31	DX	SHOCK FOLLOWING INCOMPLETE SPONTANEOUS ABORTION	ICD-10-CM
19 Women who is pregnant or breastfeeding	003.32	DX	RENAL FAILURE FOLLOWING INCOMPLETE SPONTANEOUS ABORTION	ICD-10-CM
19 Women who is pregnant or breastfeeding	003.33	DX	METABOLIC DISORDER FOLLOWING INCOMPLETE SPONTANEOUS ABORTION	ICD-10-CM
19 Women who is pregnant or breastfeeding	003.34	DX	DAMAGE TO PELVIC ORGANS FOLLOWING INCOMPLETE SPONTANEOUS ABORTION	ICD-10-CM
19 Women who is pregnant or breastfeeding	003.35	DX	OTHER VENOUS COMPLICATIONS FOLLOWING INCOMPLETE SPONTANEOUS ABORTION	ICD-10-CM
19 Women who is pregnant or breastfeeding	003.36	DX	CARDIAC ARREST FOLLOWING INCOMPLETE SPONTANEOUS ABORTION	ICD-10-CM
19 Women who is pregnant or breastfeeding	003.37	DX	SEPSIS FOLLOWING INCOMPLETE SPONTANEOUS ABORTION	ICD-10-CM
19 Women who is pregnant or breastfeeding	003.38	DX	URINARY TRACT INFECTION FOLLOWING INCOMPLETE SPONTANEOUS ABORTION	ICD-10-CM
19 Women who is pregnant or breastfeeding	003.39	DX	INCOMPLETE SPONTANEOUS ABORTION WITH OTHER COMPLICATIONS	ICD-10-CM
19 Women who is pregnant or breastfeeding	003.4	DX	INCOMPLETE SPONTANEOUS ABORTION WITHOUT COMPLICATION	ICD-10-CM
19 Women who is pregnant or breastfeeding	003.5	DX	GENITAL TRACT AND PELVIC INFECTION FOLLOWING COMPLETE OR UNSPECIFIED SPONT	ICD-10-CM
19 Women who is pregnant or breastfeeding	003.6	DX	DELAYED OR EXCESSIVE HEMORRHAGE FOLLOWING COMPLETE OR UNSPECIFIED SPONT	ICD-10-CM
19 Women who is pregnant or breastfeeding	003.7	DX	EMBOLISM FOLLOWING COMPLETE OR UNSPECIFIED SPONTANEOUS ABORTION	ICD-10-CM
19 Women who is pregnant or breastfeeding	003.8	DX	OTHER AND UNSPECIFIED COMPLICATIONS FOLLOWING COMPLETE OR UNSPECIFIED SP	ICD-10-CM
19 Women who is pregnant or breastfeeding	003.80	DX	UNSPECIFIED COMPLICATION FOLLOWING COMPLETE OR UNSPECIFIED SPONTANEOUS A	ICD-10-CM
19 Women who is pregnant or breastfeeding	003.81	DX	SHOCK FOLLOWING COMPLETE OR UNSPECIFIED SPONTANEOUS ABORTION	ICD-10-CM
19 Women who is pregnant or breastfeeding	003.82	DX	RENAL FAILURE FOLLOWING COMPLETE OR UNSPECIFIED SPONTANEOUS ABORTION	ICD-10-CM
19 Women who is pregnant or breastfeeding	003.83	DX	METABOLIC DISORDER FOLLOWING COMPLETE OR UNSPECIFIED SPONTANEOUS ABORTI	ICD-10-CM
19 Women who is pregnant or breastfeeding	003.84	DX	DAMAGE TO PELVIC ORGANS FOLLOWING COMPLETE OR UNSPECIFIED SPONTANEOUS A	ICD-10-CM
19 Women who is pregnant or breastfeeding	003.85	DX	OTHER VENOUS COMPLICATIONS FOLLOWING COMPLETE OR UNSPECIFIED SPONTANEOU	ICD-10-CM
19 Women who is pregnant or breastfeeding	003.86	DX	CARDIAC ARREST FOLLOWING COMPLETE OR UNSPECIFIED SPONTANEOUS ABORTION	ICD-10-CM
19 Women who is pregnant or breastfeeding	003.87	DX	SEPSIS FOLLOWING COMPLETE OR UNSPECIFIED SPONTANEOUS ABORTION	ICD-10-CM
19 Women who is pregnant or breastfeeding	003.88	DX	URINARY TRACT INFECTION FOLLOWING COMPLETE OR UNSPECIFIED SPONTANEOUS AB	ICD-10-CM
19 Women who is pregnant or breastfeeding	003.89	DX	COMPLETE OR UNSPECIFIED SPONTANEOUS ABORTION WITH OTHER COMPLICATIONS	ICD-10-CM
19 Women who is pregnant or breastfeeding	003.9	DX	COMPLETE OR UNSPECIFIED SPONTANEOUS ABORTION WITHOUT COMPLICATION	ICD-10-CM
19 Women who is pregnant or breastfeeding	004	DX	COMPLICATIONS FOLLOWING (INDUCED) TERMINATION OF PREGNANCY	ICD-10-CM
19 Women who is pregnant or breastfeeding	004.5	DX	GENITAL TRACT AND PELVIC INFECTION FOLLOWING (INDUCED) TERMINATION OF PREGN	ICD-10-CM
19 Women who is pregnant or breastfeeding	004.6	DX	DELAYED OR EXCESSIVE HEMORRHAGE FOLLOWING (INDUCED) TERMINATION OF PREGN	ICD-10-CM
19 Women who is pregnant or breastfeeding	004.7	DX	EMBOLISM FOLLOWING (INDUCED) TERMINATION OF PREGNANCY	ICD-10-CM
19 Women who is pregnant or breastfeeding	004.8	DX	(INDUCED) TERMINATION OF PREGNANCY WITH OTHER AND UNSPECIFIED COMPLICATION	ICD-10-CM
19 Women who is pregnant or breastfeeding	004.80	DX	(INDUCED) TERMINATION OF PREGNANCY WITH UNSPECIFIED COMPLICATIONS	ICD-10-CM
19 Women who is pregnant or breastfeeding	004.81	DX	SHOCK FOLLOWING (INDUCED) TERMINATION OF PREGNANCY	ICD-10-CM
19 Women who is pregnant or breastfeeding	004.82	DX	RENAL FAILURE FOLLOWING (INDUCED) TERMINATION OF PREGNANCY	ICD-10-CM
19 Women who is pregnant or breastfeeding	004.83	DX	METABOLIC DISORDER FOLLOWING (INDUCED) TERMINATION OF PREGNANCY	ICD-10-CM
19 Women who is pregnant or breastfeeding	004.84	DX	DAMAGE TO PELVIC ORGANS FOLLOWING (INDUCED) TERMINATION OF PREGNANCY	ICD-10-CM
19 Women who is pregnant or breastfeeding	004.85	DX	OTHER VENOUS COMPLICATIONS FOLLOWING (INDUCED) TERMINATION OF PREGNANCY	ICD-10-CM
19 Women who is pregnant or breastfeeding	004.86	DX	CARDIAC ARREST FOLLOWING (INDUCED) TERMINATION OF PREGNANCY	ICD-10-CM
19 Women who is pregnant or breastfeeding	004.87	DX	SEPSIS FOLLOWING (INDUCED) TERMINATION OF PREGNANCY	ICD-10-CM

19 Women who is pregnant or breastfeeding	004.88	DX	URINARY TRACT INFECTION FOLLOWING (INDUCED) TERMINATION OF PREGNANCY	ICD-10-CM
19 Women who is pregnant or breastfeeding	004.89	DX	(INDUCED) TERMINATION OF PREGNANCY WITH OTHER COMPLICATIONS	ICD-10-CM
19 Women who is pregnant or breastfeeding	007	DX	FAILED ATTEMPTED TERMINATION OF PREGNANCY	ICD-10-CM
19 Women who is pregnant or breastfeeding	007.0	DX	GENITAL TRACT AND PELVIC INFECTION FOLLOWING FAILED ATTEMPTED TERMINATION	ICD-10-CM
19 Women who is pregnant or breastfeeding	007.1	DX	DELAYED OR EXCESSIVE HEMORRHAGE FOLLOWING FAILED ATTEMPTED TERMINATION	ICD-10-CM
19 Women who is pregnant or breastfeeding	007.2	DX	EMBOLISM FOLLOWING FAILED ATTEMPTED TERMINATION OF PREGNANCY	ICD-10-CM
19 Women who is pregnant or breastfeeding	007.3	DX	FAILED ATTEMPTED TERMINATION OF PREGNANCY WITH OTHER AND UNSPECIFIED COM	ICD-10-CM
19 Women who is pregnant or breastfeeding	007.30	DX	FAILED ATTEMPTED TERMINATION OF PREGNANCY WITH UNSPECIFIED COMPLICATIONS	ICD-10-CM
19 Women who is pregnant or breastfeeding	007.31	DX	SHOCK FOLLOWING FAILED ATTEMPTED TERMINATION OF PREGNANCY	ICD-10-CM
19 Women who is pregnant or breastfeeding	007.32	DX	RENAL FAILURE FOLLOWING FAILED ATTEMPTED TERMINATION OF PREGNANCY	ICD-10-CM
19 Women who is pregnant or breastfeeding	007.33	DX	METABOLIC DISORDER FOLLOWING FAILED ATTEMPTED TERMINATION OF PREGNANCY	ICD-10-CM
19 Women who is pregnant or breastfeeding	007.34	DX	DAMAGE TO PELVIC ORGANS FOLLOWING FAILED ATTEMPTED TERMINATION OF PREGNA	ICD-10-CM
19 Women who is pregnant or breastfeeding	007.35	DX	OTHER VENOUS COMPLICATIONS FOLLOWING FAILED ATTEMPTED TERMINATION OF PRE	ICD-10-CM
19 Women who is pregnant or breastfeeding	007.36	DX	CARDIAC ARREST FOLLOWING FAILED ATTEMPTED TERMINATION OF PREGNANCY	ICD-10-CM
19 Women who is pregnant or breastfeeding	007.37	DX	SEPSIS FOLLOWING FAILED ATTEMPTED TERMINATION OF PREGNANCY	ICD-10-CM
19 Women who is pregnant or breastfeeding	007.38	DX	URINARY TRACT INFECTION FOLLOWING FAILED ATTEMPTED TERMINATION OF PREGNA	ICD-10-CM
19 Women who is pregnant or breastfeeding	007.39	DX	FAILED ATTEMPTED TERMINATION OF PREGNANCY WITH OTHER COMPLICATIONS	ICD-10-CM
19 Women who is pregnant or breastfeeding	007.4	DX	FAILED ATTEMPTED TERMINATION OF PREGNANCY WITHOUT COMPLICATION	ICD-10-CM
19 Women who is pregnant or breastfeeding	008	DX	COMPLICATIONS FOLLOWING ECTOPIC AND MOLAR PREGNANCY	ICD-10-CM
19 Women who is pregnant or breastfeeding	008.0	DX	GENITAL TRACT AND PELVIC INFECTION FOLLOWING ECTOPIC AND MOLAR PREGNANCY	ICD-10-CM
19 Women who is pregnant or breastfeeding	008.1	DX	DELAYED OR EXCESSIVE HEMORRHAGE FOLLOWING ECTOPIC AND MOLAR PREGNANCY	ICD-10-CM
19 Women who is pregnant or breastfeeding	008.2	DX	EMBOLISM FOLLOWING ECTOPIC AND MOLAR PREGNANCY	ICD-10-CM
19 Women who is pregnant or breastfeeding	008.3	DX	SHOCK FOLLOWING ECTOPIC AND MOLAR PREGNANCY	ICD-10-CM
19 Women who is pregnant or breastfeeding	008.4	DX	RENAL FAILURE FOLLOWING ECTOPIC AND MOLAR PREGNANCY	ICD-10-CM
19 Women who is pregnant or breastfeeding	008.5	DX	METABOLIC DISORDERS FOLLOWING AN ECTOPIC AND MOLAR PREGNANCY	ICD-10-CM
19 Women who is pregnant or breastfeeding	008.6	DX	DAMAGE TO PELVIC ORGANS AND TISSUES FOLLOWING AN ECTOPIC AND MOLAR PREGN	ICD-10-CM
19 Women who is pregnant or breastfeeding	008.7	DX	OTHER VENOUS COMPLICATIONS FOLLOWING AN ECTOPIC AND MOLAR PREGNANCY	ICD-10-CM
19 Women who is pregnant or breastfeeding	008.8	DX	OTHER COMPLICATIONS FOLLOWING AN ECTOPIC AND MOLAR PREGNANCY	ICD-10-CM
19 Women who is pregnant or breastfeeding	008.81	DX	CARDIAC ARREST FOLLOWING AN ECTOPIC AND MOLAR PREGNANCY	ICD-10-CM
19 Women who is pregnant or breastfeeding	008.82	DX	SEPSIS FOLLOWING ECTOPIC AND MOLAR PREGNANCY	ICD-10-CM
19 Women who is pregnant or breastfeeding	008.83	DX	URINARY TRACT INFECTION FOLLOWING AN ECTOPIC AND MOLAR PREGNANCY	ICD-10-CM
19 Women who is pregnant or breastfeeding	008.89	DX	OTHER COMPLICATIONS FOLLOWING AN ECTOPIC AND MOLAR PREGNANCY	ICD-10-CM
19 Women who is pregnant or breastfeeding	008.9	DX	UNSPECIFIED COMPLICATION FOLLOWING AN ECTOPIC AND MOLAR PREGNANCY	ICD-10-CM
19 Women who is pregnant or breastfeeding	009	DX	SUPERVISION OF HIGH RISK PREGNANCY	ICD-10-CM
19 Women who is pregnant or breastfeeding	009.0	DX	SUPERVISION OF PREGNANCY WITH HISTORY OF INFERTILITY	ICD-10-CM
19 Women who is pregnant or breastfeeding	009.00	DX	SUPERVISION OF PREGNANCY WITH HISTORY OF INFERTILITY, UNSPECIFIED TRIMESTER	ICD-10-CM
19 Women who is pregnant or breastfeeding	009.01	DX	SUPERVISION OF PREGNANCY WITH HISTORY OF INFERTILITY, FIRST TRIMESTER	ICD-10-CM
19 Women who is pregnant or breastfeeding	009.02	DX	SUPERVISION OF PREGNANCY WITH HISTORY OF INFERTILITY, SECOND TRIMESTER	ICD-10-CM
19 Women who is pregnant or breastfeeding	009.03	DX	SUPERVISION OF PREGNANCY WITH HISTORY OF INFERTILITY, THIRD TRIMESTER	ICD-10-CM
19 Women who is pregnant or breastfeeding	009.1	DX	SUPERVISION OF PREGNANCY WITH HISTORY OF ECTOPIC PREGNANCY	ICD-10-CM
19 Women who is pregnant or breastfeeding	009.10	DX	SUPERVISION OF PREGNANCY WITH HISTORY OF ECTOPIC PREGNANCY, UNSPECIFIED TRIC	ICD-10-CM
19 Women who is pregnant or breastfeeding	009.11	DX	SUPERVISION OF PREGNANCY WITH HISTORY OF ECTOPIC PREGNANCY, FIRST TRIMESTER	ICD-10-CM
19 Women who is pregnant or breastfeeding	009.12	DX	SUPERVISION OF PREGNANCY WITH HISTORY OF ECTOPIC PREGNANCY, SECOND TRIMESTER	ICD-10-CM
19 Women who is pregnant or breastfeeding	009.13	DX	SUPERVISION OF PREGNANCY WITH HISTORY OF ECTOPIC PREGNANCY, THIRD TRIMESTER	ICD-10-CM
19 Women who is pregnant or breastfeeding	009.2	DX	SUPERVISION OF PREGNANCY WITH OTHER POOR REPRODUCTIVE OR OBSTETRIC HISTOR	ICD-10-CM
19 Women who is pregnant or breastfeeding	009.21	DX	SUPERVISION OF PREGNANCY WITH HISTORY OF PRE-TERM LABOR	ICD-10-CM
19 Women who is pregnant or breastfeeding	009.211	DX	SUPERVISION OF PREGNANCY WITH HISTORY OF PRE-TERM LABOR, FIRST TRIMESTER	ICD-10-CM
19 Women who is pregnant or breastfeeding	009.212	DX	SUPERVISION OF PREGNANCY WITH HISTORY OF PRE-TERM LABOR, SECOND TRIMESTER	ICD-10-CM
19 Women who is pregnant or breastfeeding	009.213	DX	SUPERVISION OF PREGNANCY WITH HISTORY OF PRE-TERM LABOR, THIRD TRIMESTER	ICD-10-CM
19 Women who is pregnant or breastfeeding	009.219	DX	SUPERVISION OF PREGNANCY WITH HISTORY OF PRE-TERM LABOR, UNSPECIFIED TRIMES	ICD-10-CM
19 Women who is pregnant or breastfeeding	009.29	DX	SUPERVISION OF PREGNANCY WITH OTHER POOR REPRODUCTIVE OR OBSTETRIC HISTOR	ICD-10-CM
19 Women who is pregnant or breastfeeding	009.291	DX	SUPERVISION OF PREGNANCY WITH OTHER POOR REPRODUCTIVE OR OBSTETRIC HISTO	ICD-10-CM
19 Women who is pregnant or breastfeeding	009.292	DX	SUPERVISION OF PREGNANCY WITH OTHER POOR REPRODUCTIVE OR OBSTETRIC HISTO	ICD-10-CM
19 Women who is pregnant or breastfeeding	009.293	DX	SUPERVISION OF PREGNANCY WITH OTHER POOR REPRODUCTIVE OR OBSTETRIC HISTO	ICD-10-CM
19 Women who is pregnant or breastfeeding	009.299	DX	SUPERVISION OF PREGNANCY WITH OTHER POOR REPRODUCTIVE OR OBSTETRIC HISTO	ICD-10-CM
19 Women who is pregnant or breastfeeding	009.3	DX	SUPERVISION OF PREGNANCY WITH INSUFFICIENT ANTENATAL CARE	ICD-10-CM
19 Women who is pregnant or breastfeeding	009.30	DX	SUPERVISION OF PREGNANCY WITH INSUFFICIENT ANTENATAL CARE, UNSPECIFIED TRIM	ICD-10-CM
19 Women who is pregnant or				

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19 Women who is pregnant or breastfeeding	O15	DX	ECLAMPSIA	ICD-10-CM
19 Women who is pregnant or breastfeeding	O15.0	DX	ECLAMPSIA COMPLICATING PREGNANCY	ICD-10-CM
19 Women who is pregnant or breastfeeding	O15.00	DX	ECLAMPSIA COMPLICATING PREGNANCY, UNSPECIFIED TRIMESTER	ICD-10-CM
19 Women who is pregnant or breastfeeding	O15.02	DX	ECLAMPSIA COMPLICATING PREGNANCY, SECOND TRIMESTER	ICD-10-CM
19 Women who is pregnant or breastfeeding	O15.03	DX	ECLAMPSIA COMPLICATING PREGNANCY, THIRD TRIMESTER	ICD-10-CM
19 Women who is pregnant or breastfeeding	O15.1	DX	ECLAMPSIA COMPLICATING LABOR	ICD-10-CM
19 Women who is pregnant or breastfeeding	O15.2	DX	ECLAMPSIA COMPLICATING THE PUERPERIUM	ICD-10-CM
19 Women who is pregnant or breastfeeding	O15.9	DX	ECLAMPSIA, UNSPECIFIED AS TO TIME PERIOD	ICD-10-CM
19 Women who is pregnant or breastfeeding	O16	DX	UNSPECIFIED MATERNAL HYPERTENSION	ICD-10-CM
19 Women who is pregnant or breastfeeding	O16.1	DX	UNSPECIFIED MATERNAL HYPERTENSION, FIRST TRIMESTER	ICD-10-CM
19 Women who is pregnant or breastfeeding	O16.2	DX	UNSPECIFIED MATERNAL HYPERTENSION, SECOND TRIMESTER	ICD-10-CM
19 Women who is pregnant or breastfeeding	O16.3	DX	UNSPECIFIED MATERNAL HYPERTENSION, THIRD TRIMESTER	ICD-10-CM
19 Women who is pregnant or breastfeeding	O16.4	DX	UNSPECIFIED MATERNAL HYPERTENSION, COMPLICATING CHILDBIRTH	ICD-10-CM
19 Women who is pregnant or breastfeeding	O16.5	DX	UNSPECIFIED MATERNAL HYPERTENSION, COMPLICATING THE PUERPERIUM	ICD-10-CM
19 Women who is pregnant or breastfeeding	O16.9	DX	UNSPECIFIED MATERNAL HYPERTENSION, UNSPECIFIED TRIMESTER	ICD-10-CM
19 Women who is pregnant or breastfeeding	O20	DX	HEMORRHAGE IN EARLY PREGNANCY	ICD-10-CM
19 Women who is pregnant or breastfeeding	O20.0	DX	THREATENED ABORTION	ICD-10-CM
19 Women who is pregnant or breastfeeding	O20.8	DX	OTHER HEMORRHAGE IN EARLY PREGNANCY	ICD-10-CM
19 Women who is pregnant or breastfeeding	O20.9	DX	HEMORRHAGE IN EARLY PREGNANCY, UNSPECIFIED	ICD-10-CM
19 Women who is pregnant or breastfeeding	O21	DX	EXCESSIVE VOMITING IN PREGNANCY	ICD-10-CM
19 Women who is pregnant or breastfeeding	O21.0	DX	MILD HYPEREMESIS GRAVIDARUM	ICD-10-CM
19 Women who is pregnant or breastfeeding	O21.1	DX	HYPEREMESIS GRAVIDARUM WITH METABOLIC DISTURBANCE	ICD-10-CM
19 Women who is pregnant or breastfeeding	O21.2	DX	LATE VOMITING OF PREGNANCY	ICD-10-CM
19 Women who is pregnant or breastfeeding	O21.8	DX	OTHER VOMITING COMPLICATING PREGNANCY	ICD-10-CM
19 Women who is pregnant or breastfeeding	O21.9	DX	VOMITING OF PREGNANCY, UNSPECIFIED	ICD-10-CM
19 Women who is pregnant or breastfeeding	O22	DX	VENOUS COMPLICATIONS AND HEMORRHOIDS IN PREGNANCY	ICD-10-CM
19 Women who is pregnant or breastfeeding	O22.0	DX	VARICOSE VEINS OF LOWER EXTREMITY IN PREGNANCY	ICD-10-CM
19 Women who is pregnant or breastfeeding	O22.00	DX	VARICOSE VEINS OF LOWER EXTREMITY IN PREGNANCY, UNSPECIFIED TRIMESTER	ICD-10-CM
19 Women who is pregnant or breastfeeding	O22.01	DX	VARICOSE VEINS OF LOWER EXTREMITY IN PREGNANCY, FIRST TRIMESTER	ICD-10-CM
19 Women who is pregnant or breastfeeding	O22.02	DX	VARICOSE VEINS OF LOWER EXTREMITY IN PREGNANCY, SECOND TRIMESTER	ICD-10-CM
19 Women who is pregnant or breastfeeding	O22.03	DX	VARICOSE VEINS OF LOWER EXTREMITY IN PREGNANCY, THIRD TRIMESTER	ICD-10-CM
19 Women who is pregnant or breastfeeding	O22.1	DX	GENITAL VARICES IN PREGNANCY	ICD-10-CM
19 Women who is pregnant or breastfeeding	O22.10	DX	GENITAL VARICES IN PREGNANCY, UNSPECIFIED TRIMESTER	ICD-10-CM
19 Women who is pregnant or breastfeeding	O22.11	DX	GENITAL VARICES IN PREGNANCY, FIRST TRIMESTER	ICD-10-CM
19 Women who is pregnant or breastfeeding	O22.12	DX	GENITAL VARICES IN PREGNANCY, SECOND TRIMESTER	ICD-10-CM
19 Women who is pregnant or breastfeeding	O22.13	DX	GENITAL VARICES IN PREGNANCY, THIRD TRIMESTER	ICD-10-CM
19 Women who is pregnant or breastfeeding	O22.2	DX	SUPERFICIAL THROMBOPHLEBITIS IN PREGNANCY	ICD-10-CM
19 Women who is pregnant or breastfeeding	O22.20	DX	SUPERFICIAL THROMBOPHLEBITIS IN PREGNANCY, UNSPECIFIED TRIMESTER	ICD-10-CM
19 Women who is pregnant or breastfeeding	O22.21	DX	SUPERFICIAL THROMBOPHLEBITIS IN PREGNANCY, FIRST TRIMESTER	ICD-10-CM
19 Women who is pregnant or breastfeeding	O22.22	DX	SUPERFICIAL THROMBOPHLEBITIS IN PREGNANCY, SECOND TRIMESTER	ICD-10-CM
19 Women who is pregnant or breastfeeding	O22.23	DX	SUPERFICIAL THROMBOPHLEBITIS IN PREGNANCY, THIRD TRIMESTER	ICD-10-CM
19 Women who is pregnant or breastfeeding	O22.3	DX	DEEP PHLEBOTHROMBOSIS IN PREGNANCY	ICD-10-CM
19 Women who is pregnant or breastfeeding	O22.30	DX	DEEP PHLEBOTHROMBOSIS IN PREGNANCY, UNSPECIFIED TRIMESTER	ICD-10-CM
19 Women who is pregnant or breastfeeding	O22.31	DX	DEEP PHLEBOTHROMBOSIS IN PREGNANCY, FIRST TRIMESTER	ICD-10-CM
19 Women who is pregnant or breastfeeding	O22.32	DX	DEEP PHLEBOTHROMBOSIS IN PREGNANCY, SECOND TRIMESTER	ICD-10-CM
19 Women who is pregnant or breastfeeding	O22.33	DX	DEEP PHLEBOTHROMBOSIS IN PREGNANCY, THIRD TRIMESTER	ICD-10-CM
19 Women who is pregnant or breastfeeding	O22.4	DX	HEMORRHOIDS IN PREGNANCY	ICD-10-CM
19 Women who is pregnant or breastfeeding	O22.40	DX	HEMORRHOIDS IN PREGNANCY, UNSPECIFIED TRIMESTER	ICD-10-CM
19 Women who is pregnant or breastfeeding	O22.41	DX	HEMORRHOIDS IN PREGNANCY, FIRST TRIMESTER	ICD-10-CM
19 Women who is pregnant or breastfeeding	O22.42	DX	HEMORRHOIDS IN PREGNANCY, SECOND TRIMESTER	ICD-10-CM
19 Women who is pregnant or breastfeeding	O22.43	DX	HEMORRHOIDS IN PREGNANCY, THIRD TRIMESTER	ICD-10-CM
19 Women who is pregnant or breastfeeding	O22.5	DX	CEREBRAL VENOUS THROMBOSIS IN PREGNANCY	ICD-10-CM
19 Women who is pregnant or breastfeeding	O22.50	DX	CEREBRAL VENOUS THROMBOSIS IN PREGNANCY, UNSPECIFIED TRIMESTER	ICD-10-CM
19 Women who is pregnant or breastfeeding	O22.51	DX	CEREBRAL VENOUS THROMBOSIS IN PREGNANCY, FIRST TRIMESTER	ICD-10-CM
19 Women who is pregnant or breastfeeding	O22.52	DX	CEREBRAL VENOUS THROMBOSIS IN PREGNANCY, SECOND TRIMESTER	ICD-10-CM
19 Women who is pregnant or breastfeeding	O22.53	DX	CEREBRAL VENOUS THROMBOSIS IN PREGNANCY, THIRD TRIMESTER	ICD-10-CM
19 Women who is pregnant or breastfeeding	O22.8	DX	OTHER VENOUS COMPLICATIONS IN PREGNANCY	ICD-10-CM
19 Women who is pregnant or breastfeeding	O22.8X	DX	OTHER VENOUS COMPLICATIONS IN PREGNANCY	ICD-10-CM
19 Women who is pregnant or breastfeeding	O22.8X1	DX	OTHER VENOUS COMPLICATIONS IN PREGNANCY, FIRST TRIMESTER	ICD-10-CM
19 Women who is pregnant or breastfeeding	O22.8X2	DX	OTHER VENOUS COMPLICATIONS IN PREGNANCY, SECOND TRIMESTER	ICD-10-CM
19 Women who is pregnant or breastfeeding	O22.8X3	DX	OTHER VENOUS COMPLICATIONS IN PREGNANCY, THIRD TRIMESTER	ICD-10-CM
19 Women who is pregnant or breastfeeding	O22.8X9	DX	OTHER VENOUS COMPLICATIONS IN PREGNANCY, UNSPECIFIED TRIMESTER	ICD-10-CM
19 Women who is pregnant or breastfeeding	O22.9	DX	VENOUS COMPLICATION IN PREGNANCY, UNSPECIFIED	ICD-10-CM
19 Women who is pregnant or breastfeeding	O22.90	DX	VENOUS COMPLICATION IN PREGNANCY, UNSPECIFIED, UNSPECIFIED TRIMESTER	ICD-10-CM
19 Women who is pregnant or breastfeeding	O22.91	DX	VENOUS COMPLICATION IN PREGNANCY, UNSPECIFIED, FIRST TRIMESTER	ICD-10-CM
19 Women who is pregnant or breastfeeding	O22.92	DX	VENOUS COMPLICATION IN PREGNANCY, UNSPECIFIED, SECOND TRIMESTER	ICD-10-CM
19 Women who is pregnant or breastfeeding	O22.93	DX	VENOUS COMPLICATION IN PREGNANCY, UNSPECIFIED, THIRD TRIMESTER	ICD-10-CM
19 Women who is pregnant or breastfeeding	O23	DX	INFECTIONS OF GENITOURINARY TRACT IN PREGNANCY	ICD-10-CM
19 Women who is pregnant or breastfeeding	O23.0	DX	INFECTIONS OF KIDNEY IN PREGNANCY	ICD-10-CM
19 Women who is pregnant or breastfeeding	O23.00	DX	INFECTIONS OF KIDNEY IN PREGNANCY, UNSPECIFIED TRIMESTER	ICD-10-CM
19 Women who is pregnant or breastfeeding	O23.01	DX	INFECTIONS OF KIDNEY IN PREGNANCY, FIRST TRIMESTER	ICD-10-CM
19 Women who is pregnant or breastfeeding	O23.02	DX	INFECTIONS OF KIDNEY IN PREGNANCY, SECOND TRIMESTER	ICD-10-CM
19 Women who is pregnant or breastfeeding	O23.03	DX	INFECTIONS OF KIDNEY IN PREGNANCY, THIRD TRIMESTER	ICD-10-CM
19 Women who is pregnant or breastfeeding	O23.1	DX	INFECTIONS OF BLADDER IN PREGNANCY	ICD-10-CM
19 Women who is pregnant or breastfeeding	O23.10	DX	INFECTIONS OF BLADDER IN PREGNANCY, UNSPECIFIED TRIMESTER	ICD-10-CM
19 Women who is pregnant or breastfeeding	O23.11	DX	INFECTIONS OF BLADDER IN PREGNANCY, FIRST TRIMESTER	ICD-10-CM

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19 Women who is pregnant or breastfeeding	024.434	DX	GESTATIONAL DIABETES MELLITUS IN THE PUERPERIUM, INSULIN CONTROLLED	ICD-10-CM
19 Women who is pregnant or breastfeeding	024.435	DX	GESTATIONAL DIABETES MELLITUS IN PUERPERIUM, CONTROLLED BY ORAL HYPOGLYCE	ICD-10-CM
19 Women who is pregnant or breastfeeding	024.439	DX	GESTATIONAL DIABETES MELLITUS IN THE PUERPERIUM, UNSPECIFIED CONTROL	ICD-10-CM
19 Women who is pregnant or breastfeeding	024.8	DX	OTHER PRE-EXISTING DIABETES MELLITUS IN PREGNANCY, CHILDBIRTH, AND THE PUERP	ICD-10-CM
19 Women who is pregnant or breastfeeding	024.81	DX	OTHER PRE-EXISTING DIABETES MELLITUS IN PREGNANCY	ICD-10-CM
19 Women who is pregnant or breastfeeding	024.811	DX	OTHER PRE-EXISTING DIABETES MELLITUS IN PREGNANCY, FIRST TRIMESTER	ICD-10-CM
19 Women who is pregnant or breastfeeding	024.812	DX	OTHER PRE-EXISTING DIABETES MELLITUS IN PREGNANCY, SECOND TRIMESTER	ICD-10-CM
19 Women who is pregnant or breastfeeding	024.813	DX	OTHER PRE-EXISTING DIABETES MELLITUS IN PREGNANCY, THIRD TRIMESTER	ICD-10-CM
19 Women who is pregnant or breastfeeding	024.819	DX	OTHER PRE-EXISTING DIABETES MELLITUS IN PREGNANCY, UNSPECIFIED TRIMESTER	ICD-10-CM
19 Women who is pregnant or breastfeeding	024.82	DX	OTHER PRE-EXISTING DIABETES MELLITUS IN CHILDBIRTH	ICD-10-CM
19 Women who is pregnant or breastfeeding	024.83	DX	OTHER PRE-EXISTING DIABETES MELLITUS IN THE PUERPERIUM	ICD-10-CM
19 Women who is pregnant or breastfeeding	024.9	DX	UNSPECIFIED DIABETES MELLITUS IN PREGNANCY, CHILDBIRTH AND THE PUERPERIUM	ICD-10-CM
19 Women who is pregnant or breastfeeding	024.91	DX	UNSPECIFIED DIABETES MELLITUS IN PREGNANCY	ICD-10-CM
19 Women who is pregnant or breastfeeding	024.911	DX	UNSPECIFIED DIABETES MELLITUS IN PREGNANCY, FIRST TRIMESTER	ICD-10-CM
19 Women who is pregnant or breastfeeding	024.912	DX	UNSPECIFIED DIABETES MELLITUS IN PREGNANCY, SECOND TRIMESTER	ICD-10-CM
19 Women who is pregnant or breastfeeding	024.913	DX	UNSPECIFIED DIABETES MELLITUS IN PREGNANCY, THIRD TRIMESTER	ICD-10-CM
19 Women who is pregnant or breastfeeding	024.919	DX	UNSPECIFIED DIABETES MELLITUS IN PREGNANCY, UNSPECIFIED TRIMESTER	ICD-10-CM
19 Women who is pregnant or breastfeeding	024.92	DX	UNSPECIFIED DIABETES MELLITUS IN CHILDBIRTH	ICD-10-CM
19 Women who is pregnant or breastfeeding	024.93	DX	UNSPECIFIED DIABETES MELLITUS IN THE PUERPERIUM	ICD-10-CM
19 Women who is pregnant or breastfeeding	025	DX	MALNUTRITION IN PREGNANCY, CHILDBIRTH AND THE PUERPERIUM	ICD-10-CM
19 Women who is pregnant or breastfeeding	025.1	DX	MALNUTRITION IN PREGNANCY	ICD-10-CM
19 Women who is pregnant or breastfeeding	025.10	DX	MALNUTRITION IN PREGNANCY, UNSPECIFIED TRIMESTER	ICD-10-CM
19 Women who is pregnant or breastfeeding	025.11	DX	MALNUTRITION IN PREGNANCY, FIRST TRIMESTER	ICD-10-CM
19 Women who is pregnant or breastfeeding	025.12	DX	MALNUTRITION IN PREGNANCY, SECOND TRIMESTER	ICD-10-CM
19 Women who is pregnant or breastfeeding	025.13	DX	MALNUTRITION IN PREGNANCY, THIRD TRIMESTER	ICD-10-CM
19 Women who is pregnant or breastfeeding	025.2	DX	MALNUTRITION IN CHILDBIRTH	ICD-10-CM
19 Women who is pregnant or breastfeeding	025.3	DX	MALNUTRITION IN THE PUERPERIUM	ICD-10-CM
19 Women who is pregnant or breastfeeding	026	DX	MATERNAL CARE FOR OTHER CONDITIONS PREDOMINANTLY RELATED TO PREGNANCY	ICD-10-CM
19 Women who is pregnant or breastfeeding	026.0	DX	EXCESSIVE WEIGHT GAIN IN PREGNANCY	ICD-10-CM
19 Women who is pregnant or breastfeeding	026.00	DX	EXCESSIVE WEIGHT GAIN IN PREGNANCY, UNSPECIFIED TRIMESTER	ICD-10-CM
19 Women who is pregnant or breastfeeding	026.01	DX	EXCESSIVE WEIGHT GAIN IN PREGNANCY, FIRST TRIMESTER	ICD-10-CM
19 Women who is pregnant or breastfeeding	026.02	DX	EXCESSIVE WEIGHT GAIN IN PREGNANCY, SECOND TRIMESTER	ICD-10-CM
19 Women who is pregnant or breastfeeding	026.03	DX	EXCESSIVE WEIGHT GAIN IN PREGNANCY, THIRD TRIMESTER	ICD-10-CM
19 Women who is pregnant or breastfeeding	026.1	DX	LOW WEIGHT GAIN IN PREGNANCY	ICD-10-CM
19 Women who is pregnant or breastfeeding	026.10	DX	LOW WEIGHT GAIN IN PREGNANCY, UNSPECIFIED TRIMESTER	ICD-10-CM
19 Women who is pregnant or breastfeeding	026.11	DX	LOW WEIGHT GAIN IN PREGNANCY, FIRST TRIMESTER	ICD-10-CM
19 Women who is pregnant or breastfeeding	026.12	DX	LOW WEIGHT GAIN IN PREGNANCY, SECOND TRIMESTER	ICD-10-CM
19 Women who is pregnant or breastfeeding	026.13	DX	LOW WEIGHT GAIN IN PREGNANCY, THIRD TRIMESTER	ICD-10-CM
19 Women who is pregnant or breastfeeding	026.2	DX	PREGNANCY CARE FOR PATIENT WITH RECURRENT PREGNANCY LOSS	ICD-10-CM
19 Women who is pregnant or breastfeeding	026.20	DX	PREGNANCY CARE FOR PATIENT WITH RECURRENT PREGNANCY LOSS, UNSPECIFIED TRI	ICD-10-CM
19 Women who is pregnant or breastfeeding	026.21	DX	PREGNANCY CARE FOR PATIENT WITH RECURRENT PREGNANCY LOSS, FIRST TRIMESTER	ICD-10-CM
19 Women who is pregnant or breastfeeding	026.22	DX	PREGNANCY CARE FOR PATIENT WITH RECURRENT PREGNANCY LOSS, SECOND TRIMEST	ICD-10-CM
19 Women who is pregnant or breastfeeding	026.23	DX	PREGNANCY CARE FOR PATIENT WITH RECURRENT PREGNANCY LOSS, THIRD TRIMESTER	ICD-10-CM
19 Women who is pregnant or breastfeeding	026.3	DX	RETAINED INTRAUTERINE CONTRACEPTIVE DEVICE IN PREGNANCY	ICD-10-CM
19 Women who is pregnant or breastfeeding	026.30	DX	RETAINED INTRAUTERINE CONTRACEPTIVE DEVICE IN PREGNANCY, UNSPECIFIED TRIME	ICD-10-CM
19 Women who is pregnant or breastfeeding	026.31	DX	RETAINED INTRAUTERINE CONTRACEPTIVE DEVICE IN PREGNANCY, FIRST TRIMESTER	ICD-10-CM
19 Women who is pregnant or breastfeeding	026.32	DX	RETAINED INTRAUTERINE CONTRACEPTIVE DEVICE IN PREGNANCY, SECOND TRIMESTER	ICD-10-CM
19 Women who is pregnant or breastfeeding	026.33	DX	RETAINED INTRAUTERINE CONTRACEPTIVE DEVICE IN PREGNANCY, THIRD TRIMESTER	ICD-10-CM
19 Women who is pregnant or breastfeeding	026.4	DX	HERPES GESTATIONIS	ICD-10-CM
19 Women who is pregnant or breastfeeding	026.40	DX	HERPES GESTATIONIS, UNSPECIFIED TRIMESTER	ICD-10-CM
19 Women who is pregnant or breastfeeding	026.41	DX	HERPES GESTATIONIS, FIRST TRIMESTER	ICD-10-CM
19 Women who is pregnant or breastfeeding	026.42	DX	HERPES GESTATIONIS, SECOND TRIMESTER	ICD-10-CM
19 Women who is pregnant or breastfeeding	026.43	DX	HERPES GESTATIONIS, THIRD TRIMESTER	ICD-10-CM
19 Women who is pregnant or breastfeeding	026.5	DX	MATERNAL HYPOTENSION SYNDROME	ICD-10-CM
19 Women who is pregnant or breastfeeding	026.50	DX	MATERNAL HYPOTENSION SYNDROME, UNSPECIFIED TRIMESTER	ICD-10-CM
19 Women who is pregnant or breastfeeding	026.51	DX	MATERNAL HYPOTENSION SYNDROME, FIRST TRIMESTER	ICD-10-CM
19 Women who is pregnant or breastfeeding	026.52	DX	MATERNAL HYPOTENSION SYNDROME, SECOND TRIMESTER	ICD-10-CM
19 Women who is pregnant or breastfeeding	026.53	DX	MATERNAL HYPOTENSION SYNDROME, THIRD TRIMESTER	ICD-10-CM
19 Women who is pregnant or breastfeeding	026.6	DX	LIVER AND BILIARY TRACT DISORDERS IN PREGNANCY, CHILDBIRTH AND THE PUERPERIL	ICD-10-CM
19 Women who is pregnant or breastfeeding	026.61	DX	LIVER AND BILIARY TRACT DISORDERS IN PREGNANCY	ICD-10-CM
19 Women who is pregnant or breastfeeding	026.611	DX	LIVER AND BILIARY TRACT DISORDERS IN PREGNANCY, FIRST TRIMESTER	ICD-10-CM
19 Women who is pregnant or breastfeeding	026.612	DX	LIVER AND BILIARY TRACT DISORDERS IN PREGNANCY, SECOND TRIMESTER	ICD-10-CM
19 Women who is pregnant or breastfeeding	026.613	DX	LIVER AND BILIARY TRACT DISORDERS IN PREGNANCY, THIRD TRIMESTER	ICD-10-CM
19 Women who is pregnant or breastfeeding	026.619	DX	LIVER AND BILIARY TRACT DISORDERS IN PREGNANCY, UNSPECIFIED TRIMESTER	ICD-10-CM
19 Women who is pregnant or breastfeeding	026.62	DX	LIVER AND BILIARY TRACT DISORDERS IN CHILDBIRTH	ICD-10-CM
19 Women who is pregnant or breastfeeding	026.63	DX	LIVER AND BILIARY TRACT DISORDERS IN THE PUERPERIUM	ICD-10-CM
19 Women who is pregnant or breastfeeding	026.7	DX	SUBLUXATION OF SYMPHYSIS (PUBIS) IN PREGNANCY, CHILDBIRTH AND THE PUERPERIUM	ICD-10-CM
19 Women who is pregnant or breastfeeding	026.71	DX	SUBLUXATION OF SYMPHYSIS (PUBIS) IN PREGNANCY	ICD-10-CM
19 Women who is pregnant or breastfeeding	026.711	DX	SUBLUXATION OF SYMPHYSIS (PUBIS) IN PREGNANCY, FIRST TRIMESTER	ICD-10-CM
19 Women who is pregnant or breastfeeding	026.712	DX	SUBLUXATION OF SYMPHYSIS (PUBIS) IN PREGNANCY, SECOND TRIMESTER	ICD-10-CM
19 Women who is pregnant or breastfeeding	026.713	DX	SUBLUXATION OF SYMPHYSIS (PUBIS) IN PREGNANCY, THIRD TRIMESTER	ICD-10-CM
19 Women who is pregnant or breastfeeding	026.719	DX	SUBLUXATION OF SYMPHYSIS (PUBIS) IN PREGNANCY, UNSPECIFIED TRIMESTER	ICD-10-CM
19 Women who is pregnant or breastfeeding	026.72	DX	SUBLUXATION OF SYMPHYSIS (PUBIS) IN CHILDBIRTH	ICD-10-CM
19 Women who is pregnant or breastfeeding	026.73	DX	SUBLUXATION OF SYMPHYSIS (PUBIS) IN THE PUERPERIUM	ICD-10-CM
19 Women who is pregnant or breastfeeding	026.8	DX	OTHER SPECIFIED PREGNANCY RELATED CONDITIONS	ICD-10-CM
19 Women who is pregnant or breastfeeding	026.81	DX	PREGNANCY RELATED EXHAUSTION AND FATIGUE	ICD-10-CM

19 Women who is pregnant or breastfeeding	026.811	DX	PREGNANCY RELATED EXHAUSTION AND FATIGUE, FIRST TRIMESTER	ICD-10-CM
19 Women who is pregnant or breastfeeding	026.812	DX	PREGNANCY RELATED EXHAUSTION AND FATIGUE, SECOND TRIMESTER	ICD-10-CM
19 Women who is pregnant or breastfeeding	026.813	DX	PREGNANCY RELATED EXHAUSTION AND FATIGUE, THIRD TRIMESTER	ICD-10-CM
19 Women who is pregnant or breastfeeding	026.819	DX	PREGNANCY RELATED EXHAUSTION AND FATIGUE, UNSPECIFIED TRIMESTER	ICD-10-CM
19 Women who is pregnant or breastfeeding	026.82	DX	PREGNANCY RELATED PERIPHERAL NEURITIS	ICD-10-CM
19 Women who is pregnant or breastfeeding	026.821	DX	PREGNANCY RELATED PERIPHERAL NEURITIS, FIRST TRIMESTER	ICD-10-CM
19 Women who is pregnant or breastfeeding	026.822	DX	PREGNANCY RELATED PERIPHERAL NEURITIS, SECOND TRIMESTER	ICD-10-CM
19 Women who is pregnant or breastfeeding	026.823	DX	PREGNANCY RELATED PERIPHERAL NEURITIS, THIRD TRIMESTER	ICD-10-CM
19 Women who is pregnant or breastfeeding	026.829	DX	PREGNANCY RELATED PERIPHERAL NEURITIS, UNSPECIFIED TRIMESTER	ICD-10-CM
19 Women who is pregnant or breastfeeding	026.83	DX	PREGNANCY RELATED RENAL DISEASE	ICD-10-CM
19 Women who is pregnant or breastfeeding	026.831	DX	PREGNANCY RELATED RENAL DISEASE, FIRST TRIMESTER	ICD-10-CM
19 Women who is pregnant or breastfeeding	026.832	DX	PREGNANCY RELATED RENAL DISEASE, SECOND TRIMESTER	ICD-10-CM
19 Women who is pregnant or breastfeeding	026.833	DX	PREGNANCY RELATED RENAL DISEASE, THIRD TRIMESTER	ICD-10-CM
19 Women who is pregnant or breastfeeding	026.839	DX	PREGNANCY RELATED RENAL DISEASE, UNSPECIFIED TRIMESTER	ICD-10-CM
19 Women who is pregnant or breastfeeding	026.84	DX	UTERINE SIZE-DATE DISCREPANCY COMPLICATING PREGNANCY	ICD-10-CM
19 Women who is pregnant or breastfeeding	026.841	DX	UTERINE SIZE-DATE DISCREPANCY, FIRST TRIMESTER	ICD-10-CM
19 Women who is pregnant or breastfeeding	026.842	DX	UTERINE SIZE-DATE DISCREPANCY, SECOND TRIMESTER	ICD-10-CM
19 Women who is pregnant or breastfeeding	026.843	DX	UTERINE SIZE-DATE DISCREPANCY, THIRD TRIMESTER	ICD-10-CM
19 Women who is pregnant or breastfeeding	026.849	DX	UTERINE SIZE-DATE DISCREPANCY, UNSPECIFIED TRIMESTER	ICD-10-CM
19 Women who is pregnant or breastfeeding	026.85	DX	SPOTTING COMPLICATING PREGNANCY	ICD-10-CM
19 Women who is pregnant or breastfeeding	026.851	DX	SPOTTING COMPLICATING PREGNANCY, FIRST TRIMESTER	ICD-10-CM
19 Women who is pregnant or breastfeeding	026.852	DX	SPOTTING COMPLICATING PREGNANCY, SECOND TRIMESTER	ICD-10-CM
19 Women who is pregnant or breastfeeding	026.853	DX	SPOTTING COMPLICATING PREGNANCY, THIRD TRIMESTER	ICD-10-CM
19 Women who is pregnant or breastfeeding	026.859	DX	SPOTTING COMPLICATING PREGNANCY, UNSPECIFIED TRIMESTER	ICD-10-CM
19 Women who is pregnant or breastfeeding	026.86	DX	PRURITIC URTICARIAL PAPULES AND PLAQUES OF PREGNANCY (PUPPPP)	ICD-10-CM
19 Women who is pregnant or breastfeeding	026.87	DX	CERVICAL SHORTENING	ICD-10-CM
19 Women who is pregnant or breastfeeding	026.872	DX	CERVICAL SHORTENING, SECOND TRIMESTER	ICD-10-CM
19 Women who is pregnant or breastfeeding	026.873	DX	CERVICAL SHORTENING, THIRD TRIMESTER	ICD-10-CM
19 Women who is pregnant or breastfeeding	026.879	DX	CERVICAL SHORTENING, UNSPECIFIED TRIMESTER	ICD-10-CM
19 Women who is pregnant or breastfeeding	026.89	DX	OTHER SPECIFIED PREGNANCY RELATED CONDITIONS	ICD-10-CM
19 Women who is pregnant or breastfeeding	026.891	DX	OTHER SPECIFIED PREGNANCY RELATED CONDITIONS, FIRST TRIMESTER	ICD-10-CM
19 Women who is pregnant or breastfeeding	026.892	DX	OTHER SPECIFIED PREGNANCY RELATED CONDITIONS, SECOND TRIMESTER	ICD-10-CM
19 Women who is pregnant or breastfeeding	026.893	DX	OTHER SPECIFIED PREGNANCY RELATED CONDITIONS, THIRD TRIMESTER	ICD-10-CM
19 Women who is pregnant or breastfeeding	026.899	DX	OTHER SPECIFIED PREGNANCY RELATED CONDITIONS, UNSPECIFIED TRIMESTER	ICD-10-CM
19 Women who is pregnant or breastfeeding	026.9	DX	PREGNANCY RELATED CONDITIONS, UNSPECIFIED	ICD-10-CM
19 Women who is pregnant or breastfeeding	026.90	DX	PREGNANCY RELATED CONDITIONS, UNSPECIFIED, UNSPECIFIED TRIMESTER	ICD-10-CM
19 Women who is pregnant or breastfeeding	026.91	DX	PREGNANCY RELATED CONDITIONS, UNSPECIFIED, FIRST TRIMESTER	ICD-10-CM
19 Women who is pregnant or breastfeeding	026.92	DX	PREGNANCY RELATED CONDITIONS, UNSPECIFIED, SECOND TRIMESTER	ICD-10-CM
19 Women who is pregnant or breastfeeding	026.93	DX	PREGNANCY RELATED CONDITIONS, UNSPECIFIED, THIRD TRIMESTER	ICD-10-CM
19 Women who is pregnant or breastfeeding	028	DX	ABNORMAL FINDINGS ON ANTENATAL SCREENING OF MOTHER	ICD-10-CM
19 Women who is pregnant or breastfeeding	028.0	DX	ABNORMAL HEMATOLOGICAL FINDING ON ANTENATAL SCREENING OF MOTHER	ICD-10-CM
19 Women who is pregnant or breastfeeding	028.1	DX	ABNORMAL BIOCHEMICAL FINDING ON ANTENATAL SCREENING OF MOTHER	ICD-10-CM
19 Women who is pregnant or breastfeeding	028.2	DX	ABNORMAL CYTOLOGICAL FINDING ON ANTENATAL SCREENING OF MOTHER	ICD-10-CM
19 Women who is pregnant or breastfeeding	028.3	DX	ABNORMAL ULTRASONIC FINDING ON ANTENATAL SCREENING OF MOTHER	ICD-10-CM
19 Women who is pregnant or breastfeeding	028.4	DX	ABNORMAL RADIOLOGICAL FINDING ON ANTENATAL SCREENING OF MOTHER	ICD-10-CM
19 Women who is pregnant or breastfeeding	028.5	DX	ABNORMAL CHROMOSOMAL AND GENETIC FINDING ON ANTENATAL SCREENING OF MOTHER	ICD-10-CM
19 Women who is pregnant or breastfeeding	028.8	DX	OTHER ABNORMAL FINDINGS ON ANTENATAL SCREENING OF MOTHER	ICD-10-CM
19 Women who is pregnant or breastfeeding	028.9	DX	UNSPECIFIED ABNORMAL FINDINGS ON ANTENATAL SCREENING OF MOTHER	ICD-10-CM
19 Women who is pregnant or breastfeeding	029	DX	COMPLICATIONS OF ANESTHESIA DURING PREGNANCY	ICD-10-CM
19 Women who is pregnant or breastfeeding	029.0	DX	PULMONARY COMPLICATIONS OF ANESTHESIA DURING PREGNANCY	ICD-10-CM
19 Women who is pregnant or breastfeeding	029.01	DX	ASPIRATION PNEUMONITIS DUE TO ANESTHESIA DURING PREGNANCY	ICD-10-CM
19 Women who is pregnant or breastfeeding	029.011	DX	ASPIRATION PNEUMONITIS DUE TO ANESTHESIA DURING PREGNANCY, FIRST TRIMESTER	ICD-10-CM
19 Women who is pregnant or breastfeeding	029.012	DX	ASPIRATION PNEUMONITIS DUE TO ANESTHESIA DURING PREGNANCY, SECOND TRIMESTER	ICD-10-CM
19 Women who is pregnant or breastfeeding	029.013	DX	ASPIRATION PNEUMONITIS DUE TO ANESTHESIA DURING PREGNANCY, THIRD TRIMESTER	ICD-10-CM
19 Women who is pregnant or breastfeeding	029.019	DX	ASPIRATION PNEUMONITIS DUE TO ANESTHESIA DURING PREGNANCY, UNSPECIFIED TRIMESTER	ICD-10-CM
19 Women who is pregnant or breastfeeding	029.02	DX	PRESSURE COLLAPSE OF LUNG DUE TO ANESTHESIA DURING PREGNANCY	ICD-10-CM
19 Women who is pregnant or breastfeeding	029.021	DX	PRESSURE COLLAPSE OF LUNG DUE TO ANESTHESIA DURING PREGNANCY, FIRST TRIMESTER	ICD-10-CM
19 Women who is pregnant or breastfeeding	029.022	DX	PRESSURE COLLAPSE OF LUNG DUE TO ANESTHESIA DURING PREGNANCY, SECOND TRIMESTER	ICD-10-CM
19 Women who is pregnant or breastfeeding	029.023	DX	PRESSURE COLLAPSE OF LUNG DUE TO ANESTHESIA DURING PREGNANCY, THIRD TRIMESTER	ICD-10-CM
19 Women who is pregnant or breastfeeding	029.029	DX	PRESSURE COLLAPSE OF LUNG DUE TO ANESTHESIA DURING PREGNANCY, UNSPECIFIED TRIMESTER	ICD-10-CM
19 Women who is pregnant or breastfeeding	029.09	DX	OTHER PULMONARY COMPLICATIONS OF ANESTHESIA DURING PREGNANCY	ICD-10-CM
19 Women who is pregnant or breastfeeding	029.091	DX	OTHER PULMONARY COMPLICATIONS OF ANESTHESIA DURING PREGNANCY, FIRST TRIMESTER	ICD-10-CM
19 Women who is pregnant or breastfeeding	029.092	DX	OTHER PULMONARY COMPLICATIONS OF ANESTHESIA DURING PREGNANCY, SECOND TRIMESTER	ICD-10-CM
19 Women who is pregnant or breastfeeding	029.093	DX	OTHER PULMONARY COMPLICATIONS OF ANESTHESIA DURING PREGNANCY, THIRD TRIMESTER	ICD-10-CM
19 Women who is pregnant or breastfeeding	029.099	DX	OTHER PULMONARY COMPLICATIONS OF ANESTHESIA DURING PREGNANCY, UNSPECIFIED TRIMESTER	ICD-10-CM
19 Women who is pregnant or breastfeeding	0291	DX	CARDIAC COMPLICATIONS OF ANESTHESIA DURING PREGNANCY	ICD-10-CM
19 Women who is pregnant or breastfeeding	02911	DX	CARDIAC ARREST DUE TO ANESTHESIA DURING PREGNANCY	ICD-10-CM
19 Women who is pregnant or breastfeeding	029111	DX	CARDIAC ARREST DUE TO ANESTHESIA DURING PREGNANCY, FIRST TRIMESTER	ICD-10-CM
19 Women who is pregnant or breastfeeding	029112	DX	CARDIAC ARREST DUE TO ANESTHESIA DURING PREGNANCY, SECOND TRIMESTER	ICD-10-CM
19 Women who is pregnant or breastfeeding	029113	DX	CARDIAC ARREST DUE TO ANESTHESIA DURING PREGNANCY, THIRD TRIMESTER	ICD-10-CM
19 Women who is pregnant or breastfeeding	029119	DX	CARDIAC ARREST DUE TO ANESTHESIA DURING PREGNANCY, UNSPECIFIED TRIMESTER	ICD-10-CM
19 Women who is pregnant or breastfeeding	02912	DX	CARDIAC FAILURE DUE TO ANESTHESIA DURING PREGNANCY	ICD-10-CM
19 Women who is pregnant or breastfeeding	029121	DX	CARDIAC FAILURE DUE TO ANESTHESIA DURING PREGNANCY, FIRST TRIMESTER	ICD-10-CM
19 Women who is pregnant or breastfeeding	029122	DX	CARDIAC FAILURE DUE TO ANESTHESIA DURING PREGNANCY, SECOND TRIMESTER	ICD-10-CM
19 Women who is pregnant or breastfeeding	029123	DX	CARDIAC FAILURE DUE TO ANESTHESIA DURING PREGNANCY, THIRD TRIMESTER	ICD-10-CM
19 Women who is pregnant or breastfeeding	029129	DX	CARDIAC FAILURE DUE TO ANESTHESIA DURING PREGNANCY, UNSPECIFIED TRIMESTER	ICD-10-CM

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19 Women who is pregnant or breastfeeding	043.119	DX	CIRCUMVALLATE PLACENTA, UNSPECIFIED TRIMESTER	ICD-10-CM
19 Women who is pregnant or breastfeeding	043.12	DX	VELAMENTOUS INSERTION OF UMBILICAL CORD	ICD-10-CM
19 Women who is pregnant or breastfeeding	043.121	DX	VELAMENTOUS INSERTION OF UMBILICAL CORD, FIRST TRIMESTER	ICD-10-CM
19 Women who is pregnant or breastfeeding	043.122	DX	VELAMENTOUS INSERTION OF UMBILICAL CORD, SECOND TRIMESTER	ICD-10-CM
19 Women who is pregnant or breastfeeding	043.123	DX	VELAMENTOUS INSERTION OF UMBILICAL CORD, THIRD TRIMESTER	ICD-10-CM
19 Women who is pregnant or breastfeeding	043.129	DX	VELAMENTOUS INSERTION OF UMBILICAL CORD, UNSPECIFIED TRIMESTER	ICD-10-CM
19 Women who is pregnant or breastfeeding	043.19	DX	OTHER MALFORMATION OF PLACENTA	ICD-10-CM
19 Women who is pregnant or breastfeeding	043.191	DX	OTHER MALFORMATION OF PLACENTA, FIRST TRIMESTER	ICD-10-CM
19 Women who is pregnant or breastfeeding	043.192	DX	OTHER MALFORMATION OF PLACENTA, SECOND TRIMESTER	ICD-10-CM
19 Women who is pregnant or breastfeeding	043.193	DX	OTHER MALFORMATION OF PLACENTA, THIRD TRIMESTER	ICD-10-CM
19 Women who is pregnant or breastfeeding	043.199	DX	OTHER MALFORMATION OF PLACENTA, UNSPECIFIED TRIMESTER	ICD-10-CM
19 Women who is pregnant or breastfeeding	043.2	DX	MORBIDLY ADHERENT PLACENTA	ICD-10-CM
19 Women who is pregnant or breastfeeding	043.21	DX	PLACENTA ACCRETA	ICD-10-CM
19 Women who is pregnant or breastfeeding	043.211	DX	PLACENTA ACCRETA, FIRST TRIMESTER	ICD-10-CM
19 Women who is pregnant or breastfeeding	043.212	DX	PLACENTA ACCRETA, SECOND TRIMESTER	ICD-10-CM
19 Women who is pregnant or breastfeeding	043.213	DX	PLACENTA ACCRETA, THIRD TRIMESTER	ICD-10-CM
19 Women who is pregnant or breastfeeding	043.219	DX	PLACENTA ACCRETA, UNSPECIFIED TRIMESTER	ICD-10-CM
19 Women who is pregnant or breastfeeding	043.22	DX	PLACENTA INCRETA	ICD-10-CM
19 Women who is pregnant or breastfeeding	043.221	DX	PLACENTA INCRETA, FIRST TRIMESTER	ICD-10-CM
19 Women who is pregnant or breastfeeding	043.222	DX	PLACENTA INCRETA, SECOND TRIMESTER	ICD-10-CM
19 Women who is pregnant or breastfeeding	043.223	DX	PLACENTA INCRETA, THIRD TRIMESTER	ICD-10-CM
19 Women who is pregnant or breastfeeding	043.229	DX	PLACENTA INCRETA, UNSPECIFIED TRIMESTER	ICD-10-CM
19 Women who is pregnant or breastfeeding	043.23	DX	PLACENTA PERCRETA	ICD-10-CM
19 Women who is pregnant or breastfeeding	043.231	DX	PLACENTA PERCRETA, FIRST TRIMESTER	ICD-10-CM
19 Women who is pregnant or breastfeeding	043.232	DX	PLACENTA PERCRETA, SECOND TRIMESTER	ICD-10-CM
19 Women who is pregnant or breastfeeding	043.233	DX	PLACENTA PERCRETA, THIRD TRIMESTER	ICD-10-CM
19 Women who is pregnant or breastfeeding	043.239	DX	PLACENTA PERCRETA, UNSPECIFIED TRIMESTER	ICD-10-CM
19 Women who is pregnant or breastfeeding	043.8	DX	OTHER PLACENTAL DISORDERS	ICD-10-CM
19 Women who is pregnant or breastfeeding	043.81	DX	PLACENTAL INFARCTION	ICD-10-CM
19 Women who is pregnant or breastfeeding	043.811	DX	PLACENTAL INFARCTION, FIRST TRIMESTER	ICD-10-CM
19 Women who is pregnant or breastfeeding	043.812	DX	PLACENTAL INFARCTION, SECOND TRIMESTER	ICD-10-CM
19 Women who is pregnant or breastfeeding	043.813	DX	PLACENTAL INFARCTION, THIRD TRIMESTER	ICD-10-CM
19 Women who is pregnant or breastfeeding	043.819	DX	PLACENTAL INFARCTION, UNSPECIFIED TRIMESTER	ICD-10-CM
19 Women who is pregnant or breastfeeding	043.89	DX	OTHER PLACENTAL DISORDERS	ICD-10-CM
19 Women who is pregnant or breastfeeding	043.891	DX	OTHER PLACENTAL DISORDERS, FIRST TRIMESTER	ICD-10-CM
19 Women who is pregnant or breastfeeding	043.892	DX	OTHER PLACENTAL DISORDERS, SECOND TRIMESTER	ICD-10-CM
19 Women who is pregnant or breastfeeding	043.893	DX	OTHER PLACENTAL DISORDERS, THIRD TRIMESTER	ICD-10-CM
19 Women who is pregnant or breastfeeding	043.899	DX	OTHER PLACENTAL DISORDERS, UNSPECIFIED TRIMESTER	ICD-10-CM
19 Women who is pregnant or breastfeeding	043.9	DX	UNSPECIFIED PLACENTAL DISORDER	ICD-10-CM
19 Women who is pregnant or breastfeeding	043.90	DX	UNSPECIFIED PLACENTAL DISORDER, UNSPECIFIED TRIMESTER	ICD-10-CM
19 Women who is pregnant or breastfeeding	043.91	DX	UNSPECIFIED PLACENTAL DISORDER, FIRST TRIMESTER	ICD-10-CM
19 Women who is pregnant or breastfeeding	043.92	DX	UNSPECIFIED PLACENTAL DISORDER, SECOND TRIMESTER	ICD-10-CM
19 Women who is pregnant or breastfeeding	043.93	DX	UNSPECIFIED PLACENTAL DISORDER, THIRD TRIMESTER	ICD-10-CM
19 Women who is pregnant or breastfeeding	044	DX	PLACENTA PREVIA	ICD-10-CM
19 Women who is pregnant or breastfeeding	044.0	DX	COMPLETE PLACENTA PREVIA NOS OR WITHOUT HEMORRHAGE	ICD-10-CM
19 Women who is pregnant or breastfeeding	044.00	DX	COMPLETE PLACENTA PREVIA NOS OR WITHOUT HEMORRHAGE, UNSPECIFIED TRIMESTER	ICD-10-CM
19 Women who is pregnant or breastfeeding	044.01	DX	COMPLETE PLACENTA PREVIA NOS OR WITHOUT HEMORRHAGE, FIRST TRIMESTER	ICD-10-CM
19 Women who is pregnant or breastfeeding	044.02	DX	COMPLETE PLACENTA PREVIA NOS OR WITHOUT HEMORRHAGE, SECOND TRIMESTER	ICD-10-CM
19 Women who is pregnant or breastfeeding	044.03	DX	COMPLETE PLACENTA PREVIA NOS OR WITHOUT HEMORRHAGE, THIRD TRIMESTER	ICD-10-CM
19 Women who is pregnant or breastfeeding	044.1	DX	COMPLETE PLACENTA PREVIA WITH HEMORRHAGE	ICD-10-CM
19 Women who is pregnant or breastfeeding	044.10	DX	COMPLETE PLACENTA PREVIA WITH HEMORRHAGE, UNSPECIFIED TRIMESTER	ICD-10-CM
19 Women who is pregnant or breastfeeding	044.11	DX	COMPLETE PLACENTA PREVIA WITH HEMORRHAGE, FIRST TRIMESTER	ICD-10-CM
19 Women who is pregnant or breastfeeding	044.12	DX	COMPLETE PLACENTA PREVIA WITH HEMORRHAGE, SECOND TRIMESTER	ICD-10-CM
19 Women who is pregnant or breastfeeding	044.13	DX	COMPLETE PLACENTA PREVIA WITH HEMORRHAGE, THIRD TRIMESTER	ICD-10-CM
19 Women who is pregnant or breastfeeding	044.2	DX	PARTIAL PLACENTA PREVIA WITHOUT HEMORRHAGE	ICD-10-CM
19 Women who is pregnant or breastfeeding	044.20	DX	PARTIAL PLACENTA PREVIA NOS OR WITHOUT HEMORRHAGE, UNSPECIFIED TRIMESTER	ICD-10-CM
19 Women who is pregnant or breastfeeding	044.21	DX	PARTIAL PLACENTA PREVIA NOS OR WITHOUT HEMORRHAGE, FIRST TRIMESTER	ICD-10-CM
19 Women who is pregnant or breastfeeding	044.22	DX	PARTIAL PLACENTA PREVIA NOS OR WITHOUT HEMORRHAGE, SECOND TRIMESTER	ICD-10-CM
19 Women who is pregnant or breastfeeding	044.23	DX	PARTIAL PLACENTA PREVIA NOS OR WITHOUT HEMORRHAGE, THIRD TRIMESTER	ICD-10-CM
19 Women who is pregnant or breastfeeding	044.3	DX	PARTIAL PLACENTA PREVIA WITH HEMORRHAGE	ICD-10-CM
19 Women who is pregnant or breastfeeding	044.30	DX	PARTIAL PLACENTA PREVIA WITH HEMORRHAGE, UNSPECIFIED TRIMESTER	ICD-10-CM
19 Women who is pregnant or breastfeeding	044.31	DX	PARTIAL PLACENTA PREVIA WITH HEMORRHAGE, FIRST TRIMESTER	ICD-10-CM
19 Women who is pregnant or breastfeeding	044.32	DX	PARTIAL PLACENTA PREVIA WITH HEMORRHAGE, SECOND TRIMESTER	ICD-10-CM
19 Women who is pregnant or breastfeeding	044.33	DX	PARTIAL PLACENTA PREVIA WITH HEMORRHAGE, THIRD TRIMESTER	ICD-10-CM
19 Women who is pregnant or breastfeeding	044.4	DX	LOW LYING PLACENTA NOS OR WITHOUT HEMORRHAGE	ICD-10-CM
19 Women who is pregnant or breastfeeding	044.40	DX	LOW LYING PLACENTA NOS OR WITHOUT HEMORRHAGE, UNSPECIFIED TRIMESTER	ICD-10-CM
19 Women who is pregnant or breastfeeding	044.41	DX	LOW LYING PLACENTA NOS OR WITHOUT HEMORRHAGE, FIRST TRIMESTER	ICD-10-CM
19 Women who is pregnant or breastfeeding	044.42	DX	LOW LYING PLACENTA NOS OR WITHOUT HEMORRHAGE, SECOND TRIMESTER	ICD-10-CM
19 Women who is pregnant or breastfeeding	044.43	DX	LOW LYING PLACENTA NOS OR WITHOUT HEMORRHAGE, THIRD TRIMESTER	ICD-10-CM
19 Women who is pregnant or breastfeeding	044.5	DX	LOW LYING PLACENTA WITH HEMORRHAGE	ICD-10-CM
19 Women who is pregnant or breastfeeding	044.50	DX	LOW LYING PLACENTA WITH HEMORRHAGE, UNSPECIFIED TRIMESTER	ICD-10-CM
19 Women who is pregnant or breastfeeding	044.51	DX	LOW LYING PLACENTA WITH HEMORRHAGE, FIRST TRIMESTER	ICD-10-CM
19 Women who is pregnant or breastfeeding	044.52	DX	LOW LYING PLACENTA WITH HEMORRHAGE, SECOND TRIMESTER	ICD-10-CM
19 Women who is pregnant or breastfeeding	044.53	DX	LOW LYING PLACENTA WITH HEMORRHAGE, THIRD TRIMESTER	ICD-10-CM
19 Women who is pregnant or breastfeeding	045	DX	PREMATURE SEPARATION OF PLACENTA [ABRUPTIO PLACENTAE]	ICD-10-CM
19 Women who is pregnant or breastfeeding	045.0	DX	PREMATURE SEPARATION OF PLACENTA WITH COAGULATION DEFECT	ICD-10-CM

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19 Women who is pregnant or breastfeeding	060.02	DX	PRETERM LABOR WITHOUT DELIVERY, SECOND TRIMESTER	ICD-10-CM
19 Women who is pregnant or breastfeeding	060.03	DX	PRETERM LABOR WITHOUT DELIVERY, THIRD TRIMESTER	ICD-10-CM
19 Women who is pregnant or breastfeeding	060.1	DX	PRETERM LABOR WITH PRETERM DELIVERY	ICD-10-CM
19 Women who is pregnant or breastfeeding	060.10	DX	PRETERM LABOR WITH PRETERM DELIVERY, UNSPECIFIED TRIMESTER	ICD-10-CM
19 Women who is pregnant or breastfeeding	060.10X	DX		ICD-10-CM
19 Women who is pregnant or breastfeeding	060.10X0	DX	PRETERM LABOR WITH PRETERM DELIVERY, UNSPECIFIED TRIMESTER, NOT APPLICABLE	ICD-10-CM
19 Women who is pregnant or breastfeeding	060.10X1	DX	PRETERM LABOR WITH PRETERM DELIVERY, UNSPECIFIED TRIMESTER, FETUS 1	ICD-10-CM
19 Women who is pregnant or breastfeeding	060.10X2	DX	PRETERM LABOR WITH PRETERM DELIVERY, UNSPECIFIED TRIMESTER, FETUS 2	ICD-10-CM
19 Women who is pregnant or breastfeeding	060.10X3	DX	PRETERM LABOR WITH PRETERM DELIVERY, UNSPECIFIED TRIMESTER, FETUS 3	ICD-10-CM
19 Women who is pregnant or breastfeeding	060.10X4	DX	PRETERM LABOR WITH PRETERM DELIVERY, UNSPECIFIED TRIMESTER, FETUS 4	ICD-10-CM
19 Women who is pregnant or breastfeeding	060.10X5	DX	PRETERM LABOR WITH PRETERM DELIVERY, UNSPECIFIED TRIMESTER, FETUS 5	ICD-10-CM
19 Women who is pregnant or breastfeeding	060.10X9	DX	PRETERM LABOR WITH PRETERM DELIVERY, UNSPECIFIED TRIMESTER, OTHER FETUS	ICD-10-CM
19 Women who is pregnant or breastfeeding	060.12	DX	PRETERM LABOR SECOND TRIMESTER WITH PRETERM DELIVERY SECOND TRIMESTER	ICD-10-CM
19 Women who is pregnant or breastfeeding	060.12X	DX		ICD-10-CM
19 Women who is pregnant or breastfeeding	060.12X0	DX	PRETERM LABOR SECOND TRIMESTER WITH PRETERM DELIVERY SECOND TRIMESTER, NOT	ICD-10-CM
19 Women who is pregnant or breastfeeding	060.12X1	DX	PRETERM LABOR SECOND TRIMESTER WITH PRETERM DELIVERY SECOND TRIMESTER, FETUS	ICD-10-CM
19 Women who is pregnant or breastfeeding	060.12X2	DX	PRETERM LABOR SECOND TRIMESTER WITH PRETERM DELIVERY SECOND TRIMESTER, FETUS	ICD-10-CM
19 Women who is pregnant or breastfeeding	060.12X3	DX	PRETERM LABOR SECOND TRIMESTER WITH PRETERM DELIVERY SECOND TRIMESTER, FETUS	ICD-10-CM
19 Women who is pregnant or breastfeeding	060.12X4	DX	PRETERM LABOR SECOND TRIMESTER WITH PRETERM DELIVERY SECOND TRIMESTER, FETUS	ICD-10-CM
19 Women who is pregnant or breastfeeding	060.12X5	DX	PRETERM LABOR SECOND TRIMESTER WITH PRETERM DELIVERY SECOND TRIMESTER, FETUS	ICD-10-CM
19 Women who is pregnant or breastfeeding	060.12X9	DX	PRETERM LABOR SECOND TRIMESTER WITH PRETERM DELIVERY SECOND TRIMESTER, OTHER	ICD-10-CM
19 Women who is pregnant or breastfeeding	060.13	DX	PRETERM LABOR SECOND TRIMESTER WITH PRETERM DELIVERY THIRD TRIMESTER	ICD-10-CM
19 Women who is pregnant or breastfeeding	060.13X	DX		ICD-10-CM
19 Women who is pregnant or breastfeeding	060.13X0	DX	PRETERM LABOR SECOND TRIMESTER WITH PRETERM DELIVERY THIRD TRIMESTER, NOT	ICD-10-CM
19 Women who is pregnant or breastfeeding	060.13X1	DX	PRETERM LABOR SECOND TRIMESTER WITH PRETERM DELIVERY THIRD TRIMESTER, FETUS	ICD-10-CM
19 Women who is pregnant or breastfeeding	060.13X2	DX	PRETERM LABOR SECOND TRIMESTER WITH PRETERM DELIVERY THIRD TRIMESTER, FETUS	ICD-10-CM
19 Women who is pregnant or breastfeeding	060.13X3	DX	PRETERM LABOR SECOND TRIMESTER WITH PRETERM DELIVERY THIRD TRIMESTER, FETUS	ICD-10-CM
19 Women who is pregnant or breastfeeding	060.13X4	DX	PRETERM LABOR SECOND TRIMESTER WITH PRETERM DELIVERY THIRD TRIMESTER, FETUS	ICD-10-CM
19 Women who is pregnant or breastfeeding	060.13X5	DX	PRETERM LABOR SECOND TRIMESTER WITH PRETERM DELIVERY THIRD TRIMESTER, FETUS	ICD-10-CM
19 Women who is pregnant or breastfeeding	060.13X9	DX	PRETERM LABOR SECOND TRIMESTER WITH PRETERM DELIVERY THIRD TRIMESTER, OTHER	ICD-10-CM
19 Women who is pregnant or breastfeeding	060.14	DX	PRETERM LABOR THIRD TRIMESTER WITH PRETERM DELIVERY THIRD TRIMESTER	ICD-10-CM
19 Women who is pregnant or breastfeeding	060.14X	DX		ICD-10-CM
19 Women who is pregnant or breastfeeding	060.14X0	DX	PRETERM LABOR THIRD TRIMESTER WITH PRETERM DELIVERY THIRD TRIMESTER, NOT	ICD-10-CM
19 Women who is pregnant or breastfeeding	060.14X1	DX	PRETERM LABOR THIRD TRIMESTER WITH PRETERM DELIVERY THIRD TRIMESTER, FETUS	ICD-10-CM
19 Women who is pregnant or breastfeeding	060.14X2	DX	PRETERM LABOR THIRD TRIMESTER WITH PRETERM DELIVERY THIRD TRIMESTER, FETUS	ICD-10-CM
19 Women who is pregnant or breastfeeding	060.14X3	DX	PRETERM LABOR THIRD TRIMESTER WITH PRETERM DELIVERY THIRD TRIMESTER, FETUS	ICD-10-CM
19 Women who is pregnant or breastfeeding	060.14X4	DX	PRETERM LABOR THIRD TRIMESTER WITH PRETERM DELIVERY THIRD TRIMESTER, FETUS	ICD-10-CM
19 Women who is pregnant or breastfeeding	060.14X5	DX	PRETERM LABOR THIRD TRIMESTER WITH PRETERM DELIVERY THIRD TRIMESTER, FETUS	ICD-10-CM
19 Women who is pregnant or breastfeeding	060.14X9	DX	PRETERM LABOR THIRD TRIMESTER WITH PRETERM DELIVERY THIRD TRIMESTER, OTHER	ICD-10-CM
19 Women who is pregnant or breastfeeding	061	DX	FAILED INDUCTION OF LABOR	ICD-10-CM
19 Women who is pregnant or breastfeeding	061.0	DX	FAILED MEDICAL INDUCTION OF LABOR	ICD-10-CM
19 Women who is pregnant or breastfeeding	061.1	DX	FAILED INSTRUMENTAL INDUCTION OF LABOR	ICD-10-CM
19 Women who is pregnant or breastfeeding	061.8	DX	OTHER FAILED INDUCTION OF LABOR	ICD-10-CM
19 Women who is pregnant or breastfeeding	061.9	DX	FAILED INDUCTION OF LABOR, UNSPECIFIED	ICD-10-CM
19 Women who is pregnant or breastfeeding	063.2	DX	DELAYED DELIVERY OF SECOND TWIN, TRIPLET, ETC.	ICD-10-CM
19 Women who is pregnant or breastfeeding	071.0	DX	RUPTURE OF UTERUS (SPONTANEOUS) BEFORE ONSET OF LABOR	ICD-10-CM
19 Women who is pregnant or breastfeeding	071.00	DX	RUPTURE OF UTERUS BEFORE ONSET OF LABOR, UNSPECIFIED TRIMESTER	ICD-10-CM
19 Women who is pregnant or breastfeeding	071.02	DX	RUPTURE OF UTERUS BEFORE ONSET OF LABOR, SECOND TRIMESTER	ICD-10-CM
19 Women who is pregnant or breastfeeding	071.03	DX	RUPTURE OF UTERUS BEFORE ONSET OF LABOR, THIRD TRIMESTER	ICD-10-CM
19 Women who is pregnant or breastfeeding	072	DX	POSTPARTUM HEMORRHAGE	ICD-10-CM
19 Women who is pregnant or breastfeeding	072.0	DX	THIRD-STAGE HEMORRHAGE	ICD-10-CM
19 Women who is pregnant or breastfeeding	072.1	DX	OTHER IMMEDIATE POSTPARTUM HEMORRHAGE	ICD-10-CM
19 Women who is pregnant or breastfeeding	072.2	DX	DELAYED AND SECONDARY POSTPARTUM HEMORRHAGE	ICD-10-CM
19 Women who is pregnant or breastfeeding	072.3	DX	POSTPARTUM COAGULATION DEFECTS	ICD-10-CM
19 Women who is pregnant or breastfeeding	073	DX	RETAINED PLACENTA AND MEMBRANES, WITHOUT HEMORRHAGE	ICD-10-CM
19 Women who is pregnant or breastfeeding	073.0	DX	RETAINED PLACENTA WITHOUT HEMORRHAGE	ICD-10-CM
19 Women who is pregnant or breastfeeding	073.1	DX	RETAINED PORTIONS OF PLACENTA AND MEMBRANES, WITHOUT HEMORRHAGE	ICD-10-CM
19 Women who is pregnant or breastfeeding	075	DX	OTHER COMPLICATIONS OF LABOR AND DELIVERY, NOT ELSEWHERE CLASSIFIED	ICD-10-CM
19 Women who is pregnant or breastfeeding	075.0	DX	MATERNAL DISTRESS DURING LABOR AND DELIVERY	ICD-10-CM
19 Women who is pregnant or breastfeeding	075.1	DX	SHOCK DURING OR FOLLOWING LABOR AND DELIVERY	ICD-10-CM
19 Women who is pregnant or breastfeeding	075.2	DX	PYREXIA DURING LABOR, NOT ELSEWHERE CLASSIFIED	ICD-10-CM
19 Women who is pregnant or breastfeeding	075.3	DX	OTHER INFECTION DURING LABOR	ICD-10-CM
19 Women who is pregnant or breastfeeding	075.4	DX	OTHER COMPLICATIONS OF OBSTETRIC SURGERY AND PROCEDURES	ICD-10-CM
19 Women who is pregnant or breastfeeding	075.5	DX	DELAYED DELIVERY AFTER ARTIFICIAL RUPTURE OF MEMBRANES	ICD-10-CM
19 Women who is pregnant or breastfeeding	075.8	DX	OTHER SPECIFIED COMPLICATIONS OF LABOR AND DELIVERY	ICD-10-CM
19 Women who is pregnant or breastfeeding	075.81	DX	MATERNAL EXHAUSTION COMPLICATING LABOR AND DELIVERY	ICD-10-CM
19 Women who is pregnant or breastfeeding	075.82	DX	ONSET (SPONTANEOUS) OF LABOR AFTER 37 COMPLETED WEEKS OF GESTATION BUT BEFORE	ICD-10-CM
19 Women who is pregnant or breastfeeding	075.89	DX	OTHER SPECIFIED COMPLICATIONS OF LABOR AND DELIVERY	ICD-10-CM
19 Women who is pregnant or breastfeeding	075.9	DX	COMPLICATION OF LABOR AND DELIVERY, UNSPECIFIED	ICD-10-CM
19 Women who is pregnant or breastfeeding	094	DX	SEQUELAE OF COMPLICATION OF PREGNANCY, CHILDBIRTH, AND THE PUERPERIUM	ICD-10-CM
19 Women who is pregnant or breastfeeding	098	DX	MATERNAL INFECTIOUS AND PARASITIC DISEASES CLASSIFIABLE ELSEWHERE BUT COMPLICATING	ICD-10-CM
19 Women who is pregnant or breastfeeding	098.0	DX	TUBERCULOSIS COMPLICATING PREGNANCY, CHILDBIRTH AND THE PUERPERIUM	ICD-10-CM
19 Women who is pregnant or breastfeeding	098.01	DX	TUBERCULOSIS COMPLICATING PREGNANCY	ICD-10-CM
19 Women who is pregnant or breastfeeding	098.011	DX	TUBERCULOSIS COMPLICATING PREGNANCY, FIRST TRIMESTER	ICD-10-CM
19 Women who is pregnant or breastfeeding	098.012	DX	TUBERCULOSIS COMPLICATING PREGNANCY, SECOND TRIMESTER	ICD-10-CM
19 Women who is pregnant or breastfeeding	098.013	DX	TUBERCULOSIS COMPLICATING PREGNANCY, THIRD TRIMESTER	ICD-10-CM

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19 Women who is pregnant or breastfeeding	099.0	DX	ANEMIA COMPLICATING PREGNANCY, CHILDBIRTH AND THE PUERPERIUM	ICD-10-CM
19 Women who is pregnant or breastfeeding	099.01	DX	ANEMIA COMPLICATING PREGNANCY	ICD-10-CM
19 Women who is pregnant or breastfeeding	099.011	DX	ANEMIA COMPLICATING PREGNANCY, FIRST TRIMESTER	ICD-10-CM
19 Women who is pregnant or breastfeeding	099.012	DX	ANEMIA COMPLICATING PREGNANCY, SECOND TRIMESTER	ICD-10-CM
19 Women who is pregnant or breastfeeding	099.013	DX	ANEMIA COMPLICATING PREGNANCY, THIRD TRIMESTER	ICD-10-CM
19 Women who is pregnant or breastfeeding	099.019	DX	ANEMIA COMPLICATING PREGNANCY, UNSPECIFIED TRIMESTER	ICD-10-CM
19 Women who is pregnant or breastfeeding	099.02	DX	ANEMIA COMPLICATING CHILDBIRTH	ICD-10-CM
19 Women who is pregnant or breastfeeding	099.03	DX	ANEMIA COMPLICATING THE PUERPERIUM	ICD-10-CM
19 Women who is pregnant or breastfeeding	0991	DX	OTHER DISEASES OF THE BLOOD AND BLOOD-FORMING ORGANS AND CERTAIN DISORDER	ICD-10-CM
19 Women who is pregnant or breastfeeding	099.11	DX	OTHER DISEASES OF THE BLOOD AND BLOOD-FORMING ORGANS AND CERTAIN DISORDER	ICD-10-CM
19 Women who is pregnant or breastfeeding	099.111	DX	OTHER DISEASES OF THE BLOOD AND BLOOD-FORMING ORGANS AND CERTAIN DISORDER	ICD-10-CM
19 Women who is pregnant or breastfeeding	099.112	DX	OTHER DISEASES OF THE BLOOD AND BLOOD-FORMING ORGANS AND CERTAIN DISORDER	ICD-10-CM
19 Women who is pregnant or breastfeeding	099.113	DX	OTHER DISEASES OF THE BLOOD AND BLOOD-FORMING ORGANS AND CERTAIN DISORDER	ICD-10-CM
19 Women who is pregnant or breastfeeding	099.119	DX	OTHER DISEASES OF THE BLOOD AND BLOOD-FORMING ORGANS AND CERTAIN DISORDER	ICD-10-CM
19 Women who is pregnant or breastfeeding	099.12	DX	OTHER DISEASES OF THE BLOOD AND BLOOD-FORMING ORGANS AND CERTAIN DISORDER	ICD-10-CM
19 Women who is pregnant or breastfeeding	099.13	DX	OTHER DISEASES OF THE BLOOD AND BLOOD-FORMING ORGANS AND CERTAIN DISORDER	ICD-10-CM
19 Women who is pregnant or breastfeeding	099.2	DX	ENDOCRINE, NUTRITIONAL AND METABOLIC DISEASES COMPLICATING PREGNANCY, CHIL	ICD-10-CM
19 Women who is pregnant or breastfeeding	099.21	DX	OBESEITY COMPLICATING PREGNANCY, CHILDBIRTH, AND THE PUERPERIUM	ICD-10-CM
19 Women who is pregnant or breastfeeding	099.210	DX	OBESEITY COMPLICATING PREGNANCY, UNSPECIFIED TRIMESTER	ICD-10-CM
19 Women who is pregnant or breastfeeding	099.211	DX	OBESEITY COMPLICATING PREGNANCY, FIRST TRIMESTER	ICD-10-CM
19 Women who is pregnant or breastfeeding	099.212	DX	OBESEITY COMPLICATING PREGNANCY, SECOND TRIMESTER	ICD-10-CM
19 Women who is pregnant or breastfeeding	099.213	DX	OBESEITY COMPLICATING PREGNANCY, THIRD TRIMESTER	ICD-10-CM
19 Women who is pregnant or breastfeeding	099.214	DX	OBESEITY COMPLICATING CHILDBIRTH	ICD-10-CM
19 Women who is pregnant or breastfeeding	099.215	DX	OBESEITY COMPLICATING THE PUERPERIUM	ICD-10-CM
19 Women who is pregnant or breastfeeding	099.28	DX	OTHER ENDOCRINE, NUTRITIONAL AND METABOLIC DISEASES COMPLICATING PREGNANC	ICD-10-CM
19 Women who is pregnant or breastfeeding	099.280	DX	ENDOCRINE, NUTRITIONAL AND METABOLIC DISEASES COMPLICATING PREGNANCY, UNSI	ICD-10-CM
19 Women who is pregnant or breastfeeding	099.281	DX	ENDOCRINE, NUTRITIONAL AND METABOLIC DISEASES COMPLICATING PREGNANCY, FIRS	ICD-10-CM
19 Women who is pregnant or breastfeeding	099.282	DX	ENDOCRINE, NUTRITIONAL AND METABOLIC DISEASES COMPLICATING PREGNANCY, SECI	ICD-10-CM
19 Women who is pregnant or breastfeeding	099.283	DX	ENDOCRINE, NUTRITIONAL AND METABOLIC DISEASES COMPLICATING PREGNANCY, THIR	ICD-10-CM
19 Women who is pregnant or breastfeeding	099.284	DX	ENDOCRINE, NUTRITIONAL AND METABOLIC DISEASES COMPLICATING CHILDBIRTH	ICD-10-CM
19 Women who is pregnant or breastfeeding	099.285	DX	ENDOCRINE, NUTRITIONAL AND METABOLIC DISEASES COMPLICATING THE PUERPERIUM	ICD-10-CM
19 Women who is pregnant or breastfeeding	099.3	DX	MENTAL DISORDERS AND DISEASES OF THE NERVOUS SYSTEM COMPLICATING PREGNAN	ICD-10-CM
19 Women who is pregnant or breastfeeding	099.31	DX	ALCOHOL USE COMPLICATING PREGNANCY, CHILDBIRTH, AND THE PUERPERIUM	ICD-10-CM
19 Women who is pregnant or breastfeeding	099.310	DX	ALCOHOL USE COMPLICATING PREGNANCY, UNSPECIFIED TRIMESTER	ICD-10-CM
19 Women who is pregnant or breastfeeding	099.311	DX	ALCOHOL USE COMPLICATING PREGNANCY, FIRST TRIMESTER	ICD-10-CM
19 Women who is pregnant or breastfeeding	099.312	DX	ALCOHOL USE COMPLICATING PREGNANCY, SECOND TRIMESTER	ICD-10-CM
19 Women who is pregnant or breastfeeding	099.313	DX	ALCOHOL USE COMPLICATING PREGNANCY, THIRD TRIMESTER	ICD-10-CM
19 Women who is pregnant or breastfeeding	099.314	DX	ALCOHOL USE COMPLICATING CHILDBIRTH	ICD-10-CM
19 Women who is pregnant or breastfeeding	099.315	DX	ALCOHOL USE COMPLICATING THE PUERPERIUM	ICD-10-CM
19 Women who is pregnant or breastfeeding	099.32	DX	DRUG USE COMPLICATING PREGNANCY, CHILDBIRTH, AND THE PUERPERIUM	ICD-10-CM
19 Women who is pregnant or breastfeeding	099.320	DX	DRUG USE COMPLICATING PREGNANCY, UNSPECIFIED TRIMESTER	ICD-10-CM
19 Women who is pregnant or breastfeeding	099.321	DX	DRUG USE COMPLICATING PREGNANCY, FIRST TRIMESTER	ICD-10-CM
19 Women who is pregnant or breastfeeding	099.322	DX	DRUG USE COMPLICATING PREGNANCY, SECOND TRIMESTER	ICD-10-CM
19 Women who is pregnant or breastfeeding	099.323	DX	DRUG USE COMPLICATING PREGNANCY, THIRD TRIMESTER	ICD-10-CM
19 Women who is pregnant or breastfeeding	099.324	DX	DRUG USE COMPLICATING CHILDBIRTH	ICD-10-CM
19 Women who is pregnant or breastfeeding	099.325	DX	DRUG USE COMPLICATING THE PUERPERIUM	ICD-10-CM
19 Women who is pregnant or breastfeeding	099.33	DX	TOBACCO USE DISORDER COMPLICATING PREGNANCY, CHILDBIRTH, AND THE PUERPERI	ICD-10-CM
19 Women who is pregnant or breastfeeding	099.330	DX	SMOKING (TOBACCO) COMPLICATING PREGNANCY, UNSPECIFIED TRIMESTER	ICD-10-CM
19 Women who is pregnant or breastfeeding	099.331	DX	SMOKING (TOBACCO) COMPLICATING PREGNANCY, FIRST TRIMESTER	ICD-10-CM
19 Women who is pregnant or breastfeeding	099.332	DX	SMOKING (TOBACCO) COMPLICATING PREGNANCY, SECOND TRIMESTER	ICD-10-CM
19 Women who is pregnant or breastfeeding	099.333	DX	SMOKING (TOBACCO) COMPLICATING PREGNANCY, THIRD TRIMESTER	ICD-10-CM
19 Women who is pregnant or breastfeeding	099.334	DX	SMOKING (TOBACCO) COMPLICATING CHILDBIRTH	ICD-10-CM
19 Women who is pregnant or breastfeeding	099.335	DX	SMOKING (TOBACCO) COMPLICATING THE PUERPERIUM	ICD-10-CM
19 Women who is pregnant or breastfeeding	099.34	DX	OTHER MENTAL DISORDERS COMPLICATING PREGNANCY, CHILDBIRTH, AND THE PUERPE	ICD-10-CM
19 Women who is pregnant or breastfeeding	099.340	DX	OTHER MENTAL DISORDERS COMPLICATING PREGNANCY, UNSPECIFIED TRIMESTER	ICD-10-CM
19 Women who is pregnant or breastfeeding	099.341	DX	OTHER MENTAL DISORDERS COMPLICATING PREGNANCY, FIRST TRIMESTER	ICD-10-CM
19 Women who is pregnant or breastfeeding	099.342	DX	OTHER MENTAL DISORDERS COMPLICATING PREGNANCY, SECOND TRIMESTER	ICD-10-CM
19 Women who is pregnant or breastfeeding	099.343	DX	OTHER MENTAL DISORDERS COMPLICATING PREGNANCY, THIRD TRIMESTER	ICD-10-CM
19 Women who is pregnant or breastfeeding	099.344	DX	OTHER MENTAL DISORDERS COMPLICATING CHILDBIRTH	ICD-10-CM
19 Women who is pregnant or breastfeeding	099.345	DX	OTHER MENTAL DISORDERS COMPLICATING THE PUERPERIUM	ICD-10-CM
19 Women who is pregnant or breastfeeding	099.35	DX	DISEASES OF THE NERVOUS SYSTEM COMPLICATING PREGNANCY, CHILDBIRTH, AND THE	ICD-10-CM
19 Women who is pregnant or breastfeeding	099.350	DX	DISEASES OF THE NERVOUS SYSTEM COMPLICATING PREGNANCY, UNSPECIFIED TRIMES	ICD-10-CM
19 Women who is pregnant or breastfeeding	099.351	DX	DISEASES OF THE NERVOUS SYSTEM COMPLICATING PREGNANCY, FIRST TRIMESTER	ICD-10-CM
19 Women who is pregnant or breastfeeding	099.352	DX	DISEASES OF THE NERVOUS SYSTEM COMPLICATING PREGNANCY, SECOND TRIMESTER	ICD-10-CM
19 Women who is pregnant or breastfeeding	099.353	DX	DISEASES OF THE NERVOUS SYSTEM COMPLICATING PREGNANCY, THIRD TRIMESTER	ICD-10-CM
19 Women who is pregnant or breastfeeding	099.354	DX	DISEASES OF THE NERVOUS SYSTEM COMPLICATING CHILDBIRTH	ICD-10-CM
19 Women who is pregnant or breastfeeding	099.355	DX	DISEASES OF THE NERVOUS SYSTEM COMPLICATING THE PUERPERIUM	ICD-10-CM
19 Women who is pregnant or breastfeeding	099.4	DX	DISEASES OF THE CIRCULATORY SYSTEM COMPLICATING PREGNANCY, CHILDBIRTH AND	ICD-10-CM
19 Women who is pregnant or breastfeeding	099.41	DX	DISEASES OF THE CIRCULATORY SYSTEM COMPLICATING PREGNANCY	ICD-10-CM
19 Women who is pregnant or breastfeeding	099.411	DX	DISEASES OF THE CIRCULATORY SYSTEM COMPLICATING PREGNANCY, FIRST TRIMESTER	ICD-10-CM
19 Women who is pregnant or breastfeeding	099.412	DX	DISEASES OF THE CIRCULATORY SYSTEM COMPLICATING PREGNANCY, SECOND TRIMESTER	ICD-10-CM
19 Women who is pregnant or breastfeeding	099.413	DX	DISEASES OF THE CIRCULATORY SYSTEM COMPLICATING PREGNANCY, THIRD TRIMESTER	ICD-10-CM
19 Women who is pregnant or breastfeeding	099.419	DX	DISEASES OF THE CIRCULATORY SYSTEM COMPLICATING PREGNANCY, UNSPECIFIED TRI	ICD-10-CM
19 Women who is pregnant or breastfeeding	099.42	DX	DISEASES OF THE CIRCULATORY SYSTEM COMPLICATING CHILDBIRTH	ICD-10-CM
19 Women who is pregnant or breastfeeding	099.43	DX	DISEASES OF THE CIRCULATORY SYSTEM COMPLICATING THE PUERPERIUM	ICD-10-CM
19 Women who is pregnant or breastfeeding	099.5	DX	DISEASES OF THE RESPIRATORY SYSTEM COMPLICATING PREGNANCY, CHILDBIRTH AND	ICD-10-CM

19 Women who is pregnant or breastfeeding	099.51	DX	DISEASES OF THE RESPIRATORY SYSTEM COMPLICATING PREGNANCY	ICD-10-CM
19 Women who is pregnant or breastfeeding	099.511	DX	DISEASES OF THE RESPIRATORY SYSTEM COMPLICATING PREGNANCY, FIRST TRIMESTER	ICD-10-CM
19 Women who is pregnant or breastfeeding	099.512	DX	DISEASES OF THE RESPIRATORY SYSTEM COMPLICATING PREGNANCY, SECOND TRIMESTER	ICD-10-CM
19 Women who is pregnant or breastfeeding	099.513	DX	DISEASES OF THE RESPIRATORY SYSTEM COMPLICATING PREGNANCY, THIRD TRIMESTER	ICD-10-CM
19 Women who is pregnant or breastfeeding	099.519	DX	DISEASES OF THE RESPIRATORY SYSTEM COMPLICATING PREGNANCY, UNSPECIFIED TRIMESTER	ICD-10-CM
19 Women who is pregnant or breastfeeding	099.52	DX	DISEASES OF THE RESPIRATORY SYSTEM COMPLICATING CHILDBIRTH	ICD-10-CM
19 Women who is pregnant or breastfeeding	099.53	DX	DISEASES OF THE RESPIRATORY SYSTEM COMPLICATING THE PUERPERIUM	ICD-10-CM
19 Women who is pregnant or breastfeeding	099.6	DX	DISEASES OF THE DIGESTIVE SYSTEM COMPLICATING PREGNANCY, CHILDBIRTH AND THE PUERPERIUM	ICD-10-CM
19 Women who is pregnant or breastfeeding	099.61	DX	DISEASES OF THE DIGESTIVE SYSTEM COMPLICATING PREGNANCY	ICD-10-CM
19 Women who is pregnant or breastfeeding	099.611	DX	DISEASES OF THE DIGESTIVE SYSTEM COMPLICATING PREGNANCY, FIRST TRIMESTER	ICD-10-CM
19 Women who is pregnant or breastfeeding	099.612	DX	DISEASES OF THE DIGESTIVE SYSTEM COMPLICATING PREGNANCY, SECOND TRIMESTER	ICD-10-CM
19 Women who is pregnant or breastfeeding	099.613	DX	DISEASES OF THE DIGESTIVE SYSTEM COMPLICATING PREGNANCY, THIRD TRIMESTER	ICD-10-CM
19 Women who is pregnant or breastfeeding	099.619	DX	DISEASES OF THE DIGESTIVE SYSTEM COMPLICATING PREGNANCY, UNSPECIFIED TRIMESTER	ICD-10-CM
19 Women who is pregnant or breastfeeding	099.62	DX	DISEASES OF THE DIGESTIVE SYSTEM COMPLICATING CHILDBIRTH	ICD-10-CM
19 Women who is pregnant or breastfeeding	099.63	DX	DISEASES OF THE DIGESTIVE SYSTEM COMPLICATING THE PUERPERIUM	ICD-10-CM
19 Women who is pregnant or breastfeeding	099.7	DX	DISEASES OF THE SKIN AND SUBCUTANEOUS TISSUE COMPLICATING PREGNANCY, CHILDBIRTH AND THE PUERPERIUM	ICD-10-CM
19 Women who is pregnant or breastfeeding	099.71	DX	DISEASES OF THE SKIN AND SUBCUTANEOUS TISSUE COMPLICATING PREGNANCY	ICD-10-CM
19 Women who is pregnant or breastfeeding	099.711	DX	DISEASES OF THE SKIN AND SUBCUTANEOUS TISSUE COMPLICATING PREGNANCY, FIRST TRIMESTER	ICD-10-CM
19 Women who is pregnant or breastfeeding	099.712	DX	DISEASES OF THE SKIN AND SUBCUTANEOUS TISSUE COMPLICATING PREGNANCY, SECOND TRIMESTER	ICD-10-CM
19 Women who is pregnant or breastfeeding	099.713	DX	DISEASES OF THE SKIN AND SUBCUTANEOUS TISSUE COMPLICATING PREGNANCY, THIRD TRIMESTER	ICD-10-CM
19 Women who is pregnant or breastfeeding	099.719	DX	DISEASES OF THE SKIN AND SUBCUTANEOUS TISSUE COMPLICATING PREGNANCY, UNSPECIFIED TRIMESTER	ICD-10-CM
19 Women who is pregnant or breastfeeding	099.72	DX	DISEASES OF THE SKIN AND SUBCUTANEOUS TISSUE COMPLICATING CHILDBIRTH	ICD-10-CM
19 Women who is pregnant or breastfeeding	099.73	DX	DISEASES OF THE SKIN AND SUBCUTANEOUS TISSUE COMPLICATING THE PUERPERIUM	ICD-10-CM
19 Women who is pregnant or breastfeeding	099.8	DX	OTHER SPECIFIED DISEASES AND CONDITIONS COMPLICATING PREGNANCY, CHILDBIRTH AND THE PUERPERIUM	ICD-10-CM
19 Women who is pregnant or breastfeeding	099.81	DX	ABNORMAL GLUCOSE COMPLICATING PREGNANCY, CHILDBIRTH AND THE PUERPERIUM	ICD-10-CM
19 Women who is pregnant or breastfeeding	099.810	DX	ABNORMAL GLUCOSE COMPLICATING PREGNANCY	ICD-10-CM
19 Women who is pregnant or breastfeeding	099.814	DX	ABNORMAL GLUCOSE COMPLICATING CHILDBIRTH	ICD-10-CM
19 Women who is pregnant or breastfeeding	099.815	DX	ABNORMAL GLUCOSE COMPLICATING THE PUERPERIUM	ICD-10-CM
19 Women who is pregnant or breastfeeding	099.82	DX	STREPTOCOCCUS B CARRIER STATE COMPLICATING PREGNANCY, CHILDBIRTH AND THE PUERPERIUM	ICD-10-CM
19 Women who is pregnant or breastfeeding	099.820	DX	STREPTOCOCCUS B CARRIER STATE COMPLICATING PREGNANCY	ICD-10-CM
19 Women who is pregnant or breastfeeding	099.824	DX	STREPTOCOCCUS B CARRIER STATE COMPLICATING CHILDBIRTH	ICD-10-CM
19 Women who is pregnant or breastfeeding	099.825	DX	STREPTOCOCCUS B CARRIER STATE COMPLICATING THE PUERPERIUM	ICD-10-CM
19 Women who is pregnant or breastfeeding	099.83	DX	OTHER INFECTION CARRIER STATE COMPLICATING PREGNANCY, CHILDBIRTH AND THE PUERPERIUM	ICD-10-CM
19 Women who is pregnant or breastfeeding	099.830	DX	OTHER INFECTION CARRIER STATE COMPLICATING PREGNANCY	ICD-10-CM
19 Women who is pregnant or breastfeeding	099.834	DX	OTHER INFECTION CARRIER STATE COMPLICATING CHILDBIRTH	ICD-10-CM
19 Women who is pregnant or breastfeeding	099.835	DX	OTHER INFECTION CARRIER STATE COMPLICATING THE PUERPERIUM	ICD-10-CM
19 Women who is pregnant or breastfeeding	099.84	DX	BARIATRIC SURGERY STATUS COMPLICATING PREGNANCY, CHILDBIRTH AND THE PUERPERIUM	ICD-10-CM
19 Women who is pregnant or breastfeeding	099.840	DX	BARIATRIC SURGERY STATUS COMPLICATING PREGNANCY, UNSPECIFIED TRIMESTER	ICD-10-CM
19 Women who is pregnant or breastfeeding	099.841	DX	BARIATRIC SURGERY STATUS COMPLICATING PREGNANCY, FIRST TRIMESTER	ICD-10-CM
19 Women who is pregnant or breastfeeding	099.842	DX	BARIATRIC SURGERY STATUS COMPLICATING PREGNANCY, SECOND TRIMESTER	ICD-10-CM
19 Women who is pregnant or breastfeeding	099.843	DX	BARIATRIC SURGERY STATUS COMPLICATING PREGNANCY, THIRD TRIMESTER	ICD-10-CM
19 Women who is pregnant or breastfeeding	099.844	DX	BARIATRIC SURGERY STATUS COMPLICATING CHILDBIRTH	ICD-10-CM
19 Women who is pregnant or breastfeeding	099.845	DX	BARIATRIC SURGERY STATUS COMPLICATING THE PUERPERIUM	ICD-10-CM
19 Women who is pregnant or breastfeeding	099.89	DX	OTHER SPECIFIED DISEASES AND CONDITIONS COMPLICATING PREGNANCY, CHILDBIRTH AND THE PUERPERIUM	ICD-10-CM
19 Women who is pregnant or breastfeeding	09A	DX	MATERNAL MALIGNANT NEOPLASMS, TRAUMATIC INJURIES AND ABUSE CLASSIFIABLE BY ICD-10-CM	ICD-10-CM
19 Women who is pregnant or breastfeeding	09A.1	DX	MALIGNANT NEOPLASM COMPLICATING PREGNANCY, CHILDBIRTH AND THE PUERPERIUM	ICD-10-CM
19 Women who is pregnant or breastfeeding	09A.11	DX	MALIGNANT NEOPLASM COMPLICATING PREGNANCY	ICD-10-CM
19 Women who is pregnant or breastfeeding	09A.111	DX	MALIGNANT NEOPLASM COMPLICATING PREGNANCY, FIRST TRIMESTER	ICD-10-CM
19 Women who is pregnant or breastfeeding	09A.112	DX	MALIGNANT NEOPLASM COMPLICATING PREGNANCY, SECOND TRIMESTER	ICD-10-CM
19 Women who is pregnant or breastfeeding	09A.113	DX	MALIGNANT NEOPLASM COMPLICATING PREGNANCY, THIRD TRIMESTER	ICD-10-CM
19 Women who is pregnant or breastfeeding	09A.119	DX	MALIGNANT NEOPLASM COMPLICATING PREGNANCY, UNSPECIFIED TRIMESTER	ICD-10-CM
19 Women who is pregnant or breastfeeding	09A.12	DX	MALIGNANT NEOPLASM COMPLICATING CHILDBIRTH	ICD-10-CM
19 Women who is pregnant or breastfeeding	09A.13	DX	MALIGNANT NEOPLASM COMPLICATING THE PUERPERIUM	ICD-10-CM
19 Women who is pregnant or breastfeeding	09A.2	DX	INJURY, POISONING AND CERTAIN OTHER CONSEQUENCES OF EXTERNAL CAUSES COMPLICATING PREGNANCY, CHILDBIRTH AND THE PUERPERIUM	ICD-10-CM
19 Women who is pregnant or breastfeeding	09A.21	DX	INJURY, POISONING AND CERTAIN OTHER CONSEQUENCES OF EXTERNAL CAUSES COMPLICATING PREGNANCY	ICD-10-CM
19 Women who is pregnant or breastfeeding	09A.211	DX	INJURY, POISONING AND CERTAIN OTHER CONSEQUENCES OF EXTERNAL CAUSES COMPLICATING PREGNANCY, FIRST TRIMESTER	ICD-10-CM
19 Women who is pregnant or breastfeeding	09A.212	DX	INJURY, POISONING AND CERTAIN OTHER CONSEQUENCES OF EXTERNAL CAUSES COMPLICATING PREGNANCY, SECOND TRIMESTER	ICD-10-CM
19 Women who is pregnant or breastfeeding	09A.213	DX	INJURY, POISONING AND CERTAIN OTHER CONSEQUENCES OF EXTERNAL CAUSES COMPLICATING PREGNANCY, THIRD TRIMESTER	ICD-10-CM
19 Women who is pregnant or breastfeeding	09A.219	DX	INJURY, POISONING AND CERTAIN OTHER CONSEQUENCES OF EXTERNAL CAUSES COMPLICATING PREGNANCY, UNSPECIFIED TRIMESTER	ICD-10-CM
19 Women who is pregnant or breastfeeding	09A.22	DX	INJURY, POISONING AND CERTAIN OTHER CONSEQUENCES OF EXTERNAL CAUSES COMPLICATING CHILDBIRTH	ICD-10-CM
19 Women who is pregnant or breastfeeding	09A.23	DX	INJURY, POISONING AND CERTAIN OTHER CONSEQUENCES OF EXTERNAL CAUSES COMPLICATING THE PUERPERIUM	ICD-10-CM
19 Women who is pregnant or breastfeeding	09A.3	DX	PHYSICAL ABUSE COMPLICATING PREGNANCY, CHILDBIRTH AND THE PUERPERIUM	ICD-10-CM
19 Women who is pregnant or breastfeeding	09A.31	DX	PHYSICAL ABUSE COMPLICATING PREGNANCY	ICD-10-CM
19 Women who is pregnant or breastfeeding	09A.311	DX	PHYSICAL ABUSE COMPLICATING PREGNANCY, FIRST TRIMESTER	ICD-10-CM
19 Women who is pregnant or breastfeeding	09A.312	DX	PHYSICAL ABUSE COMPLICATING PREGNANCY, SECOND TRIMESTER	ICD-10-CM
19 Women who is pregnant or breastfeeding	09A.313	DX	PHYSICAL ABUSE COMPLICATING PREGNANCY, THIRD TRIMESTER	ICD-10-CM
19 Women who is pregnant or breastfeeding	09A.319	DX	PHYSICAL ABUSE COMPLICATING PREGNANCY, UNSPECIFIED TRIMESTER	ICD-10-CM
19 Women who is pregnant or breastfeeding	09A.32	DX	PHYSICAL ABUSE COMPLICATING CHILDBIRTH	ICD-10-CM
19 Women who is pregnant or breastfeeding	09A.33	DX	PHYSICAL ABUSE COMPLICATING THE PUERPERIUM	ICD-10-CM
19 Women who is pregnant or breastfeeding	09A.4	DX	SEXUAL ABUSE COMPLICATING PREGNANCY, CHILDBIRTH AND THE PUERPERIUM	ICD-10-CM
19 Women who is pregnant or breastfeeding	09A.41	DX	SEXUAL ABUSE COMPLICATING PREGNANCY	ICD-10-CM
19 Women who is pregnant or breastfeeding	09A.411	DX	SEXUAL ABUSE COMPLICATING PREGNANCY, FIRST TRIMESTER	ICD-10-CM
19 Women who is pregnant or breastfeeding	09A.412	DX	SEXUAL ABUSE COMPLICATING PREGNANCY, SECOND TRIMESTER	ICD-10-CM
19 Women who is pregnant or breastfeeding	09A.413	DX	SEXUAL ABUSE COMPLICATING PREGNANCY, THIRD TRIMESTER	ICD-10-CM
19 Women who is pregnant or breastfeeding	09A.419	DX	SEXUAL ABUSE COMPLICATING PREGNANCY, UNSPECIFIED TRIMESTER	ICD-10-CM
19 Women who is pregnant or breastfeeding	09A.42	DX	SEXUAL ABUSE COMPLICATING CHILDBIRTH	ICD-10-CM

19 Women who is pregnant or breastfeeding	09A.43	DX	SEXUAL ABUSE COMPLICATING THE PUERPERIUM	ICD-10-CM
19 Women who is pregnant or breastfeeding	09A.5	DX	PSYCHOLOGICAL ABUSE COMPLICATING PREGNANCY, CHILDBIRTH AND THE PUERPERIUM	ICD-10-CM
19 Women who is pregnant or breastfeeding	09A.51	DX	PSYCHOLOGICAL ABUSE COMPLICATING PREGNANCY	ICD-10-CM
19 Women who is pregnant or breastfeeding	09A.511	DX	PSYCHOLOGICAL ABUSE COMPLICATING PREGNANCY, FIRST TRIMESTER	ICD-10-CM
19 Women who is pregnant or breastfeeding	09A.512	DX	PSYCHOLOGICAL ABUSE COMPLICATING PREGNANCY, SECOND TRIMESTER	ICD-10-CM
19 Women who is pregnant or breastfeeding	09A.513	DX	PSYCHOLOGICAL ABUSE COMPLICATING PREGNANCY, THIRD TRIMESTER	ICD-10-CM
19 Women who is pregnant or breastfeeding	09A.519	DX	PSYCHOLOGICAL ABUSE COMPLICATING PREGNANCY, UNSPECIFIED TRIMESTER	ICD-10-CM
19 Women who is pregnant or breastfeeding	09A.52	DX	PSYCHOLOGICAL ABUSE COMPLICATING CHILDBIRTH	ICD-10-CM
19 Women who is pregnant or breastfeeding	09A.53	DX	PSYCHOLOGICAL ABUSE COMPLICATING THE PUERPERIUM	ICD-10-CM
19 Women who is pregnant or breastfeeding	P01.5	DX	NEWBORN AFFECTED BY MULTIPLE PREGNANCY	ICD-10-CM
19 Women who is pregnant or breastfeeding	P05.01	DX	NEWBORN LIGHT FOR GESTATIONAL AGE, LESS THAN 500 GRAMS	ICD-10-CM
19 Women who is pregnant or breastfeeding	P05.02	DX	NEWBORN LIGHT FOR GESTATIONAL AGE, 500-749 GRAMS	ICD-10-CM
19 Women who is pregnant or breastfeeding	P05.03	DX	NEWBORN LIGHT FOR GESTATIONAL AGE, 750-999 GRAMS	ICD-10-CM
19 Women who is pregnant or breastfeeding	P05.04	DX	NEWBORN LIGHT FOR GESTATIONAL AGE, 1000-1249 GRAMS	ICD-10-CM
19 Women who is pregnant or breastfeeding	P05.05	DX	NEWBORN LIGHT FOR GESTATIONAL AGE, 1250-1499 GRAMS	ICD-10-CM
19 Women who is pregnant or breastfeeding	P05.06	DX	NEWBORN LIGHT FOR GESTATIONAL AGE, 1500-1749 GRAMS	ICD-10-CM
19 Women who is pregnant or breastfeeding	P05.11	DX	NEWBORN SMALL FOR GESTATIONAL AGE, LESS THAN 500 GRAMS	ICD-10-CM
19 Women who is pregnant or breastfeeding	P05.12	DX	NEWBORN SMALL FOR GESTATIONAL AGE, 500-749 GRAMS	ICD-10-CM
19 Women who is pregnant or breastfeeding	P05.13	DX	NEWBORN SMALL FOR GESTATIONAL AGE, 750-999 GRAMS	ICD-10-CM
19 Women who is pregnant or breastfeeding	P05.14	DX	NEWBORN SMALL FOR GESTATIONAL AGE, 1000-1249 GRAMS	ICD-10-CM
19 Women who is pregnant or breastfeeding	P05.15	DX	NEWBORN SMALL FOR GESTATIONAL AGE, 1250-1499 GRAMS	ICD-10-CM
19 Women who is pregnant or breastfeeding	P05.16	DX	NEWBORN SMALL FOR GESTATIONAL AGE, 1500-1749 GRAMS	ICD-10-CM
19 Women who is pregnant or breastfeeding	P07.01	DX	EXTREMELY LOW BIRTH WEIGHT NEWBORN, LESS THAN 500 GRAMS	ICD-10-CM
19 Women who is pregnant or breastfeeding	P07.02	DX	EXTREMELY LOW BIRTH WEIGHT NEWBORN, 500-749 GRAMS	ICD-10-CM
19 Women who is pregnant or breastfeeding	P07.03	DX	EXTREMELY LOW BIRTH WEIGHT NEWBORN, 750-999 GRAMS	ICD-10-CM
19 Women who is pregnant or breastfeeding	P07.14	DX	OTHER LOW BIRTH WEIGHT NEWBORN, 1000-1249 GRAMS	ICD-10-CM
19 Women who is pregnant or breastfeeding	P07.15	DX	OTHER LOW BIRTH WEIGHT NEWBORN, 1250-1499 GRAMS	ICD-10-CM
19 Women who is pregnant or breastfeeding	P07.16	DX	OTHER LOW BIRTH WEIGHT NEWBORN, 1500-1749 GRAMS	ICD-10-CM
19 Women who is pregnant or breastfeeding	P07.2	DX	EXTREME IMMATUREITY OF NEWBORN	ICD-10-CM
19 Women who is pregnant or breastfeeding	P07.20	DX	EXTREME IMMATUREITY OF NEWBORN, UNSPECIFIED WEEKS OF GESTATION	ICD-10-CM
19 Women who is pregnant or breastfeeding	P07.21	DX	EXTREME IMMATUREITY OF NEWBORN, GESTATIONAL AGE LESS THAN 23 COMPLETED WEEKS	ICD-10-CM
19 Women who is pregnant or breastfeeding	P07.22	DX	EXTREME IMMATUREITY OF NEWBORN, GESTATIONAL AGE 23 COMPLETED WEEKS	ICD-10-CM
19 Women who is pregnant or breastfeeding	P07.23	DX	EXTREME IMMATUREITY OF NEWBORN, GESTATIONAL AGE 24 COMPLETED WEEKS	ICD-10-CM
19 Women who is pregnant or breastfeeding	P07.24	DX	EXTREME IMMATUREITY OF NEWBORN, GESTATIONAL AGE 25 COMPLETED WEEKS	ICD-10-CM
19 Women who is pregnant or breastfeeding	P07.25	DX	EXTREME IMMATUREITY OF NEWBORN, GESTATIONAL AGE 26 COMPLETED WEEKS	ICD-10-CM
19 Women who is pregnant or breastfeeding	P07.26	DX	EXTREME IMMATUREITY OF NEWBORN, GESTATIONAL AGE 27 COMPLETED WEEKS	ICD-10-CM
19 Women who is pregnant or breastfeeding	P07.3	DX	PRETERM (PREMATURE) NEWBORN (OTHER)	ICD-10-CM
19 Women who is pregnant or breastfeeding	P07.30	DX	PRETERM NEWBORN, UNSPECIFIED WEEKS OF GESTATION	ICD-10-CM
19 Women who is pregnant or breastfeeding	P07.31	DX	PRETERM NEWBORN, GESTATIONAL AGE 28 COMPLETED WEEKS	ICD-10-CM
19 Women who is pregnant or breastfeeding	P07.32	DX	PRETERM NEWBORN, GESTATIONAL AGE 29 COMPLETED WEEKS	ICD-10-CM
19 Women who is pregnant or breastfeeding	P07.33	DX	PRETERM NEWBORN, GESTATIONAL AGE 30 COMPLETED WEEKS	ICD-10-CM
19 Women who is pregnant or breastfeeding	P07.34	DX	PRETERM NEWBORN, GESTATIONAL AGE 31 COMPLETED WEEKS	ICD-10-CM
19 Women who is pregnant or breastfeeding	P07.35	DX	PRETERM NEWBORN, GESTATIONAL AGE 32 COMPLETED WEEKS	ICD-10-CM
19 Women who is pregnant or breastfeeding	P07.36	DX	PRETERM NEWBORN, GESTATIONAL AGE 33 COMPLETED WEEKS	ICD-10-CM
19 Women who is pregnant or breastfeeding	P07.37	DX	PRETERM NEWBORN, GESTATIONAL AGE 34 COMPLETED WEEKS	ICD-10-CM
19 Women who is pregnant or breastfeeding	P07.38	DX	PRETERM NEWBORN, GESTATIONAL AGE 35 COMPLETED WEEKS	ICD-10-CM
19 Women who is pregnant or breastfeeding	P07.39	DX	PRETERM NEWBORN, GESTATIONAL AGE 36 COMPLETED WEEKS	ICD-10-CM
19 Women who is pregnant or breastfeeding	P08.2	DX	LATE NEWBORN, NOT HEAVY FOR GESTATIONAL AGE	ICD-10-CM
19 Women who is pregnant or breastfeeding	P08.21	DX	POST-TERM NEWBORN	ICD-10-CM
19 Women who is pregnant or breastfeeding	P08.22	DX	PROLONGED GESTATION OF NEWBORN	ICD-10-CM
19 Women who is pregnant or breastfeeding	P61.2	DX	ANEMIA OF PREMATURITY	ICD-10-CM
19 Women who is pregnant or breastfeeding	Z32.01	DX	ENCOUNTER FOR PREGNANCY TEST, RESULT POSITIVE	ICD-10-CM
19 Women who is pregnant or breastfeeding	Z33	DX	PREGNANT STATE	ICD-10-CM
19 Women who is pregnant or breastfeeding	Z33.1	DX	PREGNANT STATE, INCIDENTAL	ICD-10-CM
19 Women who is pregnant or breastfeeding	Z33.2	DX	ENCOUNTER FOR ELECTIVE TERMINATION OF PREGNANCY	ICD-10-CM
19 Women who is pregnant or breastfeeding	Z33.3	DX	PREGNANT STATE, GESTATIONAL CARRIER	ICD-10-CM
19 Women who is pregnant or breastfeeding	Z34	DX	ENCOUNTER FOR SUPERVISION OF NORMAL PREGNANCY	ICD-10-CM
19 Women who is pregnant or breastfeeding	Z34.0	DX	ENCOUNTER FOR SUPERVISION OF NORMAL FIRST PREGNANCY	ICD-10-CM
19 Women who is pregnant or breastfeeding	Z34.00	DX	ENCOUNTER FOR SUPERVISION OF NORMAL FIRST PREGNANCY, UNSPECIFIED TRIMESTER	ICD-10-CM
19 Women who is pregnant or breastfeeding	Z34.01	DX	ENCOUNTER FOR SUPERVISION OF NORMAL FIRST PREGNANCY, FIRST TRIMESTER	ICD-10-CM
19 Women who is pregnant or breastfeeding	Z34.02	DX	ENCOUNTER FOR SUPERVISION OF NORMAL FIRST PREGNANCY, SECOND TRIMESTER	ICD-10-CM
19 Women who is pregnant or breastfeeding	Z34.03	DX	ENCOUNTER FOR SUPERVISION OF NORMAL FIRST PREGNANCY, THIRD TRIMESTER	ICD-10-CM
19 Women who is pregnant or breastfeeding	Z34.8	DX	ENCOUNTER FOR SUPERVISION OF OTHER NORMAL PREGNANCY	ICD-10-CM
19 Women who is pregnant or breastfeeding	Z34.80	DX	ENCOUNTER FOR SUPERVISION OF OTHER NORMAL PREGNANCY, UNSPECIFIED TRIMESTER	ICD-10-CM
19 Women who is pregnant or breastfeeding	Z34.81	DX	ENCOUNTER FOR SUPERVISION OF OTHER NORMAL PREGNANCY, FIRST TRIMESTER	ICD-10-CM
19 Women who is pregnant or breastfeeding	Z34.82	DX	ENCOUNTER FOR SUPERVISION OF OTHER NORMAL PREGNANCY, SECOND TRIMESTER	ICD-10-CM
19 Women who is pregnant or breastfeeding	Z34.83	DX	ENCOUNTER FOR SUPERVISION OF OTHER NORMAL PREGNANCY, THIRD TRIMESTER	ICD-10-CM
19 Women who is pregnant or breastfeeding	Z34.9	DX	ENCOUNTER FOR SUPERVISION OF NORMAL PREGNANCY, UNSPECIFIED	ICD-10-CM
19 Women who is pregnant or breastfeeding	Z36.1	DX	ENCOUNTER FOR ANTENATAL SCREENING FOR RAISED ALPHAFETOPROTEIN LEVEL	ICD-10-CM
19 Women who is pregnant or breastfeeding	Z36.3	DX	ENCOUNTER FOR ANTENATAL SCREENING FOR MALFORMATIONS	ICD-10-CM
19 Women who is pregnant or breastfeeding	Z36.4	DX	ENCOUNTER FOR ANTENATAL SCREENING FOR FETAL GROWTH RETARDATION	ICD-10-CM
19 Women who is pregnant or breastfeeding	Z36.84	DX	ENCOUNTER FOR ANTENATAL SCREENING FOR FETAL LUNG MATURITY	ICD-10-CM
19 Women who is pregnant or breastfeeding	Z36.85	DX	ENCOUNTER FOR ANTENATAL SCREENING FOR STREPTOCOCCUS B	ICD-10-CM
19 Women who is pregnant or breastfeeding	Z36.87	DX	ENCOUNTER FOR ANTENATAL SCREENING FOR UNCERTAIN DATES	ICD-10-CM
19 Women who is pregnant or breastfeeding	Z36.89	DX	ENCOUNTER FOR OTHER SPECIFIED ANTENATAL SCREENING	ICD-10-CM
19 Women who is pregnant or breastfeeding	Z36.9	DX	ENCOUNTER FOR ANTENATAL SCREENING, UNSPECIFIED	ICD-10-CM

19 Women who is pregnant or breastfeeding	Z37.5	DX	OTHER MULTIPLE BIRTHS, ALL LIVEBORN	ICD-10-CM
19 Women who is pregnant or breastfeeding	Z37.50	DX	MULTIPLE BIRTHS, UNSPECIFIED, ALL LIVEBORN	ICD-10-CM
19 Women who is pregnant or breastfeeding	Z37.51	DX	TRIPLETS, ALL LIVEBORN	ICD-10-CM
19 Women who is pregnant or breastfeeding	Z37.52	DX	QUADRUPLETS, ALL LIVEBORN	ICD-10-CM
19 Women who is pregnant or breastfeeding	Z37.54	DX	SEXTUPLETS, ALL LIVEBORN	ICD-10-CM
19 Women who is pregnant or breastfeeding	Z37.59	DX	OTHER MULTIPLE BIRTHS, ALL LIVEBORN	ICD-10-CM
19 Women who is pregnant or breastfeeding	Z37.6	DX	OTHER MULTIPLE BIRTHS, SOME LIVEBORN	ICD-10-CM
19 Women who is pregnant or breastfeeding	Z37.60	DX	MULTIPLE BIRTHS, UNSPECIFIED, SOME LIVEBORN	ICD-10-CM
19 Women who is pregnant or breastfeeding	Z37.61	DX	TRIPLETS, SOME LIVEBORN	ICD-10-CM
19 Women who is pregnant or breastfeeding	Z37.62	DX	QUADRUPLETS, SOME LIVEBORN	ICD-10-CM
19 Women who is pregnant or breastfeeding	Z37.69	DX	OTHER MULTIPLE BIRTHS, SOME LIVEBORN	ICD-10-CM
19 Women who is pregnant or breastfeeding	Z38.3	DX	TWIN LIVEBORN INFANT, BORN IN HOSPITAL	ICD-10-CM
19 Women who is pregnant or breastfeeding	Z38.31	DX	TWIN LIVEBORN INFANT, DELIVERED BY CESAREAN	ICD-10-CM
19 Women who is pregnant or breastfeeding	Z38.4	DX	TWIN LIVEBORN INFANT, BORN OUTSIDE HOSPITAL	ICD-10-CM
19 Women who is pregnant or breastfeeding	Z38.5	DX	TWIN LIVEBORN INFANT, UNSPECIFIED AS TO PLACE OF BIRTH	ICD-10-CM
19 Women who is pregnant or breastfeeding	Z38.6	DX	OTHER MULTIPLE LIVEBORN INFANT, BORN IN HOSPITAL	ICD-10-CM
19 Women who is pregnant or breastfeeding	Z38.62	DX	TRIPLET LIVEBORN INFANT, DELIVERED BY CESAREAN	ICD-10-CM
19 Women who is pregnant or breastfeeding	Z38.64	DX	QUADRUPLET LIVEBORN INFANT, DELIVERED BY CESAREAN	ICD-10-CM
19 Women who is pregnant or breastfeeding	Z38.66	DX	QUINTUPLET LIVEBORN INFANT, DELIVERED BY CESAREAN	ICD-10-CM
19 Women who is pregnant or breastfeeding	Z38.69	DX	OTHER MULTIPLE LIVEBORN INFANT, DELIVERED BY CESAREAN	ICD-10-CM
19 Women who is pregnant or breastfeeding	Z38.7	DX	OTHER MULTIPLE LIVEBORN INFANT, BORN OUTSIDE HOSPITAL	ICD-10-CM
19 Women who is pregnant or breastfeeding	Z38.8	DX	OTHER MULTIPLE LIVEBORN INFANT, UNSPECIFIED AS TO PLACE OF BIRTH	ICD-10-CM
19 Women who is pregnant or breastfeeding	Z39	DX	ENCOUNTER FOR MATERNAL POSTPARTUM CARE AND EXAMINATION	ICD-10-CM
19 Women who is pregnant or breastfeeding	Z39.0	DX	ENCOUNTER FOR CARE AND EXAMINATION OF MOTHER IMMEDIATELY AFTER DELIVERY	ICD-10-CM
19 Women who is pregnant or breastfeeding	Z39.2	DX	ENCOUNTER FOR ROUTINE POSTPARTUM FOLLOW-UP	ICD-10-CM
19 Women who is pregnant or breastfeeding	Z3A	DX	WEEKS OF GESTATION	ICD-10-CM
19 Women who is pregnant or breastfeeding	Z3A.0	DX	WEEKS OF GESTATION OF PREGNANCY, UNSPECIFIED OR LESS THAN 10 WEEKS	ICD-10-CM
19 Women who is pregnant or breastfeeding	Z3A.01	DX	LESS THAN 8 WEEKS GESTATION OF PREGNANCY	ICD-10-CM
19 Women who is pregnant or breastfeeding	Z3A.09	DX	9 WEEKS GESTATION OF PREGNANCY	ICD-10-CM
19 Women who is pregnant or breastfeeding	Z3A.1	DX	WEEKS OF GESTATION OF PREGNANCY, WEEKS 10-19	ICD-10-CM
19 Women who is pregnant or breastfeeding	Z3A.12	DX	12 WEEKS GESTATION OF PREGNANCY	ICD-10-CM
19 Women who is pregnant or breastfeeding	Z3A.13	DX	13 WEEKS GESTATION OF PREGNANCY	ICD-10-CM
19 Women who is pregnant or breastfeeding	Z3A.14	DX	14 WEEKS GESTATION OF PREGNANCY	ICD-10-CM
19 Women who is pregnant or breastfeeding	Z3A.16	DX	16 WEEKS GESTATION OF PREGNANCY	ICD-10-CM
19 Women who is pregnant or breastfeeding	Z3A.17	DX	17 WEEKS GESTATION OF PREGNANCY	ICD-10-CM
19 Women who is pregnant or breastfeeding	Z3A.18	DX	18 WEEKS GESTATION OF PREGNANCY	ICD-10-CM
19 Women who is pregnant or breastfeeding	Z3A.19	DX	19 WEEKS GESTATION OF PREGNANCY	ICD-10-CM
19 Women who is pregnant or breastfeeding	Z3A.24	DX	24 WEEKS GESTATION OF PREGNANCY	ICD-10-CM
19 Women who is pregnant or breastfeeding	Z3A.25	DX	25 WEEKS GESTATION OF PREGNANCY	ICD-10-CM
19 Women who is pregnant or breastfeeding	Z3A.26	DX	26 WEEKS GESTATION OF PREGNANCY	ICD-10-CM
19 Women who is pregnant or breastfeeding	Z3A.27	DX	27 WEEKS GESTATION OF PREGNANCY	ICD-10-CM
19 Women who is pregnant or breastfeeding	Z3A.28	DX	28 WEEKS GESTATION OF PREGNANCY	ICD-10-CM
19 Women who is pregnant or breastfeeding	Z3A.29	DX	29 WEEKS GESTATION OF PREGNANCY	ICD-10-CM
19 Women who is pregnant or breastfeeding	Z3A.3	DX	WEEKS OF GESTATION OF PREGNANCY, WEEKS 30-29	ICD-10-CM
19 Women who is pregnant or breastfeeding	Z3A.32	DX	32 WEEKS GESTATION OF PREGNANCY	ICD-10-CM
19 Women who is pregnant or breastfeeding	Z3A.33	DX	33 WEEKS GESTATION OF PREGNANCY	ICD-10-CM
19 Women who is pregnant or breastfeeding	Z3A.34	DX	34 WEEKS GESTATION OF PREGNANCY	ICD-10-CM
19 Women who is pregnant or breastfeeding	Z3A.39	DX	39 WEEKS GESTATION OF PREGNANCY	ICD-10-CM
19 Women who is pregnant or breastfeeding	Z3A.40	DX	40 WEEKS GESTATION OF PREGNANCY	ICD-10-CM
19 Women who is pregnant or breastfeeding	Z3A.41	DX	41 WEEKS GESTATION OF PREGNANCY	ICD-10-CM
19 Women who is pregnant or breastfeeding	Z3A.49	DX	GREATER THAN 42 WEEKS GESTATION OF PREGNANCY	ICD-10-CM
19 Women who is pregnant or breastfeeding	Z34.90	DX	ENCOUNTER FOR SUPERVISION OF NORMAL PREGNANCY, UNSPECIFIED, UNSPECIFIED TR	ICD-10-CM
19 Women who is pregnant or breastfeeding	Z34.91	DX	ENCOUNTER FOR SUPERVISION OF NORMAL PREGNANCY, UNSPECIFIED, FIRST TRIMESTR	ICD-10-CM
19 Women who is pregnant or breastfeeding	Z34.92	DX	ENCOUNTER FOR SUPERVISION OF NORMAL PREGNANCY, UNSPECIFIED, SECOND TRIMES	ICD-10-CM
19 Women who is pregnant or breastfeeding	Z34.93	DX	ENCOUNTER FOR SUPERVISION OF NORMAL PREGNANCY, UNSPECIFIED, THIRD TRIMESTR	ICD-10-CM
19 Women who is pregnant or breastfeeding	Z36	DX	ENCOUNTER FOR ANTENATAL SCREENING OF MOTHER	ICD-10-CM
19 Women who is pregnant or breastfeeding	Z36.0	DX	ENCOUNTER FOR ANTENATAL SCREENING FOR CHROMOSOMAL ANOMALIES	ICD-10-CM
19 Women who is pregnant or breastfeeding	Z36.2	DX	ENCOUNTER FOR OTHER ANTENATAL SCREENING FOLLOW-UP	ICD-10-CM
19 Women who is pregnant or breastfeeding	Z36.5	DX	ENCOUNTER FOR ANTENATAL SCREENING FOR ISOIMMUNIZATION	ICD-10-CM
19 Women who is pregnant or breastfeeding	Z36.8	DX	ENCOUNTER FOR OTHER ANTENATAL SCREENING	ICD-10-CM
19 Women who is pregnant or breastfeeding	Z36.81	DX	ENCOUNTER FOR ANTENATAL SCREENING FOR HYDROPS FETALIS	ICD-10-CM
19 Women who is pregnant or breastfeeding	Z36.82	DX	ENCOUNTER FOR ANTENATAL SCREENING FOR NUCHAL TRANSLUCENCY	ICD-10-CM
19 Women who is pregnant or breastfeeding	Z36.83	DX	ENCOUNTER FOR FETAL SCREENING FOR CONGENITAL CARDIAC ABNORMALITIES	ICD-10-CM
19 Women who is pregnant or breastfeeding	Z36.86	DX	ENCOUNTER FOR ANTENATAL SCREENING FOR CERVICAL LENGTH	ICD-10-CM
19 Women who is pregnant or breastfeeding	Z36.88	DX	ENCOUNTER FOR ANTENATAL SCREENING FOR FETAL MACROSOMIA	ICD-10-CM
19 Women who is pregnant or breastfeeding	Z36.8A	DX	ENCOUNTER FOR ANTENATAL SCREENING FOR OTHER GENETIC DEFECTS	ICD-10-CM
19 Women who is pregnant or breastfeeding	Z37.2	DX	TWINs, BOTH LIVEBORN	ICD-10-CM
19 Women who is pregnant or breastfeeding	Z37.3	DX	TWINs, ONE LIVEBORN AND ONE STILLBORN	ICD-10-CM
19 Women who is pregnant or breastfeeding	Z37.53	DX	QUINTUPLETS, ALL LIVEBORN	ICD-10-CM
19 Women who is pregnant or breastfeeding	Z37.63	DX	QUINTUPLETS, SOME LIVEBORN	ICD-10-CM
19 Women who is pregnant or breastfeeding	Z37.64	DX	SEXTUPLETS, SOME LIVEBORN	ICD-10-CM
19 Women who is pregnant or breastfeeding	Z38.30	DX	TWIN LIVEBORN INFANT, DELIVERED VAGINALLY	ICD-10-CM
19 Women who is pregnant or breastfeeding	Z38.61	DX	TRIPLET LIVEBORN INFANT, DELIVERED VAGINALLY	ICD-10-CM
19 Women who is pregnant or breastfeeding	Z38.63	DX	QUADRUPLET LIVEBORN INFANT, DELIVERED VAGINALLY	ICD-10-CM
19 Women who is pregnant or breastfeeding	Z38.65	DX	QUINTUPLET LIVEBORN INFANT, DELIVERED VAGINALLY	ICD-10-CM
19 Women who is pregnant or breastfeeding	Z38.68	DX	OTHER MULTIPLE LIVEBORN INFANT, DELIVERED VAGINALLY	ICD-10-CM

19 Women who is pregnant or breastfeeding	Z39.1	DX	ENCOUNTER FOR CARE AND EXAMINATION OF LACTATING MOTHER	ICD-10-CM
19 Women who is pregnant or breastfeeding	Z3A.00	DX	WEEKS OF GESTATION OF PREGNANCY NOT SPECIFIED	ICD-10-CM
19 Women who is pregnant or breastfeeding	Z3A.08	DX	8 WEEKS GESTATION OF PREGNANCY	ICD-10-CM
19 Women who is pregnant or breastfeeding	Z3A.10	DX	10 WEEKS GESTATION OF PREGNANCY	ICD-10-CM
19 Women who is pregnant or breastfeeding	Z3A.11	DX	11 WEEKS GESTATION OF PREGNANCY	ICD-10-CM
19 Women who is pregnant or breastfeeding	Z3A.15	DX	15 WEEKS GESTATION OF PREGNANCY	ICD-10-CM
19 Women who is pregnant or breastfeeding	Z3A.2	DX	WEEKS OF GESTATION OF PREGNANCY, WEEKS 20-29	ICD-10-CM
19 Women who is pregnant or breastfeeding	Z3A.20	DX	20 WEEKS GESTATION OF PREGNANCY	ICD-10-CM
19 Women who is pregnant or breastfeeding	Z3A.21	DX	21 WEEKS GESTATION OF PREGNANCY	ICD-10-CM
19 Women who is pregnant or breastfeeding	Z3A.22	DX	22 WEEKS GESTATION OF PREGNANCY	ICD-10-CM
19 Women who is pregnant or breastfeeding	Z3A.23	DX	23 WEEKS GESTATION OF PREGNANCY	ICD-10-CM
19 Women who is pregnant or breastfeeding	Z3A.30	DX	30 WEEKS GESTATION OF PREGNANCY	ICD-10-CM
19 Women who is pregnant or breastfeeding	Z3A.31	DX	31 WEEKS GESTATION OF PREGNANCY	ICD-10-CM
19 Women who is pregnant or breastfeeding	Z3A.35	DX	35 WEEKS GESTATION OF PREGNANCY	ICD-10-CM
19 Women who is pregnant or breastfeeding	Z3A.36	DX	36 WEEKS GESTATION OF PREGNANCY	ICD-10-CM
19 Women who is pregnant or breastfeeding	Z3A.37	DX	37 WEEKS GESTATION OF PREGNANCY	ICD-10-CM
19 Women who is pregnant or breastfeeding	Z3A.38	DX	38 WEEKS GESTATION OF PREGNANCY	ICD-10-CM
19 Women who is pregnant or breastfeeding	Z3A.4	DX	WEEKS OF GESTATION OF PREGNANCY, WEEKS 40 OR GREATER	ICD-10-CM
19 Women who is pregnant or breastfeeding	Z3A.42	DX	42 WEEKS GESTATION OF PREGNANCY	ICD-10-CM

Category	Variable_Name	Code	Code_category	Code_type	Description	Details
1	Acute MI	I21	DX	ICD-10-CM	ACUTE MYOCARDIAL INFARCTION	MACE component (death, nonfatal MI, nonfatal stroke)
	Acute MI	I21.0	DX	ICD-10-CM	ST ELEVATION (STEMI) MYOCARDIAL INFARCTION OF ANTERIOR WALL	MACE component (death, nonfatal MI, nonfatal stroke)
	Acute MI	I21.01	DX	ICD-10-CM	ST ELEVATION (STEMI) MYOCARDIAL INFARCTION INVOLVING LEFT MAIN CORONARY ARTERY	MACE component (death, nonfatal MI, nonfatal stroke)
	Acute MI	I21.02	DX	ICD-10-CM	ST ELEVATION (STEMI) MYOCARDIAL INFARCTION INVOLVING LEFT ANTERIOR DESCENDING CORONARY ARTERY	MACE component (death, nonfatal MI, nonfatal stroke)
	Acute MI	I21.09	DX	ICD-10-CM	ST ELEVATION (STEMI) MYOCARDIAL INFARCTION INVOLVING OTHER CORONARY ARTERY OF ANTERIOR WALL	MACE component (death, nonfatal MI, nonfatal stroke)
	Acute MI	I21.1	DX	ICD-10-CM	ST ELEVATION (STEMI) MYOCARDIAL INFARCTION OF INFERIOR WALL	MACE component (death, nonfatal MI, nonfatal stroke)
	Acute MI	I21.11	DX	ICD-10-CM	ST ELEVATION (STEMI) MYOCARDIAL INFARCTION INVOLVING RIGHT CORONARY ARTERY	MACE component (death, nonfatal MI, nonfatal stroke)
	Acute MI	I21.19	DX	ICD-10-CM	ST ELEVATION (STEMI) MYOCARDIAL INFARCTION INVOLVING OTHER CORONARY ARTERY OF INFERIOR WALL	MACE component (death, nonfatal MI, nonfatal stroke)
	Acute MI	I21.2	DX	ICD-10-CM	ST ELEVATION (STEMI) MYOCARDIAL INFARCTION OF OTHER SITES	MACE component (death, nonfatal MI, nonfatal stroke)
	Acute MI	I21.21	DX	ICD-10-CM	ST ELEVATION (STEMI) MYOCARDIAL INFARCTION INVOLVING LEFT CIRCUMFLEX CORONARY ARTERY	MACE component (death, nonfatal MI, nonfatal stroke)
	Acute MI	I21.29	DX	ICD-10-CM	ST ELEVATION (STEMI) MYOCARDIAL INFARCTION INVOLVING OTHER SITES	MACE component (death, nonfatal MI, nonfatal stroke)
	Acute MI	I21.3	DX	ICD-10-CM	ST ELEVATION (STEMI) MYOCARDIAL INFARCTION OF UNSPECIFIED SITE	MACE component (death, nonfatal MI, nonfatal stroke)
	Acute MI	I21.4	DX	ICD-10-CM	NON-ST ELEVATION (NSTEMI) MYOCARDIAL INFARCTION	MACE component (death, nonfatal MI, nonfatal stroke)
	Acute MI	I21.9	DX	ICD-10-CM	ACUTE MYOCARDIAL INFARCTION, UNSPECIFIED	MACE component (death, nonfatal MI, nonfatal stroke)
	Acute MI	I21.A	DX	ICD-10-CM	OTHER TYPE OF MYOCARDIAL INFARCTION	MACE component (death, nonfatal MI, nonfatal stroke)
	Acute MI	I21.A1	DX	ICD-10-CM	MYOCARDIAL INFARCTION TYPE 2	MACE component (death, nonfatal MI, nonfatal stroke)
	Acute MI	I21.A9	DX	ICD-10-CM	OTHER MYOCARDIAL INFARCTION TYPE	MACE component (death, nonfatal MI, nonfatal stroke)
	Nonfatal Stroke	G43.609	DX	ICD-10-CM	PERSISTENT MIGRAINE AURA WITH CEREBRAL INFARCTION, NOT INTRACTABLE, WITHOUT STATUS MIGRAINOSUS	MACE component (death, nonfatal MI, nonfatal stroke)
	Nonfatal Stroke	G43.619	DX	ICD-10-CM	PERSISTENT MIGRAINE AURA WITH CEREBRAL INFARCTION, INTRACTABLE, WITHOUT STATUS MIGRAINOSUS	MACE component (death, nonfatal MI, nonfatal stroke)
2	Nonfatal Stroke	G46.3	DX	ICD-10-CM	BRAIN STEM STROKE SYNDROME	MACE component (death, nonfatal MI, nonfatal stroke)
	Nonfatal Stroke	G46.4	DX	ICD-10-CM	CEREBELLAR STROKE SYNDROME	MACE component (death, nonfatal MI, nonfatal stroke)
	Nonfatal Stroke	I63.0	DX	ICD-10-CM	CEREBRAL INFARCTION DUE TO THROMBOSIS OF PRECEREBRAL ARTERIES	MACE component (death, nonfatal MI, nonfatal stroke)
	Nonfatal Stroke	I63.00	DX	ICD-10-CM	CEREBRAL INFARCTION DUE TO THROMBOSIS OF UNSPECIFIED PRECEREBRAL ARTERY	MACE component (death, nonfatal MI, nonfatal stroke)
	Nonfatal Stroke	I63.01	DX	ICD-10-CM	CEREBRAL INFARCTION DUE TO THROMBOSIS OF VERTEBRAL ARTERY	MACE component (death, nonfatal MI, nonfatal stroke)
	Nonfatal Stroke	I63.011	DX	ICD-10-CM	CEREBRAL INFARCTION DUE TO THROMBOSIS OF RIGHT VERTEBRAL ARTERY	MACE component (death, nonfatal MI, nonfatal stroke)
	Nonfatal Stroke	I63.012	DX	ICD-10-CM	CEREBRAL INFARCTION DUE TO THROMBOSIS OF LEFT VERTEBRAL ARTERY	MACE component (death, nonfatal MI, nonfatal stroke)
	Nonfatal Stroke	I63.013	DX	ICD-10-CM	CEREBRAL INFARCTION DUE TO THROMBOSIS OF BILATERAL VERTEBRAL ARTERIES	MACE component (death, nonfatal MI, nonfatal stroke)
	Nonfatal Stroke	I63.019	DX	ICD-10-CM	CEREBRAL INFARCTION DUE TO THROMBOSIS OF UNSPECIFIED VERTEBRAL ARTERY	MACE component (death, nonfatal MI, nonfatal stroke)
	Nonfatal Stroke	I63.02	DX	ICD-10-CM	CEREBRAL INFARCTION DUE TO THROMBOSIS OF BASILAR ARTERY	MACE component (death, nonfatal MI, nonfatal stroke)
	Nonfatal Stroke	I63.03	DX	ICD-10-CM	CEREBRAL INFARCTION DUE TO THROMBOSIS OF CAROTID ARTERY	MACE component (death, nonfatal MI, nonfatal stroke)
	Nonfatal Stroke	I63.031	DX	ICD-10-CM	CEREBRAL INFARCTION DUE TO THROMBOSIS OF RIGHT CAROTID ARTERY	MACE component (death, nonfatal MI, nonfatal stroke)

2 Nonfatal Stroke	I63.032	DX	ICD-10-CM	CEREBRAL INFARCTION DUE TO THROMBOSIS OF LEFT CAROTID ARTERY	MACE component (death, nonfatal MI, nonfatal stroke)
2 Nonfatal Stroke	I63.033	DX	ICD-10-CM	CEREBRAL INFARCTION DUE TO THROMBOSIS OF BILATERAL CAROTID ARTERIES	MACE component (death, nonfatal MI, nonfatal stroke)
2 Nonfatal Stroke	I63.039	DX	ICD-10-CM	CEREBRAL INFARCTION DUE TO THROMBOSIS OF UNSPECIFIED CAROTID ARTERY	MACE component (death, nonfatal MI, nonfatal stroke)
2 Nonfatal Stroke	I63.09	DX	ICD-10-CM	CEREBRAL INFARCTION DUE TO THROMBOSIS OF OTHER PRECEREBRAL ARTERY	MACE component (death, nonfatal MI, nonfatal stroke)
2 Nonfatal Stroke	I63.1	DX	ICD-10-CM	CEREBRAL INFARCTION DUE TO EMBOLISM OF PRECEREBRAL ARTERIES	MACE component (death, nonfatal MI, nonfatal stroke)
2 Nonfatal Stroke	I63.10	DX	ICD-10-CM	CEREBRAL INFARCTION DUE TO EMBOLISM OF UNSPECIFIED PRECEREBRAL ARTERY	MACE component (death, nonfatal MI, nonfatal stroke)
2 Nonfatal Stroke	I63.11	DX	ICD-10-CM	CEREBRAL INFARCTION DUE TO EMBOLISM OF VERTEBRAL ARTERY	MACE component (death, nonfatal MI, nonfatal stroke)
2 Nonfatal Stroke	I63.111	DX	ICD-10-CM	CEREBRAL INFARCTION DUE TO EMBOLISM OF RIGHT VERTEBRAL ARTERY	MACE component (death, nonfatal MI, nonfatal stroke)
2 Nonfatal Stroke	I63.112	DX	ICD-10-CM	CEREBRAL INFARCTION DUE TO EMBOLISM OF LEFT VERTEBRAL ARTERY	MACE component (death, nonfatal MI, nonfatal stroke)
2 Nonfatal Stroke	I63.113	DX	ICD-10-CM	CEREBRAL INFARCTION DUE TO EMBOLISM OF BILATERAL VERTEBRAL ARTERIES	MACE component (death, nonfatal MI, nonfatal stroke)
2 Nonfatal Stroke	I63.119	DX	ICD-10-CM	CEREBRAL INFARCTION DUE TO EMBOLISM OF UNSPECIFIED VERTEBRAL ARTERY	MACE component (death, nonfatal MI, nonfatal stroke)
2 Nonfatal Stroke	I63.12	DX	ICD-10-CM	CEREBRAL INFARCTION DUE TO EMBOLISM OF BASILAR ARTERY	MACE component (death, nonfatal MI, nonfatal stroke)
2 Nonfatal Stroke	I63.13	DX	ICD-10-CM	CEREBRAL INFARCTION DUE TO EMBOLISM OF CAROTID ARTERY	MACE component (death, nonfatal MI, nonfatal stroke)
2 Nonfatal Stroke	I63.131	DX	ICD-10-CM	CEREBRAL INFARCTION DUE TO EMBOLISM OF RIGHT CAROTID ARTERY	MACE component (death, nonfatal MI, nonfatal stroke)
2 Nonfatal Stroke	I63.132	DX	ICD-10-CM	CEREBRAL INFARCTION DUE TO EMBOLISM OF LEFT CAROTID ARTERY	MACE component (death, nonfatal MI, nonfatal stroke)
2 Nonfatal Stroke	I63.133	DX	ICD-10-CM	CEREBRAL INFARCTION DUE TO EMBOLISM OF BILATERAL CAROTID ARTERIES	MACE component (death, nonfatal MI, nonfatal stroke)
2 Nonfatal Stroke	I63.139	DX	ICD-10-CM	CEREBRAL INFARCTION DUE TO EMBOLISM OF UNSPECIFIED CAROTID ARTERY	MACE component (death, nonfatal MI, nonfatal stroke)
2 Nonfatal Stroke	I63.19	DX	ICD-10-CM	CEREBRAL INFARCTION DUE TO EMBOLISM OF OTHER PRECEREBRAL ARTERY	MACE component (death, nonfatal MI, nonfatal stroke)
2 Nonfatal Stroke	I63.2	DX	ICD-10-CM	CEREBRAL INFARCTION DUE TO UNSPECIFIED OCCLUSION OR STENOSIS OF PRECEREBRAL ARTERIES	MACE component (death, nonfatal MI, nonfatal stroke)
2 Nonfatal Stroke	I63.20	DX	ICD-10-CM	CEREBRAL INFARCTION DUE TO UNSPECIFIED OCCLUSION OR STENOSIS OF UNSPECIFIED PRECEREBRAL ARTERIES	MACE component (death, nonfatal MI, nonfatal stroke)
2 Nonfatal Stroke	I63.21	DX	ICD-10-CM	CEREBRAL INFARCTION DUE TO UNSPECIFIED OCCLUSION OR STENOSIS OF VERTEBRAL ARTERIES	MACE component (death, nonfatal MI, nonfatal stroke)
2 Nonfatal Stroke	I63.211	DX	ICD-10-CM	CEREBRAL INFARCTION DUE TO UNSPECIFIED OCCLUSION OR STENOSIS OF RIGHT VERTEBRAL ARTERY	MACE component (death, nonfatal MI, nonfatal stroke)
2 Nonfatal Stroke	I63.212	DX	ICD-10-CM	CEREBRAL INFARCTION DUE TO UNSPECIFIED OCCLUSION OR STENOSIS OF LEFT VERTEBRAL ARTERY	MACE component (death, nonfatal MI, nonfatal stroke)
2 Nonfatal Stroke	I63.213	DX	ICD-10-CM	CEREBRAL INFARCTION DUE TO UNSPECIFIED OCCLUSION OR STENOSIS OF BILATERAL VERTEBRAL ARTERIES	MACE component (death, nonfatal MI, nonfatal stroke)
2 Nonfatal Stroke	I63.219	DX	ICD-10-CM	CEREBRAL INFARCTION DUE TO UNSPECIFIED OCCLUSION OR STENOSIS OF UNSPECIFIED VERTEBRAL ARTERY	MACE component (death, nonfatal MI, nonfatal stroke)
2 Nonfatal Stroke	I63.22	DX	ICD-10-CM	CEREBRAL INFARCTION DUE TO UNSPECIFIED OCCLUSION OR STENOSIS OF BASILAR ARTERY	MACE component (death, nonfatal MI, nonfatal stroke)
2 Nonfatal Stroke	I63.23	DX	ICD-10-CM	CEREBRAL INFARCTION DUE TO UNSPECIFIED OCCLUSION OR STENOSIS OF CAROTID ARTERIES	MACE component (death, nonfatal MI, nonfatal stroke)

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2 Nonfatal Stroke	I63.513	DX	ICD-10-CM	CEREBRAL INFARCTION DUE TO UNSPECIFIED OCCLUSION OR STENOSIS OF BILATERAL MIDDLE CEREBRAL ARTERIES	MACE component (death, nonfatal MI, nonfatal stroke)
2 Nonfatal Stroke	I63.519	DX	ICD-10-CM	CEREBRAL INFARCTION DUE TO UNSPECIFIED OCCLUSION OR STENOSIS OF UNSPECIFIED MIDDLE CEREBRAL ARTERY	MACE component (death, nonfatal MI, nonfatal stroke)
2 Nonfatal Stroke	I63.52	DX	ICD-10-CM	CEREBRAL INFARCTION DUE TO UNSPECIFIED OCCLUSION OR STENOSIS OF ANTERIOR CEREBRAL ARTERY	MACE component (death, nonfatal MI, nonfatal stroke)
2 Nonfatal Stroke	I63.521	DX	ICD-10-CM	CEREBRAL INFARCTION DUE TO UNSPECIFIED OCCLUSION OR STENOSIS OF RIGHT ANTERIOR CEREBRAL ARTERY	MACE component (death, nonfatal MI, nonfatal stroke)
2 Nonfatal Stroke	I63.522	DX	ICD-10-CM	CEREBRAL INFARCTION DUE TO UNSPECIFIED OCCLUSION OR STENOSIS OF LEFT ANTERIOR CEREBRAL ARTERY	MACE component (death, nonfatal MI, nonfatal stroke)
2 Nonfatal Stroke	I63.523	DX	ICD-10-CM	CEREBRAL INFARCTION DUE TO UNSPECIFIED OCCLUSION OR STENOSIS OF BILATERAL ANTERIOR CEREBRAL ARTERIES	MACE component (death, nonfatal MI, nonfatal stroke)
2 Nonfatal Stroke	I63.529	DX	ICD-10-CM	CEREBRAL INFARCTION DUE TO UNSPECIFIED OCCLUSION OR STENOSIS OF UNSPECIFIED ANTERIOR CEREBRAL ARTERY	MACE component (death, nonfatal MI, nonfatal stroke)
2 Nonfatal Stroke	I63.53	DX	ICD-10-CM	CEREBRAL INFARCTION DUE TO UNSPECIFIED OCCLUSION OR STENOSIS OF POSTERIOR CEREBRAL ARTERY	MACE component (death, nonfatal MI, nonfatal stroke)
2 Nonfatal Stroke	I63.531	DX	ICD-10-CM	CEREBRAL INFARCTION DUE TO UNSPECIFIED OCCLUSION OR STENOSIS OF RIGHT POSTERIOR CEREBRAL ARTERY	MACE component (death, nonfatal MI, nonfatal stroke)
2 Nonfatal Stroke	I63.532	DX	ICD-10-CM	CEREBRAL INFARCTION DUE TO UNSPECIFIED OCCLUSION OR STENOSIS OF LEFT POSTERIOR CEREBRAL ARTERY	MACE component (death, nonfatal MI, nonfatal stroke)
2 Nonfatal Stroke	I63.533	DX	ICD-10-CM	CEREBRAL INFARCTION DUE TO UNSPECIFIED OCCLUSION OR STENOSIS OF BILATERAL POSTERIOR CEREBRAL ARTERIES	MACE component (death, nonfatal MI, nonfatal stroke)
2 Nonfatal Stroke	I63.539	DX	ICD-10-CM	CEREBRAL INFARCTION DUE TO UNSPECIFIED OCCLUSION OR STENOSIS OF UNSPECIFIED POSTERIOR CEREBRAL ARTERY	MACE component (death, nonfatal MI, nonfatal stroke)
2 Nonfatal Stroke	I63.54	DX	ICD-10-CM	CEREBRAL INFARCTION DUE TO UNSPECIFIED OCCLUSION OR STENOSIS OF CEREBELLAR ARTERY	MACE component (death, nonfatal MI, nonfatal stroke)
2 Nonfatal Stroke	I63.541	DX	ICD-10-CM	CEREBRAL INFARCTION DUE TO UNSPECIFIED OCCLUSION OR STENOSIS OF RIGHT CEREBELLAR ARTERY	MACE component (death, nonfatal MI, nonfatal stroke)
2 Nonfatal Stroke	I63.542	DX	ICD-10-CM	CEREBRAL INFARCTION DUE TO UNSPECIFIED OCCLUSION OR STENOSIS OF LEFT CEREBELLAR ARTERY	MACE component (death, nonfatal MI, nonfatal stroke)
2 Nonfatal Stroke	I63.543	DX	ICD-10-CM	CEREBRAL INFARCTION DUE TO UNSPECIFIED OCCLUSION OR STENOSIS OF BILATERAL CEREBELLAR ARTERIES	MACE component (death, nonfatal MI, nonfatal stroke)
2 Nonfatal Stroke	I63.549	DX	ICD-10-CM	CEREBRAL INFARCTION DUE TO UNSPECIFIED OCCLUSION OR STENOSIS OF UNSPECIFIED CEREBELLAR ARTERY	MACE component (death, nonfatal MI, nonfatal stroke)
2 Nonfatal Stroke	I63.59	DX	ICD-10-CM	CEREBRAL INFARCTION DUE TO UNSPECIFIED OCCLUSION OR STENOSIS OF OTHER CEREBRAL ARTERY	MACE component (death, nonfatal MI, nonfatal stroke)
2 Nonfatal Stroke	I63.6	DX	ICD-10-CM	CEREBRAL INFARCTION DUE TO CEREBRAL VENOUS THROMBOSIS, NONPYOGENIC	MACE component (death, nonfatal MI, nonfatal stroke)
2 Nonfatal Stroke	I63.8	DX	ICD-10-CM	OTHER CEREBRAL INFARCTION	MACE component (death, nonfatal MI, nonfatal stroke)
2 Nonfatal Stroke	I63.81	DX	ICD-10-CM	OTHER CEREBRAL INFARCTION DUE TO OCCLUSION OR STENOSIS OF SMALL ARTERY	MACE component (death, nonfatal MI, nonfatal stroke)
2 Nonfatal Stroke	I63.89	DX	ICD-10-CM	OTHER CEREBRAL INFARCTION	MACE component (death, nonfatal MI, nonfatal stroke)
2 Nonfatal Stroke	I63.9	DX	ICD-10-CM	CEREBRAL INFARCTION, UNSPECIFIED	MACE component (death, nonfatal MI, nonfatal stroke)
2 Nonfatal Stroke	I65.0	DX	ICD-10-CM	OCCLUSION AND STENOSIS OF VERTEBRAL ARTERY	MACE component (death, nonfatal MI, nonfatal stroke)
2 Nonfatal Stroke	I65.01	DX	ICD-10-CM	OCCLUSION AND STENOSIS OF RIGHT VERTEBRAL ARTERY	MACE component (death, nonfatal MI, nonfatal stroke)

2 Nonfatal Stroke	I65.02	DX	ICD-10-CM	OCCLUSION AND STENOSIS OF LEFT VERTEBRAL ARTERY	MACE component (death, nonfatal MI, nonfatal stroke)
2 Nonfatal Stroke	I65.03	DX	ICD-10-CM	OCCLUSION AND STENOSIS OF BILATERAL VERTEBRAL ARTERIES	MACE component (death, nonfatal MI, nonfatal stroke)
2 Nonfatal Stroke	I65.09	DX	ICD-10-CM	OCCLUSION AND STENOSIS OF UNSPECIFIED VERTEBRAL ARTERY	MACE component (death, nonfatal MI, nonfatal stroke)
2 Nonfatal Stroke	I65.1	DX	ICD-10-CM	OCCLUSION AND STENOSIS OF BASILAR ARTERY	MACE component (death, nonfatal MI, nonfatal stroke)
2 Nonfatal Stroke	I65.2	DX	ICD-10-CM	OCCLUSION AND STENOSIS OF CAROTID ARTERY	MACE component (death, nonfatal MI, nonfatal stroke)
2 Nonfatal Stroke	I65.21	DX	ICD-10-CM	OCCLUSION AND STENOSIS OF RIGHT CAROTID ARTERY	MACE component (death, nonfatal MI, nonfatal stroke)
2 Nonfatal Stroke	I65.22	DX	ICD-10-CM	OCCLUSION AND STENOSIS OF LEFT CAROTID ARTERY	MACE component (death, nonfatal MI, nonfatal stroke)
2 Nonfatal Stroke	I65.23	DX	ICD-10-CM	OCCLUSION AND STENOSIS OF BILATERAL CAROTID ARTERIES	MACE component (death, nonfatal MI, nonfatal stroke)
2 Nonfatal Stroke	I65.29	DX	ICD-10-CM	OCCLUSION AND STENOSIS OF UNSPECIFIED CAROTID ARTERY	MACE component (death, nonfatal MI, nonfatal stroke)
2 Nonfatal Stroke	I65.8	DX	ICD-10-CM	OCCLUSION AND STENOSIS OF OTHER PRECEREBRAL ARTERIES	MACE component (death, nonfatal MI, nonfatal stroke)
2 Nonfatal Stroke	I65.9	DX	ICD-10-CM	OCCLUSION AND STENOSIS OF UNSPECIFIED PRECEREBRAL ARTERY	MACE component (death, nonfatal MI, nonfatal stroke)
2 Nonfatal Stroke	I66.0	DX	ICD-10-CM	OCCLUSION AND STENOSIS OF MIDDLE CEREBRAL ARTERY	MACE component (death, nonfatal MI, nonfatal stroke)
2 Nonfatal Stroke	I66.01	DX	ICD-10-CM	OCCLUSION AND STENOSIS OF RIGHT MIDDLE CEREBRAL ARTERY	MACE component (death, nonfatal MI, nonfatal stroke)
2 Nonfatal Stroke	I66.02	DX	ICD-10-CM	OCCLUSION AND STENOSIS OF LEFT MIDDLE CEREBRAL ARTERY	MACE component (death, nonfatal MI, nonfatal stroke)
2 Nonfatal Stroke	I66.03	DX	ICD-10-CM	OCCLUSION AND STENOSIS OF BILATERAL MIDDLE CEREBRAL ARTERIES	MACE component (death, nonfatal MI, nonfatal stroke)
2 Nonfatal Stroke	I66.09	DX	ICD-10-CM	OCCLUSION AND STENOSIS OF UNSPECIFIED MIDDLE CEREBRAL ARTERY	MACE component (death, nonfatal MI, nonfatal stroke)
2 Nonfatal Stroke	I66.1	DX	ICD-10-CM	OCCLUSION AND STENOSIS OF ANTERIOR CEREBRAL ARTERY	MACE component (death, nonfatal MI, nonfatal stroke)
2 Nonfatal Stroke	I66.11	DX	ICD-10-CM	OCCLUSION AND STENOSIS OF RIGHT ANTERIOR CEREBRAL ARTERY	MACE component (death, nonfatal MI, nonfatal stroke)
2 Nonfatal Stroke	I66.12	DX	ICD-10-CM	OCCLUSION AND STENOSIS OF LEFT ANTERIOR CEREBRAL ARTERY	MACE component (death, nonfatal MI, nonfatal stroke)
2 Nonfatal Stroke	I66.13	DX	ICD-10-CM	OCCLUSION AND STENOSIS OF BILATERAL ANTERIOR CEREBRAL ARTERIES	MACE component (death, nonfatal MI, nonfatal stroke)
2 Nonfatal Stroke	I66.19	DX	ICD-10-CM	OCCLUSION AND STENOSIS OF UNSPECIFIED ANTERIOR CEREBRAL ARTERY	MACE component (death, nonfatal MI, nonfatal stroke)
2 Nonfatal Stroke	I66.2	DX	ICD-10-CM	OCCLUSION AND STENOSIS OF POSTERIOR CEREBRAL ARTERY	MACE component (death, nonfatal MI, nonfatal stroke)
2 Nonfatal Stroke	I66.21	DX	ICD-10-CM	OCCLUSION AND STENOSIS OF RIGHT POSTERIOR CEREBRAL ARTERY	MACE component (death, nonfatal MI, nonfatal stroke)
2 Nonfatal Stroke	I66.22	DX	ICD-10-CM	OCCLUSION AND STENOSIS OF LEFT POSTERIOR CEREBRAL ARTERY	MACE component (death, nonfatal MI, nonfatal stroke)
2 Nonfatal Stroke	I66.23	DX	ICD-10-CM	OCCLUSION AND STENOSIS OF BILATERAL POSTERIOR CEREBRAL ARTERIES	MACE component (death, nonfatal MI, nonfatal stroke)
2 Nonfatal Stroke	I66.29	DX	ICD-10-CM	OCCLUSION AND STENOSIS OF UNSPECIFIED POSTERIOR CEREBRAL ARTERY	MACE component (death, nonfatal MI, nonfatal stroke)
2 Nonfatal Stroke	I66.3	DX	ICD-10-CM	OCCLUSION AND STENOSIS OF CEREBELLAR ARTERIES	MACE component (death, nonfatal MI, nonfatal stroke)
2 Nonfatal Stroke	I66.8	DX	ICD-10-CM	OCCLUSION AND STENOSIS OF OTHER CEREBRAL ARTERIES	MACE component (death, nonfatal MI, nonfatal stroke)
2 Nonfatal Stroke	I66.9	DX	ICD-10-CM	OCCLUSION AND STENOSIS OF UNSPECIFIED CEREBRAL ARTERY	MACE component (death, nonfatal MI, nonfatal stroke)
3 Death	20		IP: Discharge status		All database
3 Death	41		IP: Discharge status		All database
3 Death	42		IP: Discharge status		All database
3 Death	21		IP: Discharge status		Marketscan/Optum database
3 Death	22		IP: Discharge status		Marketscan/Optum database
3 Death	23		IP: Discharge status		Marketscan/Optum database
3 Death	24		IP: Discharge status		Marketscan/Optum database
3 Death	25		IP: Discharge status		Marketscan/Optum database

3 Death	26		IP: Discharge status	Marketscan/Optum database
3 Death	27		IP: Discharge status	Marketscan/Optum database
3 Death	28		IP: Discharge status	Marketscan/Optum database
3 Death	29		IP: Discharge status	Marketscan/Optum database
3 Death	40		IP: Discharge status	Marketscan/Optum database
3 Death	BENE_DEATH_DT		file:mbsf_abdc_summary	Medicare database
3 Death	BENE_DEATH_DT		file:vital_status_file	Medicare database
3 Death	YMDOD in DOD		file:member enrollment	Optum database
3 Death	DEATHYRMO		file:mortality file	Marketscan database
4 Negative control: Hernia	K40	DX	ICD-10-CM	Inpatient and outpatient setting, any position
4 Negative control: Hernia	K41	DX	ICD-10-CM	Inpatient and outpatient setting, any position
4 Negative control: Hernia	K41.0	DX	ICD-10-CM	Inpatient and outpatient setting, any position
4 Negative control: Hernia	K41.00	DX	ICD-10-CM	Inpatient and outpatient setting, any position
4 Negative control: Hernia	K41.01	DX	ICD-10-CM	Inpatient and outpatient setting, any position
4 Negative control: Hernia	K41.1	DX	ICD-10-CM	Inpatient and outpatient setting, any position
4 Negative control: Hernia	K41.10	DX	ICD-10-CM	Inpatient and outpatient setting, any position
4 Negative control: Hernia	K41.11	DX	ICD-10-CM	Inpatient and outpatient setting, any position
4 Negative control: Hernia	K41.2	DX	ICD-10-CM	Inpatient and outpatient setting, any position
4 Negative control: Hernia	K41.20	DX	ICD-10-CM	Inpatient and outpatient setting, any position
4 Negative control: Hernia	K41.21	DX	ICD-10-CM	Inpatient and outpatient setting, any position
4 Negative control: Hernia	K41.3	DX	ICD-10-CM	Inpatient and outpatient setting, any position
4 Negative control: Hernia	K41.30	DX	ICD-10-CM	Inpatient and outpatient setting, any position
4 Negative control: Hernia	K41.31	DX	ICD-10-CM	Inpatient and outpatient setting, any position
4 Negative control: Hernia	K41.4	DX	ICD-10-CM	Inpatient and outpatient setting, any position
4 Negative control: Hernia	K41.40	DX	ICD-10-CM	Inpatient and outpatient setting, any position
4 Negative control: Hernia	K41.41	DX	ICD-10-CM	Inpatient and outpatient setting, any position
4 Negative control: Hernia	K41.9	DX	ICD-10-CM	Inpatient and outpatient setting, any position
4 Negative control: Hernia	K41.90	DX	ICD-10-CM	Inpatient and outpatient setting, any position
4 Negative control: Hernia	K41.91	DX	ICD-10-CM	Inpatient and outpatient setting, any position
4 Negative control: Hernia	K42	DX	ICD-10-CM	Inpatient and outpatient setting, any position
4 Negative control: Hernia	K42.0	DX	ICD-10-CM	Inpatient and outpatient setting, any position
4 Negative control: Hernia	K42.1	DX	ICD-10-CM	Inpatient and outpatient setting, any position
4 Negative control: Hernia	K42.9	DX	ICD-10-CM	Inpatient and outpatient setting, any position
4 Negative control: Hernia	K43	DX	ICD-10-CM	Inpatient and outpatient setting, any position
4 Negative control: Hernia	K43.0	DX	ICD-10-CM	Inpatient and outpatient setting, any position
4 Negative control: Hernia	K43.1	DX	ICD-10-CM	Inpatient and outpatient setting, any position
4 Negative control: Hernia	K43.2	DX	ICD-10-CM	Inpatient and outpatient setting, any position

4 Negative control: Hernia	K43.3	DX	ICD-10-CM	PARASTOMAL HERNIA WITH OBSTRUCTION, WITHOUT GANGRENE	Inpatient and outpatient setting, any position
4 Negative control: Hernia	K43.4	DX	ICD-10-CM	PARASTOMAL HERNIA WITH GANGRENE	Inpatient and outpatient setting, any position
4 Negative control: Hernia	K43.5	DX	ICD-10-CM	PARASTOMAL HERNIA WITHOUT OBSTRUCTION OR GANGRENE	Inpatient and outpatient setting, any position
4 Negative control: Hernia	K43.6	DX	ICD-10-CM	OTHER AND UNSPECIFIED VENTRAL HERNIA WITH OBSTRUCTION, WITHOUT GANGRENE	Inpatient and outpatient setting, any position
4 Negative control: Hernia	K43.7	DX	ICD-10-CM	OTHER AND UNSPECIFIED VENTRAL HERNIA WITH GANGRENE	Inpatient and outpatient setting, any position
4 Negative control: Hernia	K43.9	DX	ICD-10-CM	VENTRAL HERNIA WITHOUT OBSTRUCTION OR GANGRENE	Inpatient and outpatient setting, any position
4 Negative control: Hernia	K44	DX	ICD-10-CM	DIAPHRAGMATIC HERNIA	Inpatient and outpatient setting, any position
4 Negative control: Hernia	K44.0	DX	ICD-10-CM	DIAPHRAGMATIC HERNIA WITH OBSTRUCTION, WITHOUT GANGRENE	Inpatient and outpatient setting, any position
4 Negative control: Hernia	K44.1	DX	ICD-10-CM	DIAPHRAGMATIC HERNIA WITH GANGRENE	Inpatient and outpatient setting, any position
4 Negative control: Hernia	K44.9	DX	ICD-10-CM	DIAPHRAGMATIC HERNIA WITHOUT OBSTRUCTION OR GANGRENE	Inpatient and outpatient setting, any position
4 Negative control: Hernia	K45	DX	ICD-10-CM	OTHER ABDOMINAL HERNIA	Inpatient and outpatient setting, any position
4 Negative control: Hernia	K45.0	DX	ICD-10-CM	OTHER SPECIFIED ABDOMINAL HERNIA WITH OBSTRUCTION, WITHOUT GANGRENE	Inpatient and outpatient setting, any position
4 Negative control: Hernia	K45.1	DX	ICD-10-CM	OTHER SPECIFIED ABDOMINAL HERNIA WITH GANGRENE	Inpatient and outpatient setting, any position
4 Negative control: Hernia	K45.8	DX	ICD-10-CM	OTHER SPECIFIED ABDOMINAL HERNIA WITHOUT OBSTRUCTION OR GANGRENE	Inpatient and outpatient setting, any position
4 Negative control: Hernia	K46	DX	ICD-10-CM	UNSPECIFIED ABDOMINAL HERNIA	Inpatient and outpatient setting, any position
4 Negative control: Hernia	K46.0	DX	ICD-10-CM	UNSPECIFIED ABDOMINAL HERNIA WITH OBSTRUCTION, WITHOUT GANGRENE	Inpatient and outpatient setting, any position
4 Negative control: Hernia	K46.1	DX	ICD-10-CM	UNSPECIFIED ABDOMINAL HERNIA WITH GANGRENE	Inpatient and outpatient setting, any position
4 Negative control: Hernia	K46.9	DX	ICD-10-CM	UNSPECIFIED ABDOMINAL HERNIA WITHOUT OBSTRUCTION OR GANGRENE	Inpatient and outpatient setting, any position
5 Negative control: Lumbar radiculopathy	M54.15	DX	ICD-10-CM	RADICULOPATHY, THORACOLUMBAR REGION	Inpatient and outpatient setting, any position
5 Negative control: Lumbar radiculopathy	M54.16	DX	ICD-10-CM	RADICULOPATHY, LUMBAR REGION	Inpatient and outpatient setting, any position
5 Negative control: Lumbar radiculopathy	M54.17	DX	ICD-10-CM	RADICULOPATHY, LUMBOSACRAL REGION	Inpatient and outpatient setting, any position

Category	Subcategory	ICD	Validation source	Type of the source	PPV	Codes in the study	Codes in the emulation	Modification	Description of Modifications	Notes
Outcome										
1 All-cause mortality		N/A	Risk Implications of Outcomes Misclassification in Observational Studies: Evidence Association Between Treatments and All-Cause or Cardiovascular Mortality Using Administrative Claims	N/A						
2 Acute myocardial infarction		N/A	Risk Implications of Outcome Misclassification in Observational Studies: Evidence Association Between Treatments and All-Cause Cardiovascular Mortality Using Administrative Claims	N/A						
3 Non-fatal stroke		ICD-10-CM	Validation of claims-based diagnostic and procedure codes for cardiovascular and gastrointestinal serious adverse events in a commercially insured population: Validating administrative data in stroke research	Validation study	95%			No		
4 Lumbar radiculopathy		ICD-10-CM	Clinical Outcomes of Trigeminal (V) P-1 Receptor Agonists in Individuals With Type 2 Diabetes: Association between chronic tic, neuropathic and nerve disorders in adults with lumbar disc herniation and radiculopathy: retrospective cohort study using United States' data	Study w/ same criteria						
5 Hemis		ICD-10-CM	Clinical Outcomes of Trigeminal (V) P-1 Receptor Agonists in Individuals With Type 2 Diabetes	Study w/ same criteria						
Inclusion criteria										
1 Men and women aged 40 years or older		ICD-10-CM	Can't be validated PROMISE team	N/A DoPE N/A	N/A	N/A	N/A	N/A	N/A	N/A
2 Type 2 Diabetes		ICD-10-CM	Can't be validated Validation of body mass index (BMI)-related ICD-9-CM and ICD-10-CM administrative diagnostic codes, recorded in US claims data: Validation of body mass index (BMI)-related ICD-9-CM and ICD-10-CM administrative diagnostic codes recorded in US claims data	Validation study	98%			Yes	Added E66.2; E66.8	
3 HbA1c ≥7% and ≤10.5%		ICD-10-CM	PROMISE team	DoPE				No		
4 BMI ≥25kg/m2		ICD-10-CM	PROMISE team	DoPE				No		
5 Established atherosclerotic CV disease, either one of:		ICD-10-CM	RCT-DUPLICATE team RCT-DUPLICATE team	DoPE DoPE	N/A	N/A	N/A	Yes	Excluded ICD-10-CM I25.10 due to freedom of symptoms	N/A
5.1 Coronary artery disease, either one of:		ICD-10-CM	PROMISE team	DoPE				No		
5.1.1 Documented history of myocardial infarction		ICD-10-CM	PROMISE team	DoPE				No		
5.1.2 stenosis in ≥1 major coronary arteries determined by invasive angiography		ICD-10-CM	PROMISE team	DoPE				No		
5.1.3 stenosis in ≥2 or more major coronary arteries		ICD-10-CM	PROMISE team	DoPE				No		
5.1.4 History of surgical or percutaneous coronary revascularization		ICD-10-CM	PROMISE team	DoPE				No		
5.2 Cardiovascular disease, either one of:		ICD-10-CM	PROMISE team	DoPE				No		
5.2.1 Documented history of ischemic stroke		ICD-10-CM	PROMISE team	DoPE				No		
5.2.2 Carotid arterial disease with ≥50% stenosis, documented by carotid ultrasound, MRI or angiography		ICD-10-CM	RCT-DUPLICATE team	DoPE	N/A	N/A	N/A	N/A	N/A	N/A
5.2.3 History of carotid stenting or surgical revascularization		ICD-10-CM	PROMISE team	DoPE				No		
5.2.3.1 Peripheral arterial disease, either one of:		ICD-10-CM	PROMISE team	DoPE				No		
5.2.3.1.1 Intermittent claudication and ankle-brachial index <0.9		ICD-10-CM	RCT-DUPLICATE team	DoPE				Yes	Excluded I70.20x due to freedom of symptoms	
5.2.3.1.2 Prior nontraumatic amputation or peripheral vascular procedure (eg, stenting or surgical revascularization) due to peripheral arterial ischemia		ICD-10-CM, CPT	RCT-DUPLICATE team	DoPE				No		
Exclusion criteria										
6 HbA1c >10.5%		CPT/HCPCS	Can't be validated LEAD-2	N/A DoPE				No		
7 Planning treatment for diabetic retinopathy and/or macular edema		CPT/HCPCS	Can't be validated LEAD-2	N/A DoPE				No		
8 Hospitalized for chronic heart failure within 2 months prior to screening		ICD-10-CM	Validity of International Classification of Diseases (ICD-10) Diagnostic Codes for Identification of Acute Heart Failure Hospitalizations and Heart Failure with Reduced Versus Preserved Ejection Fraction in a National Medicare Sample	DoPE	98%	I50.x	I09.81 I10 I12 I50.x	Based on PROMISE team	Added hypertensive heart disease with heart failure codes	
9 Chronic New York Heart Association Functional Classification IV		ICD-10-CM	Can't be validated PROMISE team	N/A				No		
9 heart failure		ICD-10-CM	Can't be validated PROMISE team	N/A				No		
10 Planned coronary, carotid, or peripheral artery revascularization		ICD-10-CM	Can't be validated PROMISE team	N/A				No		
11 History of chronic or acute pancreatitis		ICD-10-CM	Endoscopy, Etiology, and Treatment of Gastropancreatic Real-World Evidence From a Large US National Claims Database	Study w/ same criteria			K31.84	No		
11 Known clinically significant gastric emptying abnormality or bariatric surgery		ICD-10-CM	Endoscopy, Etiology, and Treatment of Gastropancreatic Real-World Evidence From a Large US National Claims Database	N/A				No		
12 surgery	Gastroparesis Opioids / Anticholinergics / Laxative tablets Bariatric surgery	ICD-10-CM Prescriptions ICD-10-CM	PROMISE Team	DoPE				No		
13 Liver disease (not including non-alcoholic fatty liver disease [NAFLD])		ICD-10-CM	PROMISE Team	DoPE			I22.0, N18.6	No		
14 eGFR <15 mL/Min/1.73 m2 or on chronic dialysis		ICD-10-CM, CPT HCPCS	PROMISE team	DoPE			I22.0, I32.2, N18.6	Yes	Added I32.2 Hypertensive heart and chronic kidney disease with heart failure and with stage 5 chronic kidney disease, or end-stage renal disease	Codes indicate stage V or end-stage renal disease (ESRD)
15 Family or personal history of multiple endocrine neoplasia or medullary thyroid carcinoma		ICD-10-CM	PROMISE team	DoPE				No		
16 Elevated serum calcitonin level		ICD-10-CM	Can't be validated PROMISE team	N/A				No		
17 CV event or intervention <60 D prior to screening	Myocardial infarction CABG	ICD-10-CM ICD-10-CM	PROMISE team	DoPE				No		
	Major CV surgery	ICD-10-CM	Assessment of Potentially Preventable Hospital Readmissions After Major Surgery and Association With Public vs Private Health Insurance and Comorbidities	Study w/ same criteria				Yes	Added categories and codes for major CV operations.	
	Stroke TIA	ICD-10-CM ICD-10-CM	Validating administrative data in stroke research: Validation of claims-based diagnostic and procedure codes for cardiovascular and gastrointestinal serious adverse events in a commercially insured population	Validation study DoPE	88%; 95%		I20.0, I24.0, I24.1, I24.8, I24.81, I24.89, I24.9, I25.10, I25.700, I25.710, I25.720, I25.730, I25.750, I25.760, I25.790	No		
18 GLP-1 RA or pramlintide treatment within 3 Mo prior to Visit 1	Unstable angina pectoris	ICD-10-CM Prescriptions	Validity of coronary heart diseases and heart failure based on hospital discharge and mortality data in the Netherlands using the cardiovascular registry Maastricht cohort study	Validation study	78%	I20		Yes	Added codes with mentioned angina pectoris in atherosclerosis	
19 Are women who are pregnant or breastfeeding		ICD-10-CM	Pregnancy team	DoPE				No		

Appendix 3. Flowchart for cohort assembly

OPTUM (May 13, 2022 to Feb 28, 2025)		
	Excluded Patients	Remainine Patients
Patients in dataset		86,343,410
Patients meeting cohort entry criteria		563,099
Excluded due to insufficient enrollment	215,765 (38%)	347,334
Excluded due to prior use of referent	116,754 (34%)	230,580
Excluded due to prior use of exposure	157,852 (68%)	72,725
Excluded because patient qualified in >1 exposure category	3 (<1%)	72,725
Excluded based on 1- Age	2,111 (3%)	70,614
Excluded based on 1- gender	5 (1%)	70,609
Excluded based on 2 - Type 2 diabetes mellitus	4,665 (7%)	65,944
Excluded based on 4 - BMI ≥ 25kg/m2 (ICD-10)	10,858 (16%)	55,086
Excluded based on 4 - BMI ≥ 25kg/m2 (Truncated)	2,981 (<1%)	54,798
Excluded based on 5 - Established atherosclerotic cardiovascular disease	15,056 (25%)	39,702
Excluded based on 7 - Planning treatment for diabetic retinopathy and/or macular edema	582 (1%)	39,120
Excluded based on 8 - Hospitalized for chronic heart failure within 2 months prior to screening	97 (<1%)	39,023
Excluded based on 11 - History of chronic or acute pancreatitis	155 (<1%)	38,869
Excluded based on 12 - Known clinically significant gastric emptying abnormality or bariatric surgery	1,941 (5%)	36,926
Excluded based on 13 - Liver disease (not including non-alcoholic fatty liver disease (NAFLD)) or ALT level ≥3X the ULN	1,188 (<1%)	36,738
Excluded based on 14 - eGFR <15 mL/Min/1.73 m2 or on chronic dialysis	2,601 (<1%)	36,478
Excluded based on 15 - Family or personal history of multiple endocrine neoplasia or medullary thyroid carcinoma	53 (<1%)	36,425
Excluded based on 17 - Cardiovascular event or intervention <60 days prior to screening	132 (<1%)	36,293
Excluded based on 18 - GLP-1 RA or pramlintide treatment within 3 months prior to Visit 1	1,991 (5%)	34,302
Excluded based on 19 - Women who are pregnant or breastfeeding	11 (<1%)	34,301
Patients in Exposure Group		20,311
Patients in Referent Group		13,990
Total Patients		34,301

MARKEYSAN (May 13, 2022 to Dec 31, 2023)		
	Excluded Patients	Remaining Patients
Patients in dataset		226,115,011
Patients meeting cohort entry criteria		319,215
Excluded due to insufficient enrollment	62,500 (20%)	256,715
Excluded due to prior use of referent	107,315 (42%)	149,396
Excluded due to prior use of exposure	107,417 (72%)	41,973
Excluded because patient qualified in >1 exposure category	6 (<1%)	41,973
Excluded based on 1- Age	4,476 (11%)	37,497
Excluded based on 1- gender	0 (1%)	37,497
Excluded based on 2 - Type 2 diabetes mellitus	4,233 (17%)	31,264
Excluded based on 4 - BMI ≥ 25kg/m2	7,237 (23%)	24,027
Excluded based on 5 - Established atherosclerotic cardiovascular disease	11,718 (47%)	12,309
Excluded based on 7 - Planning treatment for diabetic retinopathy and/or macular edema	2,051 (2%)	12,501
Excluded based on 8 - Hospitalized for chronic heart failure within 2 months prior to screening	33 (<1%)	12,548
Excluded based on 11 - History of chronic or acute pancreatitis	35 (<1%)	12,513
Excluded based on 12 - Known clinically significant gastric emptying abnormality or bariatric surgery	717 (6%)	11,796
Excluded based on 13 - Liver disease (not including non-alcoholic fatty liver disease (NAFLD)) or ALT level ≥3X the ULN	42 (<1%)	11,754
Excluded based on 14 - eGFR <15 mL/Min/1.73 m2 or on chronic dialysis	50 (<1%)	11,694
Excluded based on 15 - Family or personal history of multiple endocrine neoplasia or medullary thyroid carcinoma	29 (<1%)	11,665
Excluded based on 17 - Cardiovascular event or intervention <60 days prior to screening	51 (<1%)	11,614
Excluded based on 18 - GLP-1 RA or pramlintide treatment within 3 months prior to Visit 1	1,154 (10%)	10,450
Excluded based on 19 - Women who are pregnant or breastfeeding	5 (<1%)	10,445
Patients in Exposure Group		5,116
Patients in Referent Group		5,329
Total Patients		10,445

Appendix 4. 1st Feasibility Assessment

Table of Contents

- A. Patient characteristics by treatment group
- B. Summary Parameters of Study Population
- C. Median Follow up Time in Overall Study Population
- D. Reasons for Censoring in Overall Study Population
- E. Initial Power Assessment
- F. Aetion report link
- G. Review by Principal Investigator

In order to complete the initial power analysis, a dummy outcome of a 90-day gap in database enrollment was used. This outcome is used to ensure that no information on the comparative risks of the outcomes of interest are available at this stage. We completed a PS overlap weighted comparative analysis using this outcome. The PS included only 3 covariates: age, sex, and combined comorbidity index. Power calculations are based on the formulas from Chow et al. (2008).

OPTUM: Study period from May 13, 2022 to Feb 28, 2025
MARKETSCAN: Study period from May 13, 2022 to Dec 31, 2023

A. Patient characteristics by treatment group (follow-up start is 1 days after CED, so few patients and dropped, hence table 1 could include slightly fewer patients than the attrition table)

Before matching Variable	Optum			Marketscan		
	Reference: Dulaglutide	Exposure - Tirzepatide	Difference	Reference: Dulaglutide	Exposure: Tirzepatide	Difference
Number of patients	13,990	20,311	- (-, -)	5,329	5,116	- (-, -)
Age						
...mean (sd)	69.14 (9.06)	66.92 (9.17)	2.22 (2.02, 2.42)	63.74 (10.60)	59.86 (9.36)	3.88 (3.50, 4.26)
...median [IQR]	70.00 [64.00, 75.00]	68.00 [61.00, 73.00]	- (-, -)	63.00 [56.00, 72.00]	59.00 [53.00, 65.00]	- (-, -)
Gender						
...Male; n (%)	6,883 (49.2%)	9,605 (47.3%)	1.9% (0.8%, 3.0%)	2,885 (54.1%)	2,538 (49.6%)	4.5% (2.6%, 6.5%)
CCI (365 days)						
...mean (sd)	3.57 (2.92)	2.99 (2.68)	0.58 (0.52, 0.64)	2.34 (2.50)	1.78 (2.02)	0.57 (0.48, 0.65)
...median [IQR]	3.00 [1.00, 5.00]	2.00 [1.00, 5.00]	- (-, -)	2.00 [1.00, 3.00]	1.00 [0.00, 3.00]	- (-, -)

B. Summary Parameters of Overall Study Population (Step 1)

Variable	Optum Value	Marketscan Value
Number of patients in full cohort	34,301	10,445
Number of patients dropped as incomplete cases	0	0
Number of patients that did not begin follow-up	68	7
Number of patients in analytic cohort	34,233	10,438
Number of events	642	141
Number of person-years	16,569.35	4,748.51
Number of patients in group: Reference- Sitagliptin	13,970	5,324
Number of patients in group: Exposure - Tirzepatide	20,263	5,114
Risk per 1,000 patients	18.75	13.51
Rate per 1,000 person-years	38.75	29.69

C. Median Follow up Time in Overall Study Population (Step 1)

Patient Group	Optum	Marketscan
	Median Follow-Up Time (Days) [IQR]	Median Follow-Up Time (Days) [IQR]
Overall Patient Population	140 [71, 274]	136 [71, 253]

D. Reasons for Censoring in Overall Study Population (Step 1)

Overall	Optum	Marketscan
	Value	Value
Outcome	642 (1.9%)	141 (1.4%)
Start of an additional exposure	691 (2.0%)	269 (2.6%)
End of index exposure	14,259 (41.7%)	2,853 (27.3%)
Maximum follow-up time	5,529 (16.2%)	1,101 (10.5%)
Specified date reached	1,572 (4.6%)	4,979 (47.7%)
End of patient data	0 (0.0%)	0 (0.0%)
End of patient enrollment	9,197 (26.9%)	637 (6.1%)
Switch to other GLP-1-RA (for censoring) / Nursing home admission	2,343 (6.8%)	458 (4.4%)

E. Power Assessment

Noninferiority Analysis	Optum	Marketscan
Number of patients matched		
Reference	13,990	5,329
Exposed	20,311	5,116
Risk per 1,000 patients	18.75	13.51
Assumed HR from RCT	0.8	0.8
Alpha (2-sided)	0.05	0.05
Non-inferiority margin	1.05	1.05
Number of events expected	643	141
Power	0.93	0.37

F. Aetion report link

Optum Step 1: <https://bwh-dope.aetion.com/project/2905/rwrs/139334>

Marketscan Step 1: <https://bwh-dope.aetion.com/project/2906/rwrs/139338>

F. Review by principal investigator

Stop analyses until feasibility and power are reviewed by primary investigators.

Reviewed by PI:	Nils Krüger	Date reviewed:	July 30, 2025
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Appendix 5. 2nd Feasibility Assessment

Table of Contents

- A. Median Follow up Time by Treatment Group
- B. Reasons for Censoring by Treatment Group
- C. Final Power Assessment
- D. Action report link
- E. Review by Principal Investigator

In order to complete the feasibility analysis, a dummy outcome of a 90-day gap in database enrollment was used. This outcome is used to ensure that no information on the comparative risks of the outcomes of interest are available at this stage. We completed a PS overlap weighted comparative analysis using this outcome. The PS included all prespecified covariates listed in the protocol. Power calculations are based on the formulas from Chow et al. (2008).

A. Median Follow Up Time by Treatment Group

Patient Group	Median Follow-Up Time (Days) [IQR]	Median Follow-Up Time (Days) [IQR]
Overall Patient Population	140 [71, 274]	136 [71, 253]

B. Reasons for Censoring in Overall Study Population

	Optum	Marketscan
Overall	Value	Value
Outcome	642 (1.9%)	141 (1.4%)
Start of an additional exposure	691 (2.0%)	269 (2.6%)
End of index exposure	14,259 (41.7%)	2,853 (27.3%)
Maximum follow-up time	5,529 (16.2%)	1,101 (10.5%)
Specified date reached	1,572 (4.6%)	4,979 (47.7%)
End of patient data	0 (0.0%)	0 (0.0%)
End of patient enrollment	9,197 (26.9%)	637 (6.1%)
Switch to other GLP-1-RA (for censoring) / Nursing home admission	2,343 (6.8%)	458 (4.4%)

C. Power Assessment

Noninferiority Analysis	Optum	Marketscan
Number of patients matched		
Reference	13,990	5,329
Exposed	20,311	5,116
Risk per 1,000 patients	18.75	13.51
Assumed HR from RCT	0.8	0.8
Alpha (2-sided)	0.05	0.05
Non-inferiority margin	1.05	1.05
Number of events expected	643	141
Power	0.93	0.37

D. Aetion report link

Optum Step 1: <https://bwh-dope.aetion.com/project/2905/rwrs/139334>

Marketscan Step 1: <https://bwh-dope.aetion.com/project/2906/rwrs/139338>

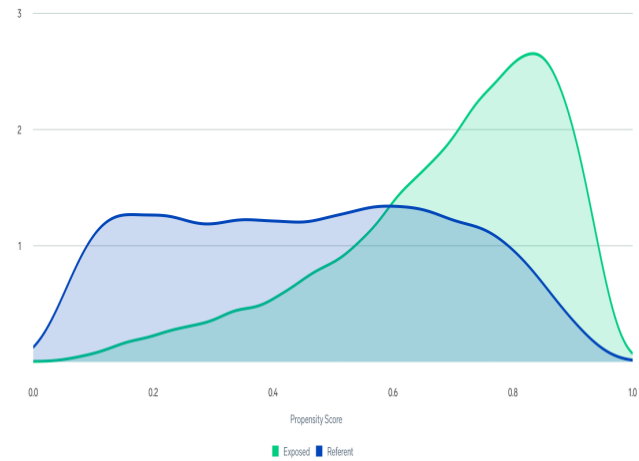
E. Review by principal investigator

Stop analyses until feasibility and power are reviewed by primary investigators.

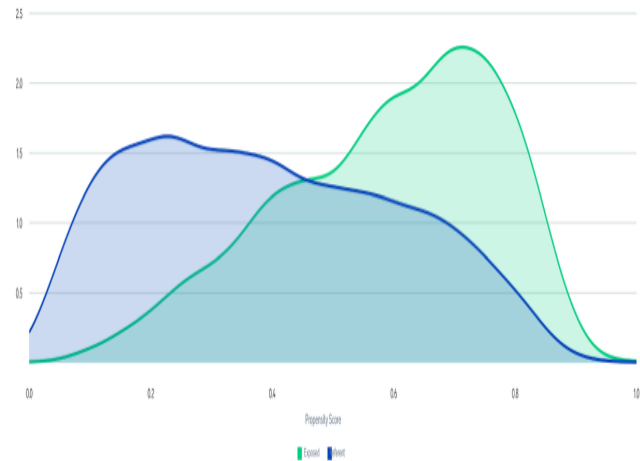
Reviewed by PI:	Nils Krüger	Date reviewed:	July 30, 2025
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Appendix 6. Balance Assessment - PS Distribution and C-Statistic

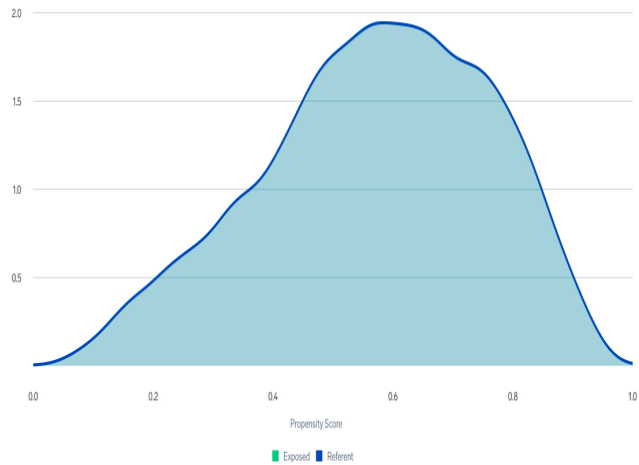
C-statistics unadjusted, OPTUM: 0.778



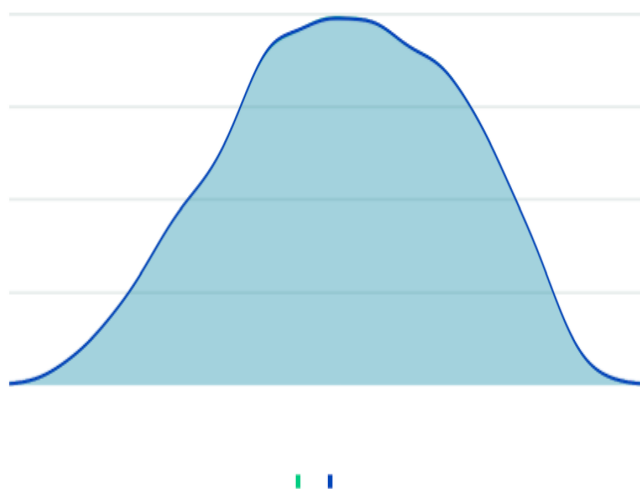
C-statistics unadjusted, MARKETSCAN: 0.751



C-statistics adjusted after overlap weighing on the PS, OPTUM: 0.525



C-statistics adjusted after overlap weighing on the PS, MARKETSCAN: 0.541



Appendix 7. Balance Assessment - Table 1

OPTUM						
Variable	Reference: Dulaglutide	Exposure: Tirzepatide	Difference	Reference: Dulaglutide	Exposure: Tirzepatide	Difference
Number of patients	13,970	20,263	- (-, -)	9,525	9,525	- (-, -)
Year of Cohort Entry Date						
...2022; n (%)	4,345 (31.1%)	1,352 (6.7%)	24.4% (23.6%, 25.3%)	1,298 (13.6%)	1,293 (13.6%)	0.1% (-0.9%, 1.0%)
...2023; n (%)	6,094 (43.6%)	7,976 (39.4%)	4.3% (3.2%, 5.3%)	4,859 (51.0%)	4,821 (50.6%)	0.4% (-1.0%, 1.8%)
...2024; n (%)	3,495 (25.0%)	10,644 (52.5%)	-27.5% (-28.5%, -26.5%)	3,332 (35.0%)	3,378 (35.5%)	-0.5% (-1.9%, 0.9%)
...2025; n (%)	36 (0.3%)	291 (1.4%)	-1.2% (-1.4%, -1.0%)	36 (0.4%)	33 (0.3%)	0.0% (-0.1%, 0.2%)
Age						
...mean (sd)	69.14 (9.05)	66.92 (9.17)	2.22 (2.03, 2.42)	68.30 (9.05)	68.31 (8.86)	-0.01 (-0.26, 0.24)
...median [IQR]	70.00 [64.00, 75.00]	68.00 [61.00, 73.00]	- (-, -)	69.00 [63.00, 75.00]	69.00 [63.00, 74.00]	- (-, -)
...min, max	40.00, 88.00	40.00, 88.00	- (-, -)	40.00, 88.00	40.00, 88.00	- (-, -)
Gender (male); n (%)	6,873 (49.2%)	9,584 (47.3%)	1.9% (0.8%, 3.0%)	4,620 (48.5%)	4,647 (48.8%)	-0.3% (-1.7%, 1.1%)
Race (Recategorized)						
...White; n (%)	6,463 (46.3%)	10,227 (50.5%)	-4.2% (-5.3%, -3.1%)	4,522 (47.5%)	4,584 (48.1%)	-0.7% (-2.1%, 0.8%)
...Black; n (%)	2,182 (15.6%)	2,567 (12.7%)	3.0% (2.2%, 3.7%)	1,404 (14.7%)	1,370 (14.4%)	0.4% (-0.7%, 1.4%)
...Unknown / Missing; n (%)	5,115 (36.6%)	7,229 (35.7%)	0.9% (-0.1%, 2.0%)	3,471 (36.4%)	3,455 (36.3%)	0.2% (-1.2%, 1.5%)
...Others; n (%)	210 (1.5%)	240 (1.2%)	0.3% (0.1%, 0.6%)	128 (1.3%)	116 (1.2%)	0.1% (-0.2%, 0.5%)
Region / State						
...Northeast; n (%)	1,502 (10.8%)	1,665 (8.2%)	2.5% (1.9%, 3.2%)	895 (9.4%)	912 (9.6%)	-0.2% (-1.0%, 0.7%)
...Midwest / North central; n (%)	2,830 (20.3%)	3,645 (18.0%)	2.3% (1.4%, 3.1%)	1,865 (19.6%)	1,875 (19.7%)	-0.1% (-1.2%, 1.0%)
...South; n (%)	7,077 (50.7%)	12,397 (61.2%)	-10.5% (-11.6%, -9.4%)	5,204 (54.6%)	5,191 (54.5%)	0.1% (-1.3%, 1.6%)
...West; n (%)	2,555 (18.3%)	2,547 (12.6%)	5.7% (4.9%, 6.5%)	1,558 (16.4%)	1,544 (16.2%)	0.1% (-0.9%, 1.2%)
...Missing; n (%)	6 (0.0%)	9 (0.0%)	-0.0% (-0.0%, 0.0%)	3 (0.0%)	3 (0.0%)	0.0% (-0.1%, 0.1%)
Smoking/Tobacco user; n (%)	4,385 (31.4%)	5,928 (29.3%)	2.1% (1.1%, 3.1%)	2,903 (30.5%)	2,940 (30.9%)	-0.4% (-1.7%, 0.9%)
Weight						
...Overweight; n (%)	1,719 (12.3%)	1,346 (6.6%)	5.7% (5.0%, 6.3%)	943 (9.9%)	932 (9.8%)	0.1% (-0.7%, 1.0%)
...Class 1 Obesity; n (%)	3,478 (24.9%)	4,061 (20.0%)	4.9% (3.9%, 5.8%)	2,221 (23.3%)	2,226 (23.4%)	-0.1% (-1.3%, 1.2%)
...Class 2 Obesity; n (%)	4,497 (32.2%)	7,185 (35.5%)	-3.3% (-4.3%, -2.2%)	3,219 (33.8%)	3,217 (33.8%)	0.0% (-1.3%, 1.4%)
...Class 3 Obesity; n (%)	2,603 (18.6%)	5,242 (25.9%)	-7.2% (-8.1%, -6.3%)	1,992 (20.9%)	1,972 (20.7%)	0.2% (-1.0%, 1.4%)
...Unspecified Obesity; n (%)	1,673 (12.0%)	2,429 (12.0%)	-0.0% (-0.7%, 0.7%)	1,150 (12.1%)	1,178 (12.4%)	-0.3% (-1.2%, 0.6%)
Diabetic retinopathy; n (%)	2,355 (16.9%)	2,393 (11.8%)	5.0% (4.3%, 5.8%)	1,449 (15.2%)	1,416 (14.9%)	0.3% (-0.7%, 1.4%)
Diabetic neuropathy; n (%)	6,341 (45.4%)	7,322 (36.1%)	9.3% (8.2%, 10.3%)	4,026 (42.3%)	4,066 (42.7%)	-0.4% (-1.8%, 1.0%)
Diabetic nephropathy; n (%)	5,201 (37.2%)	5,712 (28.2%)	9.0% (8.0%, 10.1%)	3,229 (33.9%)	3,239 (34.0%)	-0.1% (-1.5%, 1.3%)
Diabetes with other ophthalmic complications; n (%)	987 (7.1%)	1,027 (5.1%)	2.0% (1.5%, 2.5%)	580 (6.1%)	593 (6.2%)	-0.1% (-0.8%, 0.6%)
Diabetes with peripheral circulatory disorders; n (%)	4,024 (28.8%)	4,517 (22.3%)	6.5% (5.6%, 7.5%)	2,492 (26.2%)	2,471 (25.9%)	0.2% (-1.0%, 1.5%)
Diabetic foot; n (%)	905 (6.5%)	960 (4.7%)	1.7% (1.2%, 2.2%)	556 (5.8%)	549 (5.8%)	0.1% (-0.6%, 0.7%)
Erectile dysfunction; n (%)	742 (5.3%)	1,149 (5.7%)	-0.4% (-0.9%, 0.1%)	524 (5.5%)	564 (5.9%)	-0.4% (-1.1%, 0.2%)
Hypoglycemia; n (%)	4,402 (31.5%)	5,630 (27.8%)	3.7% (2.7%, 4.7%)	2,862 (30.0%)	2,899 (30.4%)	-0.4% (-1.7%, 0.9%)
Hyperglycemia/DKA/HONK; n (%)	8,731 (62.5%)	10,893 (53.8%)	8.7% (7.7%, 9.8%)	5,643 (59.2%)	5,744 (60.3%)	-1.1% (-2.5%, 0.3%)
Skin infections; n (%)	1,931 (13.8%)	2,648 (13.1%)	0.8% (0.0%, 1.5%)	1,269 (13.3%)	1,317 (13.8%)	-0.5% (-1.5%, 0.5%)
Stable angina; n (%)	1,649 (11.8%)	2,452 (12.1%)	-0.3% (-1.0%, 0.4%)	1,128 (11.8%)	1,165 (12.2%)	-0.4% (-1.3%, 0.5%)
Unstable angina; n (%)	734 (5.3%)	1,074 (5.3%)	-0.0% (-0.5%, 0.4%)	512 (5.4%)	505 (5.3%)	0.1% (-0.6%, 0.7%)
Hypertension; n (%)	13,207 (94.5%)	18,911 (93.3%)	1.2% (0.7%, 1.7%)	8,962 (94.1%)	8,962 (94.1%)	0.0% (-0.7%, 0.7%)
Hypotension; n (%)	890 (6.4%)	958 (4.7%)	1.6% (1.1%, 2.1%)	525 (5.5%)	543 (5.7%)	-0.2% (-0.9%, 0.5%)
Hyperlipidemia; n (%)	12,648 (90.5%)	18,288 (90.3%)	0.3% (-0.4%, 0.9%)	8,597 (90.3%)	8,591 (90.2%)	0.1% (-0.8%, 0.9%)
Atrial fibrillation; n (%)	2,416 (17.3%)	3,439 (17.0%)	0.3% (-0.5%, 1.1%)	1,619 (17.0%)	1,597 (16.8%)	0.2% (-0.8%, 1.3%)
Cardiac conduction disorder; n (%)	1,524 (10.9%)	1,966 (9.7%)	1.2% (0.5%, 1.9%)	947 (9.9%)	966 (10.1%)	-0.2% (-1.1%, 0.7%)
Previous cardiac procedure (CABG, PTCA, Stent); n (%)	498 (3.6%)	667 (3.3%)	0.3% (-0.1%, 0.7%)	329 (3.5%)	340 (3.6%)	-0.1% (-0.6%, 0.4%)
Ischemic stroke; n (%)	262 (1.9%)	213 (1.1%)	0.8% (0.6%, 1.1%)	136 (1.4%)	147 (1.5%)	-0.1% (-0.5%, 0.2%)
PVD diagnosis or surgery; n (%)	3,769 (27.0%)	4,719 (23.3%)	3.7% (2.7%, 4.6%)	2,423 (25.4%)	2,401 (25.2%)	0.2% (-1.0%, 1.5%)
Other cardiac dysrhythmia; n (%)	6,097 (30.2%)	6,097 (30.1%)	0.1% (-0.9%, 1.1%)	2,780 (29.2%)	2,803 (29.4%)	-0.2% (-1.5%, 1.1%)
Cardiomyopathy; n (%)	1,509 (10.8%)	1,849 (9.1%)	1.7% (1.0%, 2.3%)	931 (9.8%)	962 (10.1%)	-0.3% (-1.2%, 0.5%)
Valve disorders; n (%)	2,716 (19.4%)	3,780 (18.7%)	0.8% (-0.1%, 1.6%)	1,800 (18.9%)	1,830 (19.2%)	-0.3% (-1.4%, 0.8%)
Valve replacement; n (%)	344 (2.5%)	465 (2.3%)	0.2% (-0.2%, 0.5%)	228 (2.4%)	230 (2.4%)	-0.0% (-0.5%, 0.4%)
TIA; n (%)	585 (4.2%)	676 (3.3%)	0.9% (0.4%, 1.3%)	348 (3.7%)	359 (3.8%)	-0.1% (-0.7%, 0.4%)
Edema; n (%)	2,873 (20.6%)	3,971 (19.6%)	1.0% (0.1%, 1.8%)	1,860 (19.5%)	1,892 (19.9%)	-0.3% (-1.5%, 0.8%)
Venous thromboembolism / Pulmonary embolism; n (%)	721 (5.2%)	978 (4.8%)	0.3% (-0.1%, 0.8%)	458 (4.8%)	451 (4.7%)	0.1% (-0.5%, 0.7%)
Pulmonary hypertension; n (%)	692 (5.0%)	971 (4.8%)	0.2% (-0.3%, 0.6%)	455 (4.8%)	453 (4.8%)	0.0% (-0.6%, 0.6%)
Implantable cardioverter defibrillator; n (%)	89 (0.6%)	115 (0.6%)	0.1% (-0.1%, 0.2%)	66 (0.7%)	64 (0.7%)	0.0% (-0.2%, 0.3%)

Hyperkalemia; n (%)	877 (6.3%)	845 (4.2%)	2.1% (1.6%, 2.6%)	488 (5.1%)	492 (5.2%)	-0.0% (-0.7%, 0.6%)
Coronary atherosclerosis; n (%)	6,364 (45.6%)	8,807 (43.5%)	2.1% (1.0%, 3.2%)	4,260 (44.7%)	4,310 (45.2%)	-0.5% (-1.9%, 0.9%)
Cerebrovascular procedure; n (%)	50 (0.4%)	40 (0.2%)	0.2% (0.0%, 0.3%)	26 (0.3%)	30 (0.3%)	-0.0% (-0.2%, 0.1%)
Insertion of pacemakers / removal of cardiac lead; n (%)	45 (0.3%)	63 (0.3%)	0.0% (-0.1%, 0.1%)	31 (0.3%)	22 (0.2%)	0.1% (-0.1%, 0.3%)
CKD Stage 1-2; n (%)	1,155 (8.3%)	1,466 (7.2%)	1.0% (0.4%, 1.6%)	760 (8.0%)	781 (8.2%)	-0.2% (-1.0%, 0.6%)
CKD Stage 3-4; n (%)	4,124 (29.5%)	4,550 (22.5%)	7.1% (6.1%, 8.0%)	2,545 (26.7%)	2,539 (26.7%)	0.1% (-1.2%, 1.3%)
Unspecified CKD; n (%)	1,828 (13.1%)	1,831 (9.0%)	4.0% (3.4%, 4.7%)	1,077 (11.3%)	1,080 (11.3%)	-0.0% (-0.9%, 0.9%)
Acute kidney injury; n (%)	1,815 (13.0%)	1,747 (8.6%)	4.4% (3.7%, 5.1%)	1,033 (10.8%)	1,032 (10.8%)	0.0% (-0.9%, 0.9%)
Hypertensive nephropathy; n (%)	3,494 (25.0%)	3,802 (18.8%)	6.2% (5.3%, 7.2%)	2,133 (22.4%)	2,108 (22.1%)	0.3% (-0.9%, 1.5%)
Urinary tract infections; n (%)	2,597 (18.6%)	3,413 (16.8%)	1.7% (0.9%, 2.6%)	1,639 (17.2%)	1,651 (17.3%)	-0.1% (-1.2%, 1.0%)
Genital infections; n (%)	479 (3.4%)	522 (2.6%)	0.9% (0.5%, 1.2%)	287 (3.0%)	289 (3.0%)	-0.0% (-0.5%, 0.5%)
Urolithiasis (Kidney and urinary stone); n (%)	703 (5.0%)	1,085 (5.4%)	-0.3% (-0.8%, 0.2%)	460 (4.8%)	481 (5.0%)	-0.2% (-0.8%, 0.4%)
COPD; n (%)	2,827 (20.2%)	3,648 (18.0%)	2.2% (1.4%, 3.1%)	1,811 (19.0%)	1,840 (19.3%)	-0.3% (-1.4%, 0.8%)
Asthma; n (%)	1,646 (11.8%)	2,760 (13.6%)	-1.8% (-2.6%, -1.1%)	1,163 (12.2%)	1,195 (12.5%)	-0.3% (-1.3%, 0.6%)
Obstructive sleep apnea; n (%)	4,591 (32.9%)	8,250 (40.7%)	-7.9% (-8.9%, -6.8%)	3,369 (35.4%)	3,363 (35.3%)	0.1% (-1.3%, 1.4%)
Serious bacterial infections; n (%)	737 (5.3%)	711 (3.5%)	1.8% (1.3%, 2.2%)	388 (4.1%)	404 (4.2%)	-0.2% (-0.7%, 0.4%)
Pneumonia; n (%)	1,089 (7.8%)	1,152 (5.7%)	2.1% (1.6%, 2.7%)	598 (6.3%)	611 (6.4%)	-0.1% (-0.8%, 0.6%)
Liver disease; n (%)	2,680 (19.2%)	3,932 (19.4%)	-0.2% (-1.1%, 0.6%)	1,781 (18.7%)	1,791 (18.8%)	-0.1% (-1.2%, 1.0%)
MASH/MASLD; n (%)	1,113 (8.0%)	2,040 (10.1%)	-2.1% (-2.7%, -1.5%)	815 (8.6%)	820 (8.6%)	-0.1% (-0.9%, 0.8%)
Fractures / Falls; n (%)	1,237 (8.9%)	1,358 (6.7%)	2.2% (1.6%, 2.7%)	724 (7.6%)	749 (7.9%)	-0.3% (-1.0%, 0.5%)
Osteoporosis; n (%)	896 (6.4%)	1,117 (5.5%)	0.9% (0.4%, 1.4%)	583 (6.1%)	580 (6.1%)	0.0% (-0.7%, 0.7%)
Osteoarthritis; n (%)	4,825 (34.5%)	7,132 (35.2%)	-0.7% (-1.7%, 0.4%)	3,286 (34.5%)	3,274 (34.4%)	0.1% (-1.2%, 1.5%)
Depression; n (%)	3,470 (24.8%)	4,496 (22.2%)	2.7% (1.7%, 3.6%)	2,199 (23.1%)	2,230 (23.4%)	-0.3% (-1.5%, 0.9%)
Dementia; n (%)	1,295 (9.3%)	976 (4.8%)	4.5% (3.9%, 5.0%)	629 (6.6%)	625 (6.6%)	0.0% (-0.7%, 0.8%)
Delirium or psychosis; n (%)	402 (2.9%)	303 (1.5%)	1.4% (1.1%, 1.7%)	204 (2.1%)	195 (2.0%)	0.1% (-0.3%, 0.5%)
Anxiety; n (%)	3,037 (21.7%)	4,782 (23.6%)	-1.9% (-2.8%, -1.0%)	2,079 (21.8%)	2,112 (22.2%)	-0.3% (-1.5%, 0.8%)
Sleep disorders; n (%)	5,422 (38.8%)	8,113 (40.0%)	-1.2% (-2.3%, -0.2%)	3,661 (38.4%)	3,711 (39.0%)	-0.5% (-1.9%, 0.9%)
Anemia; n (%)	3,828 (27.4%)	4,932 (24.3%)	3.1% (2.1%, 4.0%)	2,457 (25.8%)	2,455 (25.8%)	0.0% (-1.2%, 1.3%)
Influenza; n (%)	252 (1.8%)	381 (1.9%)	-0.1% (-0.4%, 0.2%)	177 (1.9%)	175 (1.8%)	0.0% (-0.4%, 0.4%)
COVID; n (%)	1,860 (13.3%)	2,345 (11.6%)	1.7% (1.0%, 2.5%)	1,144 (12.0%)	1,143 (12.0%)	0.0% (-0.9%, 0.9%)
Hyperthyroidism and other thyroid gland disorders; n (%)	4,034 (28.9%)	6,266 (30.9%)	-2.0% (-3.0%, -1.1%)	2,758 (29.0%)	2,808 (29.5%)	-0.5% (-1.8%, 0.8%)
Hypothyroidism; n (%)	3,264 (23.4%)	4,979 (24.6%)	-1.2% (-2.1%, -0.3%)	2,227 (23.4%)	2,239 (23.5%)	-0.1% (-1.3%, 1.1%)
Nephrotic syndrome; n (%)	27 (0.2%)	27 (0.1%)	0.1% (-0.0%, 0.2%)	15 (0.2%)	19 (0.2%)	-0.0% (-0.2%, 0.1%)
Urinary incontinence; n (%)	1,224 (8.8%)	1,486 (7.3%)	1.4% (0.8%, 2.0%)	760 (8.0%)	782 (8.2%)	-0.2% (-1.0%, 0.6%)
Biliary disease; n (%)	27 (0.2%)	26 (0.1%)	0.1% (-0.0%, 0.2%)	17 (0.2%)	18 (0.2%)	-0.0% (-0.1%, 0.1%)
Pancreatitis; n (%)	10 (0.1%)	10 (0.0%)	0.0% (-0.0%, 0.1%)	6 (0.1%)	6 (0.1%)	0.0% (-0.1%, 0.1%)
Bowel obstruction; n (%)	24 (0.2%)	39 (0.2%)	-0.0% (-0.1%, 0.1%)	17 (0.2%)	22 (0.2%)	-0.1% (-0.2%, 0.1%)
Gastroparesis; n (%)	181 (1.3%)	217 (1.1%)	0.2% (-0.0%, 0.5%)	108 (1.1%)	113 (1.2%)	-0.1% (-0.4%, 0.3%)
Number of antidiabetic drugs on CED						
...mean (sd)	2.39 (1.00)	2.14 (0.99)	0.25 (0.23, 0.27)	2.31 (0.99)	2.31 (1.02)	-0.01 (-0.04, 0.02)
...median [IQR]	2.00 [2.00, 3.00]	2.00 [1.00, 3.00]	- (-, -)	2.00 [2.00, 3.00]	2.00 [2.00, 3.00]	- (-, -)
...min, max	1.00, 7.00	1.00, 7.00	- (-, -)	1.00, 7.00	1.00, 7.00	- (-, -)
Concomitant use or initiation of Metformin; n (%)	6,322 (45.3%)	8,597 (42.4%)	2.8% (1.8%, 3.9%)	4,267 (44.8%)	4,268 (44.8%)	-0.0% (-1.4%, 1.4%)
Concomitant use or initiation of Insulins; n (%)	4,659 (33.4%)	4,855 (24.0%)	9.4% (8.4%, 10.4%)	2,816 (29.6%)	2,887 (30.3%)	-0.7% (-2.1%, 0.6%)
Concomitant use or initiation of Sulfonylureas; n (%)	3,225 (23.1%)	3,076 (15.2%)	7.9% (7.0%, 8.8%)	1,929 (20.3%)	1,961 (20.6%)	-0.3% (-1.5%, 0.8%)
Concomitant use or initiation of DPP-4i; n (%)	1,147 (8.2%)	1,256 (6.2%)	2.0% (1.4%, 2.6%)	681 (7.1%)	663 (7.0%)	0.2% (-0.5%, 0.9%)
Concomitant use or initiation of SGLT-2i; n (%)	3,167 (22.7%)	4,141 (20.4%)	2.2% (1.3%, 3.1%)	2,157 (22.6%)	2,145 (22.5%)	0.1% (-1.1%, 1.3%)
Concomitant use or initiation of Any other glucose-lowering drugs; n (%)	879 (6.3%)	1,205 (5.9%)	0.3% (-0.2%, 0.9%)	593 (6.2%)	599 (6.3%)	-0.1% (-0.8%, 0.6%)
Past use of Metformin; n (%)	8,549 (61.2%)	11,782 (58.1%)	3.1% (2.0%, 4.1%)	5,756 (60.4%)	5,743 (60.3%)	0.1% (-1.3%, 1.5%)
Past use of Insulins; n (%)	6,082 (43.5%)	6,333 (31.3%)	12.3% (11.2%, 13.3%)	3,690 (38.7%)	3,754 (39.4%)	-0.7% (-2.1%, 0.7%)
Past use of Sulfonylureas; n (%)	4,475 (32.0%)	4,483 (22.1%)	9.9% (8.9%, 10.9%)	2,729 (28.7%)	2,772 (29.1%)	-0.5% (-1.7%, 0.8%)
Past use of DPP-4i; n (%)	1,790 (12.8%)	1,961 (9.7%)	3.1% (2.4%, 3.8%)	1,060 (11.1%)	1,052 (11.0%)	0.1% (-0.8%, 1.0%)
Past use of SGLT-2i; n (%)	4,480 (32.1%)	5,757 (28.4%)	3.7% (2.7%, 4.7%)	3,014 (31.6%)	2,991 (31.4%)	0.2% (-1.1%, 1.6%)
Past use of Any other glucose-lowering drugs; n (%)	1,344 (9.6%)	1,757 (8.7%)	0.9% (0.3%, 1.6%)	893 (9.4%)	904 (9.5%)	-0.1% (-0.2%, 0.7%)
ACE-is/ARB's; n (%)	10,492 (75.1%)	14,817 (73.1%)	2.0% (1.0%, 2.9%)	7,111 (74.7%)	7,102 (74.6%)	0.1% (-1.2%, 1.3%)
ARNi; n (%)	474 (3.4%)	773 (3.8%)	-0.4% (-0.8%, -0.0%)	350 (3.7%)	354 (3.7%)	-0.0% (-0.6%, 0.5%)
Thiazides; n (%)	4,386 (31.4%)	6,881 (34.0%)	-2.6% (-3.6%, -1.5%)	3,068 (32.2%)	3,028 (31.8%)	0.4% (-0.9%, 1.8%)
Beta-blockers; n (%)	8,625 (61.7%)	11,807 (58.3%)	3.5% (2.4%, 4.5%)	5,764 (60.5%)	5,765 (60.5%)	-0.0% (-1.4%, 1.4%)
Calcium channel blockers; n (%)	5,569 (39.9%)	7,505 (37.0%)	2.8% (1.8%, 3.9%)	3,674 (38.6%)	3,723 (39.1%)	-0.5% (-1.9%, 0.9%)
Digoxin / Digitoxin; n (%)	165 (1.2%)	182 (0.9%)	0.3% (0.1%, 0.5%)	96 (1.0%)	92 (1.0%)	0.0% (-0.2%, 0.3%)
Loop diuretics; n (%)	4,225 (30.2%)	5,742 (28.3%)	1.9% (0.9%, 2.9%)	2,780 (29.2%)	2,772 (29.1%)	0.1% (-1.2%, 1.4%)
Other diuretics; n (%)	1,631 (11.7%)	2,493 (12.3%)	-0.6% (-1.3%, 0.1%)	1,144 (12.0%)	1,134 (11.9%)	0.1% (-0.8%, 1.0%)

Intravenous diuretics; n (%)	343 (2.5%)	450 (2.2%)	0.2% (-0.1%, 0.6%)	232 (2.4%)	231 (2.4%)	0.0% (-0.4%, 0.5%)
Nitrates; n (%)	2,066 (14.8%)	2,667 (13.2%)	1.6% (0.9%, 2.4%)	1,354 (14.2%)	1,369 (14.4%)	-0.2% (-1.2%, 0.8%)
Anti-arrhythmics; n (%)	508 (3.6%)	850 (4.2%)	-0.6% (-1.0%, -0.1%)	351 (3.7%)	361 (3.8%)	-0.1% (-0.7%, 0.4%)
Statins; n (%)	12,221 (87.5%)	16,727 (82.5%)	4.9% (4.2%, 5.7%)	8,183 (85.9%)	8,206 (86.2%)	-0.2% (-1.2%, 0.8%)
PCSK9 inhibitors and other lipid-lowering drugs; n (%)	2,428 (17.4%)	3,905 (19.3%)	-1.9% (-2.7%, -1.1%)	1,737 (18.2%)	1,772 (18.6%)	-0.4% (-1.5%, 0.7%)
Antiplatelet medications; n (%)	3,199 (22.9%)	4,204 (20.7%)	2.2% (1.3%, 3.1%)	2,098 (22.0%)	2,119 (22.2%)	-0.2% (-1.4%, 1.0%)
Oral anticoagulants; n (%)	2,428 (17.4%)	3,374 (16.7%)	0.7% (-0.1%, 1.5%)	1,589 (16.7%)	1,571 (16.5%)	0.2% (-0.9%, 1.3%)
COPD/Asthma medications; n (%)	5,367 (38.4%)	8,430 (41.6%)	-3.2% (-4.2%, -2.1%)	3,762 (39.5%)	3,769 (39.6%)	-0.1% (-1.5%, 1.3%)
NSAIDs; n (%)	3,989 (28.6%)	6,317 (31.2%)	-2.6% (-3.6%, -1.6%)	2,793 (29.3%)	2,770 (29.1%)	0.2% (-1.1%, 1.5%)
Oral corticosteroids; n (%)	3,202 (22.9%)	5,850 (28.9%)	-5.9% (-6.9%, -5.0%)	2,347 (24.6%)	2,327 (24.4%)	0.2% (-1.0%, 1.4%)
Osteoporosis agents (incl. bisphosphonates); n (%)	520 (3.7%)	663 (3.3%)	0.5% (0.0%, 0.9%)	332 (3.5%)	343 (3.6%)	-0.1% (-0.7%, 0.4%)
Opioids; n (%)	3,569 (25.5%)	5,416 (26.7%)	-1.2% (-2.1%, -0.2%)	2,483 (26.1%)	2,473 (26.0%)	0.1% (-1.2%, 1.4%)
Anti-depressants; n (%)	5,785 (41.4%)	8,545 (42.2%)	-0.8% (-1.8%, 0.3%)	3,930 (41.3%)	3,942 (41.4%)	-0.1% (-1.5%, 1.3%)
Antipsychotics; n (%)	800 (5.7%)	935 (4.6%)	1.1% (0.6%, 1.6%)	479 (5.0%)	479 (5.0%)	0.0% (-0.6%, 0.6%)
Anxiolytics / hypnotics, benzos; n (%)	2,785 (19.9%)	4,920 (24.3%)	-4.3% (-5.2%, -3.5%)	2,015 (21.2%)	2,046 (21.5%)	-0.3% (-1.5%, 0.8%)
Dementia medications; n (%)	524 (3.8%)	410 (2.0%)	1.7% (1.4%, 2.1%)	262 (2.8%)	274 (2.9%)	-0.1% (-0.6%, 0.4%)
Urinary tract infections antibiotics; n (%)	6,916 (49.5%)	10,578 (52.2%)	-2.7% (-3.8%, -1.6%)	4,761 (50.0%)	4,749 (49.9%)	0.1% (-1.3%, 1.6%)
Laxatives; n (%)	595 (4.3%)	808 (4.0%)	0.3% (-0.2%, 0.7%)	393 (4.1%)	392 (4.1%)	0.0% (-0.6%, 0.6%)
Number of distinct medications						
...mean (sd)	16.99 (7.03)	16.34 (7.03)	0.65 (0.50, 0.80)	16.70 (7.01)	16.74 (6.99)	-0.04 (-0.24, 0.16)
...median [IQR]	16.00 [12.00, 21.00]	15.00 [11.00, 20.00]	- (-, -)	16.00 [12.00, 21.00]	16.00 [12.00, 21.00]	- (-, -)
...min, max	1.00, 64.00	1.00, 61.00	- (-, -)	1.00, 59.00	1.00, 61.00	- (-, -)
Number of office visits						
...mean (sd)	11.31 (7.61)	11.86 (7.62)	-0.55 (-0.72, -0.39)	11.50 (7.72)	11.52 (7.32)	-0.02 (-0.23, 0.20)
...median [IQR]	10.00 [6.00, 15.00]	10.00 [6.00, 16.00]	- (-, -)	10.00 [6.00, 15.00]	10.00 [6.00, 15.00]	- (-, -)
...min, max	0.00, 96.00	0.00, 80.00	- (-, -)	0.00, 75.00	0.00, 80.00	- (-, -)
Number of endocrinologist visits						
...mean (sd)	0.63 (1.74)	0.55 (1.52)	0.08 (0.04, 0.12)	0.61 (1.72)	0.59 (1.60)	0.01 (-0.03, 0.06)
...median [IQR]	0.00 [0.00, 0.00]	0.00 [0.00, 0.00]	- (-, -)	0.00 [0.00, 0.00]	0.00 [0.00, 0.00]	- (-, -)
...min, max	0.00, 38.00	0.00, 36.00	- (-, -)	0.00, 38.00	0.00, 29.00	- (-, -)
Number of cardiologist visits						
...mean (sd)	2.70 (4.57)	2.75 (4.24)	-0.05 (-0.15, 0.04)	2.69 (4.59)	2.73 (4.32)	-0.04 (-0.17, 0.08)
...median [IQR]	1.00 [0.00, 4.00]	1.00 [0.00, 4.00]	- (-, -)	1.00 [0.00, 4.00]	1.00 [0.00, 4.00]	- (-, -)
...min, max	0.00, 90.00	0.00, 67.00	- (-, -)	0.00, 90.00	0.00, 67.00	- (-, -)
Number of internal/family medicine visits						
...mean (sd)	10.10 (11.87)	8.26 (8.93)	1.84 (1.61, 2.07)	9.07 (10.24)	9.13 (10.06)	-0.06 (-0.35, 0.22)
...median [IQR]	6.00 [3.00, 12.00]	6.00 [3.00, 10.00]	- (-, -)	6.00 [3.00, 11.00]	6.00 [3.00, 11.00]	- (-, -)
...min, max	0.00, 281.00	0.00, 146.00	- (-, -)	0.00, 156.00	0.00, 146.00	- (-, -)
Number of electrocardiograms (ECG/EKG)						
...mean (sd)	1.48 (2.25)	1.41 (1.96)	0.07 (0.03, 0.12)	1.43 (2.25)	1.43 (1.93)	0.00 (-0.06, 0.06)
...median [IQR]	1.00 [0.00, 2.00]	1.00 [0.00, 2.00]	- (-, -)	1.00 [0.00, 2.00]	1.00 [0.00, 2.00]	- (-, -)
...min, max	0.00, 100.00	0.00, 59.00	- (-, -)	0.00, 100.00	0.00, 49.00	- (-, -)
Number of echocardiograms						
...mean (sd)	0.47 (0.85)	0.46 (0.75)	0.01 (-0.01, 0.03)	0.46 (0.85)	0.47 (0.75)	-0.01 (-0.03, 0.01)
...median [IQR]	0.00 [0.00, 1.00]	0.00 [0.00, 1.00]	- (-, -)	0.00 [0.00, 1.00]	0.00 [0.00, 1.00]	- (-, -)
...min, max	0.00, 33.00	0.00, 9.00	- (-, -)	0.00, 33.00	0.00, 9.00	- (-, -)
Out-of-pocket medication cost						
...mean (sd)	697.86 (897.38)	703.26 (992.89)	-5.40 (-25.61, 14.81)	698.58 (924.58)	700.52 (793.05)	-1.95 (-26.41, 22.52)
...median [IQR]	381.83 [126.64, 982.81]	422.78 [150.35, 971.64]	- (-, -)	387.10 [130.20, 974.48]	420.00 [147.87, 986.68]	- (-, -)
...min, max	0.00, 19,723.93	0.00, 81,633.89	- (-, -)	0.00, 19,723.93	0.00, 13,088.53	- (-, -)
Unique brand medicines						
...mean (sd)	17.36 (7.33)	16.62 (7.26)	0.74 (0.58, 0.90)	17.02 (7.28)	17.07 (7.26)	-0.04 (-0.25, 0.16)
...median [IQR]	16.00 [12.00, 21.00]	16.00 [11.00, 21.00]	- (-, -)	16.00 [12.00, 21.00]	16.00 [12.00, 21.00]	- (-, -)
...min, max	1.00, 66.00	1.00, 64.00	- (-, -)	1.00, 60.00	1.00, 64.00	- (-, -)
Unique generic medicines						
...mean (sd)	16.99 (7.03)	16.34 (7.03)	0.65 (0.50, 0.80)	16.70 (7.01)	16.74 (6.99)	-0.04 (-0.24, 0.16)
...median [IQR]	16.00 [12.00, 21.00]	15.00 [11.00, 20.00]	- (-, -)	16.00 [12.00, 21.00]	16.00 [12.00, 21.00]	- (-, -)
...min, max	1.00, 64.00	1.00, 61.00	- (-, -)	1.00, 59.00	1.00, 61.00	- (-, -)
Colonoscopy Sigmoidoscopy; n (%)	1,453 (10.4%)	2,364 (11.7%)	-1.3% (-1.9%, -0.6%)	1,034 (10.9%)	1,026 (10.8%)	0.1% (-0.8%, 1.0%)
Flu Pneumococcal vaccine; n (%)	5,059 (36.2%)	6,428 (31.7%)	4.5% (3.5%, 5.5%)	3,285 (34.5%)	3,305 (34.7%)	-0.2% (-1.6%, 1.2%)
Pap smear; n (%)	505 (3.6%)	1,096 (5.4%)	-1.8% (-2.2%, -1.3%)	385 (4.0%)	395 (4.1%)	-0.1% (-0.7%, 0.5%)

PSA test; n (%)	3,312 (23.7%)	5,402 (26.7%)	-3.0% (-3.9%, -2.0%)	2,373 (24.9%)	2,408 (25.3%)	-0.4% (-1.6%, 0.9%)
Fecal occult blood test; n (%)	724 (5.2%)	877 (4.3%)	0.9% (0.4%, 1.3%)	441 (4.6%)	464 (4.9%)	-0.2% (-0.9%, 0.4%)
Bone mineral density tests; n (%)	1,132 (8.1%)	1,800 (8.9%)	-0.8% (-1.4%, -0.2%)	791 (8.3%)	813 (8.5%)	-0.2% (-1.0%, 0.6%)
Mammograms; n (%)	3,012 (21.6%)	5,293 (26.1%)	-4.6% (-5.5%, -3.6%)	2,215 (23.3%)	2,192 (23.0%)	0.2% (-1.0%, 1.4%)
Telemedicine; n (%)	3,299 (23.6%)	4,875 (24.1%)	-0.4% (-1.4%, 0.5%)	2,167 (22.8%)	2,165 (22.7%)	0.0% (-1.2%, 1.2%)
HbA1c tests						
...mean (sd)	2.63 (1.40)	2.47 (1.40)	0.16 (0.13, 0.19)	2.58 (1.38)	2.58 (1.45)	0.00 (-0.04, 0.04)
...median [IQR]	3.00 [2.00, 3.00]	2.00 [2.00, 3.00]	- (-, -)	3.00 [2.00, 3.00]	3.00 [2.00, 3.00]	- (-, -)
...min, max	0.00, 24.00	0.00, 44.00	- (-, -)	0.00, 24.00	0.00, 44.00	- (-, -)
Lipid panels						
...mean (sd)	1.71 (1.25)	1.81 (1.27)	-0.10 (-0.12, -0.07)	1.74 (1.25)	1.76 (1.25)	-0.01 (-0.05, 0.02)
...median [IQR]	2.00 [1.00, 2.00]	2.00 [1.00, 3.00]	- (-, -)	2.00 [1.00, 2.00]	2.00 [1.00, 2.00]	- (-, -)
...min, max	0.00, 15.00	0.00, 26.00	- (-, -)	0.00, 12.00	0.00, 11.00	- (-, -)
Creatinine tests						
...mean (sd)	3.93 (4.17)	3.55 (3.47)	0.38 (0.30, 0.47)	3.78 (3.88)	3.74 (3.96)	0.04 (-0.07, 0.16)
...median [IQR]	3.00 [2.00, 5.00]	3.00 [2.00, 5.00]	- (-, -)	3.00 [2.00, 5.00]	3.00 [2.00, 5.00]	- (-, -)
...min, max	0.00, 181.00	0.00, 127.00	- (-, -)	0.00, 177.00	0.00, 127.00	- (-, -)
Natriuretic peptide tests						
...mean (sd)	0.29 (0.86)	0.27 (0.83)	0.02 (-0.00, 0.04)	0.28 (0.86)	0.28 (0.79)	0.01 (-0.02, 0.03)
...median [IQR]	0.00 [0.00, 0.00]	0.00 [0.00, 0.00]	- (-, -)	0.00 [0.00, 0.00]	0.00 [0.00, 0.00]	- (-, -)
...min, max	0.00, 28.00	0.00, 28.00	- (-, -)	0.00, 28.00	0.00, 15.00	- (-, -)
Urine tests						
...mean (sd)	1.31 (1.89)	1.30 (1.84)	0.01 (-0.03, 0.05)	1.28 (1.89)	1.30 (1.84)	-0.01 (-0.07, 0.04)
...median [IQR]	1.00 [0.00, 2.00]	1.00 [0.00, 2.00]	- (-, -)	1.00 [0.00, 2.00]	1.00 [0.00, 2.00]	- (-, -)
...min, max	0.00, 34.00	0.00, 24.00	- (-, -)	0.00, 34.00	0.00, 23.00	- (-, -)
Combined comorbidity score						
...mean (sd)	3.56 (2.91)	2.99 (2.68)	0.57 (0.51, 0.64)	3.27 (2.72)	3.29 (2.80)	-0.02 (-0.10, 0.06)
...median [IQR]	3.00 [1.00, 5.00]	2.00 [1.00, 5.00]	- (-, -)	3.00 [1.00, 5.00]	3.00 [1.00, 5.00]	- (-, -)
...min, max	-1.00, 20.00	-2.00, 21.00	- (-, -)	-1.00, 17.00	-2.00, 21.00	- (-, -)
Frailty Score						
...mean (sd)	0.20 (0.07)	0.19 (0.06)	0.01 (0.01, 0.01)	0.19 (0.06)	0.19 (0.06)	-0.00 (-0.00, 0.00)
...median [IQR]	0.19 [0.15, 0.23]	0.18 [0.15, 0.22]	- (-, -)	0.18 [0.15, 0.22]	0.18 [0.15, 0.22]	- (-, -)
...min, max	0.06, 0.57	0.06, 0.61	- (-, -)	0.06, 0.54	0.06, 0.61	- (-, -)
Number of Hospitalizations						
...mean (sd)	0.38 (0.97)	0.25 (0.70)	0.13 (0.12, 0.15)	0.30 (0.82)	0.31 (0.80)	-0.00 (-0.03, 0.02)
...median [IQR]	0.00 [0.00, 0.00]	0.00 [0.00, 0.00]	- (-, -)	0.00 [0.00, 0.00]	0.00 [0.00, 0.00]	- (-, -)
...min, max	0.00, 17.00	0.00, 12.00	- (-, -)	0.00, 15.00	0.00, 12.00	- (-, -)
Any hospitalization within prior 91 days; n (%)	986 (7.1%)	855 (4.2%)	2.8% (2.3%, 3.4%)	522 (5.5%)	520 (5.5%)	0.0% (-0.6%, 0.7%)
Any hospitalization within prior 92-365 days; n (%)	2,508 (18.0%)	2,773 (13.7%)	4.3% (3.5%, 5.1%)	1,466 (15.4%)	1,504 (15.8%)	-0.4% (-1.4%, 0.6%)
Number of hospitalizations (0, 1, 2 or more)						
...< 1; n (%)	10,923 (78.2%)	17,004 (83.9%)	-5.7% (-6.6%, -4.9%)	7,755 (81.4%)	7,726 (81.1%)	0.3% (-0.8%, 1.4%)
...1 - <2; n (%)	1,900 (13.6%)	2,235 (11.0%)	2.6% (1.9%, 3.3%)	1,171 (12.3%)	1,185 (12.4%)	-0.1% (-1.1%, 0.8%)
...>= 2; n (%)	1,147 (8.2%)	1,024 (5.1%)	3.2% (2.6%, 3.7%)	599 (6.3%)	614 (6.4%)	-0.2% (-0.9%, 0.5%)
Heart failure hospitalization; n (%)	1,013 (7.3%)	1,059 (5.2%)	2.0% (1.5%, 2.6%)	592 (6.2%)	591 (6.2%)	0.0% (-0.7%, 0.7%)
ED visit; n (%)	5,921 (42.4%)	7,218 (35.6%)	6.8% (5.7%, 7.8%)	3,741 (39.3%)	3,779 (39.7%)	-0.4% (-1.8%, 1.0%)
Acute MI; n (%)	340 (2.4%)	388 (1.9%)	0.5% (0.2%, 0.8%)	204 (2.1%)	198 (2.1%)	0.1% (-0.4%, 0.5%)
Old MI; n (%)	1,672 (12.0%)	1,938 (9.6%)	2.4% (1.7%, 3.1%)	1,028 (10.8%)	1,059 (11.1%)	-0.3% (-1.2%, 0.6%)
Heart failure; n (%)	3,768 (27.0%)	4,852 (23.9%)	3.0% (2.1%, 4.0%)	2,398 (25.2%)	2,428 (25.5%)	-0.3% (-1.6%, 0.9%)
Acute heart failure; n (%)	926 (6.6%)	1,032 (5.1%)	1.5% (1.0%, 2.1%)	558 (5.9%)	564 (5.9%)	-0.1% (-0.7%, 0.6%)
Microalbuminuria or proteinuria; n (%)	1,309 (9.4%)	1,586 (7.8%)	1.5% (0.9%, 2.2%)	867 (9.1%)	843 (8.9%)	0.3% (-0.6%, 1.1%)
Ratio of brand to generic medications						
...mean (sd)	1.02 (0.04)	1.02 (0.03)	0.00 (0.00, 0.01)	1.02 (0.04)	1.02 (0.04)	-0.00 (-0.00, 0.00)
...median [IQR]	1.00 [1.00, 1.03]	1.00 [1.00, 1.00]	- (-, -)	1.00 [1.00, 1.00]	1.00 [1.00, 1.00]	- (-, -)
...min, max	0.86, 1.46	0.91, 1.40	- (-, -)	0.92, 1.43	0.91, 1.40	- (-, -)

Appendix 7. Balance Assessment - Table 1

MARKETSCAN						
Variable	Reference: Dulaglutide	Exposure: Tirzepatide	Difference	Reference: Dulaglutide	Exposure: Tirzepatide	Difference
Number of patients	5,324	5,114	- (-, -)	3,297	3,297	- (-, -)
Year of Cohort Entry Date						
...2022; n (%)	2,327 (43.7%)	855 (16.7%)	27.0% (25.3%, 28.7%)	788 (23.9%)	812 (24.6%)	-0.7% (-2.8%, 1.4%)
...2023; n (%)	2,997 (56.3%)	4,259 (83.3%)	-27.0% (-28.7%, -25.3%)	2,509 (76.1%)	2,485 (75.4%)	0.7% (-1.4%, 2.8%)
Age						
...mean (sd)	63.74 (10.60)	59.86 (9.36)	3.88 (3.50, 4.26)	61.27 (9.90)	61.28 (9.70)	-0.02 (-0.49, 0.45)
...median [IQR]	63.00 [56.00, 72.00]	59.00 [53.00, 65.00]	- (-, -)	61.00 [54.00, 68.00]	61.00 [55.00, 68.00]	- (-, -)
...min, max	40.00, 95.00	40.00, 96.00	- (-, -)	40.00, 95.00	40.00, 96.00	- (-, -)
Gender (male); n (%)	2,882 (54.1%)	2,537 (49.6%)	4.5% (2.6%, 6.5%)	1,720 (52.2%)	1,712 (51.9%)	0.2% (-2.2%, 2.7%)
Region / State						
...Northeast; n (%)	635 (11.9%)	538 (10.5%)	1.4% (0.2%, 2.6%)	367 (11.1%)	374 (11.3%)	-0.2% (-1.8%, 1.3%)
...Midwest / North central; n (%)	2,215 (41.6%)	1,352 (26.4%)	15.2% (13.4%, 17.0%)	1,100 (33.4%)	1,099 (33.3%)	0.0% (-2.3%, 2.3%)
...South; n (%)	2,179 (40.9%)	2,974 (58.2%)	-17.2% (-19.1%, -15.3%)	1,650 (50.0%)	1,649 (50.0%)	0.0% (-2.4%, 2.5%)
...West; n (%)	289 (5.4%)	244 (4.8%)	0.7% (-0.2%, 1.5%)	176 (5.3%)	171 (5.2%)	0.2% (-1.0%, 1.3%)
...Missing; n (%)	6 (0.1%)	6 (0.1%)	-0.0% (-0.1%, 0.1%)	4 (0.1%)	4 (0.1%)	0.0% (-0.2%, 0.2%)
Smoking / Tobacco use; n (%)	808 (15.2%)	697 (13.6%)	1.5% (0.2%, 2.9%)	466 (14.1%)	481 (14.6%)	-0.5% (-2.2%, 1.3%)
Weight						
...Overweight; n (%)	813 (15.3%)	440 (8.6%)	6.7% (5.4%, 7.9%)	352 (10.7%)	347 (10.5%)	0.2% (-1.4%, 1.7%)
...Class 1 Obesity; n (%)	569 (10.7%)	425 (8.3%)	2.4% (1.2%, 3.5%)	312 (9.5%)	302 (9.2%)	0.3% (-1.1%, 1.7%)
...Class 3 Obesity; n (%)	326 (6.1%)	342 (6.7%)	-0.6% (-1.5%, 0.4%)	223 (6.8%)	220 (6.7%)	0.1% (-1.1%, 1.3%)
...Class 3 Obesity; n (%)	1,205 (22.6%)	990 (19.4%)	3.3% (1.7%, 4.9%)	691 (21.0%)	689 (20.9%)	0.1% (-1.9%, 2.1%)
...Unspecified Obesity; n (%)	2,411 (45.3%)	2,917 (57.0%)	-11.8% (-13.7%, -9.8%)	1,719 (52.1%)	1,739 (52.7%)	-0.6% (-1.9%, 1.8%)
Diabetic retinopathy; n (%)	706 (13.3%)	494 (9.7%)	3.6% (2.4%, 4.8%)	360 (10.9%)	361 (10.9%)	-0.0% (-1.6%, 1.5%)
Diabetic neuropathy; n (%)	1,830 (34.4%)	1,283 (25.1%)	9.3% (7.5%, 11.0%)	966 (29.3%)	953 (28.9%)	0.4% (-1.8%, 2.6%)
Diabetic nephropathy; n (%)	1,327 (24.9%)	837 (16.4%)	8.6% (7.0%, 10.1%)	620 (18.8%)	621 (18.8%)	-0.0% (-1.9%, 1.9%)
Diabetes with other ophthalmic complications; n (%)	152 (2.9%)	114 (2.2%)	0.6% (0.0%, 1.2%)	77 (2.3%)	88 (2.7%)	-0.3% (-1.1%, 0.5%)
Diabetes with peripheral circulatory disorders; n (%)	975 (18.3%)	702 (13.7%)	4.6% (3.2%, 6.0%)	515 (15.6%)	498 (15.1%)	0.5% (-1.3%, 2.3%)
Diabetic foot; n (%)	223 (4.2%)	151 (3.0%)	1.2% (0.5%, 2.0%)	120 (3.6%)	116 (3.5%)	0.1% (-0.8%, 1.0%)
Erectile dysfunction; n (%)	246 (4.6%)	247 (4.8%)	-0.2% (-1.0%, 0.6%)	158 (4.8%)	169 (5.1%)	-0.3% (-1.4%, 0.7%)
Hypoglycemia; n (%)	1,231 (23.1%)	1,038 (20.3%)	2.8% (1.2%, 4.4%)	722 (21.9%)	698 (21.2%)	0.7% (-1.3%, 2.7%)
Hyperglycemia/DKA/HONK; n (%)	3,122 (58.6%)	2,649 (51.8%)	6.8% (4.9%, 8.8%)	1,816 (55.1%)	1,811 (54.9%)	0.2% (-2.3%, 2.6%)
Skin infections; n (%)	680 (12.8%)	585 (11.4%)	1.3% (0.1%, 2.6%)	388 (11.8%)	380 (11.5%)	0.2% (-1.3%, 1.8%)
Stable angina; n (%)	507 (9.5%)	400 (7.8%)	1.7% (0.6%, 2.8%)	274 (8.3%)	288 (8.7%)	-0.4% (-1.8%, 1.0%)
Unstable angina; n (%)	270 (5.1%)	200 (3.9%)	1.2% (0.3%, 2.0%)	144 (4.4%)	145 (4.4%)	-0.0% (-1.0%, 1.0%)
Hypertension; n (%)	4,842 (90.9%)	4,556 (89.1%)	1.9% (0.7%, 3.0%)	2,960 (89.8%)	2,955 (89.6%)	0.2% (-1.3%, 1.6%)
Hypotension; n (%)	211 (4.0%)	104 (2.0%)	1.9% (1.3%, 2.6%)	79 (2.4%)	84 (2.5%)	-0.2% (-0.9%, 0.6%)
Hyperlipidemia; n (%)	4,642 (87.2%)	4,451 (87.0%)	0.2% (-1.2%, 1.5%)	2,859 (86.7%)	2,882 (87.4%)	-0.7% (-2.3%, 1.0%)
Atrial fibrillation; n (%)	755 (14.2%)	556 (10.9%)	3.3% (2.0%, 4.6%)	391 (11.9%)	390 (11.8%)	0.0% (-1.6%, 1.6%)
Cardiac conduction disorder; n (%)	432 (8.1%)	266 (5.2%)	2.9% (1.9%, 3.9%)	191 (5.8%)	197 (6.0%)	-0.2% (-1.3%, 1.0%)
Previous cardiac procedure (CABG, PTCA, Stent); n (%)	220 (4.1%)	155 (3.0%)	1.1% (0.4%, 1.8%)	115 (3.5%)	117 (3.5%)	-0.1% (-1.0%, 0.9%)
Ischemic stroke; n (%)	144 (2.7%)	78 (1.5%)	1.2% (0.6%, 1.7%)	64 (1.9%)	60 (1.8%)	0.1% (-0.6%, 0.8%)
PVD diagnosis or surgery; n (%)	928 (17.4%)	733 (14.3%)	3.1% (1.7%, 4.5%)	507 (15.4%)	519 (15.7%)	-0.4% (-2.1%, 1.4%)
Other cardiac dysrhythmia; n (%)	1,367 (25.7%)	1,202 (23.5%)	2.2% (0.5%, 3.8%)	773 (23.4%)	775 (23.5%)	-0.1% (-2.1%, 2.0%)
Cardiomyopathy; n (%)	452 (8.5%)	339 (6.5%)	1.9% (0.8%, 2.9%)	243 (7.4%)	245 (7.4%)	-0.1% (-1.4%, 1.2%)
Valve disorders; n (%)	796 (15.0%)	622 (12.2%)	2.8% (1.5%, 4.1%)	432 (13.1%)	430 (13.0%)	0.1% (-1.6%, 1.7%)
Valve replacement; n (%)	88 (1.7%)	50 (1.0%)	0.7% (0.2%, 1.1%)	40 (1.2%)	41 (1.2%)	-0.0% (-0.6%, 0.5%)
TIA; n (%)	176 (3.3%)	148 (2.9%)	0.4% (-0.3%, 1.1%)	96 (2.9%)	91 (2.8%)	0.2% (-0.7%, 1.0%)
Edema; n (%)	708 (13.3%)	597 (11.7%)	1.6% (0.3%, 2.9%)	390 (11.8%)	396 (12.0%)	-0.2% (-1.8%, 1.4%)
Venous thromboembolism / Pulmonary embolism; n (%)	229 (4.3%)	172 (3.4%)	0.9% (0.2%, 1.7%)	121 (3.7%)	129 (3.9%)	-0.2% (-1.2%, 0.7%)
Pulmonary hypertension; n (%)	130 (2.4%)	104 (2.0%)	0.4% (-0.2%, 1.0%)	66 (2.0%)	60 (1.8%)	0.2% (-0.5%, 0.9%)
Implantable cardioverter defibrillator; n (%)	37 (0.7%)	20 (0.4%)	0.3% (0.0%, 0.6%)	17 (0.5%)	15 (0.5%)	0.1% (-0.3%, 0.4%)
Hyperkalemia; n (%)	180 (3.4%)	82 (1.6%)	1.8% (1.2%, 2.4%)	66 (2.0%)	63 (1.9%)	0.1% (-0.6%, 0.8%)
Coronary atherosclerosis; n (%)	2,104 (39.5%)	1,695 (33.1%)	6.4% (4.5%, 8.2%)	1,182 (35.9%)	1,174 (35.6%)	0.2% (-1.9%, 2.6%)
Cerebrovascular procedure; n (%)	11 (0.2%)	7 (0.1%)	0.1% (-0.1%, 0.2%)	5 (0.2%)	5 (0.2%)	0.0% (-0.2%, 0.2%)
Insertion of pacemakers / removal of cardiac lead; n (%)	15 (0.3%)	2 (0.0%)	0.2% (0.1%, 0.4%)	4 (0.1%)	2 (0.1%)	0.1% (-0.1%, 0.2%)
CKD stage 1-2; n (%)	188 (3.5%)	151 (3.0%)	0.6% (-0.1%, 1.3%)	109 (3.3%)	112 (3.4%)	-0.1% (-1.0%, 0.8%)
CKD stage 3-4; n (%)	879 (16.5%)	480 (9.4%)	7.1% (5.8%, 8.4%)	378 (11.5%)	381 (11.6%)	-0.1% (-1.7%, 1.5%)
Unspecified CKD; n (%)	303 (5.7%)	160 (3.1%)	2.6% (1.8%, 3.4%)	130 (3.9%)	127 (3.9%)	0.1% (-0.9%, 1.1%)

Acute kidney injury; n (%)	433 (8.1%)	207 (4.0%)	4.1% (3.2%, 5.0%)	168 (5.1%)	164 (5.0%)	0.1% (-1.0%, 1.2%)
Hypertensive nephropathy; n (%)	743 (14.0%)	421 (8.2%)	5.7% (4.5%, 6.9%)	338 (10.3%)	321 (9.7%)	0.5% (-1.0%, 2.0%)
Urinary tract infections; n (%)	656 (12.3%)	626 (12.2%)	0.1% (-1.2%, 1.4%)	389 (11.8%)	374 (11.3%)	0.5% (-1.1%, 2.0%)
Genital infections; n (%)	175 (3.3%)	161 (3.1%)	0.1% (-0.6%, 0.8%)	114 (3.5%)	117 (3.5%)	-0.1% (-1.0%, 0.8%)
Urolithiasis (Kidney and urinary stone); n (%)	237 (4.5%)	223 (4.4%)	0.1% (-0.7%, 0.9%)	138 (4.2%)	138 (4.2%)	0.0% (-1.0%, 1.0%)
COPD; n (%)	583 (11.0%)	448 (8.8%)	2.2% (1.0%, 3.4%)	311 (9.4%)	310 (9.4%)	0.0% (-1.4%, 1.5%)
Asthma; n (%)	494 (9.3%)	541 (10.6%)	-1.3% (-2.5%, -0.1%)	330 (10.0%)	312 (9.5%)	0.5% (-0.9%, 2.0%)
Obstructive sleep apnea; n (%)	1820 (34.2%)	1974 (38.6%)	-4.4% (-6.3%, -2.6%)	1204 (36.5%)	1176 (35.7%)	0.8% (-1.5%, 3.2%)
Serious bacterial infections; n (%)	290 (5.4%)	167 (3.3%)	2.2% (1.4%, 3.0%)	134 (4.1%)	115 (3.5%)	0.6% (-0.4%, 1.5%)
Pneumonia; n (%)	294 (5.5%)	202 (3.9%)	1.6% (0.7%, 2.4%)	150 (4.5%)	133 (4.0%)	0.5% (-0.5%, 1.5%)
Liver disease; n (%)	763 (14.3%)	799 (15.6%)	-1.3% (-2.7%, 0.1%)	445 (13.5%)	469 (14.2%)	-0.7% (-2.4%, 1.0%)
MASH/MASLD; n (%)	367 (6.9%)	438 (8.6%)	-1.7% (-2.7%, -0.6%)	238 (7.2%)	246 (7.5%)	-0.2% (-1.5%, 1.0%)
Fractures / Falls; n (%)	300 (5.6%)	201 (3.9%)	1.7% (0.9%, 2.5%)	148 (4.5%)	150 (4.5%)	-0.1% (-1.1%, 1.0%)
Osteoporosis; n (%)	138 (2.6%)	95 (1.9%)	0.7% (0.2%, 1.3%)	78 (2.4%)	70 (2.1%)	0.2% (-0.5%, 1.0%)
Osteoarthritis; n (%)	1372 (25.8%)	1268 (24.8%)	1.0% (-0.7%, 2.7%)	841 (25.5%)	824 (25.0%)	0.5% (-1.6%, 2.6%)
Depression; n (%)	880 (16.5%)	803 (15.7%)	0.8% (-0.6%, 2.3%)	515 (15.6%)	520 (15.8%)	-0.2% (-1.9%, 1.6%)
Dementia; n (%)	251 (4.7%)	97 (1.9%)	2.8% (2.1%, 3.5%)	75 (2.3%)	82 (2.5%)	-0.2% (-1.0%, 0.6%)
Delirium or psychosis; n (%)	49 (0.9%)	25 (0.5%)	0.4% (0.1%, 0.8%)	23 (0.7%)	20 (0.6%)	0.1% (-0.3%, 0.5%)
Anxiety; n (%)	937 (17.6%)	1,053 (20.6%)	-3.0% (-4.5%, -1.5%)	613 (18.6%)	624 (18.9%)	-0.3% (-2.2%, 1.6%)
Sleep disorders; n (%)	1,410 (26.5%)	1,502 (29.4%)	-2.9% (-4.6%, -1.1%)	901 (27.3%)	917 (27.8%)	-0.5% (-2.7%, 1.7%)
Anemia; n (%)	1,166 (21.9%)	1,029 (20.1%)	1.8% (0.2%, 3.4%)	652 (19.8%)	656 (19.9%)	-0.1% (-2.1%, 1.8%)
Influenza; n (%)	83 (1.6%)	136 (2.7%)	-1.1% (-1.7%, -0.5%)	63 (1.9%)	57 (1.7%)	0.2% (-0.5%, 0.9%)
COVID; n (%)	790 (14.8%)	748 (14.6%)	0.2% (-1.2%, 1.6%)	487 (14.8%)	470 (14.3%)	0.5% (-1.2%, 2.2%)
Hyperthyroidism and other thyroid gland disorders; n (%)	1,328 (24.9%)	1,400 (27.4%)	-2.4% (-4.1%, -0.7%)	839 (25.4%)	860 (26.1%)	-0.6% (-2.8%, 1.5%)
Hypothyroidism; n (%)	1,014 (19.0%)	1,067 (20.9%)	-1.8% (-3.4%, -0.3%)	639 (19.4%)	675 (20.5%)	-1.1% (-3.1%, 0.9%)
Nephrotic syndrome; n (%)	7 (0.1%)	1 (0.0%)	0.1% (-0.0%, 0.2%)	2 (0.1%)	1 (0.0%)	0.0% (-0.1%, 0.2%)
Urinary incontinence; n (%)	257 (4.8%)	191 (3.7%)	1.1% (0.3%, 1.9%)	134 (4.1%)	121 (3.7%)	0.4% (-0.6%, 1.4%)
Biliary disease; n (%)	30 (0.6%)	11 (0.2%)	0.3% (0.1%, 0.6%)	7 (0.2%)	7 (0.2%)	0.0% (-0.2%, 0.2%)
Pancreatitis; n (%)	2 (0.0%)	4 (0.1%)	-0.0% (-0.2%, 0.1%)	2 (0.1%)	1 (0.0%)	0.0% (-0.1%, 0.2%)
Bowel obstruction; n (%)	22 (0.4%)	10 (0.2%)	0.2% (-0.0%, 0.4%)	10 (0.3%)	10 (0.3%)	0.0% (-0.3%, 0.3%)
Gastroparesis; n (%)	38 (0.7%)	48 (0.9%)	-0.2% (-0.6%, 0.1%)	24 (0.7%)	27 (0.8%)	-0.1% (-0.5%, 0.4%)
Number of antidiabetic drugs on CED						
...mean (sd)	2.32 (1.05)	2.18 (1.01)	0.15 (0.11, 0.19)	2.27 (1.03)	2.27 (1.03)	-0.00 (-0.05, 0.05)
...median [IQR]	2.00 [2.00, 3.00]	2.00 [1.00, 3.00]	- (-, -)	2.00 [2.00, 3.00]	2.00 [2.00, 3.00]	- (-, -)
...min, max	1.00, 6.00	1.00, 7.00	- (-, -)	1.00, 6.00	1.00, 7.00	- (-, -)
Concomitant use or initiation of Metformin; n (%)	2,418 (45.4%)	2,402 (47.0%)	-1.6% (-3.5%, 0.4%)	1,564 (47.4%)	1,570 (47.6%)	-0.2% (-2.6%, 2.3%)
Concomitant use or initiation of Insulins; n (%)	1,554 (29.2%)	1,089 (21.3%)	7.9% (6.2%, 9.6%)	833 (25.3%)	827 (25.1%)	0.2% (-1.9%, 2.3%)
Concomitant use or initiation of Sulfonylureas; n (%)	984 (18.5%)	592 (11.6%)	6.9% (5.5%, 8.3%)	481 (14.6%)	473 (14.3%)	0.2% (-1.5%, 2.0%)
Concomitant use or initiation of DPP-4i; n (%)	481 (9.0%)	417 (8.2%)	0.9% (-0.2%, 2.0%)	290 (8.8%)	293 (8.9%)	-0.1% (-1.5%, 1.3%)
Concomitant use or initiation of SGLT-2i; n (%)	1,320 (24.8%)	1,296 (25.3%)	-0.5% (-2.2%, 1.1%)	871 (26.4%)	882 (26.8%)	-0.3% (-2.5%, 1.8%)
Concomitant use or initiation of Any other glucose-lowering drugs; n (%)	285 (5.4%)	217 (4.2%)	1.1% (0.3%, 1.9%)	156 (4.7%)	154 (4.7%)	0.1% (-1.0%, 1.1%)
Past use of Metformin; n (%)	3,437 (64.6%)	3,263 (63.8%)	0.8% (-1.1%, 2.6%)	2,132 (64.7%)	2,144 (65.0%)	-0.4% (-2.7%, 2.0%)
Past use of Insulins; n (%)	2,139 (40.2%)	1,421 (27.8%)	12.4% (10.6%, 14.2%)	1,100 (33.4%)	1,094 (33.2%)	0.2% (-2.1%, 2.5%)
Past use of Sulfonylureas; n (%)	1,414 (26.6%)	889 (17.4%)	9.2% (7.6%, 10.8%)	706 (21.4%)	699 (21.2%)	0.2% (-1.8%, 2.2%)
Past use of DPP-4i; n (%)	775 (14.6%)	661 (12.9%)	1.6% (0.3%, 3.0%)	463 (14.0%)	459 (13.9%)	0.1% (-1.6%, 1.8%)
Past use of SGLT-2i; n (%)	1,794 (33.7%)	1,674 (32.7%)	1.0% (-0.9%, 2.8%)	1,139 (34.5%)	1,150 (34.9%)	-0.3% (-2.7%, 2.0%)
Past use of Any other glucose-lowering drugs; n (%)	414 (7.8%)	303 (5.9%)	1.9% (0.9%, 2.8%)	212 (6.4%)	218 (6.6%)	-0.2% (-1.4%, 1.0%)
ACE-is/ARB's; n (%)	3,923 (73.7%)	3,642 (71.2%)	2.5% (0.7%, 4.2%)	2,392 (72.6%)	2,363 (71.7%)	0.9% (-1.3%, 3.1%)
ARNi; n (%)	188 (3.5%)	168 (3.3%)	0.2% (-0.5%, 1.0%)	110 (3.3%)	119 (3.6%)	-0.3% (-1.2%, 0.6%)
Thiazides; n (%)	1,700 (31.9%)	1,753 (34.3%)	-2.3% (-4.2%, -0.5%)	1,076 (32.6%)	1,089 (33.0%)	-0.4% (-2.7%, 1.9%)
Beta-blockers; n (%)	3,187 (59.9%)	2,743 (53.6%)	6.2% (4.3%, 8.1%)	1,847 (56.0%)	1,866 (56.6%)	-0.6% (-3.0%, 1.8%)
Calcium channel blockers; n (%)	1,921 (36.1%)	1,641 (32.1%)	4.0% (2.2%, 5.8%)	1,112 (33.7%)	1,120 (34.0%)	-0.2% (-2.6%, 2.1%)
Digoxin / Digitoxin; n (%)	54 (1.0%)	36 (0.7%)	0.3% (-0.1%, 0.7%)	20 (0.6%)	24 (0.7%)	-0.1% (-0.5%, 0.3%)
Loop diuretics; n (%)	1,226 (23.0%)	940 (18.4%)	4.6% (3.1%, 6.2%)	637 (19.3%)	656 (19.9%)	-0.6% (-2.5%, 1.4%)
Other diuretics; n (%)	564 (10.6%)	541 (10.6%)	0.0% (-1.2%, 1.2%)	352 (10.7%)	340 (10.3%)	0.4% (-1.1%, 1.9%)
Intravenous diuretics; n (%)	78 (1.5%)	52 (1.0%)	0.4% (0.0%, 0.9%)	33 (1.0%)	34 (1.0%)	-0.0% (-0.5%, 0.5%)
Nitrates; n (%)	764 (14.4%)	557 (10.9%)	3.5% (2.2%, 4.7%)	414 (12.6%)	411 (12.5%)	0.1% (-1.5%, 1.7%)
Anti-arrhythmics; n (%)	184 (3.5%)	171 (3.3%)	0.1% (-0.6%, 0.8%)	108 (3.3%)	102 (3.1%)	0.2% (-0.7%, 1.1%)
Statins; n (%)	4,455 (83.7%)	3,994 (78.1%)	5.6% (4.1%, 7.1%)	2,666 (80.9%)	2,665 (80.8%)	0.0% (-1.9%, 2.0%)
PCSK9 inhibitors and other lipid-lowering drugs; n (%)	995 (18.7%)	923 (18.0%)	0.6% (-0.9%, 2.1%)	606 (18.4%)	608 (18.4%)	-0.1% (-2.0%, 1.8%)
Antiplatelet medications; n (%)	1,330 (25.0%)	1,052 (20.6%)	4.4% (2.8%, 6.0%)	765 (23.2%)	740 (22.4%)	0.8% (-1.3%, 2.8%)
Oral anticoagulants; n (%)	870 (16.3%)	664 (13.0%)	3.4% (2.0%, 4.7%)	456 (13.8%)	470 (14.3%)	-0.4% (-2.1%, 1.3%)

COPD/Asthma medications; n (%)	1878 (35.3%)	2006 (39.2%)	-4.0% (-5.8%, -2.1%)	1220 (37.0%)	1218 (36.9%)	0.1% (-2.3%, 2.4%)
NSAIDs; n (%)	1506 (28.3%)	1762 (34.5%)	-6.2% (-8.0%, -4.4%)	1052 (31.9%)	1040 (31.5%)	0.4% (-1.9%, 2.6%)
Oral corticosteroids; n (%)	1359 (25.5%)	1571 (30.7%)	-5.2% (-6.9%, -3.5%)	932 (28.3%)	894 (27.1%)	1.2% (-1.0%, 3.3%)
Osteoporosis agents (incl. bisphosphonates); n (%)	110 (2.1%)	86 (1.7%)	0.4% (-0.2%, 0.9%)	66 (2.0%)	67 (2.0%)	-0.0% (-0.7%, 0.7%)
Opioids; n (%)	1147 (21.5%)	1135 (22.2%)	-0.7% (-2.3%, 1.0%)	722 (21.9%)	688 (20.9%)	1.0% (-1.0%, 3.0%)
Anti-depressants; n (%)	1928 (36.2%)	1981 (38.7%)	-2.5% (-4.4%, -0.6%)	1218 (36.9%)	1237 (37.5%)	-0.6% (-2.9%, 1.8%)
Antipsychotics; n (%)	170 (3.2%)	167 (3.3%)	-0.1% (-0.8%, 0.6%)	107 (3.2%)	101 (3.1%)	0.2% (-0.7%, 1.1%)
Anxiolytics / hypnotics, benzos; n (%)	973 (18.3%)	1197 (23.4%)	-5.1% (-6.7%, -3.6%)	668 (20.3%)	684 (20.7%)	-0.5% (-2.5%, 1.5%)
Dementia medications; n (%)	118 (2.2%)	36 (0.7%)	1.5% (1.0%, 2.0%)	31 (0.9%)	32 (1.0%)	-0.0% (-0.5%, 0.5%)
Urinary tract infections antibiotics; n (%)	2479 (46.6%)	2571 (50.3%)	-3.7% (-5.6%, -1.8%)	1565 (47.5%)	1543 (46.8%)	0.7% (-1.8%, 3.1%)
Laxatives; n (%)	161 (3.0%)	186 (3.6%)	-0.6% (-1.3%, 0.1%)	104 (3.2%)	101 (3.1%)	0.1% (-0.8%, 1.0%)
Number of distinct medications						
...mean (sd)	15.36 (6.48)	15.49 (6.74)	-0.14 (-0.39, 0.12)	15.30 (6.66)	15.25 (6.43)	0.04 (-0.27, 0.36)
...median [IQR]	15.00 [11.00, 19.00]	15.00 [11.00, 19.00]	- (-, -)	15.00 [11.00, 19.00]	14.00 [11.00, 19.00]	- (-, -)
...min, max	1.00, 50.00	1.00, 51.00	- (-, -)	1.00, 50.00	1.00, 51.00	- (-, -)
Number of office visits						
...mean (sd)	10.94 (7.17)	11.00 (7.13)	-0.06 (-0.33, 0.22)	10.79 (7.26)	10.69 (6.86)	0.10 (-0.24, 0.44)
...median [IQR]	9.00 [6.00, 14.00]	9.00 [6.00, 14.00]	- (-, -)	9.00 [6.00, 14.00]	9.00 [6.00, 14.00]	- (-, -)
...min, max	0.00, 66.00	0.00, 101.00	- (-, -)	0.00, 66.00	0.00, 55.00	- (-, -)
Number of endocrinologist visits						
...mean (sd)	0.64 (1.70)	0.52 (1.41)	0.12 (0.06, 0.18)	0.56 (1.53)	0.56 (1.50)	-0.00 (-0.08, 0.07)
...median [IQR]	0.00 [0.00, 0.00]	0.00 [0.00, 0.00]	- (-, -)	0.00 [0.00, 0.00]	0.00 [0.00, 0.00]	- (-, -)
...min, max	0.00, 30.00	0.00, 27.00	- (-, -)	0.00, 20.00	0.00, 27.00	- (-, -)
Number of cardiologist visits						
...mean (sd)	2.43 (4.02)	2.08 (3.48)	0.34 (0.20, 0.49)	2.14 (3.70)	2.12 (3.51)	0.02 (-0.16, 0.19)
...median [IQR]	1.00 [0.00, 3.00]	1.00 [0.00, 3.00]	- (-, -)	1.00 [0.00, 3.00]	1.00 [0.00, 3.00]	- (-, -)
...min, max	0.00, 50.00	0.00, 48.00	- (-, -)	0.00, 50.00	0.00, 44.00	- (-, -)
Number of internal/family medicine visits						
...mean (sd)	6.33 (7.78)	5.56 (5.91)	0.78 (0.51, 1.04)	5.59 (7.05)	5.61 (5.90)	-0.03 (-0.34, 0.29)
...median [IQR]	4.00 [2.00, 8.00]	4.00 [2.00, 7.00]	- (-, -)	4.00 [2.00, 7.00]	4.00 [2.00, 7.00]	- (-, -)
...min, max	0.00, 216.00	0.00, 94.00	- (-, -)	0.00, 216.00	0.00, 60.00	- (-, -)
Number of Electrocardiograms (ECG/EKG)						
...mean (sd)	1.43 (2.01)	1.24 (1.73)	0.20 (0.12, 0.27)	1.30 (1.85)	1.28 (1.79)	0.02 (-0.07, 0.11)
...median [IQR]	1.00 [0.00, 2.00]	1.00 [0.00, 2.00]	- (-, -)	1.00 [0.00, 2.00]	1.00 [0.00, 2.00]	- (-, -)
...min, max	0.00, 28.00	0.00, 23.00	- (-, -)	0.00, 28.00	0.00, 23.00	- (-, -)
Number of Echocardiograms						
...mean (sd)	0.51 (0.92)	0.43 (0.81)	0.08 (0.04, 0.11)	0.45 (0.84)	0.44 (0.82)	0.01 (-0.03, 0.05)
...median [IQR]	0.00 [0.00, 1.00]	0.00 [0.00, 1.00]	- (-, -)	0.00 [0.00, 1.00]	0.00 [0.00, 1.00]	- (-, -)
...min, max	0.00, 11.00	0.00, 9.00	- (-, -)	0.00, 11.00	0.00, 9.00	- (-, -)
Out-of-pocket medication cost						
...mean (sd)	606.97 (1022.30)	644.54 (1124.49)	-37.57 (-78.85, 3.71)	634.32 (1049.85)	628.06 (920.97)	6.26 (-41.42, 53.94)
...median [IQR]	379.82 [175.86, 765.84]	379.12 [150.00, 805.88]	- (-, -)	385.12 [167.24, 780.44]	371.38 [154.90, 811.08]	- (-, -)
...min, max	-33,195.00, 22,108.03	-1,425.00, 30,361.78	- (-, -)	-445.00, 22,108.03	-1,425.00, 19,162.24	- (-, -)
Unique brand medicines						
...mean (sd)	15.65 (6.70)	15.77 (6.94)	-0.12 (-0.38, 0.14)	15.58 (6.88)	15.53 (6.60)	0.05 (-0.27, 0.38)
...median [IQR]	15.00 [11.00, 19.00]	15.00 [11.00, 20.00]	- (-, -)	15.00 [11.00, 19.00]	15.00 [11.00, 19.00]	- (-, -)
...min, max	1.00, 52.00	1.00, 54.00	- (-, -)	1.00, 52.00	1.00, 54.00	- (-, -)
Unique generic medicines						
...mean (sd)	15.36 (6.48)	15.49 (6.74)	-0.14 (-0.39, 0.12)	15.30 (6.66)	15.25 (6.43)	0.04 (-0.27, 0.36)
...median [IQR]	15.00 [11.00, 19.00]	15.00 [11.00, 19.00]	- (-, -)	15.00 [11.00, 19.00]	14.00 [11.00, 19.00]	- (-, -)
...min, max	1.00, 50.00	1.00, 51.00	- (-, -)	1.00, 50.00	1.00, 51.00	- (-, -)
Colonoscopy Sigmoidoscopy; n (%)	594 (11.2%)	649 (12.7%)	-1.5% (-2.8%, -0.3%)	389 (11.8%)	387 (11.7%)	0.1% (-1.5%, 1.6%)
Flu Pneumococcal vaccine; n (%)	1840 (34.6%)	1429 (27.9%)	6.6% (4.8%, 8.4%)	1021 (31.0%)	983 (29.8%)	1.2% (-1.1%, 3.4%)
Pap smear; n (%)	329 (6.2%)	503 (9.8%)	-3.7% (-4.7%, -2.6%)	254 (7.7%)	256 (7.8%)	-0.1% (-1.4%, 1.3%)
PSA test; n (%)	1337 (25.1%)	1386 (27.1%)	-2.0% (-3.7%, -0.3%)	864 (26.2%)	849 (25.8%)	0.5% (-1.7%, 2.6%)
Fecal occult blood test; n (%)	196 (3.7%)	202 (3.9%)	-0.3% (-1.0%, 0.5%)	124 (3.8%)	128 (3.9%)	-0.1% (-1.1%, 0.8%)
Bone mineral density tests; n (%)	250 (4.7%)	264 (5.2%)	-0.5% (-1.3%, 0.4%)	151 (4.6%)	158 (4.8%)	-0.2% (-1.3%, 0.8%)
Mammograms; n (%)	1153 (21.7%)	1338 (26.2%)	-4.5% (-6.2%, -2.9%)	794 (24.1%)	808 (24.5%)	-0.4% (-2.5%, 1.7%)
Telemedicine; n (%)	1601 (30.1%)	1575 (30.8%)	-0.7% (-2.5%, 1.1%)	1002 (30.4%)	985 (29.9%)	0.5% (-1.7%, 2.8%)
HbA1C tests						
...mean (sd)	2.36 (1.49)	2.34 (1.54)	0.02 (-0.04, 0.07)	2.33 (1.46)	2.35 (1.52)	-0.01 (-0.09, 0.06)

...median [IQR]	2.00 [1.00, 3.00]	2.00 [1.00, 3.00]	- (-, -)	2.00 [1.00, 3.00]	2.00 [1.00, 3.00]	- (-, -)
...min, max	0.00, 26.00	0.00, 31.00	- (-, -)	0.00, 26.00	0.00, 31.00	- (-, -)
Lipid panels						
...mean (sd)	1.60 (1.28)	1.76 (1.38)	-0.16 (-0.21, -0.11)	1.69 (1.33)	1.68 (1.24)	0.01 (-0.06, 0.07)
...median [IQR]	1.00 [1.00, 2.00]	2.00 [1.00, 2.00]	- (-, -)	1.00 [1.00, 2.00]	2.00 [1.00, 2.00]	- (-, -)
...min, max	0.00, 22.00	0.00, 29.00	- (-, -)	0.00, 22.00	0.00, 12.00	- (-, -)
Creatinine tests						
...mean (sd)	0.06 (0.35)	0.04 (0.28)	0.02 (0.01, 0.03)	0.05 (0.31)	0.05 (0.30)	0.00 (-0.01, 0.02)
...median [IQR]	0.00 [0.00, 0.00]	0.00 [0.00, 0.00]	- (-, -)	0.00 [0.00, 0.00]	0.00 [0.00, 0.00]	- (-, -)
...min, max	0.00, 8.00	0.00, 6.00	- (-, -)	0.00, 6.00	0.00, 6.00	- (-, -)
Natriuretic peptide tests						
...mean (sd)	0.22 (0.87)	0.20 (0.98)	0.02 (-0.02, 0.05)	0.21 (0.88)	0.20 (0.94)	0.01 (-0.03, 0.06)
...median [IQR]	0.00 [0.00, 0.00]	0.00 [0.00, 0.00]	- (-, -)	0.00 [0.00, 0.00]	0.00 [0.00, 0.00]	- (-, -)
...min, max	0.00, 20.00	0.00, 28.00	- (-, -)	0.00, 18.00	0.00, 27.00	- (-, -)
Urine tests						
...mean (sd)	1.10 (1.85)	1.13 (1.85)	-0.03 (-0.10, 0.05)	1.09 (1.86)	1.06 (1.77)	0.04 (-0.05, 0.12)
...median [IQR]	0.00 [0.00, 2.00]	1.00 [0.00, 2.00]	- (-, -)	0.00 [0.00, 1.00]	0.00 [0.00, 1.00]	- (-, -)
...min, max	0.00, 30.00	0.00, 33.00	- (-, -)	0.00, 29.00	0.00, 28.00	- (-, -)
Combined comorbidity score						
...mean (sd)	2.34 (2.50)	1.78 (2.02)	0.57 (0.48, 0.65)	1.93 (2.15)	1.91 (2.10)	0.02 (-0.08, 0.12)
...median [IQR]	2.00 [1.00, 3.00]	1.00 [0.00, 3.00]	- (-, -)	1.00 [0.00, 3.00]	1.00 [0.00, 3.00]	- (-, -)
...min, max	-2.00, 20.00	-1.00, 16.00	- (-, -)	-2.00, 15.00	-1.00, 13.00	- (-, -)
Frailty Score						
...mean (sd)	0.18 (0.05)	0.16 (0.04)	0.01 (0.01, 0.01)	0.17 (0.05)	0.17 (0.05)	0.00 (-0.00, 0.00)
...median [IQR]	0.17 [0.14, 0.20]	0.16 [0.13, 0.19]	- (-, -)	0.16 [0.14, 0.19]	0.16 [0.14, 0.19]	- (-, -)
...min, max	0.06, 0.55	0.04, 0.47	- (-, -)	0.06, 0.48	0.04, 0.43	- (-, -)
Number of Hospitalizations						
...mean (sd)	10.50 (32.68)	6.19 (25.28)	4.31 (3.19, 5.43)	7.49 (27.27)	7.19 (26.84)	0.30 (-1.01, 1.61)
...median [IQR]	0.00 [0.00, 0.00]	0.00 [0.00, 0.00]	- (-, -)	0.00 [0.00, 0.00]	0.00 [0.00, 0.00]	- (-, -)
...min, max	0.00, 552.00	0.00, 482.00	- (-, -)	0.00, 552.00	0.00, 444.00	- (-, -)
Any hospitalization within prior 91 days; n (%)	257 (4.8%)	147 (2.9%)	2.0% (1.2%, 2.7%)	122 (3.7%)	107 (3.2%)	0.5% (-0.5%, 1.4%)
Any hospitalization within prior 92-365 days; n (%)	752 (14.1%)	468 (9.2%)	5.0% (3.7%, 6.2%)	344 (10.4%)	343 (10.4%)	0.0% (-1.5%, 1.5%)
Number of hospitalizations (0, 1, 2 or more)						
...< 1; n (%)	4,402 (82.7%)	4,552 (89.0%)	-6.3% (-7.7%, -5.0%)	2,867 (87.0%)	2,882 (87.4%)	-0.5% (-2.1%, 1.2%)
...1 - <2; n (%)	45 (0.8%)	30 (0.6%)	0.3% (-0.1%, 0.6%)	17 (0.5%)	22 (0.7%)	-0.2% (-0.6%, 0.2%)
...>= 2; n (%)	877 (16.5%)	532 (10.4%)	6.1% (4.7%, 7.4%)	413 (12.5%)	393 (11.9%)	0.6% (-1.0%, 2.2%)
Heart failure hospitalization; n (%)	304 (5.7%)	144 (2.8%)	2.9% (2.1%, 3.7%)	118 (3.6%)	106 (3.2%)	0.4% (-0.5%, 1.3%)
ED visit; n (%)	2,230 (41.9%)	1,894 (37.0%)	4.9% (3.0%, 6.7%)	1,267 (38.4%)	1,249 (37.9%)	0.5% (-1.8%, 2.9%)
Acute MI; n (%)	164 (3.1%)	109 (2.1%)	0.9% (0.3%, 1.6%)	80 (2.4%)	82 (2.5%)	-0.1% (-0.8%, 0.7%)
Old MI; n (%)	273 (5.1%)	236 (4.6%)	0.5% (-0.3%, 1.4%)	165 (5.0%)	159 (4.8%)	0.2% (-0.9%, 1.3%)
Heart failure; n (%)	944 (17.7%)	618 (12.1%)	5.6% (4.3%, 7.0%)	461 (14.0%)	452 (13.7%)	0.3% (-1.4%, 2.0%)
Acute heart failure; n (%)	228 (4.3%)	136 (2.7%)	1.6% (0.9%, 2.3%)	99 (3.0%)	92 (2.8%)	0.2% (-0.6%, 1.1%)
Microalbuminuria or proteinuria; n (%)	267 (5.0%)	207 (4.0%)	1.0% (0.2%, 1.8%)	130 (3.9%)	143 (4.3%)	-0.4% (-1.4%, 0.6%)
Ratio of brand to generic medications						
...mean (sd)	1.02 (0.04)	1.02 (0.04)	0.00 (-0.00, 0.00)	1.02 (0.04)	1.02 (0.04)	-0.00 (-0.00, 0.00)
...median [IQR]	1.00 [1.00, 1.00]	1.00 [1.00, 1.00]	- (-, -)	1.00 [1.00, 1.00]	1.00 [1.00, 1.00]	- (-, -)
...min, max	0.89, 1.35	0.89, 1.33	- (-, -)	0.89, 1.35	0.89, 1.33	- (-, -)

Variable_name	Algorithm sources
Age	
Gender	
Race	
Region	
Smoking / Tobacco use	
Underweight	
Normal weight, if BMI is 20.0-24.9	
Overweight, if BMI is 25.0 to 29.9	
Class 1 (low-risk) obesity, if BMI is 30.0 to 34.9	
Class 2 (moderate-risk) obesity, if BMI is 35.0 to 39.9	
Class 3 (high-risk) obesity if BMI is equal to or greater than 40	
Unspecified obesity	
Diabetic retinopathy	
Diabetic neuropathy	
Diabetic nephropathy	
Diabetes with other ophthalmic complications	
Diabetes with peripheral circulatory disorders	
Diabetic foot	
Erectile dysfunction	
Hypoglycemia	
Hyperglycemia/DKA/HONK	
Skin infections	
Stable angina	
Unstable angina	
Hypertension	
Hypotension	
Hyperlipidemia	
Atrial fibrillation	
Acute myocardial infarction	
Old myocardial infarction	
Cardiac conduction disorder	
Previous cardiac procedure (CABG, PTCA, Stent)	
Ischemic stroke	
PVD diagnosis or surgery	
	<p>If region not available, from State, https://www2.census.gov/geo/pdfs/maps-data/maps/reference/us_regdiv.pdf</p> <p>Investigator review of codes based on: https://dev.sentinelssystem.org/projects/AP/repos/sentinel-analytic-packages/browse?at=refs%2Fheads%2Fcoder_mpl2p_wp015, https://dev.sentinelssystem.org/projects/AP/repos/sentinel-analytic-packages/browse?at=refs%2Fheads%2Fcoder_sir_wp002, https://pubmed.ncbi.nlm.nih.gov/34953068/, https://www.ncbi.nlm.nih.gov/pmc/articles/PMC9154288/, https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3721171/</p> <p>Investigator review of codes based on: https://pubmed.ncbi.nlm.nih.gov/34338404/</p> <p>Investigator review of codes based on: https://pubmed.ncbi.nlm.nih.gov/34338404/</p> <p>Investigator review of codes based on: https://pubmed.ncbi.nlm.nih.gov/34338404/</p> <p>Investigator review of codes based on: https://pubmed.ncbi.nlm.nih.gov/34338404/</p> <p>Investigator review of codes based on: https://pubmed.ncbi.nlm.nih.gov/34338404/</p> <p>Investigator review of codes based on: https://pubmed.ncbi.nlm.nih.gov/34338404/</p> <p>Investigator review of codes based on: https://pubmed.ncbi.nlm.nih.gov/34953068/, https://pubmed.ncbi.nlm.nih.gov/35043165/</p> <p>Investigator review of codes based on: https://pubmed.ncbi.nlm.nih.gov/34953068/, https://pubmed.ncbi.nlm.nih.gov/35043165/</p> <p>Investigator review of codes based on: https://pubmed.ncbi.nlm.nih.gov/35043165/</p> <p>Investigator review of codes based on: https://pubmed.ncbi.nlm.nih.gov/34953068/, ICD9 to ICD10 conversion</p> <p>Investigator review of codes based on: https://www.ncbi.nlm.nih.gov/books/NBK368403/table/sb203.t5/, https://www.health.mil/Reference-Center/Publications/2016/03/01/Diabetes-Mellitus, http://www.icd9data.com/2014/Volume1/240-279/249-259/250/default.htm, https://www.icd10data.com/ICD10CM/Codes/E00-E89/E08-E13/E11</p> <p>Investigator review of codes based on: (modified codes) https://pubmed.ncbi.nlm.nih.gov/36102675/</p> <p>Investigator review of codes based on: the paper then used ICD9/ICD10 website to expand it, https://www.icd10data.com/ICD10CM/Codes/N00-N99/N40-N53/N52-, https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4857901/</p> <p>Investigator review of codes based on: https://pubmed.ncbi.nlm.nih.gov/34953068/, https://pubmed.ncbi.nlm.nih.gov/35043165/</p> <p>Investigator review of codes based on: https://pubmed.ncbi.nlm.nih.gov/34953068/, https://pubmed.ncbi.nlm.nih.gov/35043165/</p> <p>Hyperglycemia: https://pubmed.ncbi.nlm.nih.gov/34953068/, https://pubmed.ncbi.nlm.nih.gov/35043165/</p> <p>DKA: https://pubmed.ncbi.nlm.nih.gov/29773640/, https://pubmed.ncbi.nlm.nih.gov/38262528/</p> <p>HONK: https://dam.assets.ohio.gov/image/upload/medicaid.ohio.gov/Providers/PaymentInnovation/DEF/DKA.pdf</p> <p>Investigator review of codes based on: https://pubmed.ncbi.nlm.nih.gov/34953068/, ICD9 to ICD10 conversion</p> <p>Investigator review of codes based on: https://pubmed.ncbi.nlm.nih.gov/19337843/, https://pmc.ncbi.nlm.nih.gov/articles/PMC9172873/</p> <p>Investigator review of codes based on: https://pubmed.ncbi.nlm.nih.gov/19337843/, https://pmc.ncbi.nlm.nih.gov/articles/PMC9172873/</p> <p>Investigator review of codes based on: https://pubmed.ncbi.nlm.nih.gov/35043165/, https://www.ncbi.nlm.nih.gov/pmc/articles/PMC8929186/</p> <p>Investigator review of codes based on: https://pmc.ncbi.nlm.nih.gov/articles/PMC8064679/</p> <p>Investigator review of codes based on: https://pubmed.ncbi.nlm.nih.gov/35043165/, https://dev.sentinelssystem.org/projects/AP/repos/sentinel-analytic-packages/browse?at=refs%2Fheads%2Fcoder_sir_wp002, https://dev.sentinelssystem.org/projects/AP/repos/sentinel-analytic-packages/browse?at=refs%2Fheads%2Fcoder_mpl2p_wp015</p> <p>Investigator review of codes based on: https://pubmed.ncbi.nlm.nih.gov/31933524/</p> <p>Investigator review of codes based on: https://pubmed.ncbi.nlm.nih.gov/24682186/</p> <p>Investigator review of codes based on: https://pubmed.ncbi.nlm.nih.gov/24682186/</p> <p>Investigator review of codes based on: https://stacks.cdc.gov/view/cdc/31381/cdc_31381_DS8.pdf, https://www.health.ny.gov/health_care/medicaid/redesign/dsrip/vbp_library/docs/arrblk.pdf, https://www.cdc.gov/dhds/maps/atlas/data-sources.html, https://www.cms.gov/medicare/coding/icd10/downloads/icd10clinicalconceptscardiology1.pdf, ICD9 to ICD10 conversion</p> <p>Modified codes based on eligibility criteria, here we implement any care setting, any diagnosis position</p> <p>Modified codes based on eligibility criteria, here we implement any care setting, any diagnosis position</p> <p>Investigator review of codes, https://www.icd10data.com/</p>

Other cardiac dysrhythmia	Investigator review of codes based on: https://stacks.cdc.gov/view/cdc/31381/cdc_31381_DS8.pdf , https://www.health.ny.gov/health_care/medicaid/redesign/dsrip/vbp_library/docs/arrblk.pdf , https://www.cdc.gov/dhds/maps/atlas/data-sources.html , https://www.cms.gov/medicare/coding/icd10/downloads/icd10clinicalconceptscardiology1.pdf , ICD9 to ICD10 conversion
Heart failure	Investigator review of codes
Acute heart failure	Investigator review of codes
Microalbuminuria/proteinuria	Modified codes based on inclusion criteria, here we implement any care setting, any diagnosis position
Cardiomyopathy	Investigator review of codes based on: https://dev.sentinelssystem.org/projects/AP/repos/sentinel-analytic-packages/browse?at=refs%2Fheads%2Fcder_mpl2p_wp015
Valve disorders	Investigator review of codes based on: https://stacks.cdc.gov/view/cdc/31381/cdc_31381_DS8.pdf , https://pubmed.ncbi.nlm.nih.gov/38440888/ , https://www.ncbi.nlm.nih.gov/pmc/articles/PMC8751938/ , https://dev.sentinelssystem.org/projects/AP/repos/sentinel-analytic-packages/browse?at=refs%2Fheads%2Fcder_mpl2p_wp015 , https://dev.sentinelssystem.org/projects/AP/repos/sentinel-analytic-packages/browse?at=cder_mpl2p_wp009
Valve replacement	Modified codes based on eligibility criteria, here we implement any care setting, any diagnosis position
TIA	Modified codes based on eligibility criteria, here we implement any care setting, any diagnosis position
Edema	Investigator review of codes based on: https://www.cms.gov/medicare-coverage-database/view/article.aspx?articleid=52993&ver=45&
Venous thromboembolism/ pulmonary embolism	Investigator review of codes based on: https://www.sciencedirect.com/science/article/pii/S2666572723000251
Pulmonary hypertension	Investigator review of codes
Implantable cardioverter defibrillator	Modified codes based on eligibility criteria, here we implement any care setting, any diagnosis position
Hyperkalemia	https://pmc.ncbi.nlm.nih.gov/articles/PMC4399109/
Coronary atherosclerosis	Investigator review of codes based on: https://pmc.ncbi.nlm.nih.gov/articles/PMC10251803/
Cerebrovascular procedure	Investigator review of codes, https://www.icd10data.com/
Insertion of pacemakers / removal of cardiac lead	Modified codes based on eligibility criteria, here we implement any care setting, any diagnosis position
CKD stage 1-2	Investigator review of codes based on: https://pubmed.ncbi.nlm.nih.gov/35043165/
CKD stage 3-4	Investigator review of codes based on: https://pmc.ncbi.nlm.nih.gov/articles/PMC2978782/
Unspecified CKD	Investigator review of codes based on: https://pmc.ncbi.nlm.nih.gov/articles/PMC5888226/
Acute kidney injury	Investigator review of codes based on: https://www.ncbi.nlm.nih.gov/pmc/articles/PMC8929186/
Hypertensive nephropathy	Investigator review of codes based on: https://nccd.cdc.gov/ckd/Methods.aspx?Qnum=Q637 , https://www.kidneymedicinejournal.org/cms/10.1016/j.xkme.2022.100414/attachment/5e29ab67-7a7d-4621-9af3-81bd071bbc67/mmc1.pdf , https://www.icd10data.com/ICD10CM/Codes/I00-I99
Urinary tract infections	Investigator reviewed code based on: https://pmc.ncbi.nlm.nih.gov/articles/PMC7558992/#app1-antibiotics-09-00536
Genital infections	Investigator reviewed codes based on: https://pubmed.ncbi.nlm.nih.gov/30207042/
Urolithiasis (kidney or urinary stones)	Investigator review of codes based on: https://pmc.ncbi.nlm.nih.gov/articles/PMC7793999/
COPD	Investigator review of codes based on: https://www.ncbi.nlm.nih.gov/pmc/articles/PMC10203971/
Asthma	Investigator review of codes based on: https://www.ncbi.nlm.nih.gov/pmc/articles/PMC10203971/, modified CCW algorithm (any care setting, any diagnosis position)
Obstructive sleep apnea	Investigator review of codes based on: https://www.ncbi.nlm.nih.gov/pmc/articles/PMC8636332/ , https://www.ncbi.nlm.nih.gov/pmc/articles/PMC7927325/
Serious bacterial infections	https://pubmed.ncbi.nlm.nih.gov/29921683/ , https://pubmed.ncbi.nlm.nih.gov/17346615/ , https://pubmed.ncbi.nlm.nih.gov/23335588/
Pneumonia	Investigator review of codes based on: https://www.ncbi.nlm.nih.gov/pmc/articles/PMC10203971/
Liver disease	https://dev.sentinelssystem.org/projects/AP/repos/sentinel-analytic-packages/browse?at=refs%2Fheads%2Fcder_sir_wp002 , https://dev.sentinelssystem.org/projects/AP/repos/sentinel-analytic-packages/browse?at=refs%2Fheads%2Fcder_mpl2p_wp015 , Modified algorithm from https://pubmed.ncbi.nlm.nih.gov/34256144/ , Modified CCW algorithm
MASH/MASLD	Investigator review of codes: https://pubmed.ncbi.nlm.nih.gov/32300995/ , https://pubmed.ncbi.nlm.nih.gov/39316292/
Fractures / Falls	https://dev.sentinelssystem.org/projects/AP/repos/sentinel-analytic-packages/browse?at=refs%2Fheads%2Fcder_mpl2p_wp015 , https://dev.sentinelssystem.org/projects/AP/repos/sentinel-analytic-packages/browse?at=cder_mpl2p_wp009 , https://dev.sentinelssystem.org/projects/AP/repos/sentinel-analytic-packages/browse?at=refs%2Fheads%2Fcder_mpl2p_wp015 , https://dev.sentinelssystem.org/projects/AP/repos/sentinel-analytic-packages/browse?at=cder_mpl2p_wp010
Osteoporosis	https://www.ncbi.nlm.nih.gov/pmc/articles/PMC8202643/ , https://dev.sentinelssystem.org/projects/AP/repos/sentinel-analytic-packages/browse?at=refs%2Fheads%2Fcder_sir_wp002 , CCW Algorithms

Osteoarthritis	Modified CCW algorithm
Depression	https://pubmed.ncbi.nlm.nih.gov/35043165/ , https://dev.sentinel-system.org/projects/AP/repos/sentinel-analytic-packages/browse?at=refs%2Fheads%2Fcdcr_mpl2p_wp015
Dementia	https://pubmed.ncbi.nlm.nih.gov/28485014/ , https://pubmed.ncbi.nlm.nih.gov/35043165/
Delirium or psychosis	https://pubmed.ncbi.nlm.nih.gov/35043165/
Anxiety	Investigator review of codes based on https://www.verywellhealth.com/sleeping-disorders-list-and-diagnostic-codes-3014779
Sleep disorder	Modified codes based on eligibility criteria, here we implement any care setting, any diagnosis position
Anemia	Investigator review of codes based on: https://pubmed.ncbi.nlm.nih.gov/38556924/
Influenza	https://pubmed.ncbi.nlm.nih.gov/34913208/ , https://www.ncbi.nlm.nih.gov/pmc/articles/PMC8427377/
COVID-19	Investigator review of codes based on: https://www.cms.gov/icd10m/version37-fullcode-cms/fullcode_cms/P0244.html
Hyperthyroidism and other thyroid gland disorders	Investigator review of codes based on: https://pmc.ncbi.nlm.nih.gov/articles/PMC10478599/
Hypothyroidism	Investigator review of codes based on: https://nccd.cdc.gov/ckd/Methods.aspx?Qnum=Q637 , https://www.cms.gov/icd10m/FY2024-nprmversion41.0-fullcode-cms/fullcode_cms/P2401.html
Nephrotic syndrome	Investigator review of codes based on: https://pubmed.ncbi.nlm.nih.gov/38527324/
Urinary incontinence	Investigator review of codes based on: https://pubmed.ncbi.nlm.nih.gov/37796527/ , https://pubmed.ncbi.nlm.nih.gov/35851329/ , https://pmc.ncbi.nlm.nih.gov/articles/PMC3985913/ , https://pubmed.ncbi.nlm.nih.gov/38503905/ , https://pubmed.ncbi.nlm.nih.gov/35513234/
Biliary disease	
Pancreatitis	Investigator review of codes: https://pubmed.ncbi.nlm.nih.gov/36222554/ , https://pubmed.ncbi.nlm.nih.gov/30287807/ , https://pubmed.ncbi.nlm.nih.gov/22262606/
Bowel obstruction	Investigator review of codes based on: https://pubmed.ncbi.nlm.nih.gov/36798959/ , https://pubmed.ncbi.nlm.nih.gov/28438588/ , https://pubmed.ncbi.nlm.nih.gov/31095068/
Gastroparesis	Investigator review of codes: https://pubmed.ncbi.nlm.nih.gov/34624355/
Number of antidiabetic drugs on CED	Investigator review of codes
Concomitant use or initiation of metformin	Investigator review of codes, https://www.drugs.com , https://www.ncbi.nlm.nih.gov/books/NBK518983/
Concomitant use or initiation of insulin	Investigator review of codes, https://www.drugs.com , https://www.ncbi.nlm.nih.gov/books/NBK278938/
Concomitant use or initiation of sulfonylureas	Investigator review of codes, https://www.drugs.com , https://www.ncbi.nlm.nih.gov/books/NBK513225/
Concomitant use or initiation of DPP4i	Investigator review of codes, https://www.drugs.com , https://www.ncbi.nlm.nih.gov/books/NBK542331/
Concomitant use or initiation of SGLT2i	Investigator review of codes, https://www.drugs.com , https://www.ncbi.nlm.nih.gov/books/NBK576405/
Concomitant use or initiation of other glucose-lowering drugs	Investigator review of codes, https://www.drugs.com , https://www.ncbi.nlm.nih.gov/books/NBK551656/ , https://pmc.ncbi.nlm.nih.gov/articles/PMC4882495/ , https://www.ncbi.nlm.nih.gov/books/NBK557848/
Past use of metformin	Investigator review of codes, https://www.drugs.com , https://www.ncbi.nlm.nih.gov/books/NBK518983/
Past use of insulin	Investigator review of codes, https://www.drugs.com , https://www.ncbi.nlm.nih.gov/books/NBK278938/
Past use of sulfonylureas	Investigator review of codes, https://www.drugs.com , https://www.ncbi.nlm.nih.gov/books/NBK513225/
Past use of DPP4i	Investigator review of codes, https://www.drugs.com , https://www.ncbi.nlm.nih.gov/books/NBK542331/
Past use of SGLT2i	Investigator review of codes, https://www.drugs.com , https://www.ncbi.nlm.nih.gov/books/NBK576405/
Past use of other glucose-lowering drugs	Investigator review of codes, https://www.drugs.com , https://www.ncbi.nlm.nih.gov/books/NBK551656/ , https://pmc.ncbi.nlm.nih.gov/articles/PMC4882495/ , https://www.ncbi.nlm.nih.gov/books/NBK557848/
ACEi / ARB	Investigator review of codes, https://www.drugs.com , https://www.ncbi.nlm.nih.gov/books/NBK9626/table/A66/
ARNI	Investigator review of codes, https://www.drugs.com , https://www.ncbi.nlm.nih.gov/books/NBK507904/
Thiazides	Investigator review of codes, https://www.drugs.com , https://www.ncbi.nlm.nih.gov/books/NBK9626/table/A66/
Beta-Blockers	Investigator review of codes, https://www.drugs.com , https://www.ncbi.nlm.nih.gov/books/NBK9626/table/A66/
Calcium channel blockers	Investigator review of codes, https://www.drugs.com , https://www.ncbi.nlm.nih.gov/books/NBK9626/table/A66/
Digoxin / Digitoxin	Investigator review of codes, https://www.drugs.com , https://www.ncbi.nlm.nih.gov/books/NBK556025/ , https://pubchem.ncbi.nlm.nih.gov/compound/441207
Loop diuretics	Investigator review of codes, https://www.drugs.com , https://www.ncbi.nlm.nih.gov/books/NBK9626/table/A66/
Other diuretics	Investigator review of codes, https://www.drugs.com , https://www.ncbi.nlm.nih.gov/books/NBK9626/table/A66/
Intravenous diuretics	Investigator review of codes
Nitrates	Investigator review of codes, https://www.drugs.com , https://www.ncbi.nlm.nih.gov/books/NBK9626/table/A66/

Anti-arrhythmics	Investigator review of codes, https://www.drugs.com , https://www.ncbi.nlm.nih.gov/books/NBK482322/ (using class I and class II as class 2 is beta blockers and class 4 is calcium channel blockers)
Statins	Investigator review of codes, https://www.drugs.com , https://www.heart.org/en/health-topics/cholesterol/prevention-and-treatment-of-high-cholesterol-hyperlipidemia/cholesterol-medications
PCSK9 inhibitors and other lipid-lowering drugs	Investigator review of codes, https://www.drugs.com , https://www.heart.org/en/health-topics/cholesterol/prevention-and-treatment-of-high-cholesterol-hyperlipidemia/cholesterol-medications
Antiplatelet agents	Investigator review of codes, https://www.drugs.com , https://www.ncbi.nlm.nih.gov/books/NBK537062/
Oral anticoagulants	Investigator review of codes, https://www.drugs.com , https://www.ahajournals.org/doi/full/10.1161/JAHA.120.017559
COPD/Asthma medication	Investigator review of codes, https://www.copdfoundation.org/Learn-More/I-am-a-Person-with-COPD/Treatments-Medications.aspx , https://getasthmahelp.org/medications-list.aspx
NSAIDs	Investigator review of codes, https://www.drugs.com , https://www.ncbi.nlm.nih.gov/books/NBK547742/
Oral corticosteroids	Investigator review of codes, https://www.drugs.com , https://www.aaaai.org/tools-for-the-public/drug-guide/oral-corticosteroid-medications
Osteoporosis agents (incl. bisphosphonates)	Investigator review of codes based on: https://www.drugs.com , https://www.ncbi.nlm.nih.gov/books/NBK470248/
Opioids	Investigator review of codes, https://www.drugs.com , https://pubmed.ncbi.nlm.nih.gov/31643200/#:~:text=They%20can%20also%20be%20informally,%2C%20codeine%2C%20oxycodone%2C%20hydrocodone%2C
Anti-depressants	Investigator review of codes, https://www.drugs.com , https://www.ncbi.nlm.nih.gov/books/NBK538182/
Antipsychotics	Investigator review of codes, https://www.drugs.com
Anxiolytics/hypnotics, benzodiazepines	Investigator review of codes, https://www.drugs.com , https://www.dea.gov/sites/default/files/2020-06/Benzodiazepenes-2020.pdf , https://www.ncbi.nlm.nih.gov/books/NBK470159/ , https://www.drugs.com
Medication for dementia	Investigator review of codes based on: https://www.drugs.com , https://www.ncbi.nlm.nih.gov/pmc/articles/PMC7462122/ , https://go.drugbank.com/drugs/DB00382
Urinary tract infections antibiotics	https://pubmed.ncbi.nlm.nih.gov/35790044/
Laxatives	Investigator review of codes, https://www.drugs.com
Number of distinct medications, median (iqr), mean (sd)	N/A
Number of office visits median (iqr), mean (sd)	https://www.cms.gov/files/document/mm13473-how-use-office-and-outpatient-evaluation-and-management-visit-complexity-add-code-g2211.pdf , https://www.cms.gov/files/document/physician-fee-schedule-pfs-payment-officeoutpatient-evaluation-and-management-em-visits-fact-sheet.pdf
Number of endocrinologist visits, median (iqr), mean (sd)	Data dictionary of Optum, Marketscan and https://www.cms.gov/Medicare/Provider-Enrollment-and-Certification/MedicareProviderSupEnroll/downloads/taxonomy.pdf , https://www.cms.gov/medicare/provider-enrollment-and-certification/medicareprovidersupenroll/downloads/taxonomycrosswalk.pdf
Number of cardiologist visits, median (iqr), mean (sd)	Data dictionary of Optum, Marketscan and https://www.cms.gov/Medicare/Provider-Enrollment-and-Certification/MedicareProviderSupEnroll/downloads/taxonomy.pdf , https://www.cms.gov/medicare/provider-enrollment-and-certification/medicareprovidersupenroll/downloads/taxonomycrosswalk.pdf
Number of internal medicine/family medicine visits, median (iqr), mean (sd)	Data dictionary of Optum, Marketscan and https://www.cms.gov/Medicare/Provider-Enrollment-and-Certification/MedicareProviderSupEnroll/downloads/taxonomy.pdf , https://www.cms.gov/medicare/provider-enrollment-and-certification/medicareprovidersupenroll/downloads/taxonomycrosswalk.pdf
Number of electrocardiograms, median (iqr), mean (sd)	https://www.cms.gov/medicare-coverage-database/view/article.aspx?articleId=57326 , https://firstcoastbillinggroup.com/ekg-billing-and-reimbursement/ , https://www.aapc.com/codes/coding-newsletters/my-cardiology-coding-alert/cpt-answer-5-common-ecg-coding-questions-175952-article
Number of echocardiograms, median (iqr), mean (sd)	https://www.ncbi.nlm.nih.gov/pmc/articles/PMC8511132/ , https://pubmed.ncbi.nlm.nih.gov/34778785/ , https://www.cms.gov/medicare-coverage-database/view/article.aspx?articleId=56625&ver=27& , https://www.medicalbillgurus.com/echocardiogram-cpt-code/
Pharmacy out-of-pocket cost, median (iqr), mean (sd)	N/A
Unique brand medications	Investigator review of codes, https://www.drugs.com
Unique generic medications	Investigator review of codes, https://www.drugs.com
Ratio of unique brand to generic medications	Investigator review of codes, https://www.drugs.com
Colonoscopy/ Sigmoidoscopy	https://dev.sentinelssystem.org/projects/AP/repos/sentinel-analytic-packages/browse?at=refs%2Fheads%2Fcdcr_sir_wp002

Flu vaccine / Pneumococcal vaccine	https://dev.sentinelssystem.org/projects/AP/repos/sentinel-analytic-packages/browse?at=refs%2Fheads%2Fcder_sir_wp002 , https://www.cms.gov/medicare-coverage-database/view/article.aspx?articleId=54767&DocID=A54767 , https://dev.sentinelssystem.org/projects/AP/repos/sentinel-analytic-packages/browse?at=refs%2Fheads%2Fcder_sir_wp002 , https://www.cms.gov/medicare-coverage-database/view/article.aspx?articleId=54767&DocID=A54767
Pap smear test	https://dev.sentinelssystem.org/projects/AP/repos/sentinel-analytic-packages/browse?at=refs%2Fheads%2Fcder_sir_wp002 , http://www.icd9data.com/2012/Volume1/V01-V91/V70-V82/V72/default.htm , http://www.icd9data.com/2012/Volume1/V01-V91/V70-V82/V76/default.htm
PSA test	https://dev.sentinelssystem.org/projects/AP/repos/sentinel-analytic-packages/browse?at=refs%2Fheads%2Fcder_sir_wp002
Fecal occult blood test	Investigator review of codes
Bone mineral density tests	N/A
Mammograms	Investigator review of codes based on: https://dev.sentinelssystem.org/projects/AP/repos/sentinel-analytic-packages/browse?at=refs%2Fheads%2Fcder_sir_wp002 , https://www.cms.gov/medicare-coverage-database/view/article.aspx?articleId=56448&ver=16&bc=0 , http://www.icd9data.com/2012/Volume1/V01-V91/V70-V82/V76/default.htm
Telemedicine	Investigator review of codes based on: https://pubmed.ncbi.nlm.nih.gov/33151319/ , https://www.cms.gov/newsroom/fact-sheets/medicare-telemedicine-health-care-provider-fact-sheet , https://www.aafp.org/family-physician/practice-and-career/getting-paid/coding/coding-telehealth-audio-virtual-digital-visits.html
Number of HbA1c tests, median (iqr), mean (sd)	https://pubmed.ncbi.nlm.nih.gov/34953068/
Number of lipid panels, median (iqr), mean (sd)	https://pubmed.ncbi.nlm.nih.gov/34953068/
Number of creatinine tests, median (iqr), mean (sd)	https://pubmed.ncbi.nlm.nih.gov/34953068/
Number of natriuretic peptide tests, median (iqr), mean (sd)	Investigator review of codes
Number of urine tests, median (iqr), mean (sd)	Investigator review of codes
HbA1c	N/A
Glucose	N/A
Creatinine	N/A
Systolic blood pressure	N/A
Heart rate	N/A
BMI	N/A
eGFR	N/A
LDL	N/A
HDL	N/A
Total cholesterol	N/A
Triglycerides	N/A
Combined comorbidity score	A combined comorbidity score predicted mortality in elderly patients better than existing scores, https://pubmed.ncbi.nlm.nih.gov/21208778/
Frailty score	Measuring Frailty in Medicare Data: Development and Validation of a Claims-Based Frailty Index, https://pubmed.ncbi.nlm.nih.gov/29244057/
Number of any hospitalization, median (iqr), mean (sd)	N/A
Any hospitalization within prior 90 days; n (%)	N/A
Any hospitalization within prior 91-365 days; n (%)	N/A
0, 1, >1 hospitalizations (any)	N/A
Hospitalization for heart failure; n (%)	N/A
Number of emergency department visit median (iqr), mean (sd)	Different in all 3 databases and measure already created in all 3 as well; ED visit (Medicare): Revenue center codes: 0450, 0451, 0452, 0456, 0459, 0981; Place of service: 23 ED visit (Optum): Place of service: 23 ED visit (Marketscan): Service sub-category codes: 10120, 10220, 10320, 10420, 10520, 12220, 20120, 20220, 21120, 21220, 22120, 22320, 30120, 30220, 30320, 30420, 30520, 30620, 31120, 31220, 31320, 31420, 31520, 31620; Place of service: 23
Calendar year	N/A