

The incidence of psychological comorbidities  
in paediatric and young adults with inflammatory bowel  
disease, and the impacts of mental health conditions on  
quality of life, disease severity and resource utilisation:  
a population-based cohort study in the UK

*Protocol*

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## Project highlights

- This study will provide the first UK-based population level analysis of the risk of psychological comorbidities in children, adolescents, and young adults with IBD. The data resulting from this project will provide a measure of the magnitude of any associations. These insights will be valuable for clinicians managing people IBD in this age range; allowing early interventions to be targeted to those most at risk, and potentially reducing the likelihood of more serious future mental health problems.
- The dataset available for use in this project is one of the highest quality primary care data sources available world-wide. It provides the complete coded primary care record with robust data on comorbidities and treatments. In the paediatric population complete records since birth are available for the majority of people.

- Our in-house matching algorithm ensures a higher quality of case-control matching than is available using any other existing statistical software or tools. This is vital to produce reliable data and satisfy external peer review. Matching within a population-based sample has additional advantages over the use of secondary care cohorts, US claim-based datasets, or disease registry datasets. These advantages include minimisation of bias in the control group and the opportunity to select a comparator group affected by another chronic condition.

## Background

Inflammatory bowel disease (IBD) comprises 3 main subtypes; ulcerative colitis (UC), Crohn's disease (CD) and IBD unclassified (IBDU). IBD develops at any age; with around 10% diagnosed in childhood.(1) Whilst UC is the most common subtype of IBD in adults, CD is more common in the paediatric IBD (PIBD) population. International trends have confirmed a global rise in the incidence of PIBD; in particular, a steep rise in the incidence of CD.(2) In Scotland, data shows a dramatic increase in PIBD, especially in incidence of CD which has risen 500% over just 40 years.(3)

PIBD is associated with more extensive disease compared to adult onset IBD, with additional considerations which include growth failure, delayed puberty, poor bone density and psychosocial impact during a vulnerable period of life.(1, 4) The goals of treating IBD are to induce and maintain remission and to avoid disease complications, drug-related complications and unnecessary surgery, psychological health, promoting a return to, and maintenance of, a normal lifestyle that includes education, family, social function and physical activity.(1, 5) Other essential goals in children include optimizing growth, puberty, and psychological health and promoting a return to, and maintenance of, a normal lifestyle that includes education, family, social function, and physical activity.(1)

Psychological comorbidities associated with PIBD include anxiety; which may be related to the perceived or actual side effects of IBD therapies, altered body image and a feeling of lack of control over their lives, and depression; associated with severe/active disease, current steroid use and the need for an ostomy.(6) Conflicting results and methodological constraints have limited previous understanding of psychosocial functioning in PIBD.(7) Reported rates of clinically significant symptoms of depression and anxiety have ranged from 25% to 73% in children and adolescents with PIBD.(6) However, recent studies highlight growing concerns for psychiatric morbidity in IBD in children and young adults. A US study(8) of 58,020 IBD patients aged 5-24 reported a prevalence of psychiatric disorders of 21.6%; mainly comprising depression and anxiety disorders. IBD was found to be 5 times more likely associated with psychiatric disorders than with controls, and the incidence of these disorders was associated with a steady increase in trend over time (2% in 2006 compared to 15% in 2017).(8) Similarly, Swedish data(9) from 6464 PIBD patients, indicate an association of IBD with psychiatric morbidity of 17.3%. Most concerning, this study reported IBD to be significantly associated with suicide attempt and as well as mood disorders, anxiety disorders, eating disorders, personality disorders, attention-deficit/hyperactivity disorder, and autism spectrum disorders. Results for each sex were similar. A correlation of age and development of psychiatric disorders was indicated for patients with very early-onset IBD (<6 years).

Furthering our understanding of the psychosocial sequelae of IBD in children and young adults is particularly important in light of evidence suggesting that symptoms of anxiety and depression may decrease adherence to treatment, thus impacting on longer term disease outcomes,(6) and has been emphasized in a recent call to action issued within gastroenterology to improve understanding and early identification of comorbidities associated with IBD.(10)

To the best of our knowledge, there have not been any large population-based studies assessing the association between psychosocial comorbidities in IBD in

children and young adults and disease related outcomes. The aim of this study is therefore to fill this data gap, and to examine the following objectives.

Such new insights will be valuable for clinicians in optimising patient care for IBD patients; allowing early interventions to be targeted to those most at risk, and potentially preventing the development of more serious mental health problems such as depression; linked to difficulties with medication adherence, and anxiety; which may exacerbate future disease activity.(7, 10)

Ultimately, we anticipate that these data will be useful in understanding the potential cycle and interrelationship between IBD and mental health in children and young adults.

## Objectives: Stream 1 – Incidence of mental health conditions

### Primary Objectives

- Compare the risk and cumulative incidence of mental health conditions in children and young adults with IBD compared to matched population controls in the primary care setting, stratified by IBD type

### Secondary Objectives

- Determine severity of mental health conditions in those with and without IBD (e.g. evidence of self-harm, suicide attempt, behavioural disorders)

## Objectives: Stream 2 – Impacts of mental health conditions

### Primary Objective:

- Determine the association of mental health conditions in children and young adults with IBD on quality-of-life indicators

### Secondary Objectives:

- Compare IBD severity/disease markers in children and young adults with IBD with and without mental health illness

- Compare healthcare resource utilisation in children and young adults with IBD with and without mental health illness

## Methods

The study protocol was specified a priori and registered with ClinicalTrials.gov (Study identifier: NCT05206734).

### Data source

The Optimum Patient Care Research Database (OPCRD). This database incorporates pseudonymised primary care records from 700 GP practices distributed across England, Wales, Scotland and Northern Ireland. The current OPCRD cohort size is over 5 million actively registered people, and historic records available for 10.1 million people. The cohort dataset can be enhanced through direct-to-patient and direct-to-care provider questionnaires at additional cost if required.

### Study design

The proposed study will use the retrospectively collected data of all eligible patients within the database at the date of data extraction. Within this primary care cohort, all patients with IBD comprising of the three main subtypes; ulcerative colitis (UC), Crohn's disease (CD) and IBD unclassified (IBDU), excluding microscopic colitis, radiation induced enterocolitis and drug-induced enterocolitis, will be identified using diagnostic codes and prescription records. A diagnostic algorithm will be developed to facilitate robust case identification of IBD and IBD subtypes, as well as mental health outcomes.

### Statistical methods

We will use standard descriptive statistics (mean, standard deviations, etc) to describe the characteristics of the study cohort.

## Recorded sociodemographic characteristics and clinical features

Sociodemographic data will comprise by age group, age at diagnosis, gender, ethnicity, and socioeconomic status. Ethnicity will be categorised as follows to be consistent with the UK official census categories: White, Asian, Black African/Caribbean, Mixed, and Other. The index of multiple deprivation (IMD) will be used as a measure of socioeconomic status. This is derived from patient postcode at the point of data extraction.

## Stream 1: Study Cohort

### Stream 1: Definition of people with new onset IBD

The eligible PIBD cases will comprise all incident cases of PIBD over the last decade, we will not follow patients up beyond 01/01/2020 due to changes in patient health behaviour and primary care interactions due to COVID-19. We will extract sociodemographic details for all these cases and matched controls (described below). Sociodemographic data will comprise by age group, gender, ethnicity, and socioeconomic status. Ethnicity will be categorised as follows to be consistent with the UK official census categories: White, Asian, Black African/Caribbean, Mixed, and Other. The index of multiple deprivation (IMD) will be used as a measure of socioeconomic status. This is derived from patient postcode at the point of data extraction.

### Stream 1: Definition of matched controls without IBD

We will match each incident case of PIBD with controls (children without IBD) using propensity score matching (matching on the sociodemographic variables list above and matching within primary care practice if numbers allow). People with a known diagnosis of irritable bowel syndrome (IBS) will be excluded from the potential pool of controls. We will compare the incidence of new onset mental health conditions in PIBD and controls using a similar approach to that used by Butwick et al. (2019) in their paper exploring psychiatric disorders in a

PIBD cohort in Sweden.(9) The mental health conditions to be examined are listed in table 1 although there is scope to add to or modify these in discussion with the study authors. For a composite ‘any psychological condition’ outcome (see Table 1), risk will be stratified by age of PIBD onset and sex.

We will then go beyond the analysis of the Swedish study to estimate the cumulative risk of the ‘any psychological condition’ composite outcome in PIBD patients compared with controls. This will provide a unique, robust, estimate of the overall mental health burden (prevalence) in PIBD.

Condition	Description
<b>Primary outcomes</b>	
Any psychological condition	A composite of all the chronic psychiatric conditions listed below* (depression, anxiety, eating disorders, body image disorder, attention-deficit disorder, behavioural disorders, adjustment disorder, acute stress disorder, and post-traumatic stress disorder)
Depression	Major recurrent depression or treated depressive episode
Anxiety	Non-phobia related anxiety episodes or disorder
<b>Secondary outcomes</b>	
Self-harm	Any coded episode of deliberate self-harm of any type
Suicide attempt	Any episode of suicide attempt and suicide related codes, including deliberate medication overdose
Other chronic psychiatric conditions	Eating disorders, body image disorder, attention-deficit disorder (ADHD), behavioural disorders, adjustment disorder, acute stress disorder, schizophrenia, bipolar disorder and post-traumatic stress disorder (PTSD)
Others	Problems with sleep

\*this excludes conditions which are potentially single events i.e. self-harm or suicide attempt. (See Appendix 1 – Table s3 for Read Codes and SNOMED Codes



for mental health conditions, Table s4 for mental health condition algorithms and Table s5 for WHO ICD-10 mental health conditions).

### Stream 1: Incidence of mental health conditions

The study will report the incidence of each mental health condition overall in the PIBD cases and controls, and adjusted hazard ratios to test the association between PIBD and risk of the same mental health conditions. Within the PIBD cohort we will examine the relationship between PIBD age of onset, sex, ethnicity, and social deprivation and the 'any psychological condition' composite outcome.

Cox proportional hazards models will be used to compare disease incidence in PIBD cases and controls and also when comparing the associations of baseline features and outcomes within the PIBD cohort. The study start date will be the date of diagnosis of PIBD or, for controls, the date of diagnosis of their matched counterpart. The end of follow-up will be the first of; the point of data extraction (**exact date TBC**), the patient's 25<sup>th</sup> birthday, date of loss to follow-up (either GP practice deregistration or death). All individuals contributing at least six months of follow-up time in the analysis will be included. Those with existing evidence of the mental health condition prior to baseline will be excluded for analysis of that particular outcome where it would not reoccur, for example if individual has already received a diagnosis of recurrent depressive disorder they would not receive this diagnosis again, although conditions at baseline that can reoccur, such as suicide attempt, would not be excluded. Models will be adjusted for age, gender, socioeconomic status, ethnicity, and other childhood conditions (asthma, atopic dermatitis, allergic rhinitis, thyroid disease, epilepsy, diabetes, cancer, juvenile idiopathic arthritis (JIA) including systemic JIA, systemic lupus erythematosus (lupus), ankylosing spondylitis (AS) and psoriatic arthritis). Statistical significance for analyses will be reported using P values and 95% confidence intervals as appropriate.

Cumulative risk (i.e. prevalence) of the 'any psychological condition' composite outcome will be evaluated up to age 25. Cumulative incidence will be calculated by using methods to estimate risk similar to those recently published when assessing lifetime risk of other chronic conditions in the Lancet.(11, 12) Key outputs will be cumulative risk plots, presenting the cumulative incidence of the outcome by age for PIBD patients compared to controls. At a particular age, the cumulative incidence estimate can be interpreted as the lifetime incidence of the outcome up until the year of age in question. Childhood cumulative risk will be defined as the cumulative incidence at age 18.

### Stream 1: Sensitivity analysis

To evaluate the magnitude of potential bias from including, as matched controls, people who are registered with GP practices but who do not attend their practice, we also repeated the primary analysis including only controls with a least one primary care consultation in the year preceding their index date.

All statistical analyses were performed using R statistical package software version 3.4.1. The study was conducted in line with the RECORD (Reporting of studies conducted using observational routinely collected data) guidelines.(13)

### Stream 2:

#### Stream 2: Study design

The proposed study will use the retrospectively collected data of all eligible patients within the database at the date of data extraction. Within this primary care cohort, all patients with IBD will be identified using diagnostic codes and prescription records. A diagnostic algorithm will be developed to facilitate robust case identification of IBD and IBD subtypes as well as mental health outcomes.

## Stream 2: Study cohort

The eligible IBD cases will comprise all prevalent cases of IBD aged under 25 at 01/01/2015 (index date) comprising of the three main subtypes; ulcerative colitis (UC), Crohn's disease (CD) and IBD unclassified (IBDU), excluding microscopic colitis, radiation induced enterocolitis and drug-induced enterocolitis. We will extract sociodemographic details for all individuals. Sociodemographic data will comprise by age group, age at diagnosis, sex, ethnicity, and socioeconomic status. Ethnicity will be categorised as follows to be consistent with the UK official census categories: White, Asian, Black African/Caribbean, Mixed, and Other. The index of multiple deprivation (IMD) will be used as a measure of socioeconomic status. This is derived from patient postcode at the point of data extraction.

We will identify comorbid psychological condition groups in all people with PIBD. These will comprise 3 composite phenotypes; anxiety/panic disorders, major depression or depressive episodes, and other psychological conditions. Other psychological conditions will be a composite of; eating disorders, body image disorder, attention-deficit disorder (ADHD), behavioural disorders, adjustment disorder, acute stress disorder, schizophrenia, bipolar disorder and post-traumatic stress disorder (PTSD). Where numbers are sufficient, subgroups of the broad 'other psychological conditions' composite may be examined.

At the index date, we will define groups in the IBD case population based on mental health phenotype, including a comparator group without mental health comorbidity at the index date, and compare the sociodemographic characteristics of these groups.

## Stream 2: Follow-up

We will then describe incidence of each study outcome in the five years after the index date for each group, and the relative incidence of each outcome in those with and without mental health comorbidity.

## Stream 2: Study outcomes

These will comprise the following.

### **Quality of life indicators:**

Affective symptoms (depression, low mood, deliberate self-harm, suicidal ideation or parasuicide), IBD symptoms, absence from school, absence from work, unemployment, substance abuse, and sleep problems. IBD symptoms will comprise; abdominal pain, discomforts or bloating, diarrhoea, weight loss, growth retardation and tiredness/fatigue. (See Appendix 1 – Table s1 for Read Codes and SNOMED codes).

### **IBD severity indicators:**

Medication use, surgical intervention, nutritional supplement use, and markers of nutritional status. Surgical intervention will comprise any abdominal surgery, and stoma formation (as a separate outcome). Medication use will comprise use of: rectal 5-aminosalicylic acid (5-ASA), oral 5-ASA, rectal steroids, oral steroids, antimetabolites, tumour necrosis factor inhibitors (TNFi) and other biologic therapies. The latter of these groups may not be well captured in primary care and if so this will be reported in the limitations section of the final study manuscript. Nutritional supplements will comprise the five most prescribed nutritional supplements: Modulen, Fortisip, Ensure, Osmolite, and Neocate. Nutritional markers will comprise; being underweight (under the 5<sup>th</sup> centile of weight for height or BMI < 18.5 kg/m<sup>2</sup> after age 18) and growth retardation related codes. (See Appendix 1 – Table s2 for Read Codes and SNOMED codes).

### **Healthcare resource utilisation:**

Primary care attendances and hospital admissions. Hospital admissions will be separated into general admissions (including those for IBD) and psychiatric admissions. (See Appendix 1 – Table s2 for Read Codes and SNOMED codes).

## Stream 2: Statistical methods

We will use standard descriptive statistics (mean, standard deviations, etc) to describe the characteristics of the study cohort overall and by mental health phenotype. Across mental health condition phenotypes we will describe the incidence of recording of all the quality-of-life indicators, IBD severity markers, and healthcare resource utilisation outcomes up to five years after the index date (01/01/2015), compared to incidence in the group without mental health conditions. The end of follow-up will be the first of; 01/01/2020 (5 years after the index date) we will not follow patients up into 2020/21 due to changes in patient health behaviour and primary care interactions due to COVID-19, the patient's 25<sup>th</sup> birthday, date of loss to follow-up (either deregistration or death). All individuals contributing at least six months of follow-up time in the analysis will be included. We will not follow patients up into 2020/21 due to changes in patient health behaviour and primary care interactions due to COVID-19.

Relative incidence between those with and without mental health conditions will be estimated for repeated events (e.g. number of hospital admissions) and binary events (e.g. quality of life indicators) using, as appropriate, Poisson regression, negative binomial regression (if we need to account for overdispersion), or zero-inflated Poisson regression (if we need to model rare events). To account for variable duration of follow-up, we will include the natural logarithm of person-years of follow-up as a model offset. Confidence intervals will be estimated using robust SEs. Models will be adjusted for age, gender, socioeconomic status, ethnicity, and other childhood conditions (asthma, atopic dermatitis, allergic rhinitis, thyroid disease, epilepsy, diabetes, cancer, juvenile idiopathic arthritis (JIA) including systemic JIA, systemic lupus erythematosus (lupus), ankylosing spondylitis (AS) and psoriatic arthritis). Statistical significance for analyses will be reported using P values and 95% confidence intervals as appropriate.

Where numbers allow, we will report absolute and relative incidence in subgroups by, mental health condition group, age group (5-<12; 12-<16; 16-<18; 18-<25) (child, adolescent, young adult), and sex.

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## Appendices

### Appendix 1

**sTable 1.1.** Read and SNOMED codes to be used to identify cases of IBD and IBD subtypes

<b>Ulcerative Colitis (UC)</b>		
<b>Read V2 Code</b>	<b>Term ID</b>	<b>Description</b>
J41..	All	Ulcerative colitis and/or proctitis
J410.	All	Ulcerative proctocolitis
J4100	All	Ulcerative ileocolitis
J4101	All	Ulcerative colitis
J4102	All	Ulcerative rectosigmoiditis
J4103	All	Ulcerative proctitis
J4104	All	Exacerbation of ulcerative colitis
J410z	All	Ulcerative proctocolitis NOS
J411.	All	Ulcerative (chronic) enterocolitis
J412.	All	Ulcerative (chronic) ileocolitis
J413.	All	Ulcerative pancolitis
N0454	All	Juvenile arthritis in ulcerative colitis
N0310	All	Arthropathy in ulcerative colitis
<b>Read CTV3 Code</b>	<b>Term ID</b>	<b>Description</b>
XE0ag	All	Ulcerative colitis
XaZ2j	All	Left sided ulcerative colitis
XaYzX	All	Ulcerative pancolitis



XaK6E	All	Exacerbation of ulcerative colitis
J410.	All	Ulcerative proctocolitis
J4100	All	Ulcerative ileocolitis
J410z	All	Ulcerative proctocolitis NOS
J4103	Y30D7	Ulcerative proctitis
Jyu41	All	[X]Other ulcerative colitis
<b>SNOMED Code</b>	<b>Term ID</b>	<b>Description</b>
13470001		Chronic ulcerative ileocolitis (disorder)
14311001		Severe chronic ulcerative colitis (disorder)
15342002		Chronic ulcerative enterocolitis (disorder)
24829000		Eosinophilic ulcerative colitis (disorder)
43752006		Ulcerative colitis and/or proctitis
52231000		Chronic ulcerative proctitis (disorder)
52506002		Chronic ulcerative rectosigmoiditis (disorder)
64766004		Ulcerative colitis (disorder)
78324009		Mild chronic ulcerative colitis (disorder)
78712000		Moderate chronic ulcerative colitis (disorder)
128600008		Acute ulcerative colitis (disorder)
155764007		Ulcerative colitis
196986004		Ulcerative proctocolitis
196987008		Ulcerative ileocolitis
196988003		Ulcerative colitis
196989006		Ulcerative proctocolitis
196990002		Ulcerative proctocolitis NOS
196991003		Ulcerative enterocolitis
196992005		Ulcerative ileocolitis
197535008		[X]Other ulcerative colitis
201727001		Arthropathy in ulcerative colitis (disorder)

201807008		Juvenile arthritis in ulcerative colitis (disorder)
235714007		Ulcerative enterocolitis (disorder)
266447004		Ulcerative colitis
275549008		History of ulcerative colitis (situation)
295046003		Ulcerative proctocolitis (disorder)
404908004		Toxic megacolon due to ulcerative colitis (disorder)
410484008		Iritis with ulcerative colitis (disorder)
414156000		Exacerbation of ulcerative colitis (disorder)
441971007		Chronic left-sided ulcerative colitis (disorder)
442159003		Chronic ulcerative pancolitis (disorder)
444546002		Chronic ulcerative colitis (disorder)
444548001		Ulcerative pancolitis (disorder)
445243001		Left sided ulcerative colitis (disorder)
697969008		Ulcerative colitis in remission (disorder)
732966008		Secondary autoimmune hemolytic anemia co-occurrent and due to ulcerative colitis (disorder)
1085131000119105'		Abscess of intestine co-occurrent and due to chronic ulcerative pancolitis (disorder)
1085141000119101'		Complication due to chronic ulcerative pancolitis (disorder)
1085151000119104'		Fistula of intestine due to chronic ulcerative pancolitis (disorder)
1085161000119102'		Intestinal obstruction due to chronic ulcerative pancolitis (disorder)
1085171000119108'		Rectal hemorrhage due to chronic ulcerative pancolitis (disorder)
1085181000119106'		Abscess of intestine co-occurrent and due to chronic ulcerative proctitis (disorder)
1085191000119109'		Complication due to chronic ulcerative proctitis (disorder)
1085201000119107'		Fistula of intestine due to chronic ulcerative proctitis
1085211000119105'		Intestinal obstruction due to chronic ulcerative proctitis (disorder)
1085221000119103'		Rectal hemorrhage due to chronic ulcerative proctitis

1085231000119100'		Abscess of intestine co-occurrent and due to chronic ulcerative rectosigmoiditis (disorder)
1085241000119109'		Complication due to chronic ulcerative rectosigmoiditis (disorder)
1085251000119106'		Fistula of large intestine due to chronic ulcerative rectosigmoiditis (disorder)
1085261000119108'		Intestinal obstruction due to chronic ulcerative rectosigmoiditis (disorder)
1085271000119102'		Rectal hemorrhage due to chronic ulcerative rectosigmoiditis (disorder)
1092841000119100'		Abscess of intestine co-occurrent and due to ulcerative colitis (disorder)
1092851000119103'		Complication due to ulcerative colitis (disorder)
1092861000119101'		Fistula of intestine due to ulcerative colitis (disorder)
1092871000119107'		Intestinal obstruction due to ulcerative colitis (disorder)
1092881000119105'		Rectal hemorrhage due to ulcerative colitis (disorder)
<b>Crohn's Disease (CD)</b>		
<b>Read V2 Code</b>	<b>Term ID</b>	<b>Description</b>
J40..	All	Regional enteritis- Crohn's disease
J400.	All	Regional enteritis of the small bowel
J4000	All	Regional enteritis of the duodenum
J4001	All	Regional enteritis of the jejunum
J4002	All	Crohn's disease of the terminal ileum
J4003	All	Crohn's disease of the ileum unspecified
J4004	All	Crohn's disease of the ileum NOS
J4005	All	Exacerbation of Crohn's disease of small intestine
J400z	All	Crohn's disease of the small bowel NOS
J4010	All	Regional enteritis of the colon
J4011	All	Regional enteritis of the rectum
J4012	All	Exacerbation of Crohn's disease of large intestine
J401z	All	Crohn's disease of the large bowel NOS
J40z.	All	Crohn's disease NOS
<b>Read CTV3 Code</b>	<b>Term ID</b>	<b>Description</b>

XE2QL	All	Crohn's disease
Xa0lh	All	Regional enteritis
X302r	All	Crohn's jejunitis
X302t	All	Crohn's ileitis
J4003	All	Crohn's disease of the ileum unspecified
J4004	All	Crohn's disease of the ileum NOS
J4002	All	Crohn's disease of terminal ileum
J400.	All	Regional enteritis of small bowel
XaK6C	All	Exacerbation of Crohn's disease of small intestine
J400z	All	Crohn's disease of the small bowel NOS
J401.	All	Regional enteritis of the large bowel
XE0af	All	Crohn's disease of the large bowel NOS
XaK6D	All	Exacerbation of Crohn's disease of large intestine
J40z.	All	Regional enteritis NOS
J4010	All	Crohn's colitis
J4011	All	Crohn's proctitis
X3050	All	Perianal Crohn's disease
J4001	Y30Fy	Regional enteritis of the jejunum
Jyu40	All	[X]Other Crohn's disease
<b>SNOMED Code</b>	<b>Term ID</b>	<b>Description</b>
3815005		Crohn's disease of rectum (disorder)
7620006		Crohn's disease of large bowel (disorder)
34000006		Crohn's disease (disorder)
38106008		Crohn's disease of ileum (disorder)
50440006		Crohn's disease of colon (disorder)
56287005		Crohn's disease of duodenum (disorder)
56689002		Crohn's disease of small intestine (disorder)
61424003		Crohn's disease of pylorus (disorder)

70622003		Crohn's disease of pyloric antrum (disorder)
71833008		Crohn's disease of small AND large intestines (disorder)
91390005		Crohn's disease of jejunum (disorder)
155761004		Regional enteritis of small bowel
155762006		Regional enteritis of the large bowel
155763001		Regional enteritis NOS
196578009		Crohn's disease of oral soft tissues (disorder)
196975001		Regional enteritis - Crohn's disease
196976000		Regional enteritis of the jejunum
196977009		Crohn's disease of terminal ileum (disorder)
196978004		Crohn's disease of the ileum unspecified
196979007		Crohn's disease of the ileum NOS
196980005		Crohn's disease of the small bowel NOS
196981009		Regional enteritis of the large bowel
196982002		(Crohn's colitis) or (Crohn's disease of the large bowel NOS)
197534007		[X]Other Crohn's disease
201728006		Arthropathy in Crohn's disease (disorder)
201805000		Juvenile arthritis in Crohn's disease (disorder)
234999001		Crohn's disease of gingivae (disorder)
235607002		Crohn's disease of esophagus (disorder)
235664007		Crohn's disease of stomach (disorder)
235796008		Perianal Crohn's disease (disorder)
266446008		Crohn's disease of the large bowel NOS
266517004		Regional enteritis - Crohn
273364009		Crohn's disease activity index (assessment scale_
278522007		Regional enteritis
397172008		Gastrointestinal Crohn's disease (disorder)
397173003		Crohn's disease of intestine (disorder)

399946006		Crohn's disease of skin (disorder)
402375009		Crohn's disease of vulva (disorder)
402376005		Crohn's disease of penis (disorder)
402377001		Crohn's disease of scrotum (disorder)
402378006		Metastatic Crohn's disease of skin (disorder)
410485009		Iritis with Crohn's disease (disorder)
413276006		Crohn's stricture of colon (disorder)
414153008		Exacerbation of Crohn's disease of large intestine (disorder)
414154002		Exacerbation of Crohn's disease of small intestine (disorder)
426549001		Crohn's disease in remission (disorder)
721702009		Crohn disease of anal canal (disorder)
722850002		Crohn's disease of gastrointestinal anastomosis (disorder)
726101009		Extraintestinal Crohn's (disorder)
733157003		Crohn disease of appendix (disorder)
733533008		Perianal fistula due to Crohn's disease (disorder)
737195007		Crohn disease of upper gastrointestinal tract (disorder)
8161000119106'		Arthritis co-occurrent and due to Crohn's disease (disorder)
112561000119108'		History of Crohns disease (situation)
1085751000119100'		Abscess of intestine co-occurrent and due to Crohn's disease of large intestine (disorder)
1085761000119103'		Complication due to Crohn's disease of large intestine (disorder)
1085771000119109'		Fistula of large intestine due to Crohn's disease (disorder)
1085781000119107'		Intestinal obstruction due to Crohn's disease of large intestine (disorder)
1085791000119105'		Rectal hemorrhage due to Crohn's disease of large intestine (disorder)
1085801000119106'		Abscess of intestine co-occurrent and due to Crohn's disease of small and large intestine (disorder)
1085811000119109'		Complication due to Crohn's disease of small and large intestines (disorder)
1085821000119102'		Fistula of intestine due to Crohn's disease of small and large intestine (disorder)

1085831000119104'		Intestinal obstruction due to Crohn's disease of small and large intestine (disorder)
1085841000119108'		Rectal hemorrhage due to Crohn's disease of small and large intestines (disorder)
1085851000119105'		Abscess of intestine co-occurrent and due to Crohn's disease of small intestine (disorder)
1085861000119107'		Complication due to Crohn's disease of small intestine (disorder)
1085871000119101'		Fistula of small intestine due to Crohn's disease (disorder)
1085881000119103'		Intestinal obstruction due to Crohn's disease of small intestine (disorder)
1085891000119100'		Rectal hemorrhage due to Crohn's disease of small intestine (disorder)
1085901000119101'		Abscess of intestine co-occurrent and due to Crohn's disease (disorder)
1085911000119103'		Complication due to Crohn's disease (disorder)
1085931000119108'		Intestinal obstruction due to Crohn's disease (disorder)
1085941000119104'		Rectal hemorrhage due to Crohn's disease (disorder)
10743231000119101'		Stenosis of small intestine co-occurrent and due to Crohn's disease (disorder)

<b>Inflammatory Bowel Disease unclassified (IBDU)</b>		
<b>Read V2 Code</b>	<b>Term ID</b>	<b>Description</b>
J4...	All	Inflammatory bowel disease
J402.	All	Regional ileocolitis
J41y.	All	Other idiopathic proctocolitis
J41y1	All	Toxic megacolon
J41yz	All	Other idiopathic proctocolitis NOS
J41z.	All	Idiopathic proctocolitis NOS
J43..	All	Other non-infective inflammatory gastroenteritis and colitis
J435.	All	Pouchitis

J437.	All	Colitis
J438.	All	Left sided colitis
J4z2.	All	Non-infective ileitis NOS
J4z3.	All	Non-infective colitis NOS
J4z4.	All	Non-infective sigmoiditis NOS
J4z5.	All	Exacerbation of non-infective colitis
J4z6.	All	Indeterminate colitis
<b>Read CTV3 Code</b>	<b>Term ID</b>	<b>Description</b>
XE0ae	All	Inflammatory bowel disease
J402.	All	Regional ileocolitis
X303k	All	Indeterminate colitis
J41y1	All	Toxic megacolon
XaB5z	All	Enterocolitis
XE0aj	All	Other non-infective inflammatory gastroenteritis and colitis
Xa3fm	All	Non-infective gastrointestinal inflammation, NOS
XaB5x	All	Non-infective enteritis and colitis
XaK6F	All	Exacerbation of non-infective colitis
X303f	All	Colitis
XaRD4	All	Eosinophilic colitis
X303j	All	Non-Crohn's granulomatous colitis
Xa7nY	All	Non-infective colitis
J4z3.	All	Non-infective colitis NOS
X304G	All	Sigmoiditis
J4z4.	All	Non-infective sigmoiditis NOS
X3047	All	Proctitis
J574C	All	Proctitis NOS
X303e	All	Proctocolitis
J41y.	All	Other idiopathic proctocolitis



J41yz	All	Other idiopathic proctocolitis NOS
J41z.	All	Idiopathic proctocolitis NOS
X304F	All	Caecitis
<b>SNOMED Code</b>	<b>Term ID</b>	<b>Description</b>
24526004		Inflammatory bowel disease (disorder)
721686000		Inflammatory polyps co-occurrent and due to inflammatory bowel disease (disorder)
6382002		Chronic inflammatory small bowel disease (disorder)
771333006		Immune dysregulation, inflammatory bowel disease, arthritis, recurrent infection syndrome (disorder)
128999004		Inflammatory disorder of digestive tract (disorder)
64226004		Colitis
54597004		Chronic colitis (disorder)
369445005		Chronic proctocolitis (disorder)
369447002		Chronic proctocolitis, confluent (disorder)
369446006		Chronic proctocolitis, patchy (disorder)
52506002		Chronic ulcerative rectosigmoiditis (disorder)
373639002		Distal colitis (disorder)
51290000		Diversion colitis (disorder)
29120000		Eosinophilic colitis (disorder)
783185002		Focal active colitis (disorder)
359660000		Idiopathic colitis (disorder)
235746007		Indeterminate colitis (disorder)
43752006		Inflammation of small intestine and colon (disorder)
13470001		Chronic ulcerative ileocolitis (disorder)
71207007		Noninfectious enteritis (disorder)
735731005		Chronic non-infectious enteritis of uncertain etiology (disorder)
307418008		Non-infective enteritis and colitis (disorder)
14066009		Noninfectious colitis (disorder)

414155001		Exacerbation of non-infective colitis (disorder)
53372009		Noninfectious sigmoiditis (disorder)
788718000		Iritis co-occurrent with inflammatory bowel disease (disorder)
64613007		Inflammation of small intestine (disorder)
52457000		Ileitis (disorder)
51151007		Noninfectious ileitis (disorder)
196983007		Regional ileocolitis (disorder)
302168000		Inflammation of large intestine (disorder)
3951002		Proctitis (disorder)
313327004		Inflammatory cloacogenic polyp (disorder)
28536002		Toxic megacolon (disorder)

**sTable 1.2** WHO International Statistical Classification of Diseases (ICD-10) to be used to codes to be used to identify cases of IBD and IBD subtypes

<b>Clinical entity</b>	<b>ICD 10 code</b>	<b>Definition</b>
Crohn's disease	K50	Any diagnostic or indicative code for Crohn's disease, excluding ulcerative colitis
Ulcerative colitis	K51	Any diagnostic or indicative code for ulcerative colitis

## Appendix 2

**sTable 2.1** Read and SNOMED codes to be used to identify mental health conditions

<b>Depressive episode</b>		
<b>Read V2 Code</b>	<b>Term ID</b>	<b>Description</b>
E112.	All	Single major depressive episode
E1120	All	Single major depressive episode, unspecified
E1121	All	Single major depressive episode, mild
E1122	All	Single major depressive episode, moderate
E1123	All	Single major depressive episode, severe, without mention of psychosis
E1124	All	Single major depressive episode, severe, with psychosis
E1125	All	Single major depressive episode, in partial or unspecified remission
E1126	All	Single major depressive episode, in full remission
E112z	All	Single major depressive episode NOS
E113.	All	Recurrent major depressive episode
E1130	All	Recurrent major depressive episodes, unspecified
E1131	All	Recurrent major depressive episodes, mild
E1132	All	Recurrent major depressive episodes, moderate
E1133	All	Recurrent major depressive episodes, severe, without mention of psychosis
E1134	All	Recurrent major depressive episodes, severe, with psychosis
E1137	All	Recurrent depression
E113z	All	Recurrent major depressive episode NOS
E118.	All	Seasonal affective disorder
E11y2	All	Atypical depressive disorder

E11z2	All	Masked depression
E130.	All	Reactive depressive psychosis
E135.	All	Agitated depression
E2003	All	Anxiety with depression
E291.	All	Prolonged depressive reaction
E2B..	All	Depressive disorder NEC
E2B1.	All	Chronic depression
E2B0.	All	Postviral depression
Eu204	All	[X]Post-schizophrenic depression
Eu251	All	[X]Schizoaffective disorder, depressive type
Eu32.	All	[X]Depressive episode
Eu320	All	[X]Mild depressive episode
Eu321	All	[X]Moderate depressive episode
Eu322	All	[X]Severe depressive episode without psychotic symptoms
Eu323	All	[X]Severe depressive episode with psychotic symptoms
Eu324	All	[X]Mild depression
Eu325	All	[X]Major depression, mild
Eu326	All	[X]Major depression, moderately severe
Eu327	All	[X]Major depression, severe without psychotic symptoms
Eu328	All	[X]Major depression, severe with psychotic symptoms
Eu32y	All	[X]Other depressive episodes
Eu32z	All	[X]Depressive episode, unspecified
Eu33.	All	[X]Recurrent depressive disorder
Eu330	All	[X]Recurrent depressive disorder, current episode mild
Eu331	All	[X]Recurrent depressive disorder, current episode moderate

Eu332	All	[X]Recurrent depressive disorder, current episode severe without psychotic symptoms
Eu333	All	[X]Recurrent depressive disorder, current episode severe with psychotic symptoms
Eu334	All	[X]Recurrent depressive disorder, currently in remission
Eu33y	All	[X]Other recurrent depressive disorders
Eu33z	All	[X]Recurrent depressive disorder, unspecified
Eu412	All	[X]Mixed anxiety and depressive disorder
<b>Read CTV3 Code</b>	<b>Term ID</b>	<b>Description</b>
X00Sb	All	Mixed anxiety and depressive disorder
X00SO	All	Depressive disorder
X761L	All	Seasonal affective disorder
Xa0wV	All	Recurrent brief depressive disorder
X00SQ	All	Agitated depression
XE1YC	All	Reactive depression
X00SR	All	Endogenous depression
X00SS	All	Endogenous depression first episode
XE1Y0	All	Single major depressive episode
E1120	All	Single major depressive episode, unspecified
E1121	All	Single major depressive episode, mild
E1122	All	Single major depressive episode, moderate
E1123	All	Single major depressive episode, severe, without mention of psychosis
E1124	All	Single major depressive episode, severe, with psychosis
XaX53	All	Single major depressive episode, severe, with psychosis, psychosis in remission
E1125	All	Single major depressive episode, in partial or unspecified remission
E1126	All	Single major depressive episode, in full remission
E112z	All	Single major depressive episode NOS

XM1GC	All	Endogenous depression - recurrent
E1130	All	Recurrent major depressive episodes, unspecified
E1131	All	Recurrent major depressive episodes, mild
E1132	All	Recurrent major depressive episodes, moderate
E1133	All	Recurrent major depressive episodes, severe, without mention of psychosis
E1134	All	Recurrent major depressive episodes, severe, with psychosis
E1135	All	Recurrent major depressive episodes, in partial or unspecified remission
E1136	All	Recurrent major depressive episodes, in full remission
E113z	All	Recurrent major depressive episode NOS
X00SU	All	Masked depression
E11y2	All	Atypical depressive disorder
X00S8	All	Post-schizophrenic depression
XSEGJ	All	Major depressive disorder
XSKr7	All	Cotard syndrome
XSGol	All	Moderate major depression
XSGok	All	Mild major depression
XSGom	All	Severe major depression without psychotic features
XSGon	All	Severe major depression with psychotic features
E1137	All	Recurrent depression
E130.	All	Reactive depressive psychosis
E2B..	All	Depressive disorder NEC
E2B0.	All	Postviral depression
E2B1.	All	Chronic depression
Eu320	All	[X]Mild depressive episode
Eu321	All	[X]Moderate depressive episode
Eu331	All	[X]Recurrent depressive disorder, current episode moderate

XE1Y1	All	Recurrent major depressive episodes
XE1ZY	All	[X]Severe depressive episode without psychotic symptoms
XE1ZZ	All	[X]Severe depressive episode with psychotic symptoms
XE1Za	All	[X]Other depressive episodes
XE1Zb	All	[X]Depressive episode, unspecified
XE1Zd	All	[X]Recurrent depressive disorder, current episode severe without psychotic symptoms
XE1Ze	All	[X]Recurrent depressive disorder, current episode severe with psychotic symptoms
XE1Zf	All	[X]Recurrent depressive disorder, unspecified
XaB9J	All	Depression NOS
XaCHr	All	[X] Single episode agitated depression without psychotic symptoms
XaCHs	All	[X] Single episode major depression without psychotic symptoms
XaCI s	All	Mild depression
XaCI t	All	Moderate depression
XaCI u	All	Severe depression
<b>SNOMED Code</b>	<b>Term ID</b>	<b>Description</b>
832007'		Moderate major depression (disorder)
2618002'		Chronic recurrent major depressive disorder (disorder)
14070001'		Multi-infarct dementia with depression (disorder)
14183003'		Chronic major depressive disorder, single episode (disorder)
15193003'		Severe recurrent major depression with psychotic features, mood-incongruent (disorder)
15639000'		Moderate major depression, single episode (disorder)
18818009'		Moderate recurrent major depression (disorder)
19527009'		Single episode of major depression in full remission (disorder)



20250007'		Severe major depression, single episode, with psychotic features, mood-incongruent (disorder)
25922000'		Major depressive disorder, single episode with postpartum onset (disorder)
28475009'		Severe recurrent major depression with psychotic features (disorder)
30605009'		Major depression in partial remission (disorder)
33078009'		Severe recurrent major depression with psychotic features, mood-congruent (disorder)
33135002'		Recurrent major depression in partial remission (disorder)
33736005'		Severe major depression with psychotic features, mood-congruent (disorder)
35489007'		Depressive disorder (disorder)
36474008'		Severe recurrent major depression without psychotic features (disorder)
36923009'		Major depression, single episode (disorder)
38694004'		Recurrent major depressive disorder with atypical features (disorder)
39809009'		Recurrent major depressive disorder with catatonic features (disorder)
40379007'		Mild recurrent major depression (disorder)
40568001'		Recurrent brief depressive disorder (disorder)
42925002'		Major depressive disorder, single episode with atypical features (disorder)
48589009'		Minor depressive disorder (disorder)
58703003'		Postpartum depression (disorder)
60099002'		Severe major depression with psychotic features, mood-incongruent (disorder)
66344007'		Recurrent major depression (disorder)
69392006'		Major depressive disorder, single episode with catatonic features (disorder)
70747007'		Major depression single episode, in partial remission (disorder)
71336009'		Recurrent major depressive disorder with postpartum onset (disorder)
73867007'		Severe major depression with psychotic features (disorder)
75084000'		Severe major depression without psychotic features (disorder)
76441001'		Severe major depression, single episode, without psychotic features (disorder)

77911002'		Severe major depression, single episode, with psychotic features, mood-congruent (disorder)
79298009'		Mild major depression, single episode (disorder)
79842004'		Stuporous depression (disorder)
82218004'		Postoperative depression (disorder)
83458005'		Agitated depression (disorder)
87414006'		Reactive depression (situational) (disorder)
87512008'		Mild major depression (disorder)
161469008'		History of depression (situation)
191466007'		Arteriosclerotic dementia with depression (disorder)
191495003'		Drug-induced depressive state (disorder)
191604000'		Single major depressive episode, severe, with psychosis (disorder)
191610000'		Recurrent major depressive episodes, mild (disorder)
191611001'		Recurrent major depressive episodes, moderate (disorder)
191613003'		Recurrent major depressive episodes, severe, with psychosis (disorder)
191616006'		Recurrent depression (disorder)
191659001'		Atypical depressive disorder (disorder)
191676002'		Reactive depressive psychosis (disorder)
192046006'		Brief depressive adjustment reaction (disorder)
192049004'		Prolonged depressive adjustment reaction (disorder)
192079006'		Postviral depression (disorder)
192080009'		Chronic depression (disorder)
231485007'		Post-schizophrenic depression (disorder)
231499006'		Endogenous depression first episode (disorder)
231500002'		Masked depression (disorder)
231504006'		Mixed anxiety and depressive disorder (disorder)

237349002'		Mild postnatal depression (disorder)
237350002'		Severe postnatal depression (disorder)
237739002'		Pseudo-Cushing's syndrome of depression (disorder)
247803002'		Seasonal affective disorder (disorder)
268621008'		Recurrent major depressive episodes (disorder)
272022009'		Complaining of feeling depressed (finding)
274948002'		Endogenous depression - recurrent (disorder)
300706003'		Endogenous depression (disorder)
310495003'		Mild depression (disorder)
310496002'		Moderate depression (disorder)
310497006'		Severe depression (disorder)
319768000'		Recurrent major depressive disorder with melancholic features (disorder)
320751009'		Major depression, melancholic type (disorder)
321717001'		Involuntal depression (disorder)
366979004'		Depressed mood (finding)
370143000'		Major depressive disorder (disorder)
394924000'		Symptoms of depression (finding)
395072006'		Counseling for postnatal depression (procedure)
430852001'		Severe major depression, single episode, with psychotic features (disorder)
450714000'		Severe major depression (disorder)
704678007'		Depressed mood with postpartum onset (finding)
712823008'		Acute depression (disorder)
718636001'		Minimal depression (disorder)
719592004'		Moderately severe major depression (disorder)
719593009'		Moderately severe depression (disorder)
720451004'		Minimal recurrent major depression (disorder)

720452006'		Moderately severe recurrent major depression (disorder)
720453001'		Moderately severe major depression single episode (disorder)
720454007'		Minimal major depression single episode (disorder)
720455008'		Minimal major depression (disorder)
723928009'		Mood disorder with depressive symptoms caused by alcohol (disorder)
723930006'		Mood disorder with mixed manic and depressive symptoms caused by alcohol (disorder)
724676000'		Mood disorder with depressive symptoms caused by sedative (disorder)
724677009'		Mood disorder with depressive symptoms caused by hypnotic (disorder)
724678004'		Mood disorder with depressive symptoms caused by anxiolytic (disorder)
724690002'		Mood disorder with depressive symptoms caused by cocaine (disorder)
724757005'		Depressive symptoms due to primary psychotic disorder (disorder)
726772006'		Major depression with psychotic features (disorder)
762321000'		Mood disorder with depressive symptoms caused by opioid (disorder)
762329003'		Mood disorder with depressive symptoms caused by stimulant (disorder)
762336002'		Mood disorder with depressive symptoms caused by hallucinogen (disorder)
762339009'		Mood disorder with depressive symptoms caused by volatile inhalant (disorder)
762512002'		Mood disorder with depressive symptoms caused by synthetic cathinone (disorder)
768835002'		Depression care management (procedure)
788120007'		Antenatal depression (disorder)
838529004'		Mood disorder with mixed depressive and manic symptoms caused by amphetamine and amphetamine derivative (disorder)
871840004'		Episode of depression (finding)
251000119105'		Severe major depression, single episode (disorder)
281000119103'		Severe recurrent major depression (disorder)
10211000132109'		Perinatal depression (disorder)

94631000119100'		Depressive disorder in mother complicating pregnancy (disorder)
133121000119109'		Severe seasonal affective disorder (disorder)
199111000000100'		Referral for guided self-help for depression (procedure)
286711000000107'		Counseling for depression (procedure)
288751000119101'		Reactive depressive psychosis, single episode (disorder)
361761000000106'		On full dose long term treatment for depression (finding)
755321000000106'		Single major depressive episode, severe, with psychosis, psychosis in remission (disorder)
755331000000108'		Recurrent major depressive episodes, severe, with psychosis, psychosis in remission (disorder)
764611000000100'		Recurrent major depressive episodes, severe (disorder)
764691000000109'		Recurrent major depressive episodes, in partial remission (disorder)
764701000000109'		Recurrent major depressive episodes, in remission (disorder)
764711000000106'		Single major depressive episode, in remission (disorder)
923921000000104'		Referral for depression self-help video (procedure)
1086471000000100'		Recurrent reactive depressive episodes, severe, with psychosis (disorder)
1086661000000100'		Reactive depression, prolonged single episode (disorder)
1086671000000100'		Reactive depression, single episode (disorder)
1086681000000100'		Reactive depression, recurrent (disorder)
1086691000000100'		Reactive depression, first episode (disorder)
1089511000000100'		Recurrent depression with current severe episode and psychotic features (disorder)
1089631000000100'		Recurrent depression with current severe episode without psychotic features (disorder)
1089641000000100'		Recurrent depression with current moderate episode (disorder)
10811121000119100'		Major depressive disorder in mother complicating childbirth (disorder)
10811161000119100'		Major depressive disorder in mother complicating pregnancy (disorder)

10835871000119100'		Depressive disorder in mother complicating childbirth (disorder)
16238181000119100'		Depressive disorder caused by amphetamine (disorder)
16238221000119100'		Depressive disorder caused by methamphetamine (disorder)
16264621000119100'		Recurrent mild major depressive disorder co-occurrent with anxiety (disorder)
16264821000119100'		Recurrent severe major depressive disorder co-occurrent with anxiety (disorder)
16264901000119100'		Recurrent moderate major depressive disorder co-occurrent with anxiety (disorder)
16265301000119100'		Recurrent major depressive disorder in partial remission co-occurrent with anxiety (disorder)
16265951000119100'		Mild major depressive disorder co-occurrent with anxiety single episode (disorder)
16266831000119100'		Moderate major depressive disorder co-occurrent with anxiety single episode (disorder)
16266991000119100'		Severe major depressive disorder co-occurrent with anxiety single episode (disorder)
<b>Anxiety episode</b>		
<b>Read V2 Code</b>	<b>Term ID</b>	<b>Description</b>
E200.	All	Anxiety states
E2000	All	Anxiety state unspecified
E2001	All	Panic disorder
E2002	All	Generalised anxiety disorder
E2003	All	Anxiety with depression
E2004	All	Chronic anxiety
E2005	All	Recurrent anxiety
E200z	All	Anxiety state NOS
Eu41.	All	[X]Other anxiety disorders
Eu410	All	[X]Panic disorder [episodic paroxysmal anxiety]

Eu411	All	[X]Generalized anxiety disorder
Eu412	All	[X]Mixed anxiety and depressive disorder
Eu413	All	[X]Other mixed anxiety disorders
Eu41y	All	[X]Other specified anxiety disorders
Eu41z	All	[X]Anxiety disorder, unspecified
<b>Read CTV3 Code</b>	<b>Term ID</b>	<b>Description</b>
E200.	All	Anxiety disorder
XE1Y7	All	Panic disorder
Eu410	All	[X]Panic disorder [episodic paroxysmal anxiety]
E2002	All	Generalised anxiety disorder
X00Sb	All	Mixed anxiety and depressive disorder
X00RP	All	Organic anxiety disorder
E2004	All	Chronic anxiety
E2005	All	Recurrent anxiety
E200z	All	Anxiety state NOS
X00Sc	All	Anxiety hysteria
Eu41.	All	[X]Other anxiety disorders
Eu413	All	[X]Other mixed anxiety disorders
Eu41z	All	[X]Anxiety disorder, unspecified
XE1Zj	All	[X]Other specified anxiety disorders
<b>SNOMED Code</b>	<b>Term ID</b>	<b>Description</b>
1037451000000100'		Referral for psychological management of anxiety (procedure)
1053831000000100'		Signposting to Anxiety UK (procedure)
10586006'		Occupation-related stress disorder (disorder)
10743001000119100'		Anxiety disorder in mother complicating childbirth (disorder)
109006'		Anxiety disorder of childhood OR adolescence (disorder)

111487009'		Dream anxiety disorder (disorder)
11458009'		Anticipatory anxiety, mild (finding)
11806006'		Separation anxiety disorder of childhood (disorder)
12398201000119100'		Anxiety disorder caused by methamphetamine (disorder)
126943008'		Separation anxiety (disorder)
13438001'		Overanxious disorder of childhood (disorder)
15277004'		Hallucinogen-induced anxiety disorder (disorder)
161470009'		History of anxiety state (situation)
16264621000119100'		Recurrent mild major depressive disorder co-occurrent with anxiety (disorder)
16264821000119100'		Recurrent severe major depressive disorder co-occurrent with anxiety (disorder)
16264901000119100'		Recurrent moderate major depressive disorder co-occurrent with anxiety (disorder)
16265301000119100'		Recurrent major depressive disorder in partial remission co-occurrent with anxiety (disorder)
16265701000119100'		Illness anxiety disorder (disorder)
16265951000119100'		Mild major depressive disorder co-occurrent with anxiety single episode (disorder)
16266831000119100'		Moderate major depressive disorder co-occurrent with anxiety single episode (disorder)
16266991000119100'		Severe major depressive disorder co-occurrent with anxiety single episode (disorder)
162723006'		On examination - anxious (finding)
1686006'		Sedative, hypnotic AND/OR anxiolytic-induced anxiety disorder (disorder)
17496003'		Organic anxiety disorder (disorder)
191708009'		Chronic anxiety (finding)
191709001'		Recurrent anxiety (finding)
192108001'		Disturbance of anxiety and fearfulness in childhood and adolescence (disorder)



192611004'		Childhood phobic anxiety disorder (disorder)
197480006'		Anxiety disorder (disorder)
198288003'		Anxiety state (finding)
207363009'		Anxiety neurosis (finding)
21897009'		Generalized anxiety disorder (disorder)
225216003'		Acknowledging anxiety (procedure)
225624000'		Panic attack (finding)
22621000119103'		Anxiety disorder caused by drug (disorder)
228560001'		Anxiety management training (procedure)
231502005'		Situational panic attack (finding)
231503000'		Non-situational panic attack (finding)
231504006'		Mixed anxiety and depressive disorder (disorder)
231506008'		Anxiety hysteria (finding)
247805009'		Anxiety and fear (finding)
286644009'		Level of anxiety (finding)
286710008'		Anxious character (finding)
286711007'		Over-anxious character (finding)
286712000'		Fearful character (finding)
300895004'		Anxiety attack (finding)
313087008'		Counseling for anxiety (procedure)
34938008'		Alcohol-induced anxiety disorder (disorder)
351861000000106'		Stranger anxiety (disorder)
35429005'		Anticipatory anxiety (finding)
35607004'		Panic disorder with agoraphobia (disorder)
36646009'		Anticipatory anxiety, moderate (finding)
371631005'		Panic disorder (disorder)

37868008'		Anxiety disorder of adolescence (disorder)
37872007'		Avoidant disorder of childhood OR adolescence (disorder)
386808001'		Phobia (finding)
386810004'		Phobic anxiety disorder (disorder)
395017009'		Complaining of panic attack (finding)
405051006'		Level of anxiety (observable entity)
417676004'		On examination - panic attack (finding)
43150009'		Panic disorder without agoraphobia with severe panic attacks (disorder)
47372000'		Adjustment disorder with anxious mood (disorder)
48694002'		Anxiety (finding)
50026000'		Psychoactive substance-induced organic anxiety disorder (disorder)
51493001'		Cocaine-induced anxiety disorder (disorder)
51916003'		Biofeedback training by electroencephalogram application in anxiety (regime/therapy)
52910006'		Anxiety disorder due to a general medical condition (disorder)
53467004'		Anxiety disorder of childhood (disorder)
53956006'		Panic disorder without agoraphobia with panic attacks in partial remission (disorder)
5509004'		Panic disorder with agoraphobia AND severe panic attacks (disorder)
55967005'		Phencyclidine-induced anxiety disorder (disorder)
56576003'		Panic disorder without agoraphobia (disorder)
5874002'		Anticipatory anxiety, severe (finding)
61387006'		Moderate anxiety (finding)
63909006'		Panic disorder with agoraphobia AND panic attacks in partial remission (disorder)
64165008'		Avoidant disorder of childhood (disorder)
65064003'		Panic disorder without agoraphobia with moderate panic attacks (disorder)

69479009'		Anxiety hyperventilation (disorder)
70997004'		Mild anxiety (finding)
710060004'		Management of anxiety (procedure)
710841007'		Assessment of anxiety (procedure)
724708007'		Anxiety disorder caused by methylenedioxymethamphetamine (disorder)
724722007'		Anxiety disorder caused by dissociative drug (disorder)
724723002'		Anxiety disorder caused by ketamine (disorder)
72861004'		Panic disorder without agoraphobia with mild panic attacks (disorder)
737341006'		Anxiety disorder caused by synthetic cannabinoid (disorder)
762331007'		Anxiety disorder caused by stimulant (disorder)
788866004'		Anxiety due to dementia (finding)
80583007'		Severe anxiety (panic) (finding)
81350009'		Free-floating anxiety (finding)
8185002'		Panic disorder with agoraphobia AND moderate panic attacks (disorder)
82339009'		Amphetamine-induced anxiety disorder (disorder)
85061001'		Separation anxiety disorder of childhood, early onset (disorder)
858991000000101'		Provision of written information about generalised anxiety disorder (procedure)
859891000000103'		Able to manage anxiety (finding)
861611000000100'		Education about anxiety (procedure)
89948007'		Panic disorder with agoraphobia AND mild panic attacks (disorder)
90790003'		Avoidant disorder of adolescence (disorder)
94641000119109'		Anxiety in pregnancy (disorder)
<b>Eating disorders</b>		
<b>Read V2 Code</b>	<b>Term ID</b>	<b>Description</b>
<b>Read CTV3 Code</b>	<b>Term ID</b>	<b>Description</b>
<b>SNOMED Code</b>	<b>Term ID</b>	<b>Description</b>

<b>Body image disorders</b>		
<b>Read V2 Code</b>	<b>Term ID</b>	<b>Description</b>
<b>Read CTV3 Code</b>	<b>Term ID</b>	<b>Description</b>
<b>SNOMED Code</b>	<b>Term ID</b>	<b>Description</b>
<b>Attention-deficit disorder (ADHD)</b>		
<b>Read V2 Code</b>	<b>Term ID</b>	<b>Description</b>
<b>Read CTV3 Code</b>	<b>Term ID</b>	<b>Description</b>
<b>SNOMED Code</b>	<b>Term ID</b>	<b>Description</b>
<b>Behavioural disorders</b>		
<b>Read V2 Code</b>	<b>Term ID</b>	<b>Description</b>
<b>Read CTV3 Code</b>	<b>Term ID</b>	<b>Description</b>
<b>SNOMED Code</b>	<b>Term ID</b>	<b>Description</b>
<b>Adjustment disorder</b>		
<b>Read V2 Code</b>	<b>Term ID</b>	<b>Description</b>
E29..	All	Adjustment reaction
E290.	All	Brief depressive reaction
E2900	All	Grief reaction
E290z	All	Brief depressive reaction NOS
E291.	All	Prolonged depressive reaction
E292.	All	Adjustment reaction with predominant disturbance of other emotions
E2924	All	Adjustment reaction with anxious mood
E292y	All	Adjustment reaction with mixed disturbance of emotion
E292z	All	Adjustment reaction with disturbance of other emotion NOS
E293.	All	Adjustment reaction with predominant disturbance of conduct
E2930	All	Adjustment reaction with aggression
E2931	All	Adjustment reaction with antisocial behaviour

E2932	All	Adjustment reaction with destructiveness
E293z	All	Adjustment reaction with predominant disturbance of conduct NOS
E294.	All	Adjustment reaction with mixed disturbance of emotion and conduct
E29y.	All	Other adjustment reactions
E29y2	All	Adjustment reaction with physical symptoms
E29y3	All	Elective mutism due to an adjustment reaction
E29y5	All	Other adjustment reaction with withdrawal
E29yz	All	Other adjustment reactions NOS
E29z.	All	Adjustment reaction NOS
<b>Read CTV3 Code</b>	<b>Term ID</b>	<b>Description</b>
E29..	All	Adjustment disorder
E290.	All	Brief depressive adjustment reaction
E290z	All	Brief depressive reaction NOS
E291.	All	Prolonged depressive adjustment reaction
E2924	All	Adjustment reaction with anxious mood
E292y	All	Adjustment reaction with mixed disturbance of emotion
E293.	All	Adjustment reaction with predominant disturbance of conduct
E2930	All	Adjustment reaction with aggression
E2931	All	Adjustment reaction with antisocial behaviour
E2932	All	Adjustment reaction with destructiveness
E293z	All	Adjustment reaction with predominant disturbance of conduct NOS
E294.	All	Adjustment reaction with mixed disturbance of emotion and conduct
E292.	All	Adjustment reaction with predominant disturbance of other emotions
E292z	All	Adjustment reaction with disturbance of other emotion NOS
E29y.	All	Other adjustment reactions
E29yz	All	Other adjustment reactions NOS

E29y2	All	Adjustment reaction with physical symptoms
E29y3	All	Elective mutism due to an adjustment reaction
E29y5	All	Other adjustment reaction with withdrawal
E29z.	All	Adjustment reaction NOS
<b>SNOMED Code</b>	<b>Term ID</b>	<b>Description</b>
17226007		Adjustment disorder (disorder)
15977008		Adjustment disorder with academic inhibition (disorder)
47372000		Adjustment disorder with anxious mood (disorder)
57194009		Adjustment disorder with depressed mood (disorder)
192046006		Brief depressive adjustment reaction (disorder)
192049004		Prolonged depressive adjustment reaction (disorder)
84984002		Adjustment disorder with disturbance of conduct (disorder)
66381006		Adjustment disorder with mixed disturbance of emotions AND conduct (disorder)
192056005		Adjustment reaction with aggression (disorder)
192057001		Adjustment reaction with antisocial behavior (disorder)
192058006		Adjustment reaction with destructiveness (disorder)
55668003		Adjustment disorder with mixed emotional features (disorder)
18478005		Adjustment disorder with physical complaints (disorder)
9674006		Adjustment disorder with withdrawal (disorder)
32880007		Adjustment disorder with work inhibition (disorder)
386821008		Adjustment reaction in infancy (disorder)
386822001		Adjustment reaction of adolescence (disorder)
386823006		Adjustment reaction of adult life (disorder)
386824000		Adjustment reaction of childhood (disorder)

386825004		Adjustment reaction of late life (disorder)
425914008		Adjustment reaction to medical therapy (disorder)
192063005		Adjustment reaction with physical symptoms (disorder)
192064004		Elective mutism due to an adjustment reaction (disorder)
698697003		Adjustment disorder with mixed disturbance of emotions and conduct in remission (disorder)
<b>Acute stress disorder</b>		
<b>Read V2 Code</b>	<b>Term ID</b>	<b>Description</b>
<b>Read CTV3 Code</b>	<b>Term ID</b>	<b>Description</b>
<b>SNOMED Code</b>	<b>Term ID</b>	<b>Description</b>
<b>Schizophrenia</b>		
<b>Read V2 Code</b>	<b>Term ID</b>	<b>Description</b>
<b>Read CTV3 Code</b>	<b>Term ID</b>	<b>Description</b>
<b>SNOMED Code</b>	<b>Term ID</b>	<b>Description</b>
<b>Post-traumatic stress disorder</b>		
<b>Read V2 Code</b>	<b>Term ID</b>	<b>Description</b>
<b>Read CTV3 Code</b>	<b>Term ID</b>	<b>Description</b>
<b>SNOMED Code</b>	<b>Term ID</b>	<b>Description</b>
<b>Bipolar disorder</b>		
<b>Read V2 Code</b>	<b>Term ID</b>	<b>Description</b>
<b>Read CTV3 Code</b>	<b>Term ID</b>	<b>Description</b>
<b>SNOMED Code</b>	<b>Term ID</b>	<b>Description</b>

**sTable 2.2** Algorithms used to identify anxiety episodes, depression episodes, and recurrent major depression. Expressions in capitals equate to Boolean expressions. \*More than 1 year ago. SSRIs = selective serotonin reuptake inhibitors, TCA = tricyclic antidepressants, MAOI = monoamine oxidase inhibitors, CBT = cognitive behavioural therapy.

<b>Clinical entity</b>	<b>Definition</b>
Anxiety	Any coded anxiety episode AND concurrent treatment for anxiety
Depressive episode	Any coded depressive episode AND concurrent treatment for depression
Recurrent depressive disorder	(Any historical code* for a depressive episode AND current treatment for depression) OR Any code for recurrent depressive disorder
Anxiety treatments	SSRIs, anxiolytics, counselling, CBT, and psychotherapy
Depression treatments	SSRIs, TCAs, MAOIs, counselling, CBT, and psychotherapy



**sTable 2.3** WHO International Statistical Classification of Diseases (ICD-10) for mental health conditions

<b>Clinical entity</b>	<b>ICD 10 code</b>	<b>Definition</b>
Depressive episode	F32	Any coded depressive episode AND concurrent treatment for depression
Recurrent depressive disorder	F33	(Any historical code* for a depressive episode AND current treatment for depression) OR Any code for recurrent depressive disorder
Depression treatments	NA	SSRIs, TCAs, MAOIs, counselling, CBT, and psychotherapy
Anxiety	F41	Any coded anxiety episode AND concurrent treatment for anxiety
Anxiety treatments	NA	SSRIs, anxiolytics, counselling, CBT, and psychotherapy
Self-harm	X60-X84	Any diagnostic or indicative code for any form of self-harm, including suicide attempt
Eating disorders	F50	Any diagnostic or indicative code for eating disorders

Body image disorders	F45.2	Any diagnostic or indicative code for body image / dysmorphic disorder (excluding hypochondriacal disorders not associated with body image)
Attention-deficit disorders	F90.0	Any diagnostic or indicative code for disturbance of activity and attention
Behavioural disorders	F91 F92	Any diagnostic or indicative code for conduct disorders
Adjustment disorders	F43.2	Any diagnostic or indicative code for adjustment disorders
Acute stress disorders	F43.0	Any diagnostic or indicative code for acute stress disorders
Post-traumatic stress disorder	F43.1	Any diagnostic or indicative code for Post-traumatic stress disorder

## Appendix 3

**sTable 3.1** Read and SNOMED codes to be used to identify quality of life

<b>Depressive episode</b>		
<b>Read V2 Code</b>	<b>Term ID</b>	<b>Description</b>
E112.	All	Single major depressive episode
E1120	All	Single major depressive episode, unspecified
E1121	All	Single major depressive episode, mild
E1122	All	Single major depressive episode, moderate
E1123	All	Single major depressive episode, severe, without mention of psychosis
E1124	All	Single major depressive episode, severe, with psychosis
E1125	All	Single major depressive episode, in partial or unspecified remission
E1126	All	Single major depressive episode, in full remission
E112z	All	Single major depressive episode NOS
E113.	All	Recurrent major depressive episode
E1130	All	Recurrent major depressive episodes, unspecified
E1131	All	Recurrent major depressive episodes, mild
E1132	All	Recurrent major depressive episodes, moderate
E1133	All	Recurrent major depressive episodes, severe, without mention of psychosis
E1134	All	Recurrent major depressive episodes, severe, with psychosis
E1137	All	Recurrent depression
E113z	All	Recurrent major depressive episode NOS
E118.	All	Seasonal affective disorder
E11y2	All	Atypical depressive disorder
E11z2	All	Masked depression
E130.	All	Reactive depressive psychosis

E135.	All	Agitated depression
E2003	All	Anxiety with depression
E291.	All	Prolonged depressive reaction
E2B..	All	Depressive disorder NEC
E2B1.	All	Chronic depression
E2B0.	All	Postviral depression
Eu204	All	[X]Post-schizophrenic depression
Eu251	All	[X]Schizoaffective disorder, depressive type
Eu32.	All	[X]Depressive episode
Eu320	All	[X]Mild depressive episode
Eu321	All	[X]Moderate depressive episode
Eu322	All	[X]Severe depressive episode without psychotic symptoms
Eu323	All	[X]Severe depressive episode with psychotic symptoms
Eu324	All	[X]Mild depression
Eu325	All	[X]Major depression, mild
Eu326	All	[X]Major depression, moderately severe
Eu327	All	[X]Major depression, severe without psychotic symptoms
Eu328	All	[X]Major depression, severe with psychotic symptoms
Eu32y	All	[X]Other depressive episodes
Eu32z	All	[X]Depressive episode, unspecified
Eu33.	All	[X]Recurrent depressive disorder
Eu330	All	[X]Recurrent depressive disorder, current episode mild
Eu331	All	[X]Recurrent depressive disorder, current episode moderate
Eu332	All	[X]Recurrent depressive disorder, current episode severe without psychotic symptoms
Eu333	All	[X]Recurrent depressive disorder, current episode severe with psychotic symptoms

Eu334	All	[X]Recurrent depressive disorder, currently in remission
Eu33y	All	[X]Other recurrent depressive disorders
Eu33z	All	[X]Recurrent depressive disorder, unspecified
Eu412	All	[X]Mixed anxiety and depressive disorder
<b>Read CTV3 Code</b>	<b>Term ID</b>	<b>Description</b>
X00Sb	All	Mixed anxiety and depressive disorder
X00SO	All	Depressive disorder
X761L	All	Seasonal affective disorder
Xa0wV	All	Recurrent brief depressive disorder
X00SQ	All	Agitated depression
XE1YC	All	Reactive depression
X00SR	All	Endogenous depression
X00SS	All	Endogenous depression first episode
XE1Y0	All	Single major depressive episode
E1120	All	Single major depressive episode, unspecified
E1121	All	Single major depressive episode, mild
E1122	All	Single major depressive episode, moderate
E1123	All	Single major depressive episode, severe, without mention of psychosis
E1124	All	Single major depressive episode, severe, with psychosis
XaX53	All	Single major depressive episode, severe, with psychosis, psychosis in remission
E1125	All	Single major depressive episode, in partial or unspecified remission
E1126	All	Single major depressive episode, in full remission
E112z	All	Single major depressive episode NOS
XM1GC	All	Endogenous depression - recurrent
E1130	All	Recurrent major depressive episodes, unspecified
E1131	All	Recurrent major depressive episodes, mild

E1132	All	Recurrent major depressive episodes, moderate
E1133	All	Recurrent major depressive episodes, severe, without mention of psychosis
E1134	All	Recurrent major depressive episodes, severe, with psychosis
E1135	All	Recurrent major depressive episodes, in partial or unspecified remission
E1136	All	Recurrent major depressive episodes, in full remission
E113z	All	Recurrent major depressive episode NOS
X00SU	All	Masked depression
E11y2	All	Atypical depressive disorder
X00S8	All	Post-schizophrenic depression
XSEGJ	All	Major depressive disorder
XSKr7	All	Cotard syndrome
XSGol	All	Moderate major depression
XSGok	All	Mild major depression
XSGom	All	Severe major depression without psychotic features
XSGon	All	Severe major depression with psychotic features
E1137	All	Recurrent depression
E130.	All	Reactive depressive psychosis
E2B..	All	Depressive disorder NEC
E2B0.	All	Postviral depression
E2B1.	All	Chronic depression
Eu320	All	[X]Mild depressive episode
Eu321	All	[X]Moderate depressive episode
Eu331	All	[X]Recurrent depressive disorder, current episode moderate
XE1Y1	All	Recurrent major depressive episodes
XE1ZY	All	[X]Severe depressive episode without psychotic symptoms
XE1ZZ	All	[X]Severe depressive episode with psychotic symptoms

XE1Za	All	[X]Other depressive episodes
XE1Zb	All	[X]Depressive episode, unspecified
XE1Zd	All	[X]Recurrent depressive disorder, current episode severe without psychotic symptoms
XE1Ze	All	[X]Recurrent depressive disorder, current episode severe with psychotic symptoms
XE1Zf	All	[X]Recurrent depressive disorder, unspecified
XaB9J	All	Depression NOS
XaCHr	All	[X] Single episode agitated depression without psychotic symptoms
XaCHs	All	[X] Single episode major depression without psychotic symptoms
XaCI s	All	Mild depression
XaCI t	All	Moderate depression
XaCI u	All	Severe depression
<b>SNOMED Code</b>	<b>Term ID</b>	<b>Description</b>
832007'		Moderate major depression (disorder)
2618002'		Chronic recurrent major depressive disorder (disorder)
14070001'		Multi-infarct dementia with depression (disorder)
14183003'		Chronic major depressive disorder, single episode (disorder)
15193003'		Severe recurrent major depression with psychotic features, mood-incongruent (disorder)
15639000'		Moderate major depression, single episode (disorder)
18818009'		Moderate recurrent major depression (disorder)
19527009'		Single episode of major depression in full remission (disorder)
20250007'		Severe major depression, single episode, with psychotic features, mood-incongruent (disorder)
25922000'		Major depressive disorder, single episode with postpartum onset (disorder)
28475009'		Severe recurrent major depression with psychotic features (disorder)

30605009'		Major depression in partial remission (disorder)
33078009'		Severe recurrent major depression with psychotic features, mood-congruent (disorder)
33135002'		Recurrent major depression in partial remission (disorder)
33736005'		Severe major depression with psychotic features, mood-congruent (disorder)
35489007'		Depressive disorder (disorder)
36474008'		Severe recurrent major depression without psychotic features (disorder)
36923009'		Major depression, single episode (disorder)
38694004'		Recurrent major depressive disorder with atypical features (disorder)
39809009'		Recurrent major depressive disorder with catatonic features (disorder)
40379007'		Mild recurrent major depression (disorder)
40568001'		Recurrent brief depressive disorder (disorder)
42925002'		Major depressive disorder, single episode with atypical features (disorder)
48589009'		Minor depressive disorder (disorder)
58703003'		Postpartum depression (disorder)
60099002'		Severe major depression with psychotic features, mood-incongruent (disorder)
66344007'		Recurrent major depression (disorder)
69392006'		Major depressive disorder, single episode with catatonic features (disorder)
70747007'		Major depression single episode, in partial remission (disorder)
71336009'		Recurrent major depressive disorder with postpartum onset (disorder)
73867007'		Severe major depression with psychotic features (disorder)
75084000'		Severe major depression without psychotic features (disorder)
76441001'		Severe major depression, single episode, without psychotic features (disorder)
77911002'		Severe major depression, single episode, with psychotic features, mood-congruent (disorder)
79298009'		Mild major depression, single episode (disorder)
79842004'		Stuporous depression (disorder)



82218004'		Postoperative depression (disorder)
83458005'		Agitated depression (disorder)
87414006'		Reactive depression (situational) (disorder)
87512008'		Mild major depression (disorder)
161469008'		History of depression (situation)
191495003'		Drug-induced depressive state (disorder)
191604000'		Single major depressive episode, severe, with psychosis (disorder)
191610000'		Recurrent major depressive episodes, mild (disorder)
191611001'		Recurrent major depressive episodes, moderate (disorder)
191613003'		Recurrent major depressive episodes, severe, with psychosis (disorder)
191616006'		Recurrent depression (disorder)
191659001'		Atypical depressive disorder (disorder)
191676002'		Reactive depressive psychosis (disorder)
192046006'		Brief depressive adjustment reaction (disorder)
192049004'		Prolonged depressive adjustment reaction (disorder)
192079006'		Postviral depression (disorder)
192080009'		Chronic depression (disorder)
231485007'		Post-schizophrenic depression (disorder)
231499006'		Endogenous depression first episode (disorder)
231500002'		Masked depression (disorder)
231504006'		Mixed anxiety and depressive disorder (disorder)
237349002'		Mild postnatal depression (disorder)
237350002'		Severe postnatal depression (disorder)
237739002'		Pseudo-Cushing's syndrome of depression (disorder)
247803002'		Seasonal affective disorder (disorder)
268621008'		Recurrent major depressive episodes (disorder)

272022009'		Complaining of feeling depressed (finding)
274948002'		Endogenous depression - recurrent (disorder)
300706003'		Endogenous depression (disorder)
310495003'		Mild depression (disorder)
310496002'		Moderate depression (disorder)
310497006'		Severe depression (disorder)
319768000'		Recurrent major depressive disorder with melancholic features (disorder)
320751009'		Major depression, melancholic type (disorder)
321717001'		Involuntional depression (disorder)
366979004'		Depressed mood (finding)
370143000'		Major depressive disorder (disorder)
394924000'		Symptoms of depression (finding)
395072006'		Counseling for postnatal depression (procedure)
430852001'		Severe major depression, single episode, with psychotic features (disorder)
450714000'		Severe major depression (disorder)
704678007'		Depressed mood with postpartum onset (finding)
712823008'		Acute depression (disorder)
718636001'		Minimal depression (disorder)
719592004'		Moderately severe major depression (disorder)
719593009'		Moderately severe depression (disorder)
720451004'		Minimal recurrent major depression (disorder)
720452006'		Moderately severe recurrent major depression (disorder)
720453001'		Moderately severe major depression single episode (disorder)
720454007'		Minimal major depression single episode (disorder)
720455008'		Minimal major depression (disorder)
723928009'		Mood disorder with depressive symptoms caused by alcohol (disorder)

723930006'		Mood disorder with mixed manic and depressive symptoms caused by alcohol (disorder)
724676000'		Mood disorder with depressive symptoms caused by sedative (disorder)
724677009'		Mood disorder with depressive symptoms caused by hypnotic (disorder)
724678004'		Mood disorder with depressive symptoms caused by anxiolytic (disorder)
724690002'		Mood disorder with depressive symptoms caused by cocaine (disorder)
724757005'		Depressive symptoms due to primary psychotic disorder (disorder)
726772006'		Major depression with psychotic features (disorder)
762321000'		Mood disorder with depressive symptoms caused by opioid (disorder)
762329003'		Mood disorder with depressive symptoms caused by stimulant (disorder)
762336002'		Mood disorder with depressive symptoms caused by hallucinogen (disorder)
762339009'		Mood disorder with depressive symptoms caused by volatile inhalant (disorder)
762512002'		Mood disorder with depressive symptoms caused by synthetic cathinone (disorder)
768835002'		Depression care management (procedure)
788120007'		Antenatal depression (disorder)
838529004'		Mood disorder with mixed depressive and manic symptoms caused by amphetamine and amphetamine derivative (disorder)
871840004'		Episode of depression (finding)
251000119105'		Severe major depression, single episode (disorder)
281000119103'		Severe recurrent major depression (disorder)
10211000132109'		Perinatal depression (disorder)
94631000119100'		Depressive disorder in mother complicating pregnancy (disorder)
133121000119109'		Severe seasonal affective disorder (disorder)
199111000000100'		Referral for guided self-help for depression (procedure)
286711000000107'		Counseling for depression (procedure)
288751000119101'		Reactive depressive psychosis, single episode (disorder)

361761000000106'		On full dose long term treatment for depression (finding)
755321000000106'		Single major depressive episode, severe, with psychosis, psychosis in remission (disorder)
755331000000108'		Recurrent major depressive episodes, severe, with psychosis, psychosis in remission (disorder)
764611000000100'		Recurrent major depressive episodes, severe (disorder)
764691000000109'		Recurrent major depressive episodes, in partial remission (disorder)
764701000000109'		Recurrent major depressive episodes, in remission (disorder)
764711000000106'		Single major depressive episode, in remission (disorder)
923921000000104'		Referral for depression self-help video (procedure)
1086471000000100'		Recurrent reactive depressive episodes, severe, with psychosis (disorder)
1086661000000100'		Reactive depression, prolonged single episode (disorder)
1086671000000100'		Reactive depression, single episode (disorder)
1086681000000100'		Reactive depression, recurrent (disorder)
1086691000000100'		Reactive depression, first episode (disorder)
1089511000000100'		Recurrent depression with current severe episode and psychotic features (disorder)
1089631000000100'		Recurrent depression with current severe episode without psychotic features (disorder)
1089641000000100'		Recurrent depression with current moderate episode (disorder)
10811121000119100'		Major depressive disorder in mother complicating childbirth (disorder)
10811161000119100'		Major depressive disorder in mother complicating pregnancy (disorder)
10835871000119100'		Depressive disorder in mother complicating childbirth (disorder)
16238181000119100'		Depressive disorder caused by amphetamine (disorder)
16238221000119100'		Depressive disorder caused by methamphetamine (disorder)
16264621000119100'		Recurrent mild major depressive disorder co-occurrent with anxiety (disorder)
16264821000119100'		Recurrent severe major depressive disorder co-occurrent with anxiety (disorder)

16264901000119100'		Recurrent moderate major depressive disorder co-occurrent with anxiety (disorder)
16265301000119100'		Recurrent major depressive disorder in partial remission co-occurrent with anxiety (disorder)
16265951000119100'		Mild major depressive disorder co-occurrent with anxiety single episode (disorder)
16266831000119100'		Moderate major depressive disorder co-occurrent with anxiety single episode (disorder)
16266991000119100'		Severe major depressive disorder co-occurrent with anxiety single episode (disorder)
<b>Recurrent depressive disorder</b>		
<b>Read V2 Code</b>	<b>Term ID</b>	<b>Description</b>
E113.	All	Recurrent major depressive episode
E1130	All	Recurrent major depressive episodes, unspecified
E1131	All	Recurrent major depressive episodes, mild
E1132	All	Recurrent major depressive episodes, moderate
E1133	All	Recurrent major depressive episodes, severe, without mention of psychosis
E1134	All	Recurrent major depressive episodes, severe, with psychosis
E1135	All	Recurrent major depressive episodes, in partial or unspecified remission
E1136	All	Recurrent major depressive episodes, in full remission
E1137	All	Recurrent depression
E113z	All	Recurrent major depressive episode NOS
E2B1.	All	Chronic depression
Eu32A	All	[X]Recurrent major depressive episodes, severe, with psychosis, psychosis in remission
Eu33.	All	[X]Recurrent depressive disorder
Eu330	All	[X]Recurrent depressive disorder, current episode mild

Eu331	All	[X]Recurrent depressive disorder, current episode moderate
Eu332	All	[X]Recurrent depressive disorder, current episode severe without psychotic symptoms
Eu333	All	[X]Recurrent depressive disorder, current episode severe with psychotic symptoms
Eu334	All	[X]Recurrent depressive disorder, currently in remission
Eu33y	All	[X]Other recurrent depressive disorders
Eu33z	All	[X]Recurrent depressive disorder, unspecified
<b>Read CTV3 Code</b>	<b>Term ID</b>	<b>Description</b>
Xa0wV	All	Recurrent brief depressive disorder
XM1GC	All	Endogenous depression - recurrent
E1130	All	Recurrent major depressive episodes, unspecified
E1131	All	Recurrent major depressive episodes, mild
E1132	All	Recurrent major depressive episodes, moderate
E1133	All	Recurrent major depressive episodes, severe, without mention of psychosis
E1134	All	Recurrent major depressive episodes, severe, with psychosis
XaX54	All	Recurrent major depressive episodes, severe, with psychosis, psychosis in remission
E1135	All	Recurrent major depressive episodes, in partial or unspecified remission
E1136	All	Recurrent major depressive episodes, in full remission
E113z	All	Recurrent major depressive episode NOS
E1137	All	Recurrent depression
E2B1.	All	Chronic depression
Eu331	All	[X]Recurrent depressive disorder, current episode moderate
XE1Y1	All	Recurrent major depressive episodes
XE1Zd	All	[X]Recurrent depressive disorder, current episode severe without psychotic symptoms

XE1Ze	All	[X]Recurrent depressive disorder, current episode severe with psychotic symptoms
XE1Zf	All	[X]Recurrent depressive disorder, unspecified
<b>SNOMED Code</b>	<b>Term ID</b>	<b>Description</b>
15193003'		Severe recurrent major depression with psychotic features, mood-incongruent (disorder)
16264621000119100'		Recurrent mild major depressive disorder co-occurrent with anxiety (disorder)
16264821000119100'		Recurrent severe major depressive disorder co-occurrent with anxiety (disorder)
16264901000119100'		Recurrent moderate major depressive disorder co-occurrent with anxiety (disorder)
16265061000119100'		Recurrent major depressive disorder co-occurrent with anxiety in full remission (disorder)
16265301000119100'		Recurrent major depressive disorder in partial remission co-occurrent with anxiety (disorder)
18818009'		Moderate recurrent major depression (disorder)
191610000'		Recurrent major depressive episodes, mild (disorder)
191611001'		Recurrent major depressive episodes, moderate (disorder)
191613003'		Recurrent major depressive episodes, severe, with psychosis (disorder)
2618002'		Chronic recurrent major depressive disorder (disorder)
268621008'		Recurrent major depressive episodes (disorder)
274948002'		Endogenous depression - recurrent (disorder)
281000119103'		Severe recurrent major depression (disorder)
28475009'		Severe recurrent major depression with psychotic features (disorder)
319768000'		Recurrent major depressive disorder with melancholic features (disorder)
33078009'		Severe recurrent major depression with psychotic features, mood-congruent (disorder)
33135002'		Recurrent major depression in partial remission (disorder)

36474008'		Severe recurrent major depression without psychotic features (disorder)
38694004'		Recurrent major depressive disorder with atypical features (disorder)
39809009'		Recurrent major depressive disorder with catatonic features (disorder)
40379007'		Mild recurrent major depression (disorder)
66344007'		Recurrent major depression (disorder)
68019004'		Recurrent major depression in remission (disorder)
71336009'		Recurrent major depressive disorder with postpartum onset (disorder)
720451004'		Minimal recurrent major depression (disorder)
720452006'		Moderately severe recurrent major depression (disorder)
755331000000108'		Recurrent major depressive episodes, severe, with psychosis, psychosis in remission (disorder)
764611000000100'		Recurrent major depressive episodes, severe (disorder)
764691000000109'		Recurrent major depressive episodes, in partial remission (disorder)
764701000000109'		Recurrent major depressive episodes, in remission (disorder)
<b>Depressive symptoms</b>		
<b>Read V2 Code</b>	<b>Term ID</b>	<b>Description</b>
1B17.	All	Depressed
1B1U.	All	Symptoms of depression
1BQ..	All	Loss of capacity for enjoyment
1BT..	All	Depressed mood
1BU..	All	Loss of hope for the future
2257	All	O/E - depressed
<b>Read CTV3 Code</b>	<b>Term ID</b>	<b>Description</b>
XE0re	All	Depressed mood
XaImU	All	Symptoms of depression
X761E	All	Loss of capacity for enjoyment



X761G	All	Loss of hope for the future
Xa3Xh	All	Feeling of hopelessness
2257.'	All	O/E - depressed
XM0CR	All	C/O - feeling depressed
X00SO	All	Depressed
XaAyM	All	Feeling hopeless
<b>SNOMED Code</b>	<b>Term ID</b>	<b>Description</b>
162722001'		On examination - depressed (disorder)
366979004'		Depressed mood (finding)
272022009'		Complaining of feeling depressed (finding)
307077003'		Feeling hopeless (finding)
1074741000000100'		Unable to be hopeful for future (finding)
1069851000000100'		Difficulty being hopeful for future (finding)
28669007'		Anhedonia (finding)
309838005'		Emotional upset (finding)
225014007'		Feeling empty (finding)
225457007'		Feeling suicidal (finding)
247796005'		Loss of capacity for enjoyment (finding)
430641005'		Markedly diminished pleasure (finding)
310480000'		Complaining of tearfulness (finding)
17029006'		Feeling despair (finding)
735640004'		Excessive crying of adult (finding)
271951008'		Crying associated with mood (finding)
394924000'		Symptoms of depression (finding)
<b>Parasuicide</b>		
<b>Read V2 Code</b>	<b>Term ID</b>	<b>Description</b>

U21..	All	[X]Intent self harm by hanging, strangulation/suffocation
U210.	All	[X]Int self harm by hanging, strangulation/suffocation occ home
U211.	All	[X]Intent self harm by hanging, strangulation/suffocation at res institut
U212.	All	[X]Int self harm by hanging, strangulation/suffocation in school/pub admin area
U213.	All	[X]Intent self harm by hanging, strangulation/suffocation in sport/athletic area
U214.	All	[X]Int self harm by hanging, strangulation/suffocation in street/highway
U215.	All	[X]Intent self harm by hanging, strangulation/suffocation trade/service area
U216.	All	[X]Int self harm by hanging, strangulation/suffocation indust/construct area
U217.	All	[X]Int self harm by hanging, strangulation/suffocation occ farm
U21y.	All	[X]Int self harm by hanging, strangulation/suffocation other spec place
U21z.	All	[X]Intent self harm by hanging, strangulation/suffocation unspecif place
U22..	All	[X]Intent self harm by drowning and submersion
U220.	All	[X]Int self harm by drowning and submersion occ home
U221.	All	[X]Intent self harm by drowning and submersion at res institut
U222.	All	[X]Int self harm by drowning and submersion in school/pub admin area
U223.	All	[X]Intent self harm by drowning and submersion in sport/athletic area
U224.	All	[X]Int self harm by drowning and submersion in street/highway
U225.	All	[X]Intent self harm by drowning and submersion trade/service area
U226.	All	[X]Int self harm by drowning and submersion indust/construct area
U227.	All	[X]Int self harm by drowning and submersion occ farm
U22y.	All	[X]Int self harm by drowning and submersion other spec place
U22z.	All	[X]Intent self harm by drowning and submersion unspecif place
U23..	All	[X]Intent self harm by handgun discharge
U230.	All	[X]Int self harm by handgun discharge occ home
U231.	All	[X]Intent self harm by handgun discharge at res institut
U232.	All	[X]Int self harm by handgun discharge in school/pub admin area

U233.	All	[X]Intent self harm by handgun discharge in sport/athletic area
U234.	All	[X]Int self harm by handgun discharge in street/highway
U235.	All	[X]Intent self harm by handgun discharge trade/service area
U236.	All	[X]Int self harm by handgun discharge indust/construct area
U237.	All	[X]Int self harm by handgun discharge occ farm
U23y.	All	[X]Int self harm by handgun discharge other spec place
U23z.	All	[X]Intent self harm by handgun discharge unspecif place
U24..	All	[X]Intentional self harm by rifle, shotgun and larger firearm discharge
U240.	All	[X]Intentional self harm by rifle, shotgun and larger firearm discharge, occurrence at home
U241.	All	[X]Intentional self harm by rifle, shotgun and larger firearm discharge, occurrence in residential institution
U242.	All	[X]Intentional self harm by rifle, shotgun and larger firearm discharge, occurrence at school, other institution and public administrative area
U243.	All	[X]Intentional self harm by rifle, shotgun and larger firearm discharge, occurrence at sports and athletics area
U244.	All	[X]Intentional self harm by rifle, shotgun and larger firearm discharge, occurrence on street and highway
U245.	All	[X]Intentional self harm by rifle, shotgun and larger firearm discharge, occurrence at trade and service area
U246.	All	[X]Intentional self harm by rifle, shotgun and larger firearm discharge, occurrence at industrial and construction area
U247.	All	[X]Intentional self harm by rifle, shotgun and larger firearm discharge, occurrence on farm
U24y.	All	[X]Intentional self harm by rifle, shotgun and larger firearm discharge, occurrence at other specified place
U24z.	All	[X]Intentional self harm by rifle, shotgun and larger firearm discharge, occurrence at unspecified place

U25..	All	[X]Intentional self harm by other and unspecified firearm discharge
U250.	All	[X]Intentional self harm by other and unspecified firearm discharge, occurrence at home
U251.	All	[X]Intentional self harm by other and unspecified firearm discharge, occurrence in residential institution
U252.	All	[X]Intentional self harm by other and unspecified firearm discharge, occurrence at school, other institution and public administrative area
U253.	All	[X]Intentional self harm by other and unspecified firearm discharge, occurrence at sports and athletics area
U254.	All	[X]Intentional self harm by other and unspecified firearm discharge, occurrence on street and highway
U255.	All	[X]Intentional self harm by other and unspecified firearm discharge, occurrence at trade and service area
U256.	All	[X]Intentional self harm by other and unspecified firearm discharge, occurrence at industrial and construction area
U257.	All	[X]Intentional self harm by other and unspecified firearm discharge, occurrence on farm
U25y.	All	[X]Intentional self harm by other and unspecified firearm discharge, occurrence at other specified place
U25z.	All	[X]Intentional self harm by other and unspecified firearm discharge, occurrence at unspecified place
2...	All	[X]Suicide
TK...	All	Attempted suicide
TK0..	All	Suicide and selfinflicted poisoning by solid and liquid substances
TK00.	All	Suicide and selfinflicted poisoning by analgesics, antipyretics and anti-rheumatics
TK01.	All	Suicide + selfinflicted poisoning by barbiturates
TK010	All	Suicide and self inflicted injury by Amylobarbitone
TK011	All	Suicide and self inflicted injury by Barbitone

TK012	All	Suicide and self inflicted injury by Butabarbitalone
TK013	All	Suicide and self inflicted injury by Pentabarbitalone
TK014	All	Suicide and self inflicted injury by Phenobarbitalone
TK015	All	Suicide and self inflicted injury by Quinalbarbitalone
TK01z	All	Suicide and self inflicted injury by barbiturates
TK02.	All	Suicide and selfinflicted poisoning by other sedatives and hypnotics
TK03.	All	Suicide and selfinflicted poisoning by tranquillisers and other psychotropic agents
TK04.	All	Suicide and selfinflicted poisoning by other drugs and medicines
TK05.	All	Suicide + selfinflicted poisoning by drug or medicine NOS
TK06.	All	Suicide and selfinflicted poisoning by agricultural and horticultural chemical and pharmaceutical preparations other than plant foods and fertilizers
TK07.	All	Suicide and selfinflicted poisoning by corrosive and caustic substances
TK08.	All	Suicide and selfinflicted poisoning by arsenic and its compounds
TK0z.	All	Suicide and selfinflicted poisoning by solid and liquid substances NOS
TK1..	All	Suicide + selfinflicted poisoning by gases in domestic use
TK10.	All	Suicide and selfinflicted poisoning by gas distributed by pipeline
TK11.	All	Suicide and selfinflicted poisoning by liquefied petroleum gas distributed in mobile containers
TK1y.	All	Suicide and selfinflicted poisoning by other utility gas
TK1z.	All	Suicide and selfinflicted poisoning by gases in domestic use NOS
TK2..	All	Suicide and selfinflicted poisoning by other gases and vapours
TK20.	All	Suicide and selfinflicted poisoning by motor vehicle exhaust gas
TK21.	All	Suicide and selfinflicted poisoning by other carbon monoxide
TK2y.	All	Suicide and selfinflicted poisoning by other gases and vapours
TK2z.	All	Suicide + selfinflicted poisoning by gases and vapours NOS
TK3..	All	Suicide and selfinflicted injury by hanging, strangulation and suffocation

TK31.	All	Suicide and selfinflicted injury by suffocation by plastic bag
TK3y.	All	Suicide and selfinflicted injury by other means of hanging, strangulation and suffocation
TK3z.	All	Suicide and selfinflicted injury by hanging, strangulation and suffocation NOS
TK4..	All	Suicide and selfinflicted injury by drowning
TK5..	All	Suicide and selfinflicted injury by firearms and explosives
TK50.	All	Suicide and selfinflicted injury by handgun
TK51.	All	Suicide and selfinflicted injury by shotgun
TK52.	All	Suicide and selfinflicted injury by hunting rifle
TK53.	All	Suicide and selfinflicted injury by military firearms
TK54.	All	Suicide and selfinflicted injury by other firearm
TK55.	All	Suicide and selfinflicted injury by explosives
TK5z.	All	Suicide and selfinflicted injury by firearms and explosives NOS
TK6..	All	Suicide and selfinflicted injury by cutting and stabbing instruments
TK60.	All	Suicide and selfinflicted injury by cutting
TK61.	All	Suicide and selfinflicted injury by stabbing
TK6z.	All	Suicide and selfinflicted injury by cutting and stabbing instruments NOS
TK7..	All	Suicide and selfinflicted injury by jumping from high place
TK70.	All	Suicide and selfinflicted injury by jumping from residential premises
TK71.	All	Suicide and selfinflicted injury by jumping from other manmade structure
TK72.	All	Suicide and selfinflicted injury by jumping from natural sites
TK72.	All	Suicide and selfinflicted injury by jumping from natural sites
TK7z.	All	Suicide and selfinflicted injury by jumping from high place NOS
TKx..	All	Suicide and selfinflicted injury by other means
TKx0.	All	Suicide and selfinflicted injury by jumping or lying before moving object
TKx01	All	Suicide and selfinflicted injury by lying before moving object

TKx0z	All	Suicide and selfinflicted injury by jumping or lying before moving object NOS
TKx1.	All	Suicide and selfinflicted injury by burns or fire
TKx2.	All	Suicide and selfinflicted injury by scald
TKx3.	All	Suicide and selfinflicted injury by extremes of cold
TKx4.	All	Suicide and selfinflicted injury by electrocution
TKx5.	All	Suicide and selfinflicted injury by crashing of motor vehicle
TKx6.	All	Suicide and selfinflicted injury by crashing of aircraft
TKx7.	All	Suicide and selfinflicted injury by caustic substances, except poisoning
TKxy.	All	Suicide and selfinflicted injury by other specified means
TKxz.	All	Suicide and selfinflicted injury by other means NOS
TKz..	All	Suicide and selfinflicted injury NOS
<b>Read CTV3 Code</b>	<b>Term ID</b>	<b>Description</b>
Xa04L	All	Parasuicide
Xa3jI	All	Attempted suicide NOS
146A.	All	H/O: attempted suicide
XM1Fs	All	Self hanging, strangulation or suffocation
TK3..	All	Suicide and selfinflicted injury by hanging, strangulation and suffocation
TK30.	All	Suicide or attempted suicide by hanging
Xa3jC	All	Attempted suicide - hanging
Xa3jL	All	Suicide - hanging
TK3y.	All	Suicide and selfinflicted injury by other means of hanging, strangulation and suffocation
TK3z.	All	Suicide and selfinflicted injury by hanging, strangulation and suffocation NOS
XE22I	All	Suicide and selfinflicted injury by suffocation by plastic bag
Xa3jD	All	Attempted suicide - suffocation
Xa3jM	All	Suicide - suffocation

TK0..	All	Suicide and selfinflicted poisoning by solid and liquid substances
TK0z.	All	Suicide and selfinflicted poisoning by solid and liquid substances NOS
TK4..	All	Suicide and selfinflicted injury by drowning
TK5..	All	Suicide or selfinflicted injury by firearms and explosives
TK50.	All	Suicide or selfinflicted injury by handgun
TK51.	All	Suicide or selfinflicted injury by shotgun
TK52.	All	Suicide or selfinflicted injury by hunting rifle
TK53.	All	Suicide or selfinflicted injury by military firearm
TK54.	All	Suicide and selfinflicted injury by other firearm
TK55.	All	Suicide or selfinflicted injury by explosives
TK5z.	All	Suicide and selfinflicted injury by firearms and explosives NOS
Xa3jF	All	Attempted suicide - firearms
Xa3jO	All	Suicide - firearms
TK6..	All	Suicide or selfinflicted injury by cutting and stabbing
TK60.	All	Suicide or selfinflicted injury by cutting
TK61.	All	Suicide or selfinflicted injury by stabbing
TK6z.	All	Suicide and selfinflicted injury by cutting and stabbing instruments NOS
Xa3jG	All	Attempted suicide - cut/stab
Xa3jP	All	Suicide - cut/stab
TK7..	All	Suicide or self injury by jumping from a height
TK70.	All	Suicide and selfinflicted injury by jumping from residential premises
TK71.	All	Suicide and selfinflicted injury by jumping from other man-made structure
TK72.	All	Suicide and selfinflicted injury by jumping from natural sites
TK72.	All	Suicide and selfinflicted injury by jumping from natural sites
TK7z.	All	Suicide and selfinflicted injury by jumping from high place NOS
X71B6	All	Suicide or self injury by jumping from high man-made structure



X71B7	All	Suicide or self injury by jumping from high building
X71B8	All	Suicide or self injury by jumping from bridge
X71B9	All	Suicide or self injury by jumping from high natural feature
X71BA	All	Suicide or self injury by jumping off cliff
Xa3jH	All	Attempted suicide - jumping from a high place
Xa3jQ	All	Suicide - jumping from a high place
TKx..	All	Suicide and selfinflicted injury by other means
TKx0.	All	Suicide and selfinflicted injury by jumping or lying before moving object
TKx00	All	Suicide and selfinflicted injury by jumping before moving object
TKx01	All	Suicide and selfinflicted injury by lying before moving object
TKx0z	All	Suicide and selfinflicted injury by jumping or lying before moving object NOS
TKxy.	All	Suicide and selfinflicted injury by other specified means
TKxz.	All	Suicide and selfinflicted injury by other means NOS
TKx1.	All	Suicide or self injury by burning or fire
TKx2.	All	Suicide or self injury by scalding
X71BF	All	Suicide or self injury by igniting petrol soaked clothing
X71BG	All	Suicide or self injury by arson
TKx3.	All	Suicide or self injury by exposure to cold
TKx4.	All	Suicide or self injury by electric current
TKx7.	All	Suicide and selfinflicted injury by caustic substances, excluding poisoning
TKz..	All	Suicide and selfinflicted injury NOS
Xa3jI	All	Attempted suicide NOS
Xa3jR	All	Suicide NOS
X71B3	All	Self poisoning by gas
TK1..	All	Suicide and selfinflicted poisoning by gases in domestic use
TK21.	All	Suicide and selfinflicted poisoning by other carbon monoxide

TK2y.	All	Suicide and selfinflicted poisoning by other gases and vapours
TK2z.	All	Suicide and selfinflicted poisoning by gases and vapours NOS
X71B4	All	Self poisoning by carbon monoxide
TK20.	All	Self poisoning by motor vehicle exhaust gas
X71B5	All	Self poisoning by coal gas
X71BB	All	Suicide or self injury associated with moving vehicles
TKx5.	All	Suicide or selfinflicted injury by crashing motor vehicle
TKx6.	All	Suicide or selfinflicted injury by crashing of aircraft
X71BC	All	Suicide or self injury by placing self in path of moving vehicle
X71BD	All	Suicide or self injury by placing self in path of moving motor vehicle
X71BE	All	Suicide or self injury by placing self in path of moving railway vehicle
XE22J	All	Suicide or attempted suicide by drowning
Xa3jE	All	Attempted suicide - drowning
Xa3jN	All	Suicide - drowning
XM1Fs	All	Self hanging, strangulation or suffocation
TK3..	All	Suicide and selfinflicted injury by hanging, strangulation and suffocation
TK30.	All	Suicide or attempted suicide by hanging
Xa3jL	All	Suicide - hanging
TK3y.	All	Suicide and selfinflicted injury by other means of hanging, strangulation and suffocation
TK3z.	All	Suicide and selfinflicted injury by hanging, strangulation and suffocation NOS
XE22I	All	Suicide and selfinflicted injury by suffocation by plastic bag
Xa3jD	All	Attempted suicide - suffocation
Xa3jM	All	Suicide - suffocation
TK50.	All	Suicide or selfinflicted injury by handgun
Ua1AA	All	Hanging self

Ua1AB	All	Drowning self
Ua1A9	All	Jumping from height
Ua1A8	All	Jumping from building
Ua1A7	All	Jumping from bridge
Ua14U	All	Jumping from cliff
Ua1AE	All	Self-asphyxiation
Ua1AD	All	Self-strangulation
Ua1AC	All	Self-suffocation
Ua14S	All	Throwing self in front of vehicle
Ua14T	All	Throwing self in front of train
X71B0	All	Self poisoning by non-drug solid or liquid agents
TK07.	All	Self poisoning by corrosive or caustic substance
TK08.	All	Self poisoning by arsenic or its compounds
X71B2	All	Self poisoning by plants or parts of plants
XM1FX	All	Self poisoning by agricultural chemical
TK06.	All	Suicide and selfinflicted poisoning by agricultural and horticultural chemical and pharmaceutical preparations other than plant foods and fertilizers
X71B1	All	Self poisoning by paraquat
Ua14R	All	Shooting self
Xa2pL	All	Stabbing self
U21..	All	[X]Intent self harm by hanging, strangulation/suffocation
U210.	All	[X]Int self harm by hanging, strangulation/suffocation occ home
U211.	All	[X]Intent self harm by hanging, strangulation/suffocation at res institut
U212.	All	[X]Int self harm by hanging, strangulation/suffocation in school/pub admin area
U213.	All	[X]Intent self harm by hanging, strangulation/suffocation in sport/athletic area
U214.	All	[X]Int self harm by hanging, strangulation/suffocation in street/highway

U215.	All	[X]Intent self harm by hanging, strangulation/suffocation trade/service area
U216.	All	[X]Int self harm by hanging, strangulation/suffocation indust/construct area
U217.	All	[X]Int self harm by hanging, strangulation/suffocation occ farm
U21y.	All	[X]Int self harm by hanging, strangulation/suffocation other spec place
U21z.	All	[X]Intent self harm by hanging, strangulation/suffocation unspecif place
U22..	All	[X]Intent self harm by drowning and submersion
U220.	All	[X]Int self harm by drowning and submersion occ home
U221.	All	[X]Intent self harm by drowning and submersion at res institut
U222.	All	[X]Int self harm by drowning and submersion in school/pub admin area
U223.	All	[X]Intent self harm by drowning and submersion in sport/athletic area
U224.	All	[X]Int self harm by drowning and submersion in street/highway
U225.	All	[X]Intent self harm by drowning and submersion trade/service area
U226.	All	[X]Int self harm by drowning and submersion indust/construct area
U227.	All	[X]Int self harm by drowning and submersion occ farm
U22y.	All	[X]Int self harm by drowning and submersion other spec place
U22z.	All	[X]Intent self harm by drowning and submersion unspecif place
U23..	All	[X]Intent self harm by handgun discharge
U230.	All	[X]Int self harm by handgun discharge occ home
U231.	All	[X]Intent self harm by handgun discharge at res institut
U232.	All	[X]Int self harm by handgun discharge in school/pub admin area
U233.	All	[X]Intent self harm by handgun discharge in sport/athletic area
U234.	All	[X]Int self harm by handgun discharge in street/highway
U235.	All	[X]Intent self harm by handgun discharge trade/service area
U236.	All	[X]Int self harm by handgun discharge indust/construct area
U237.	All	[X]Int self harm by handgun discharge occ farm
U23y.	All	[X]Int self harm by handgun discharge other spec place

U23z.	All	[X]Intent self harm by handgun discharge unspecif place
U24..	All	[X]Intentional self harm by rifle, shotgun and larger firearm discharge
U240.	All	[X]Intentional self harm by rifle, shotgun and larger firearm discharge, occurrence at home
U241.	All	[X]Intentional self harm by rifle, shotgun and larger firearm discharge, occurrence in residential institution
U242.	All	[X]Intentional self harm by rifle, shotgun and larger firearm discharge, occurrence at school, other institution and public administrative area
U243.	All	[X]Intentional self harm by rifle, shotgun and larger firearm discharge, occurrence at sports and athletics area
U244.	All	[X]Intentional self harm by rifle, shotgun and larger firearm discharge, occurrence on street and highway
U245.	All	[X]Intentional self harm by rifle, shotgun and larger firearm discharge, occurrence at trade and service area
U246.	All	[X]Intentional self harm by rifle, shotgun and larger firearm discharge, occurrence at industrial and construction area
U247.	All	[X]Intentional self harm by rifle, shotgun and larger firearm discharge, occurrence on farm
U24y.	All	[X]Intentional self harm by rifle, shotgun and larger firearm discharge, occurrence at other specified place
U24z.	All	[X]Intentional self harm by rifle, shotgun and larger firearm discharge, occurrence at unspecified place
U25..	All	[X]Intentional self harm by other and unspecified firearm discharge
U250.	All	[X]Intentional self harm by other and unspecified firearm discharge, occurrence at home
U251.	All	[X]Intentional self harm by other and unspecified firearm discharge, occurrence in residential institution

U252.	All	[X]Intentional self harm by other and unspecified firearm discharge, occurrence at school, other institution and public administrative area
U253.	All	[X]Intentional self harm by other and unspecified firearm discharge, occurrence at sports and athletics area
U254.	All	[X]Intentional self harm by other and unspecified firearm discharge, occurrence on street and highway
U255.	All	[X]Intentional self harm by other and unspecified firearm discharge, occurrence at trade and service area
U256.	All	[X]Intentional self harm by other and unspecified firearm discharge, occurrence at industrial and construction area
U257.	All	[X]Intentional self harm by other and unspecified firearm discharge, occurrence on farm
U25y.	All	[X]Intentional self harm by other and unspecified firearm discharge, occurrence at other specified place
U25z.	All	[X]Intentional self harm by other and unspecified firearm discharge, occurrence at unspecified place
<b>SNOMED Code</b>	<b>Term ID</b>	<b>Description</b>
225048008		Jumping from height (finding)
225046007		Jumping from bridge (finding)
225047003		Jumping from building (finding)
224950008		Jumping from cliff (finding)
224949008		Throwing self in front of train (finding)
224948000		Throwing self in front of vehicle (finding)
225049000		Hanging self (finding)
428422006		Found hanging self (finding)
161474000		History of attempted suicide (situation)
82313006		Suicide attempt (event)

269808005		Attempt suicide - car exhaust (event)
288311002		Attempt suicide - domestic gas (event)
287185009		Attempted suicide - cut/stab (event)
287183002		Attempted suicide - drowning (event)
287184008		Attempted suicide - firearms (event)
287181000		Attempted suicide - hanging (event)
287186005		Attempted suicide - jumping from a high place (event)
287182007		Attempted suicide - suffocation (event)
36153001		First known suicide attempt (event)
23233009		Previous known suicide attempt (event)
53846008		Suicide attempt by adequate means (event)
55554002		Suicide attempt by inadequate means (event)
219110007		Suicide and self inflicted injury by amylobarbitone (navigational concept)
269725004		Suicide and selfinflicted injury (navigational concept)
219141008		Suicide and selfinflicted injury by drowning (navigational concept)
219111006		Suicide and self inflicted injury by Barbitone (navigational concept)
219115002		Suicide and self inflicted injury by Quinalbarbitone (navigational concept)
219116001		Suicide and self inflicted injury by barbiturates (navigational concept)
219112004		Suicide and self inflicted injury by Butabarbitone (navigational concept)
219114003		Suicide and self inflicted injury by phenobarbitone (navigational concept)
219113009		Suicide and self inflicted injury by Pentabarbitone (navigational concept)
219150005		Suicide or selfinflicted injury by cutting and stabbing (navigational concept)
219142001		Suicide or selfinflicted injury by firearms and explosives (navigational concept)
219125007		Suicide and selfinflicted poisoning by gases in domestic use (disorder)
219126008		Suicide and selfinflicted poisoning by gas distributed by pipeline (disorder)

219127004		Suicide and selfinflicted poisoning by liquefied petroleum gas distributed in mobile containers (disorder)
269726003		Suicide and selfinflicted injury by suffocation by plastic bag (navigational concept)
219158003		Suicide and selfinflicted injury by jumping from natural sites (navigational concept)
219163004		Suicide and selfinflicted injury by lying before moving object (navigational concept)
219162009		Suicide and selfinflicted injury by jumping before moving object (navigational concept)
219156004		Suicide and selfinflicted injury by jumping from residential premises (navigational concept)
219161002		Suicide and selfinflicted injury by jumping or lying before moving object (navigational concept)
219171000		Suicide and selfinflicted injury by caustic substances, excluding poisoning (navigational concept)
219108005		Suicide and selfinflicted poisoning by analgesics, antipyretics and anti-rheumatics (navigational concept)
219107000		Suicide and selfinflicted poisoning by solid and liquid substances (navigational concept)
219136000		Suicide and selfinflicted injury by hanging, strangulation and suffocation (navigational concept)
370908002		Patient suicide, or attempted suicide resulting in serious disability, while being cared for in a healthcare facility (event)
271982007		Intentional self poisoning (disorder)
363293009		Self-administered poisoning (disorder)
242839001		Self poisoning by gas (disorder)
242840004		Self poisoning caused by carbon monoxide (disorder)



242841000		Self poisoning caused by coal gas (disorder)
219131005		Self poisoning caused by motor vehicle exhaust gas (disorder)
242836008		Self poisoning by non-drug solid or liquid agents (disorder)
274912004		Self poisoning by agricultural chemical (disorder)
219122005		Self poisoning by corrosive or caustic substance (disorder)
242837004		Self poisoning by paraquat (disorder)
242838009		Self poisoning by plants or parts of plants (disorder)
219123000		Self poisoning caused by arsenic or its compounds (disorder)
284744004		Burning self (finding)
307578000		Cutting own wrists (finding)
225045006		Cutting own throat (finding)
224947005		Shooting self (finding)
284759005		Stabbing self (finding)
219166007		Suicide or self injury by scalding (navigational concept)
225050000		Drowning self (finding)
219333004		Drowning or immersion of unknown intent (event)
418765005		Exposure to potentially harmful entity, undetermined intent (event)
219328003		Hanging, strangulation or suffocation of unknown intent (event)
219329006		Hanging of unknown intent (event)
219330001		Suffocation of unknown intent by plastic bag (event)
219342006		Injury of unknown intent by sharp instrument (disorder)
<b>Absence from school</b>		
<b>Read V2 Code</b>	<b>Term ID</b>	<b>Description</b>
E2C10	All	School refusal
E2D2z	All	School refusal
13Z4J	All	School attendance poor

Eu912	All	[X]Truancy from school
E2C10	All	Unsocial childhood truancy
E2C20	All	Socialised childhood truancy
<b>Read CTV3 Code</b>	<b>Term ID</b>	<b>Description</b>
X766A	All	School refusal
13Z4J	All	School attendance poor
X7667	All	Intentional non-attendance at school
13Z4G	All	Left school free will
X7669	All	Parental withholding from school
X7668	All	Truancy
XE1Yt	All	Unsocial childhood truancy
E2C20	All	Socialised childhood truancy
<b>SNOMED Code</b>	<b>Term ID</b>	<b>Description</b>
248050007		Intentional non-attendance at school (finding)
248052004		School refusal (finding)
105479008		Truancy (finding)
248051006		Parental withholding from school (finding)
161131005		Left school free will (finding)
161133008		School attendance poor (finding)
440680000		Unable to attend school due to illness (finding)
31492004		Fear of school (finding)
271947006		School phobia (finding)
<b>Unemployment</b>		
<b>Read V2 Code</b>	<b>Term ID</b>	<b>Description</b>
13J7.	All	Unemployed
13J70	All	Recently unemployed

13J71	All	Chronic unemployment
ZV620	All	[V]Unemployment
13R..	All	Unemployment benefits
13R1.	All	Unemployment benefit
13R2.	All	Redundancy payment
13RZ.	All	Unemployment benefit NOS
13JX.	All	Time off work
13JG.	All	Voluntarily redundant
13J3.	All	Loss of job
13J30	All	Sacked from work
13J8.	All	Redundant
13JJ.	All	Unfit for work
13JJ0	All	Benefit agency reports unfit for work
13JJ1	All	Benefit agency reports unfit for work but fit note no longer required
13Jk.	All	Not in employment, education or training
9DG4.	All	IB 113 DLS incapacity for work form paid
9DG2.	All	IB 113 DLS incapacity for work form sent
9DG3.	All	IB 113 DLS incapacity for work form received
9DG1.	All	IB 113 DLS incapacity for work form completed
9DQ3.	All	ESA113 form paid
9DQ1.	All	ESA113 form sent
9DQ2.	All	ESA113 form received
9DQ0.	All	ESA113 form completed
130D.	All	Employment and support allowance
<b>Read CTV3 Code</b>	<b>Term ID</b>	<b>Description</b>
13J7.	All	Unemployed

13J70	All	Recently unemployed
13J71	All	Chronic unemployment
ZV620	All	[V]Unemployment
XaPhf	All	Benefit agency reports unfit for work
Xabd4	All	Benefit agency reports unfit for work but fit note no longer required
13J8.	All	Redundant
13JG.	All	Voluntarily redundant
Ua2BD	All	Unfit to return to work
Ua2BE	All	Physically unfit for work
U12BF	All	Mentally unfit for work
13JX.	All	Time off work
XaZHu	All	ESA113 form paid
XaZHt	All	ESA113 form sent
XaZHs	All	ESA113 form received
XaZHj	All	ESA113 form completed
XaBhC	All	Employment and support allowance
XacJr	All	Not in employment, education or training
XE0pT	All	Loss of job
Ua0V9	All	Dismissed from job
Ua0VA	All	Unfair dismissal from job
XaClW	All	IB 113 DLS incapacity for work form paid
XaCIU	All	IB 113 DLS incapacity for work form sent
XaCIV	All	IB 113 DLS incapacity for work form received
XaCIT	All	IB 113 DLS incapacity for work form completed
13JJ.	All	Unfit for work
13J6.	All	Medically retired

<b>SNOMED Code</b>	<b>Term ID</b>	<b>Description</b>
266956001		Loss of job (finding)
105496009		Dismissed from job (finding)
160901009		Made redundant (finding)
73438004		Unemployed (finding)
160900005		Chronic unemployment (finding)
160899000		Recently unemployed (finding)
354581000000101'		Unemployed person (person)
719401000000102'		Unemployed person (qualifier value)
224474004		Unfair dismissal from job (finding)
105498005		Voluntarily redundant (finding)
723481000000104'		Youth unemployment (qualifier value)
161005005		Unemployment benefits (qualifier value)
161006006		Unemployment benefit (qualifier value)
723971000000106'		Long term unemployment (qualifier value)
313083007		Unemployment counseling (procedure)
313084001		Redundancy counseling (procedure)
281559009		Number of days off work (observable entity)
160928004		Amount of time off work (observable entity)
439907006		Number of sick days off work in last month (observable entity)
105495008		Forced retirement, life event (finding)
925481000000108'		Benefits agency reports unfit for work but fit note no longer needed (finding)
161007002		Redundancy payment (qualifier value)
160910001		Unfit for work (finding)
374171000000109'		Benefits agency reports unfit for work (finding)
304248001		Unfit for particular post (finding)

225888002		Unfit to return to work (finding)
225890001		Mentally unfit to return to work (finding)
225889005		Physically unfit to return to work (finding)
224384002		Registered with job center (finding)
224385001		Registered with work placement officer (finding)
14121000000104'		IB113 DLS Incapacity for work form sent (finding)
14141000000106'		IB113 DLS Incapacity for work form paid (finding)
14131000000102'		IB113 DLS Incapacity for work form received (finding)
14111000000105'		IB113 DLS Incapacity for work form completed (finding)
835611000000109'		Employment and support allowance status (finding)
835641000000105'		Employment and support allowance 113 form completed (finding)
835711000000103'		Employment and support allowance 113 form paid (finding)
835691000000100'		Employment and support allowance 113 form received (finding)
835671000000104'		Employment and support allowance 113 form sent (finding)
957481000000103'		Not in employment, education or training (finding)
<b>Absence from work</b>		
<b>Read V2 Code</b>	<b>Term ID</b>	<b>Description</b>
<b>Read CTV3 Code</b>	<b>Term ID</b>	<b>Description</b>
<b>SNOMED Code</b>	<b>Term ID</b>	<b>Description</b>
<b>IBD symptoms - abdominal pain</b>		
<b>Read V2 Code</b>	<b>Term ID</b>	<b>Description</b>
<b>Read CTV3 Code</b>	<b>Term ID</b>	<b>Description</b>
<b>SNOMED Code</b>	<b>Term ID</b>	<b>Description</b>
<b>IBD symptoms - discomforts or bloating</b>		
<b>Read V2 Code</b>	<b>Term ID</b>	<b>Description</b>
<b>Read CTV3 Code</b>	<b>Term ID</b>	<b>Description</b>

<b>SNOMED Code</b>	<b>Term ID</b>	<b>Description</b>
<b>IBD symptoms - diarrhoea</b>		
<b>Read V2 Code</b>	<b>Term ID</b>	<b>Description</b>
<b>Read CTV3 Code</b>	<b>Term ID</b>	<b>Description</b>
<b>SNOMED Code</b>	<b>Term ID</b>	<b>Description</b>
<b>IBD symptoms - weight loss</b>		
<b>Read V2 Code</b>	<b>Term ID</b>	<b>Description</b>
<b>Read CTV3 Code</b>	<b>Term ID</b>	<b>Description</b>
<b>SNOMED Code</b>	<b>Term ID</b>	<b>Description</b>
<b>IBD symptoms - tiredness/fatigue</b>		
<b>Read V2 Code</b>	<b>Term ID</b>	<b>Description</b>
<b>Read CTV3 Code</b>	<b>Term ID</b>	<b>Description</b>
<b>SNOMED Code</b>	<b>Term ID</b>	<b>Description</b>
<b>Growth retardation related codes</b>		
<b>Read V2 Code</b>	<b>Term ID</b>	<b>Description</b>
<b>Read CTV3 Code</b>	<b>Term ID</b>	<b>Description</b>
<b>SNOMED Code</b>	<b>Term ID</b>	<b>Description</b>

**sTable 3.2** Read and SNOMED codes to be used to identify the severity of IBD

<b>Medication use</b>		
<b>Read V2 Code</b>	<b>Term ID</b>	<b>Description</b>
<b>Read CTV3 Code</b>	<b>Term ID</b>	<b>Description</b>
<b>SNOMED Code</b>	<b>Term ID</b>	<b>Description</b>
<b>Surgical intervention</b>		
<b>Read V2 Code</b>	<b>Term ID</b>	<b>Description</b>
<b>Read CTV3 Code</b>	<b>Term ID</b>	<b>Description</b>
<b>SNOMED Code</b>	<b>Term ID</b>	<b>Description</b>
<b>Hospital admissions</b>		
<b>Read V2 Code</b>	<b>Term ID</b>	<b>Description</b>
<b>Read CTV3 Code</b>	<b>Term ID</b>	<b>Description</b>
<b>SNOMED Code</b>	<b>Term ID</b>	<b>Description</b>
<b>Nutritional supplements (Modulen, Fortisip, Ensure, Osmolite, and Neocate)</b>		
<b>Read V2 Code</b>	<b>Term ID</b>	<b>Description</b>
<b>Read CTV3 Code</b>	<b>Term ID</b>	<b>Description</b>
<b>SNOMED Code</b>	<b>Term ID</b>	<b>Description</b>