



# 2025 Phenotype Phebruary Week 2





# Phenotype Phebruary 2025 Calendar

Sunday      Monday      Tuesday      Wednesday      Thursday      Friday      Saturday

## Week 1: Clinical Descriptions & Prior Work

- Week 1 – Clinical Description:**

A session is planned to discuss clinical descriptions. Participants are expected to use a Gen AI prompt (developed by @Gowtham\_Rao ) that extracts necessary information to form a phenotype. This step also includes a literature search and an exploration of existing phenotype definitions (for example, checking for pre-existing definitions of AKI or obesity management).

- Week 2 – Concept Set and Logic Building:**

The second week focuses on creating the concept sets and building the logical framework of the phenotype. Here, many participants already familiar with tutorial work on concept sets building are expected to contribute. The study leads are expected to be fully engaged.

- Weeks 3–4 – Evaluation and Iteration:**

The final two weeks are dedicated to evaluating the developed phenotypes using tools such as cohort diagnostics. Iterations and refinements will be made based on these diagnostics. There is also mention of showcasing additional tools and validation approaches during these weeks.

Study team's complete clinical description

Office hours

6

7

8

## Concept Sets and Logic

Study team's complete 1st drafts of cohorts in Atlas

Office hours

13

14

15

## Review & Iterations

Study team's complete cohort review and iterations

Office hours

20

21

22

## Tools for Evaluation

Study team's wrap up cohorts and document evaluation

Office hours

All cohorts are done!

Community call update & evaluation demos

Office hours

<https://forums.ohdsi.org/t/ohdsi-phenotype-phebruary-and-workgroup-updates/20940/69>

23

24

25

26

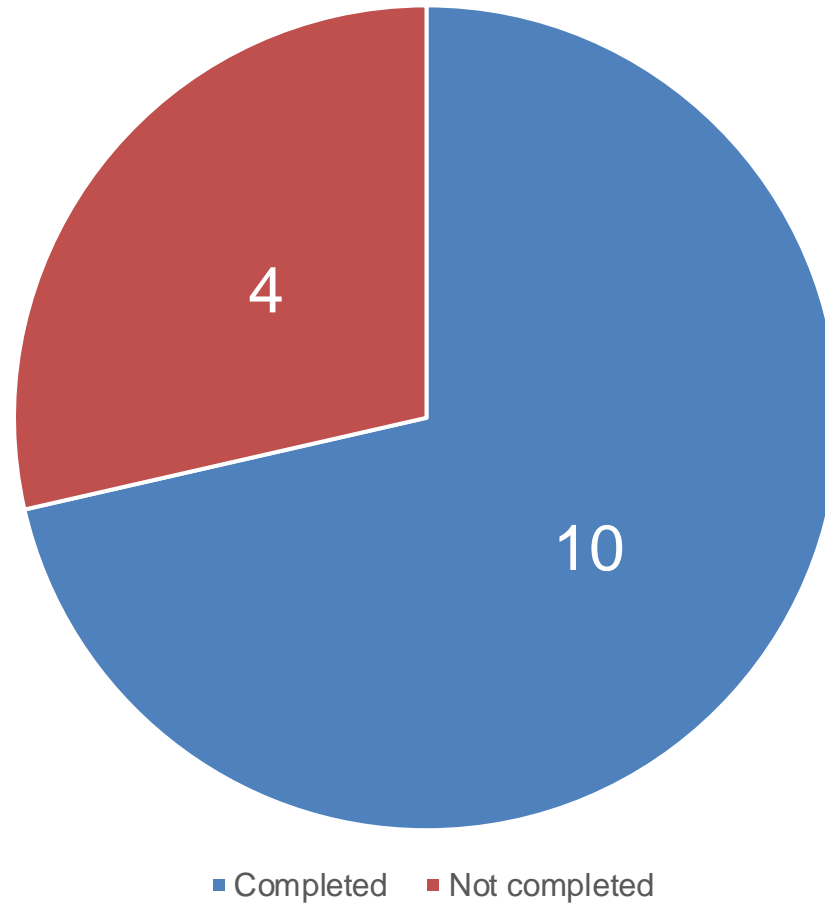
27

28



# Week 1 results

Clinical descriptions



2 page – 25 page documents

3 useful conversations stemming just from clinical descriptions

30+ people attended the office hours



# Crohn's disease clinical description

**Overview:** Crohn's disease (CD) is an idiopathic inflammatory bowel disease that can affect any portion of the intestinal tract with focal, asymmetric, transmural, and granulomatous inflammation. Intestinal involvement is discontinuous; "skip areas" of apparently normal tissue separate severely involved segments. Reported incidence varies geographically, ranging from 0-20.02 cases per 100,000 py in North America and 0.3-12.7 cases per 100,000 in Europe. Reported prevalence is highest in Europe (322 cases per 100,000 persons in Germany) and North America (319 cases per 100,000 persons in Canada) [4]. Risk factors include smoking, diet, and genetic factors.

**Presentation:** Symptoms can be non-specific; patients are oft syndrome [5]. Diarrhea and abdominal pain are most common. Fatigue, weight loss, fever, anemia, and recurrent fistulas or abscesses may also be present. Patients may display prominent extraintestinal manifestations such as arthralgias, oral ulcers, anemia, clubbing, kidney stones, uveitis, and abscesses. The principal pathologic features of CD include discontinuous focal inflammation, transmural inflammation, and perianal involvement [1-3].

**Assessment:** Diagnosis includes serological and fecal biomarkers, ultrasonography, CT and MRI) and endoscopic imaging (e.g. colonoscopy). Differential diagnosis includes Infections (amebiasis, campylobacter, C. difficile), Crohn's disease, ischemic colitis, sarcoidosis, small vessel vasculitis

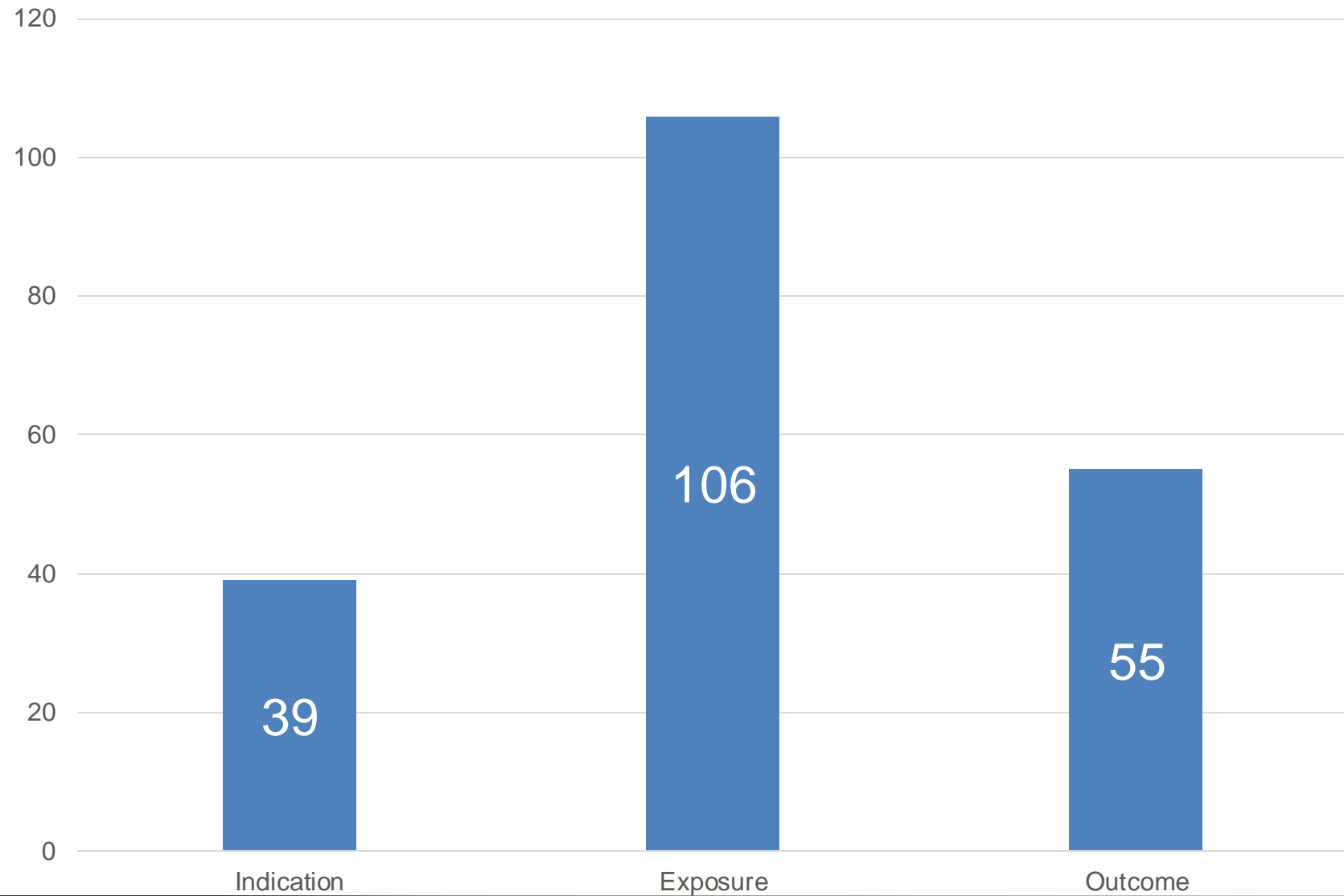
**Plan:** One of the primary goals of treatment is mucosal healing [4]. Corticosteroids (e.g. budesonide and prednisone) have been the cornerstone of CD management for decades and are recommended for treatment of mild-to-moderate ileal and moderate-to-severe ileocolonic CD. Steroids are recommended to induce remission but not for maintenance. Antibiotics are indicated in the case of perianal abscesses. For maintenance therapy, immunosuppressants (e.g. azathioprine and methotrexate) and biologic agents (e.g. anti-TNFs, ustekinumab, vedolizumab) are recommended. Biologics may also be used for induction of remission. In both the adult and pediatric CD patient populations, the overall goal of treatment is to achieve remission of acute, active disease and to maintain disease remission [2, 4, 6]. However, many patients do not attain, or subsequently lose, clinical benefit even with combinations of these therapies.

**Prognosis:** CD is a chronic, systemic, progressive disease. The natural history of CD comprises a progression from intestinal inflammation to the development of strictures and/or penetrating disease (ie, with fistulas and/or abscesses). Intestinal obstruction ultimately occurs in 20% to 30% of patients and fistula formation affects approximately a quarter of patients [4-6]. Patients often experience an impact of disease on quality of life.



# Week 1 results

201 phenotype  
63 available in phenotype  
library or in other sources





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Office hours

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OBSERVATIONAL HEALTH DATA SCIENCES AND INFORMATICS

# Concept Set creation

First-episode psychosis

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Tatiana Skugarevskaya

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# How did we get here?



Study  
idea

Clinical  
description

List of codes  
from literature

## Clinical descriptions of the phenotypes

### Introduction

Psychotic features can accompany a big number of mental disorders and can be caused by a variety of different causes. Since the idea of this study originated from an evidence gap in treatment guidelines for first-episode schizophrenia, we will be focusing on first-episode psychosis. The terms 'first-episode schizophrenia' and 'first-episode psychosis' are often used interchangeably, however, some differences need to be highlighted.

When a first-in-a-lifetime psychotic episode manifests, it is often extremely difficult or impossible to diagnose a patient with a specific disorder (e.g. schizophrenia, schizoaffective disorder, newly diagnosed depression, etc.). This is reflected in the variety of diagnostic systems and their new emerging versions. Diagnosis of a chronic disorder is often made later, if subsequent episodes happen, enriching the clinical picture. We therefore do not want to capture patients with pre-existing conditions (such as drug/alcohol abuse or bipolar disorder).

Here, a decision was made to define psychosis phenotype through Condition domain only, since psychiatric prescriptions can intersect between diagnoses a lot, and thus are not condition specific.

Commonly used codes in the literature (ICD10):

- Schizophrenia-spectrum psychotic disorders (F20.x-F29)
- Manic episode with psychotic symptoms (F30.2)
- Depressive episode with psychotic symptoms (F32.3)

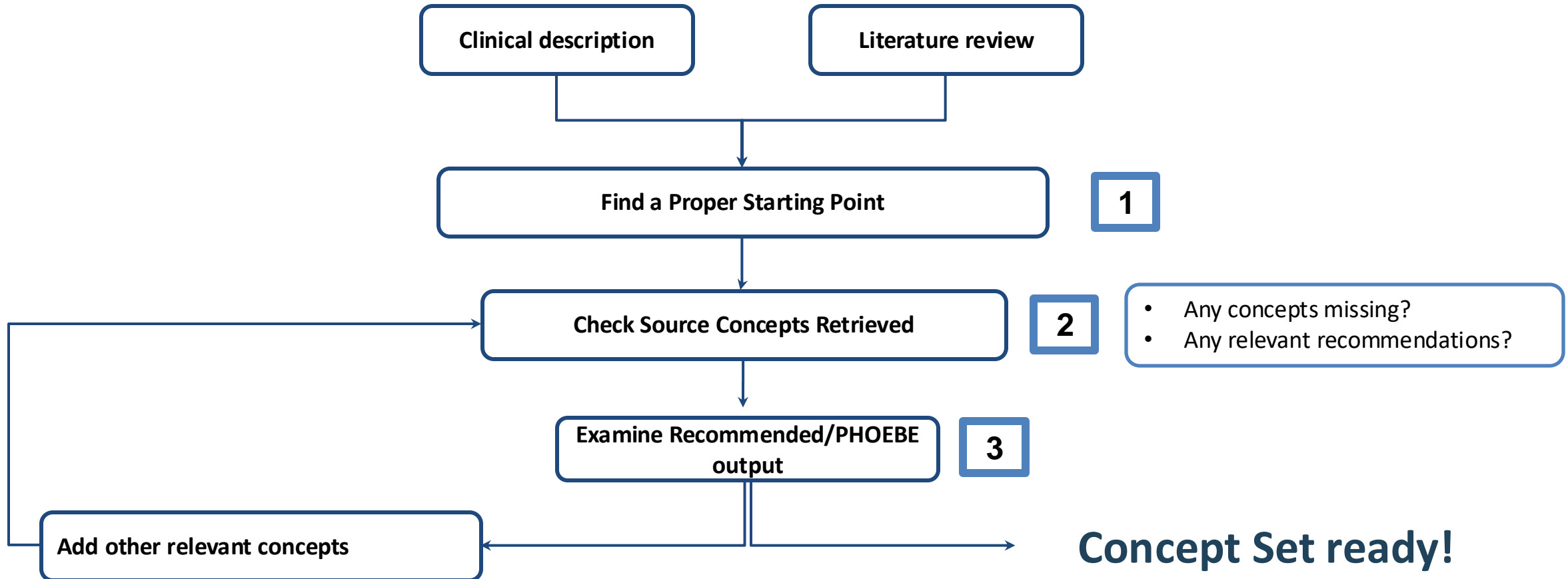
Exclude:

- Drug-induced psychoses (e.g. F10.5 Mental and behavioural disorders due to use of alcohol, Psychotic disorder)
- Organic psychotic conditions (e.g. F06.2 Organic delusional [schizophrenia-like] disorder)





# Condition concept set construction algorithm





# Starting to make a concept set

ATLAS

- Home
- Data Sources
- Search
- Concept Sets
- Cohort Definitions

English

Search

psychotic disorder

Advanced Options

ATLAS

- Home
- Data Sources
- Search
- Concept Sets
- Cohort Definitions
- Characterizations
- Cohort Pathways
- Incidence Rates
- Profiles
- Estimation

English

New Concept Set

New Concept Set

*The name of the concept set should differ from the default one.*

Concept Set Expression | Included Concepts (190) | Included Source Codes | Recommend | Explore Evidence | Export | Import | Compare | Versions | Messages

Enter the concept set description here

Show 50 entries

Filter: Search...

Showing 1 to 1 of 1 entries

<input type="checkbox"/>	Concept Id	Concept Code	Concept Name	Domain	Standard Concept Caption	<input type="checkbox"/> Exclude	<input checked="" type="checkbox"/> Descendants	<input type="checkbox"/> Mapped
<input checked="" type="checkbox"/>	436073	69322001	Psychotic disorder	Condition	Standard	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Classification Non-Standard Standard

Remove Selected Add Concepts

# Check what is included



ATLAS
English

- Home
- Data Sources
- Search
- Concept Sets
- Cohort Definitions
- Characterizations
- Cohort Pathways
- Incidence Rates
- Profiles
- Estimation
- Prediction
- Reusables
- Jobs
- Configuration
- Feedback

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New Concept Set
🔒
✕

❗ The name of the concept set should differ from the default one.

Concept Set Expression
Included Concepts 190
Included Source Codes
Recommend
Explore Evidence
Export
Import
Compare
Versions
Messages

Show columns ▼
Copy
CSV
Show 50 entries

View record count for: Evidence network counts
Filter: Search...

Showing 1 to 50 of 190 entries
Previous 1 2 3 4 Next

	Id	Code	Name	Class	RC	DRC	PC	DPC	Domain	Vocabulary	Ancestors	
▼ Vocabulary												
SNOMED (186)	<input checked="" type="checkbox"/>	436073	69322001	Psychotic disorder	Disorder	27,784,260	186,578,660	5,918,520	16,329,370	Condition	SNOMED	0
OMOP Extension (2)	<input checked="" type="checkbox"/>	435783	58214004	Schizophrenia	Disorder	42,953,350	79,196,890	2,353,220	4,593,770	Condition	SNOMED	1
Nebraska Lexicon (2)												
▼ Class												
Disorder (188)	<input checked="" type="checkbox"/>	4286201	68890003	Schizoaffective disorder	Disorder	30,120,420	67,312,860	1,616,810	3,343,060	Condition	SNOMED	1
Clinical Finding (2)	<input checked="" type="checkbox"/>	433450	64905009	Paranoid schizophrenia	Disorder	22,733,800	28,140,280	1,100,790	1,394,150	Condition	SNOMED	1
▼ Domain												
Condition (190)	<input checked="" type="checkbox"/>	4244078	38368003	Schizoaffective disorder, bipolar type	Disorder	24,339,710	24,339,710	996,660	996,660	Condition	SNOMED	1
▼ Standard Concept												
Standard (190)	<input checked="" type="checkbox"/>	4224940	84760002	Schizoaffective disorder, depressive type	Disorder	9,377,010	9,377,010	474,060	474,060	Condition	SNOMED	1
▼ Invalid Reason												
Valid (190)	<input checked="" type="checkbox"/>	435782	83746006	Chronic schizophrenia	Disorder	108,460	6,987,710	19,900	448,930	Condition	SNOMED	1
▼ Has Records												
true (135)	<input checked="" type="checkbox"/>	436944	31658008	Chronic paranoid schizophrenia	Disorder	4,258,450	5,117,050	155,110	257,650	Condition	SNOMED	1
false (55)	<input checked="" type="checkbox"/>	35622934	765176007	Psychosis and severe depression co-occurrent and due to bipolar affective disorder	Disorder	4,199,090	4,199,090	353,830	353,830	Condition	SNOMED	1
▼ Has Descendant Records												
true (136)	<input checked="" type="checkbox"/>	432597	191567000	Schizoaffective schizophrenia	Disorder	11,130	3,439,900	2,710	249,240	Condition	SNOMED	1
false (54)	<input checked="" type="checkbox"/>	618641	65971000052100	Acute psychosis	Disorder	340	3,292,080	140	551,650	Condition	SNOMED	1
	<input checked="" type="checkbox"/>	435237	231437006	Reactive psychoses	Disorder	411,670	2,795,910	191,900	994,980	Condition	SNOMED	1
	<input checked="" type="checkbox"/>	4008566	111484002	Undifferentiated schizophrenia	Disorder	1,868,810	2,660,210	153,540	221,660	Condition	SNOMED	1
	<input checked="" type="checkbox"/>	4182683	5464005	Brief reactive psychosis	Disorder	2,384,240	2,384,240	803,080	803,080	Condition	SNOMED	1
	<input checked="" type="checkbox"/>	441835	191570001	Chronic schizoaffective schizophrenia	Disorder	2,245,980	2,245,980	112,720	112,720	Condition	SNOMED	1
	<input checked="" type="checkbox"/>	436067	191527001	Simple schizophrenia	Disorder	741,280	2,206,480	122,850	320,610	Condition	SNOMED	1
	<input checked="" type="checkbox"/>	441828	35252006	Disorganized schizophrenia	Disorder	1,539,400	1,723,950	117,400	134,580	Condition	SNOMED	1
	<input checked="" type="checkbox"/>	434900	191483003	Drug-induced psychosis	Disorder	49,850	1,594,050	16,510	283,980	Condition	SNOMED	1



# Excluding codes based on the clinical description

Show columns ▾ Copy CSV Show 50 entries Filter: Search...

Showing 1 to 50 of 190 entries Previous 1 2 3 4 Next

<input type="checkbox"/>	<b>Id</b>	<b>Code</b>	<b>Name</b>	<b>Class</b>	<b>RC</b>	<b>DRC</b>	<b>PC</b>	<b>DPC</b>	<b>Domain</b>	<b>Vocabulary</b>	<b>Ancestors</b>
<input type="checkbox"/>	436073	69322001	Psychotic disorder	Disorder	27,784,260	186,578,660	5,918,520	16,329,370	Condition	SNOMED	0
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<input type="checkbox"/>	433450	64905009	Paranoid schizophrenia	Disorder	22,733,800	28,140,280	1,100,790	1,394,150	Condition	SNOMED	1
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<input type="checkbox"/>	436944	31658008	Chronic paranoid schizophrenia	Disorder	4,258,450	5,117,050	155,110	257,650	Condition	SNOMED	1
<input checked="" type="checkbox"/>	35622934	765176007	Psychosis and severe depression co-occurrent and due to bipolar affective disorder	Disorder	4,199,090	4,199,090	353,830	353,830	Condition	SNOMED	1
<input type="checkbox"/>	432597	191567000	Schizoaffective schizophrenia	Disorder	11,130	3,439,900	2,710	249,240	Condition	SNOMED	1
<input type="checkbox"/>	618641	65971000052100	Acute psychosis	Disorder	340	3,292,080	140	551,650	Condition	SNOMED	1
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<input type="checkbox"/>	4008566	111484002	Undifferentiated schizophrenia	Disorder	1,868,810	2,660,210	153,540	221,660	Condition	SNOMED	1
<input type="checkbox"/>	4182683	5464005	Brief reactive psychosis	Disorder	2,384,240	2,384,240	803,080	803,080	Condition	SNOMED	1
<input type="checkbox"/>	441835	191570001	Chronic schizoaffective schizophrenia	Disorder	2,245,980	2,245,980	112,720	112,720	Condition	SNOMED	1
<input type="checkbox"/>	436067	191527001	Simple schizophrenia	Disorder	741,280	2,206,480	122,850	320,610	Condition	SNOMED	1
<input type="checkbox"/>	441828	35252006	Disorganized schizophrenia	Disorder	1,539,400	1,723,950	117,400	134,580	Condition	SNOMED	1
<input checked="" type="checkbox"/>	434900	191483003	Drug-induced psychosis	Disorder	49,850	1,594,050	16,510	283,980	Condition	SNOMED	1
<input type="checkbox"/>	439004	26025008	Residual schizophrenia	Disorder	911,590	1,535,840	88,210	141,660	Condition	SNOMED	1
<input checked="" type="checkbox"/>	4100247	191447007	Organic psychotic condition	Disorder	970,410	1,277,000	128,080	200,290	Condition	SNOMED	1
<input checked="" type="checkbox"/>	4067987	20385005	Opioid-induced psychotic disorder with delusions	Disorder	1,196,570	1,196,570	153,050	153,050	Condition	SNOMED	1
<input type="checkbox"/>	4100366	191531007	Acute exacerbation of chronic schizophrenia	Disorder	204,500	1,074,780	35,870	140,570	Condition	SNOMED	1
<input type="checkbox"/>	4122405	278852003	Acute schizophrenia-like psychotic disorder	Disorder	54,400	876,640	4,120	118,000	Condition	SNOMED	1

Showing 1 to 50 of 190 entries

Exclude  Descendants  Mapped

Preview...

Add To Concept Set



# Expression with exclusions

Concept Set Expression   Included Concepts **120**   Included Source Codes   Recommend   Explore Evidence   Export   Import   Compare   Versions   Messages

Enter the concept set description here

Show  entries

Filter:

Showing 1 to 5 of 5 entries

Previous **1** Next

<input type="checkbox"/>	Concept Id	Concept Code	Concept Name	Domain	Standard Concept Caption	<input type="checkbox"/> Exclude	<input checked="" type="checkbox"/> Descendants	<input type="checkbox"/> Mapped
<input checked="" type="checkbox"/>	436073	69322001	<a href="#">Psychotic disorder</a>	Condition	Standard	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	35622934	765176007	<a href="#">Psychosis and severe depression co-occurrent and due to bipolar affective disorder</a>	Condition	Standard	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	4100247	191447007	<a href="#">Organic psychotic condition</a>	Condition	Standard	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	4067987	20385005	<a href="#">Opioid-induced psychotic disorder with delusions</a>	Condition	Standard	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	434900	191483003	<a href="#">Drug-induced psychosis</a>	Condition	Standard	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Classification    Non-Standard    Standard

# Explore recommendations



ATLAS
English

- Home
- Data Sources
- Search
- Concept Sets**
- Cohort Definitions
- Characterizations
- Cohort Pathways
- Incidence Rates
- Profiles
- Estimation
- Prediction
- Reusables
- Jobs
- Configuration
- Feedback

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New Concept Set
English

The name of the concept set should differ from the default one.

Concept Set Expression
Included Concepts 120
Included Source Codes
**Recommend**
Explore Evidence
Export
Import
Compare
Versions
Messages

Show columns
Copy
CSV
Show 50 entries

View record count for:
Evidence network counts

Filter:

Previous
1
Next

Showing 1 to 25 of 25 entries											
<input type="checkbox"/>	Id	Code	Name	Class	RC	DRC	PC	DPC	Domain	Vocabulary	Count
<b>Vocabulary</b>											
SNOMED (200)											
LOINC (1)											
<b>Invalid Reason</b>											
Valid (201)											
<b>Class</b>											
Disorder (171)											
Clinical Finding (29)											
Clinical Observation (1)											
<b>Domain</b>											
Condition (179)											
Observation (21)											
Measurement (1)											
<b>Relationship</b>											
Lexical via standard (122)											
Lexical via source (54)											
Ontology-parent (30)											
<b>Patient context (25)</b>											
<input checked="" type="checkbox"/>	4182210	52448006	Dementia	Disorder	102,453,010	412,012,300	7,157,620	28,537,340	Condition	SNOMED	1
<input checked="" type="checkbox"/>	440213	365929007	Consciousness and/or awareness finding	Clinical Finding	3,093,720	168,323,020	1,980,260	58,379,050	Observation	SNOMED	1
<input checked="" type="checkbox"/>	376961	3006004	Disturbance of consciousness	Clinical Finding	8,497,570	141,673,900	4,622,590	47,412,810	Observation	SNOMED	1
<input checked="" type="checkbox"/>	436222	419284004	Altered mental status	Clinical Finding	61,290,320	61,318,310	18,219,210	18,229,930	Observation	SNOMED	1
<input checked="" type="checkbox"/>	43530666	1591000119103	Dementia with behavioral disturbance	Disorder	51,456,350	60,580,510	3,221,650	3,741,530	Condition	SNOMED	1
<input checked="" type="checkbox"/>	372892	50122000	Metabolic encephalopathy	Disorder	20,018,840	24,418,750	3,609,090	4,625,390	Condition	SNOMED	1
<input checked="" type="checkbox"/>	444243	111475002	Neurosis	Disorder	7,062,380	20,063,960	1,857,660	5,095,200	Condition	SNOMED	1
<input checked="" type="checkbox"/>	373995	2776000	Delirium	Disorder	5,703,080	9,718,360	1,901,900	3,157,840	Condition	SNOMED	1
<input checked="" type="checkbox"/>	4273391	6471006	Suicidal thoughts	Clinical Finding	8,183,150	8,197,430	4,393,900	4,403,300	Condition	SNOMED	1
<input checked="" type="checkbox"/>	433031	7011001	Hallucinations	Clinical Finding	3,798,220	7,891,680	1,494,900	2,768,610	Condition	SNOMED	1
<input checked="" type="checkbox"/>	432590	48500005	Delusional disorder	Disorder	4,900,990	7,286,980	1,044,560	1,459,600	Condition	SNOMED	3
<input checked="" type="checkbox"/>	373764	28394000	Toxic encephalopathy	Disorder	5,824,680	5,829,360	1,610,750	1,611,690	Condition	SNOMED	1
<input checked="" type="checkbox"/>	4168212	274647009	Restlessness and agitation	Clinical Finding	5,713,540	5,713,540	1,635,460	1,635,460	Observation	SNOMED	1
<input checked="" type="checkbox"/>	373449	191492000	Delirium caused by drug	Disorder	248,500	3,139,260	178,620	885,570	Condition	SNOMED	1
<input checked="" type="checkbox"/>	4164151	45150006	Auditory hallucinations	Clinical Finding	1,494,520	1,496,140	569,190	570,140	Condition	SNOMED	1
<input checked="" type="checkbox"/>	373175	45912004	Organic hallucinosis	Disorder	1,007,550	1,366,720	143,650	269,620	Condition	SNOMED	2
<input checked="" type="checkbox"/>	4085332	248004009	Physical aggression	Clinical Finding	739,260	739,660	368,120	368,450	Observation	SNOMED	1
<input checked="" type="checkbox"/>	440691	13601005	Paranoid personality disorder	Disorder	575,880	575,880	115,590	115,590	Condition	SNOMED	1
<input checked="" type="checkbox"/>	376946	191461002	Senile dementia with delirium	Disorder	545,950	546,190	135,790	135,840	Condition	SNOMED	1



# Expression with the recommendations

Concept Set Expression

Included Concepts 154

Included Source Codes

Recommend

Explore Evidence

Export

Import

Compare

Versions

Messages

Enter the concept set description here

Show 50 entries

Filter: Search...

Showing 1 to 6 of 6 entries

Previous 1 Next

<input type="checkbox"/>	Concept Id	Concept Code	Concept Name	Domain	Standard Concept Caption	<input type="checkbox"/> Exclude	<input checked="" type="checkbox"/> Descendants	<input type="checkbox"/> Mapped
<input checked="" type="checkbox"/>	436073	69322001	<a href="#">Psychotic disorder</a>	Condition	Standard	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
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<input checked="" type="checkbox"/>	4100247	191447007	<a href="#">Organic psychotic condition</a>	Condition	Standard	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	4067987	20385005	<a href="#">Opioid-induced psychotic disorder with delusions</a>	Condition	Standard	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	434900	191483003	<a href="#">Drug-induced psychosis</a>	Condition	Standard	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	432590	48500005	<a href="#">Delusional disorder</a>	Condition	Standard	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Classification  Non-Standard  Standard

Remove Selected

Add Concepts

# Checking source codes included



ATLAS English

Home | Data Sources | Search | **Concept Sets** | Cohort Definitions | Characterizations | Cohort Pathways | Incidence Rates | Profiles | Estimation | Prediction | Reusables | Jobs | Configuration | Feedback

**New Concept Set**

New Concept Set [Save] [Close]

❗ The name of the concept set should differ from the default one.

Concept Set Expression | **Included Concepts** (154) | **Included Source Codes** | Recommend | Explore Evidence | Export | Import | Compare | Versions | Messages

View record count for: Evidence network counts Filter: Search...

Show columns | Copy | CSV | Show 50 entries

Showing 1 to 29 of 29 entries

<input type="checkbox"/>	Id	Code	Name	Class	RC	DRC	PC	DPC	Domain	Vocabulary
<input type="checkbox"/>	45547694	F20.0	Paranoid schizophrenia	ICD10 code	301,200	301,200	0	0	Condition	ICD10
<input checked="" type="checkbox"/>	45542835	F20	Schizophrenia	ICD10 Hierarchy	13,980	13,980	0	0	Condition	ICD10
<input type="checkbox"/>	45591128	F20.1	Hebephrenic schizophrenia	ICD10 code	12,030	12,030	0	0	Condition	ICD10
<input type="checkbox"/>	45581445	F20.2	Catatonic schizophrenia	ICD10 code	6,090	6,090	0	0	Condition	ICD10
<input type="checkbox"/>	45595896	F20.3	Undifferentiated schizophrenia	ICD10 code	18,500	18,500	0	0	Condition	ICD10
<input type="checkbox"/>	45581447	F20.5	Residual schizophrenia	ICD10 code	95,840	95,840	0	0	Condition	ICD10
<input type="checkbox"/>	45533093	F20.6	Simple schizophrenia	ICD10 code	4,280	4,280	0	0	Condition	ICD10
<input type="checkbox"/>	45552471	F20.8	Other schizophrenia	ICD10 code	355,650	355,650	0	0	Condition	ICD10
<input type="checkbox"/>	45576533	F20.9	Schizophrenia, unspecified	ICD10 code	5,296,130	5,296,130	0	0	Condition	ICD10
<input type="checkbox"/>	45581451	F22.0	Delusional disorder	ICD10 code	196,010	196,010	0	0	Condition	ICD10
<input type="checkbox"/>	45581450	F22	Persistent delusional disorders	ICD10 Hierarchy	3,120	3,120	0	0	Condition	ICD10
<input type="checkbox"/>	45533094	F22.8	Other persistent delusional disorders	ICD10 code	6,440	6,440	0	0	Condition	ICD10
<input type="checkbox"/>	45542837	F22.9	Persistent delusional disorder, unspecified	ICD10 code	163,640	163,640	0	0	Condition	ICD10
<input type="checkbox"/>	45571750	F23	Acute and transient psychotic disorders	ICD10 Hierarchy	760	760	0	0	Condition	ICD10
<input type="checkbox"/>	45547697	F23.0	Acute polymorphic psychotic disorder without symptoms of schizophrenia	ICD10 code	9,390	9,390	0	0	Condition	ICD10
<input type="checkbox"/>	45552473	F23.1	Acute polymorphic psychotic disorder with symptoms of schizophrenia	ICD10 code	5,300	5,300	0	0	Condition	ICD10
<input type="checkbox"/>	45586233	F23.2	Acute schizophrenia-like psychotic disorder	ICD10 code	54,490	54,490	0	0	Condition	ICD10
<input type="checkbox"/>	45586234	F23.3	Other acute predominantly delusional psychotic disorders	ICD10 code	24,930	24,930	0	0	Condition	ICD10
<input type="checkbox"/>	45552475	F23.4	Other acute and transient psychotic disorders	ICD10 code	2,060	2,060	0	0	Condition	ICD10

Previous 1 Next

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# Adding other codes from the clinical description

ATLAS English

Home Search

F30.2

Advanced Options

View record count for: Evidence network counts

Filter: Search...

Show columns Copy CSV Show 50 entries

Showing 1 to 1 of 1 entries

Id	Code	Name	Class	RC	DRC	PC	DPC	Domain	Vocabulary	
<input checked="" type="checkbox"/>	45557199	F30.2	Mania with psychotic symptoms	ICD10 code	4,120	4,120	0	0	Condition	ICD10

Showing 1 to 1 of 1 entries

- Vocabulary
  - ICD10CM (1)
  - KCD7 (1)
  - OPCS4 (1)
  - ICD10 (1)
- Class
  - ICD10 code (4)
  - KCD7 code (1)
  - Procedure (1)
  - 4-char billing code (1)
- Domain
  - Condition (6)
  - Procedure (1)
- Standard Concept

ATLAS English

Home Search

Vocabulary > Concept

Mania with psychotic symptoms

Details Related Concepts Hierarchy Record Counts Drilldown Report

Show columns Copy CSV Show 25 entries

Filter: Search...

Showing 1 to 1 of 1 entries

Id	Code	Name	Class	RC	DRC	Distance	Domain	Vocabulary	
<input checked="" type="checkbox"/>	35610112	1089681000000108	Mania with psychotic features	Disorder	170,200	170,200	1	Condition	SNOMED

Showing 1 to 1 of 1 entries

- Standard Concept
  - Standard (1)
  - Non-Standard (1)
- Invalid Reason
  - Valid (2)
- Class
  - ICD10 Hierarchy (1)
  - Disorder (1)
- Domain
  - Condition (2)
- Relationship
  - Non-standard to Standard map (OMOP) (1)
  - Is a (1)
- Has Records
  - true (2)
- Has Descendant Records
  - true (2)
- Distance
  - 1 (2)

Apache 2.0  
open source software  
provided by

Select Concept Set [New Concept Set \(Repository\)](#)  Exclude  Descendants  Mapped [Preview...](#) [Add To Concept Set](#)

Classification Non-Standard Standard



# Codes may come from different hierarchy branches

ATLAS English

Home Data Sources Search Concept Sets Cohort Definitions Characterizations Cohort Pathways Incidence Rates Profiles Estimation Prediction Reusables Jobs Configuration Feedback

Vocabulary > Concept  
Mania with psychotic features

Details Related Concepts **Hierarchy** Record Counts Drilldown Report

VIEW: Full Hierarchy Parents Current Concept Children

### ↑ Parents

Show columns Copy CSV Show 25 entries Filter: Search... Previous 1 Next

Showing 1 to 1 of 1 entries

	Id	Code	Name	Class	RC	DRC	Distance	Domain	Vocabulary	
▼ Vocabulary										
SNOMED (1)	<input checked="" type="checkbox"/>	4333677	231494001	Mania	Disorder	358,770	2,128,520	1	Condition	SNOMED

▼ Class

Disorder (1)

▼ Has Records

true (1)

▼ Has Descendant Records

true (1)

Select Concept Set New Concept Set (Repository)  Exclude  Descendants  Mapped Preview... Add To Concept Set

### → Current Concept

Showing 1 to 1 of 1 entries

	Id	Code	Name	Class	RC	DRC	Distance	Domain	Vocabulary
<input checked="" type="checkbox"/>	35610112	1089681000000108	Mania with psychotic features	Disorder	170,200	170,200		Condition	SNOMED

Select Concept Set New Concept Set (Repository)  Exclude  Descendants  Mapped Preview... Add To Concept Set

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# Cohort Definition creation

Inflammatory bowel disease

---

Kevin Haynes

---



# Inflammatory Bowel Disease: option 1

$\geq 1$  occurrence of an IBD code

**Entry event:** Condition occurrence of IBD for the first time in the person's history

**Inclusion rules:** -

**Exit criteria:** End of observation period

Cohort #1791969  
created by anonymous on 2025-02-10 15:44

[Phenotype February 2025] IBD option 1

Definition | Concept Sets | Generation | Samples | Reporting | Export | Versions | Messages 2

Enter a cohort definition description here

**Cohort Entry Events**

Events having any of the following criteria:

a condition occurrence of **Inflammatory bowel disease**

with continuous observation of at least 0 days before and 0 days after event index date

Limit initial events to: earliest event per person.

Restrict initial events

**Inclusion Criteria**

New inclusion criteria

Limit qualifying events to: earliest event per person.

**Cohort Exit**

**Event Persistence:**  
Event will persist until: end of continuous observation



# Inflammatory Bowel Disease: option 2

## Development and Validation of Claims-Based Definitions to Identify Incident and Prevalent Inflammatory Bowel Disease in Administrative Healthcare Databases

**Table 1.** PPV of the incident claim-based algorithms to identify the date of incidence diagnosis of IBD within 90 days of that recorded in the medical records using HIRD data.

Algorithm	Number of charts reviewed	Correctly identified incidence date	PPV (%)	95% CI (%)
High probability	57	52	91	81-97
Low probability	26	22	85	65-96
High probability with longer lag time between lower endoscopy or surgery and first IBD diagnosis	26	19	73	52-88

Abbreviations: CI, confidence interval; HIRD, HealthCore Integrated Research Database; IBD, inflammatory bowel disease; PPV, positive predictive value.

<https://pmc.ncbi.nlm.nih.gov/articles/PMC10697409/>



# Inflammatory Bowel Disease: option 2

**Entry event:** Condition occurrence of IBD for the first time in the person's history

**Inclusion rules:**

1. 1460d prior observation
2. 1st IBD dx from specialist [0, 0d]
3. 2nd IBD dx from specialist [1, 365d]
4. No prior sulfasalazine unless to treat RA
5. No prior methotrexate unless to treat RA, PsO, PsA
6. No prior TNFai unless to treat RA, PsO, PsA, AS, HS, pyoderma gangrenosum
7. No prior usekinumab unless to treat PsO, PsA
8. No prior tofacitinib unless to treat RA, PsA
9. No prior natalizumab unless to treat MS
10. No prior other IBD therapies [-9999, 1d]
11. Prior colonoscopy, sigmoidoscopy, capsule endoscopy, or bowel resection procedures [-42, 0d]

**Exit criteria:** End of observation period



# Cohort entry

 Cohort #1791972

created by anonymous on 2025-02-10 17:21, modified by anonymous on 2025-02-10 17:24

[Phenotype Phebruary 2025] IBD option 2



Definition

Concept Sets

Generation

Samples

Reporting

Export

Versions

Messages 35

Enter a cohort definition description here

## Cohort Entry Events


Events having any of the following criteria:

[+ Add Initial Event...](#)

a condition occurrence of Inflammatory bowel disease

[+ Add attribute...](#)

[Delete Criteria](#)

 for the first time in the person's history

with continuous observation of at least 0 days before and 0 days after event index date

Limit initial events to: earliest event per person.

[Restrict initial events](#)



# Inclusion/exclusion criteria

## Inclusion Criteria



New inclusion criteria

1460d prior observation

Copy

Delete

### 1. 1460d prior observation

*a minimum of 4 years of follow-up before the first diagnosis of an IBD in the claims ...*

a minimum of 4 years of follow-up before the first diagnosis of an IBD in the claims data by any provider

having  of the following criteria:

+ Add criteria to group...

### 2. 1st IBD dx from specialist [0, 0]

### 3. 2nd IBD dx [1, 365d]

*2nd IBD dx within 365d from specialist*

### 4. No prior sulfasalazine unless to treat RA

### 5. No prior methotrexate unless to treat RA, PsO, PsA

### 6. No prior TNFai unless to treat RA, PsO, PsA, AS, HS, pyoderma gangrenosum

### 7. No prior usekinumab unless to treat PsO, PsA

### 8. No prior tofacitinib unless to treat RA, PsA

### 9. No prior natalizumab unless to treat MS

### 10. no other IBD therapies [-9999, 1]

*no prior IBD therapies except for another indication (e.g., RA treated with TNFai)*

### 11. colonoscopy, sigmoidoscopy, or bowel resection in [-42, 0d]

*prior colonoscopy, sigmoidoscopy, capsule endoscopy, or bowel resection [-42, 0d]*

with   using all occurrences of:

observation periods with the following criteria:

+ Add attribute...

where  between

days  and  days

and  between  days  and  days

*The index date refers to the event from the Cohort Entry criteria.*

allow events from outside observation period

Delete Criteria





# Inclusion/exclusion criteria

1st IBD dx from specialist [0, 0]

Copy

Delete

enter an inclusion rule description

having  of the following criteria:

+ Add criteria to group... ▾

with   using all occurrences of:

a condition occurrence of

+ Add attribute... ▾

✗ with a Provider Specialty of:

Add

Import

where  between

days  and  days   [add additional constraint](#)

*The index date refers to the event from the Cohort Entry criteria.*

restrict to the same visit occurrence

allow events from outside observation period

Delete Criteria



# Inclusion/exclusion criteria

## New inclusion criteria

- 1460d prior observation  
*a minimum of 4 years of follow-up before the first diagnosis of an IBD in the claims ...*
- 1st IBD dx from specialist [0, 0]
- 2nd IBD dx [1, 365d]**  
*2nd IBD dx within 365d from specialist*
- No prior sulfasalazine unless to treat RA
- No prior methotrexate unless to treat RA, PsO, PsA
- No prior TNFai unless to treat RA, PsO, PsA, AS, HS, pyoderma gangrenosum
- No prior usekinumab unless to treat PsO, PsA
- No prior tofacitinib unless to treat

2nd IBD dx [1, 365d]

Copy Delete

2nd IBD dx within 365d from specialist

having  of the following criteria:

+ Add criteria to group... ▾

with   using all occurrences of:

a condition occurrence of

+ Add attribute... ▾

✗ with a Provider Specialty of:

Add Import

where  between

days  and  days   [add additional constraint](#)

*The index date refers to the event from the Cohort Entry criteria.*

restrict to the same visit occurrence

allow events from outside observation period

Delete Criteria



# Inclusion/exclusion criteria

## New inclusion criteria

- 1. 1460d prior observation  
*a minimum of 4 years of follow-up before the first diagnosis of an IBD in the claims ...*
- 2. 1st IBD dx from specialist [0, 0]
- 3. 2nd IBD dx [1, 365d]  
*2nd IBD dx within 365d from specialist*
- 4. No prior sulfasalazine unless to treat RA
- 5. No prior methotrexate unless to treat RA, PsO, PsA
- 6. No prior TNFai unless to treat RA, PsO, PsA, AS, HS, pyoderma

No prior sulfasalazine unless to treat RA Copy Delete

enter an inclusion rule description

having  of the following criteria: + Add criteria to group... ▾

with   using all occurrences of:

a drug exposure of  + Add attribute... ▾

where  between

days  and  days   [add additional constraint](#)

*The index date refers to the event from the Cohort Entry criteria.*

Delete Criteria

## New inclusion criteria

- 1. 1460d prior observation  
*a minimum of 4 years of follow-up before the first diagnosis of an IBD in the claims ...*
- 2. 1st IBD dx from specialist [0, 0]
- 3. 2nd IBD dx [1, 365d]  
*2nd IBD dx within 365d from specialist*
- 4. No prior sulfasalazine unless to treat RA
- 5. No prior methotrexate unless to treat RA, PsO, PsA
- 6. No prior TNFai unless to treat RA,

No prior methotrexate unless to treat RA, PsO, PsA Copy Delete

enter an inclusion rule description

having  of the following criteria: + Add criteria to group... ▾

with   using all occurrences of:

a drug exposure of  + Add attribute... ▾

where  between

days  and  days   [add additional constraint](#)

*The index date refers to the event from the Cohort Entry criteria.*

Delete Criteria

- 6. No prior TNFai unless to treat RA, PsO, PsA, AS, HS, pyoderma gangrenosum
- 7. No prior usekinumab unless to treat PsO, PsA
- 8. No prior tofacitinib unless to treat RA, PsA
- 9. No prior natalizumab unless to treat MS



# Inclusion/exclusion criteria

## New inclusion criteria

- 1460d prior observation  
*a minimum of 4 years of follow-up before the first diagnosis of an IBD in the claims ...*
- 1st IBD dx from specialist [0, 0]
- 2nd IBD dx [1, 365d]  
*2nd IBD dx within 365d from specialist*
- No prior sulfasalazine unless to treat RA
- No prior methotrexate unless to treat RA, PsO, PsA
- No prior TNFai unless to treat RA, PsO, PsA, AS, HS, pyoderma gangrenosum
- No prior usekinumab unless to treat PsO, PsA
- No prior tofacitinib unless to treat RA, PsA
- No prior natalizumab unless to treat MS
- no other IBD therapies [-9999, 1]  
*no prior IBD therapies except for another indication (e.g., RA treated with TNFai)*
- colonoscopy, sigmoidoscopy, or bowel resection in [-42, 0d]**  
*prior colonoscopy, sigmoidoscopy, capsule endoscopy, or bowel resection [-42, 0d]*

colonoscopy, sigmoidoscopy, or bowel resection in [-42, 0d] Copy Delete

prior colonoscopy, sigmoidoscopy, capsule endoscopy, or bowel resection [-42, 0d]

having  of the following criteria: + Add criteria to group...

with   using all occurrences of:

a procedure occurrence of  + Add attribute...

where  between

days  and  days   [add additional constraint](#)

*The index date refers to the event from the Cohort Entry criteria.*

restrict to the same visit occurrence

allow events from outside observation period

Delete Criteria

or with   using all occurrences of:

an observation of  + Add attribute...

where  between

days  and  days   [add additional constraint](#)

*The index date refers to the event from the Cohort Entry criteria.*

restrict to the same visit occurrence

allow events from outside observation period

Delete Criteria

or with   using all occurrences of:

a procedure occurrence of  + Add attribute...

where  between

days  and  days   [add additional constraint](#)

*The index date refers to the event from the Cohort Entry criteria.*

Delete Criteria



# Cohort exit

Cohort Exit



## Event Persistence:

Event will persist until:

## Censoring Events:

Exit Cohort based on the following criteria:

No censoring events selected.

[+ Add Censoring Event... ▾](#)



# Next steps

## Study leads

1. Together with the interested participant (tagged in channels and in emails) create the first draft of the cohorts. By Friday Feb 14<sup>th</sup> EOB use the spreadsheet to indicate which cohorts are ready for us to run Cohort Diagnostics on.
2. Come to the office hours on Wednesday 10am EST

Friday 9am EST

Documents > General > **Phenotype Phebruary 2025**

Name	Modified
presentations	Yesterday at 8:38 AM
Week 1	Yesterday at 9:25 AM
kick off post.docx	4 days ago
<b>OHDSI 2025 Guideline-driven evidence phenotype needs 28jan2025.xlsx</b>	3 hours ago
tasks.xlsx	Sunday at 4:17 AM

	A	B	F	G	H	I	J	
1	Study	Lead	f	Clinical	Cohort definition	CohortDiag	Iteration	Cohort id in Atlas



# Next steps

Anybody who wants to participate

1. If you have not already, reach out to the study leads or us to participate in cohort building.
2. Come to the office hours on **Wednesday 10am EST**  
**Friday 9am EST**

The screenshot shows a Microsoft Teams chat window for a workgroup named "Phenotype Develop...". The left sidebar lists channels under "Main Channels" (General, Covid Phenotype, Long Covid) and "Hidden channels". The main chat area shows two messages from Lana Shubinsky, each containing a "Phenotype Phebruary 2025 Office Hours" event card. The first card is for Wednesday 10:00 AM, and the second is for Friday 9:00 AM. Both cards include a "Join" button and a description: "Join to plan next steps, coordinate resources and share progress." Each message also has a "Reply" button below it.