Supplementary material for:

Common infections, mental health problems, and healthcare use in people with inflammatory bowel disease (IBD): A cohort study protocol

Authors: Peter Irving, Kevin Barrett, Daniel Tang, Monica Nijher, Simon de Lusignan

Additional file 2

Algorithms and codes used to identify anxiety episodes, depression episodes, and recurrent major depression.

Table S2.1. 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.

Clinical entity	ICD 10 code	Definition
Anxiety	F41	Any coded anxiety episode AND concurrent
		treatment for anxiety
Depressive episode	F32	Any coded depressive episode AND concurrent
		treatment for depression
Recurrent depressive	F33	(Any historical code* for a depressive episode AND
disorder		current treatment for depression) OR Any code for
		recurrent depressive disorder
Anxiety treatments	NA	SSRIs, anxiolytics, counselling, CBT, and
		psychotherapy
Depression	NA	SSRIs, TCAs, MAOIs, counselling, CBT, and
treatments		psychotherapy

Table S2.2 Read codes used to identify anxiety episodes

Read V2 Code	Term ID	Description
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
Read CTV3 Code	Term ID	Description
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
XOORP	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

Table S2.3 Read codes used to identify depression episodes.

Read V2 Code	Term ID	Description
E0013	All	Presenile dementia with depression
E0021	All	Senile dementia with depression
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

All	[X]Moderate depressive episode
	[X]Severe depressive episode without psychotic symptoms
	[X]Severe depressive episode with psychotic symptoms
	[X]Mild depression
	[X]Major depression, mild
	[X]Major depression, moderately severe
	[X]Major depression, severe without psychotic symptoms
	[X]Major depression, severe with psychotic symptoms
	[X]Other depressive episodes
	[X]Depressive episode, unspecified
	[X]Recurrent depressive disorder
All	[X]Recurrent depressive disorder, current episode mild
All	[X]Recurrent depressive disorder, current episode moderate
	[X]Recurrent depressive disorder, current episode severe without
All	psychotic symptoms
ΛII	[X]Recurrent depressive disorder, current episode severe with psychotic
	symptoms [X]Recurrent depressive disorder, currently in remission
	[X]Other recurrent depressive disorders
	[X]Recurrent depressive disorder, unspecified
All	[X]Mixed anxiety and depressive disorder
Term ID	Description
-	Mixed anxiety and depressive disorder
All	Depressive disorder
	Seasonal affective disorder
	Recurrent brief depressive disorder
	Agitated depression
	Reactive depression
	Endogenous depression
	Endogenous depression first episode
7.11	
ΔII	
All	Single major depressive episode
All	Single major depressive episode Single major depressive episode, unspecified
All All	Single major depressive episode Single major depressive episode, unspecified Single major depressive episode, unspecified
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All All All All	Single major depressive episode Single major depressive episode, unspecified Single major depressive episode, unspecified Single major depressive episode, mild Single major depressive episode, moderate Single major depressive episode, severe, without mention of psychosis Single major depressive episode, severe, with psychosis
All All All All All	Single major depressive episode Single major depressive episode, unspecified Single major depressive episode, unspecified Single major depressive episode, mild Single major depressive episode, moderate Single major depressive episode, severe, without mention of psychosis
All All All All All All	Single major depressive episode Single major depressive episode, unspecified Single major depressive episode, unspecified Single major depressive episode, mild Single major depressive episode, moderate Single major depressive episode, severe, without mention of psychosis Single major depressive episode, severe, with psychosis Single major depressive episode, severe, with psychosis
All All All All All All All	Single major depressive episode Single major depressive episode, unspecified Single major depressive episode, unspecified Single major depressive episode, mild Single major depressive episode, moderate Single major depressive episode, severe, without mention of psychosis Single major depressive episode, severe, with psychosis Single major depressive episode, severe, with psychosis Single major depressive episode, severe, with psychosis in remission
All All All All All All All All All	Single major depressive episode Single major depressive episode, unspecified Single major depressive episode, unspecified Single major depressive episode, mild Single major depressive episode, moderate Single major depressive episode, severe, without mention of psychosis Single major depressive episode, severe, with psychosis Single major depressive episode, severe, with psychosis Single major depressive episode, severe, with psychosis, psychosis in remission Single major depressive episode, in partial or unspecified remission Single major depressive episode, in full remission
All All All All All All All All All	Single major depressive episode Single major depressive episode, unspecified Single major depressive episode, unspecified Single major depressive episode, mild Single major depressive episode, moderate Single major depressive episode, severe, without mention of psychosis Single major depressive episode, severe, with psychosis, psychosis in remission Single major depressive episode, in partial or unspecified remission
	All All All All All All Term ID All

E1131	All	Recurrent major depressive episodes, mild
E1132	All	Recurrent major depressive episodes, moderate
		Recurrent major depressive episodes, severe, without mention of
E1133	All	psychosis
E1134	All	Recurrent major depressive episodes, severe, with psychosis
		Recurrent major depressive episodes, in partial or unspecified
E1135	All	remission
E1136	All	Recurrent major depressive episodes, in full remission
E113z	All	Recurrent major depressive episode NOS
XOOSU	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
		[X]Recurrent depressive disorder, current episode severe without
XE1Zd	All	psychotic symptoms
		[X]Recurrent depressive disorder, current episode severe with psychotic
XE1Ze	All	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
XaCls	All	Mild depression
XaClt	All	Moderate depression
XaClu	All	Severe depression
E0013	All	Presenile dementia with depression
E0021	All	Senile dementia with depression

Table S2.4 Read codes used to identify a diagnosis of recurrent major depression.

Read V2 Code	Term ID	Description
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
Read CTV3		
Code	Term ID	Description
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
		Recurrent major depressive episodes, severe, with psychosis, psychosis
XaX54	All	in remission
		Recurrent major depressive episodes, in partial or unspecified
E1135	All	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
		[X]Recurrent depressive disorder, current episode severe without
XE1Zd	All	psychotic symptoms
		[X]Recurrent depressive disorder, current episode severe with psychotic
XE1Ze	All	symptoms
XE1Zf	All	[X]Recurrent depressive disorder, unspecified

Table S2.5 Read codes used to identify non-medication based treatments for depression or

anxiety. These codes are used as part of the validated case definition (see table S2.1).

Counselling		
Read V2 Code	Term ID	Description
67	11	Counselling/health education
671	All	Counselling - general
6712.	All	Counselling offered
6714.	All	Counselling carried out
6715.	All	Counselling by other agency
6716.	All	Counselling of benefit
6717.	All	Counselling of no benefit
671Z.	All	Counselling - general NOS
672	All	Person counselled
6721.	All	Patient counselled
6722.	All	Family counselled
673	All	Person counselled by
6731.	All	Counselled by a doctor
6732.	All	Counselled by a nurse
6733.	All	Counselled by a health visitor
6735.	All	Counselled by a social worker
6736.	All	Counselled by a counsellor
6737.	All	Counselled by a vol. worker
673Z.	All	Counselled by person NOS
8M8	All	Counselling requested
9NJ1.	All	In-house counselling
9NJR.	All	In-house counselling first appointment
9NJT.	All	In-house counselling follow-up appointment
Read CTV3		
Code	Term ID	Description
X71Ec	All	Counselling
X71Ep	All	Coping strategy counselling
XaEC1	All	Phobia counselling

XaD27	All	Family counselling
6779.	All	Psychological counselling
XaECG	All	Anxiety counselling
XaECF	All	Self-esteem counselling
Xal8j	All	Stress counselling
672	All	Person counselled
6721.	All	Patient counselled
6722.	All	Family counselled
XE1TI	All	Person counselled by
6715.	All	Counselling by other agency
6731.	All	Counselled by a doctor
6732.	All	Counselled by a nurse
6733.	All	Counselled by a health visitor
6735.	All	Counselled by a social worker
6736.	All	Counselled by a counsellor
6737.	All	Counselled by voluntary worker
673Z.	All	Counselled by person NOS
Xa07L	All	Counselled by member of primary health care team
9N2B.	All	Seen by counsellor
XaAS4	All	Seen by mental health counsellor
XaBT1	All	Refer to counsellor
XaAfJ	All	Referral to mental health counsellor
9NJ1.	All	In-house counselling
XaLnp	All	In-house counselling first appointment
XaLnr	All	In-house counselling follow-up appointment
671	All	Counselling - general
6712.	All	Counselling offered
6714.	All	Counselling carried out
6716.	All	Counselling of benefit
6717.	All	Counselling of no benefit
671Z.	All	Counselling - general NOS
XaAOd	All	Under care of counsellor
XaAOh	All	Under care of mental health counsellor
Cognitive Behavi	oural Thera	ру
Read V2 Code	Term ID	Description
8G13.	All	Cognitive-behaviour therapy
8G130	All	Cognitive behavioural therapy parenting programme
8G131	All	CBTp - cognitive behavioural therapy for psychosis
7L1a.	All	Cognitive behavioural therapy
7L1a0	All	Cognitive behavioural therapy by unidisciplinary team
7L1a1	All	Cognitive behavioural therapy by multidisciplinary team
7L1ay	All	Other specified cognitive behavioural therapy
7L1az	All	Cognitive behavioural therapy NOS
8G510	All	Group cognitive behavioural therapy

8G15.	All	Computerised cognitive behavioural therapy
8HIK.	All	Referral for cognitive behavioural therapy
Read CTV3		
Code	Term ID	Description
Ub0qp	All	Cognitive and behavioural therapy
XaABO	All	Cognitive - behaviour therapy
Xad6J	All	Cognitive behavioural therapy for psychosis
Хааа6	All	Cognitive behavioural therapy parenting programme
XaQC0	All	Guided self help cognitive behavioural therapy
XaKzQ	All	Computerised cognitive behavioural therapy
Xa8I9	All	Generic cognitive behavioural therapy
XaM2I	All	Cognitive behavioural therapy by unidisciplinary team
XaM2J	All	Cognitive behavioural therapy by multidisciplinary team
XaM2K	All	Other specified cognitive behavioural therapy
XaM2L	All	Cognitive behavioural therapy NOS
XaR2j	All	Referral to cognitive behavioural therapist
XaR5D	All	Referral for cognitive behavioural therapy
XaYgB	All	Referral for high intensity cognitive behavioural therapy
Psychotherapy		
Read V2 Code	Term ID	Description
8G	All	Psychotherapy
8G1	All	General psychotherapy
8G10.	All	Psychotherapy - behavioural
8G100	All	Behavioural activation therapy
8G101	All	Dialectical behaviour therapy
8G102	All	Behavioural parent training
8G11.	All	Psychotherapy - cognitive
8G12.	All	Psychotherapy - psychodynamic
8G120	All	Short-term psychodynamic therapy
8G121	All	Dynamic interpersonal therapy
8G122	All	Focal psychodynamic therapy
8G14.	All	Cognitive analytic therapy
8G15.	All	Computerised cognitive behavioural therapy
8G16.	All	Interpersonal psychotherapy
8G18.	All	Cognitive stimulation therapy
9NIK.	All	Seen by psychotherapist
9NIKO	All	Seen by trainee psychotherapist
8HHT.	All	Referral to psychotherapist
ZV57D	All	[V]Psychotherapy, not elsewhere classified
ZV673	All	[V]Psychotherapy or other treatment for mental disorder follow-up
8G9Z.	All	Other psychotherapy NOS
8G9	All	Other psychotherapy
Read CTV3	Tana	Description
Code	Term ID	Description
X71bp	All	Psychotherapy

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