



2025 Phenotype Phebruary Week 3





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

Phenotype Phebruary 2025 Calendar

Sunday Monday Tuesday Wednesday Thursday Friday Saturday

Week

- Week 1 – Clinical Description:**

A session is planned to discuss clinical descriptions. Participants will use an AI prompt (developed by @Gowtham_Rao) that extracts phenotype definitions (for example, checking for pre-existing management).

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

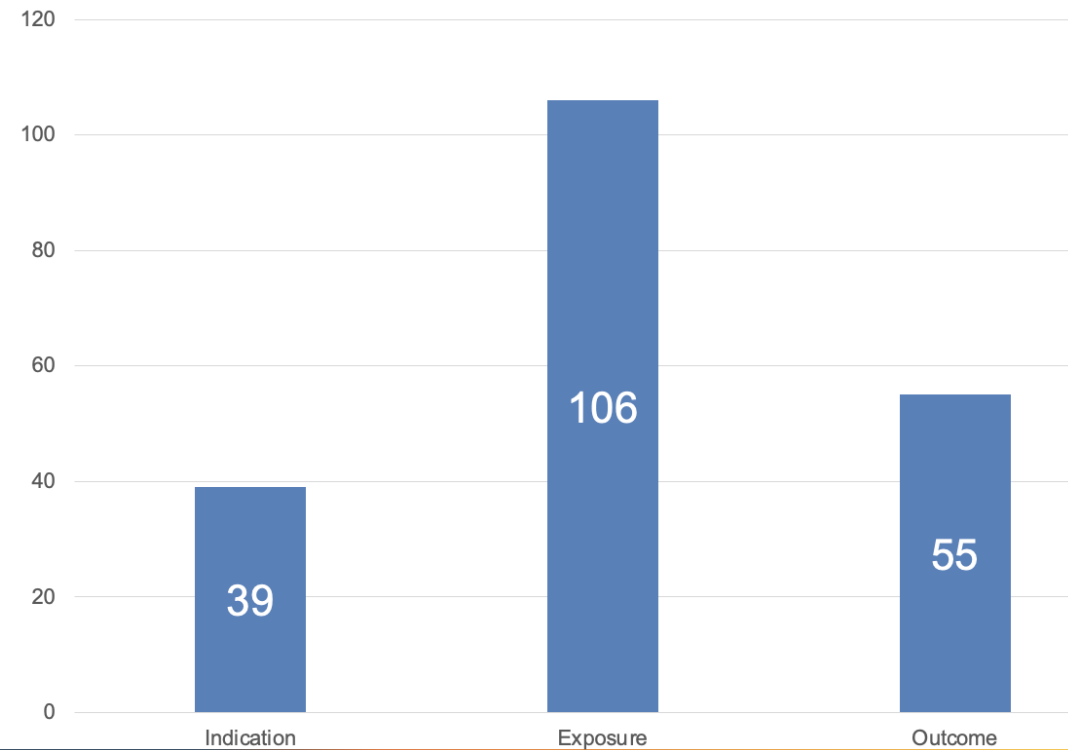
The second week focuses on creating the concept sets of the phenotype. Here, many participants already familiar with building concept sets are expected to contribute. The study lead

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

The final two weeks are dedicated to evaluating the development of cohort diagnostics. Iterations and refinements will be made. There is also mention of showcasing additional tools and resources during these weeks.

- Clinical descriptions for **10** studies
- **201** phenotype to create
- **63** available in phenotype library or in other sources

Week 1 results



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

Community call
update & evaluation
demos

Office
hours

Study team's wrap up
cohorts and document
evaluation

Office
hours

All cohorts are
done!

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Week 2: creating first cohort definitions

2 office hours

7+ individual consultations

Thank you to Azza Shoaibi, Patrick Ryan, Gowtham Rao and Lana Shubinsky and the teams!



Week 2 lessons: concept sets (1)

OMOPUveitis HSV Anterior Uveitis-SUN_VersionWAE 🔒 ↶ ✕

Definition **Concept Sets** Versions Messages 15

[New Concept Set](#) [Import](#) [Export All Concept Sets To CSV](#)

Show 10 entries

Filter:

Id	Title
13	OMOPUveitis Other anterior segment inflammation [conditions]
7	OMOPUveitis Retinitis exclusion [conditions]
3	OMOPUveitis Sarcoidosis exclusion [conditions, observations]
18	OMOPUveitis Syphilis exclusion [conditions, measurements]
20	OMOPUveitis VZV AC PCR positive [measurements, specimen]

Showing 11 to 15 of 15 entries

Previous 1 **2** Next

[Concept Set Expression](#) [Included Concepts 6](#) [Included Source Codes](#) [Recommend](#) [Export](#) [Import](#)

Name:

Show 25 entries

Filter:

Showing 1 to 6 of 6 entries

Previous **1** Next

	Concept Id	Concept Code	Concept Name	Domain	Standard Concept Caption	Exclude	Descendants	Mapped
<input checked="" type="checkbox"/>	4281245	66146003	Sarcoid type granuloma	Observation	Standard	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	4322821	71282004	Non-necrotizing granulomatous inflammation	Observation	Standard	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	4081069	238676008	Lofgrens syndrome	Condition	Standard	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	4338094	87500009	Hilar lymphadenopathy	Condition	Standard	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	4163983	45647009	Granuloma	Observation	Standard	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	4130903	264508001	Bilateral hilar adenopathy	Condition	Standard	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>



Week 2 lessons: concept sets (1)

Concept Set Expression

Included Concepts **6**

Included Source Codes

Recommend

Export

Import

View record count for: Evidence network counts

Filter: Search...

Show columns Copy CSV Show 25 entries

Previous 1 Next

Showing 1 to 17 of 17 entries

- Vocabulary**
 - SNOMED (9)
 - Nebraska Lexicon (7)
 - OXMIS (1)
- Invalid Reason**
 - Valid (13)
 - Invalid (4)
- Class**
 - Morph Abnormality (8)
 - Clinical Finding (4)
 - Disorder (4)
 - OXMIS (1)
- Domain**

<input checked="" type="checkbox"/>	Id	Code	Name	Class	RC	DRC	PC	DPC	Domain	Vocabulary
<input checked="" type="checkbox"/>	4163983	45647009	Granuloma	Morph Abnormality	8,380	11,150	1,710	2,190	Observation	SNOMED
<input checked="" type="checkbox"/>	4338094	87500009	Hilar lymphadenopathy	Disorder	4,830	6,280	2,550	3,320	Condition	SNOMED
<input checked="" type="checkbox"/>	4130903	264508001	Bilateral hilar adenopathy	Disorder	1,270	1,410	680	730	Condition	SNOMED
<input checked="" type="checkbox"/>	4081069	238676008	Lofgrens syndrome	Disorder	110	110	30	30	Condition	SNOMED
<input checked="" type="checkbox"/>	45531137	6861A	GRANULOMA	OXMIS	0	0	0	0	Observation	OXMIS
<input checked="" type="checkbox"/>	4322821	71282004	Non-necrotizing granulomatous inflammation	Morph Abnormality	0	0	0	0	Observation	SNOMED
<input checked="" type="checkbox"/>	4281245	66146003	Sarcoid type granuloma	Morph Abnormality	0	0	0	0	Observation	SNOMED

Week 2 lessons: concept sets (1)



Concept Set Expression Included Concepts **6** **Included Source Codes** Recommend Export Import

View record count for: Evidence network counts

Show columns▼ Copy CSV Show 25 entries

Filter: Search...

Showing 1 to 17 of 17 entries

Previous 1 Next

- ▼ Vocabulary
 - SNOMED (9)
 - Nebraska Lexicon (7)
 - OXMIS (1)
- ▼ Invalid Reason
 - Valid (13)
 - Invalid (4)

<input checked="" type="checkbox"/>	Id	Code	Name	Class	RC	DRC	PC	DPC	Domain	Vocabulary
<input checked="" type="checkbox"/>	4163983	45647009	Granuloma	Morph Abnormality	8,380	11,150	1,710	2,190	Observation	SNOMED
<input checked="" type="checkbox"/>	4338094	87500009	Hilar lymphadenopathy	Disorder	4,830	6,280	2,550	3,320	Condition	SNOMED
<input checked="" type="checkbox"/>	4130903	264508001	Bilateral hilar adenopathy	Disorder	1,270	1,410	680	730	Condition	SNOMED
<input checked="" type="checkbox"/>	4081069	238676008	Lofgrens syndrome	Disorder	110	110	30	30	Condition	SNOMED

Concept Set Expression Included Concepts **6** Included Source Codes **Recommend** Export Import

View record count for: Evidence network counts

Show columns▼ Copy CSV Show 25 entries

Filter: Search...

Showing 1 to 9 of 9 entries

Previous 1 Next

- ▼ Vocabulary
 - SNOMED (40)
- ▼ Invalid Reason
 - Valid (40)
- ▼ Class
 - Morph Abnormality (20)
 - Disorder (18)
 - Clinical Finding (2)
- ▼ Domain
 - Observation (20)
 - Condition (20)
- ▼ Relationship
 - Ontology-descendant (20)
 - Ontology-parent (12)

<input checked="" type="checkbox"/>	Id	Code	Name	Class	RC	DRC	PC	DPC	Domain	Vocabulary	Count
<input checked="" type="checkbox"/>	315085	30746006	Lymphadenopathy	Disorder	17,342,460	45,546,610	10,224,510	24,710,510	Condition	SNOMED	1
<input checked="" type="checkbox"/>	438688	31541009	Sarcoidosis	Disorder	7,598,460	9,935,030	716,180	1,134,590	Condition	SNOMED	1
<input checked="" type="checkbox"/>	140176	32861005	Erythema nodosum	Disorder	494,030	498,810	214,860	217,440	Condition	SNOMED	1
<input checked="" type="checkbox"/>	4274184	64757003	Lymph node sarcoidosis	Disorder	58,730	58,790	17,810	17,840	Condition	SNOMED	1
<input checked="" type="checkbox"/>	4133466	127101005	Pulmonary lymphadenopathy	Disorder	270	270	110	110	Condition	SNOMED	1
<input checked="" type="checkbox"/>	4124546	233767005	Stage 1 pulmonary sarcoidosis	Disorder	90	90	40	40	Condition	SNOMED	1
<input checked="" type="checkbox"/>	4124671	233768000	Stage 2 pulmonary sarcoidosis	Disorder	60	60	20	20	Condition	SNOMED	1
<input checked="" type="checkbox"/>	4119929	233744008	Hilar lymph node sarcoidosis	Disorder	10	10	10	10	Condition	SNOMED	2
<input checked="" type="checkbox"/>	4133582	127141001	Renal hilar lymphadenopathy	Disorder	0	0	0	0	Condition	SNOMED	1



Week 2 lessons: concept sets (1)

OMOPUveitis Sarcoidosis exclusion [conditions, observations]

Show entries

Filter:

Showing 1 to 21 of 21 entries

Previous Next

	Concept Id	Concept Code	Concept Name	Domain	Standard Concept Caption	Exclude	Descendants	Mapped
<input type="checkbox"/>	4131138	127097001	Thoracic lymphadenopathy	Condition	Standard	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	4033215	238675007	Sarcoidosis-induced erythema nodosum	Condition	Standard	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	438688	31541009	Sarcoidosis	Condition	Standard	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	4190954	415359008	Sarcoid uveitis	Condition	Standard	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	4191606	39041004	Restrictive cardiomyopathy secondary to sarcoidosis	Condition	Standard	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	46269691	101401000119103	Pulmonary granuloma	Condition	Standard	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	4133462	127094008	Pretracheal lymphadenopathy	Condition	Standard	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	4030501	23794001	Paratracheal lymphadenopathy	Condition	Standard	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	4322821	71282004	Non-necrotizing granulomatous inflammation	Observation	Standard	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	4221669	402374008	Nail dystrophy due to sarcoidosis	Condition	Standard	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	4002813	203042003	Myositis in sarcoidosis	Condition	Standard	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	4105005	193101001	Multiple cranial nerve palsies in sarcoidosis	Condition	Standard	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	4218291	72211003	Laryngeal granuloma	Condition	Standard	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	4303055	78574007	Hypothyroidism due to sarcoidosis	Condition	Standard	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	4323853	7085002	Hypercalcemia due to sarcoidosis	Condition	Standard	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	37017895	714253009	Hepatic granuloma	Condition	Standard	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	4141212	426121003	Granulomatous lymphadenitis	Condition	Standard	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	4033802	238673000	Granulomatous disorder of the skin and subcutaneous tissue	Condition	Standard	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	606444	1145001009	Gastritis due to sarcoidosis	Condition	Standard	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	606409	1144951005	Esophagitis due to sarcoidosis	Condition	Standard	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	4247261	6022005	Dilated cardiomyopathy due to sarcoidosis	Condition	Standard	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>



Week 2 lessons: concept sets (1)

Concept Set Expression

Included Concepts **207**

Included Source Codes

Recommend

Export

Import

View record count for: Evidence network counts

Show columns Copy CSV Show 25 entries

Filter: Search...

Showing 1 to 25 of 59 entries

Previous 1 2 3 Next

- Vocabulary read (07)
- ICD10CM (30)
- ICD9CM (29)
- KCD7 (24)
- ICD10 (24)
- Invalid Reason

<input checked="" type="checkbox"/>	Id	Code	Name	Class	RC	DRC	PC	DPC	Domain	Vocabulary
<input checked="" type="checkbox"/>	44822863	135	Sarcoidosis	3-dig billing code	3,695,440	3,695,440	0	0	Condition	ICD9CM
<input checked="" type="checkbox"/>	35206837	D86.9	Sarcoidosis, unspecified	4-char billing code	3,523,610	3,523,610	0	0	Condition	ICD10CM



Week 2 lessons: concept sets (1)

Definition | Concept Sets | Generation | Samples | Reporting | Export | **Versions** | Messages 32

Show columns▼ | Copy | CSV | Show entries

Filter:

Showing 1 to 44 of 44 entries

Previous Next

- Created
- Within 24 Hours (26)
- Last Week (7)
- 2+ Weeks Ago (6)
- This Week (5)
- Author

Version	Author	Created	Comment	Preview	Copy
Current	anonymous	02/17/2025 9:37:42 PM			
43	anonymous	02/17/2025 9:33:42 PM	Add comment	Preview	Create a copy
42	anonymous	02/17/2025 9:27:58 PM	Add comment	Preview	Create a copy
41	anonymous	02/17/2025 9:24:38 PM	Add comment	Preview	Create a copy



Week 2 lessons: double check the time frames for exclusion criteria

[PP25 Rheumatology_Infection_Malignancy] [DMARD] first methotrexate

Definition Concept Sets Generation Samples Reporting Export Versions Messages 3

Enter a cohort definition description here

Cohort Entry Events

Events having any of the following criteria:

+ Add Initial Event... ▾

a drug exposure of **methotrexate** ▾
✗ for the first time in the person's history

+ Add attribute... ▾ Delete Criteria

with continuous observation of at least **365** ▾ 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

1. Age 18+
2. No prior DMARD exposure



Week 2 lessons: double check the time frames for exclusion criteria

Inclusion Criteria ?

New inclusion criteria

1. Age 18+

2. No prior DMARD exposure

No prior DMARD exposure Copy Delete

enter an inclusion rule description

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

with exactly 0 using all occurrences of:

a drug exposure of methotrexate + Add attribute...

where event starts between

All days Before and 0 days Before index start date [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



Week 2 lessons: look at the counts early

Cohort Entry Events

Events having any of the following criteria:

a drug era of **nivolumab or pembrolizumab**

✗ with era length **Greater or Equal To** **357** days

with continuous observation of at least **90** days before and **365** days after event index date

Limit initial events to: **all events** per person.

Restrict initial events to:

having **all** of the following criteria:

with **at least** **1** using all occurrences of:

a condition occurrence of **malignant melanoma**

✗ having **all** of the following criteria:

with **exactly** **0** using all occurrences of:

a condition occurrence of **Any Condition**

✗ Condition Source Concept is **malignant melanoma in situ**

where **event starts** between

0 days **Before** and **0** days **After** **index start date** [add additional constraint](#)

The index date refers to the condition occurrence of malignant melanoma.

Inclusion Criteria

New inclusion criteria

1. Surgical excision of primary lesion
Include patients with surgical excision of suspected skin lesion to ensure curative ...
2. Exclusion criteria - other anti-melanoma drugs
Ensuring Monotherapy with Nivo/Pembro filtering out patients which receive anothe...
3. No distant metastasis from melanoma occurrence and the end of adjuvant treatment
Exclude patients with distant mts to filter out 4 stage of melanoma or progression ...
4. Exclusion criteria - surgical excision after the initiation the investigational treatment
Exclude patients which had surgical excision of probable melanoma recurren...

Limit qualifying events to: **all events** per person.



Week 2 lessons: look at the counts early

Source Name ▲	Generation Status ▼	People ▼	Records ▼	Generated ▼	Generation Duration ▼	
Evidence network counts	COMPLETE	0	0	02/10/2025 5:38 PM	00:00:11	
Network prevalence counts	COMPLETE	0	0	02/10/2025 5:44 PM	00:00:00	
SYNPUF 1K	COMPLETE	0	0	02/18/2025 12:21 AM	00:00:02	
SYNPUF 5%	COMPLETE	0	0	02/18/2025 12:21 AM	00:00:17	



Week 2 lessons: look at the counts early

Source Name	Generation Status	People	Records	Generated	Generation Duration
IBM CCAE (v3046)	COMPLETE	36	36	02/13/2025 5:29 AM	00:04:34
Optum EHR + Enrich Oncology (v3037)	COMPLETE	54	54	02/13/2025 5:28 AM	00:04:50
Premier (v3040)	COMPLETE	4	4	02/13/2025 5:29 AM	00:05:27

Showing 1 to 3 of 3 entries

Inclusion Report

Inclusion Report for **Optum EHR + Enrich Oncology (v3037)** using 1 event per person

	Match Rate	Matches	Total Events
Summary Statistics:	3.36%	54	1,605

Having of selected criteria

- Inclusion Rule**
- 1. Surgical excision of primary lesion
- 2. Exclusion criteria - other anti-melanoma drugs
- 3. No distant metastasis from melanoma occurrence and the end of adjuvant treatment
- 4. Exclusion criteria - surgical excision after the initiation the investigational treatment

N	% Satisfied	% To-Gain
329	20.50%	6.23%
1,123	69.97%	0.19%
176	10.97%	12.90%
1,578	98.32%	0.12%



Week 2: creating first cohort definitions

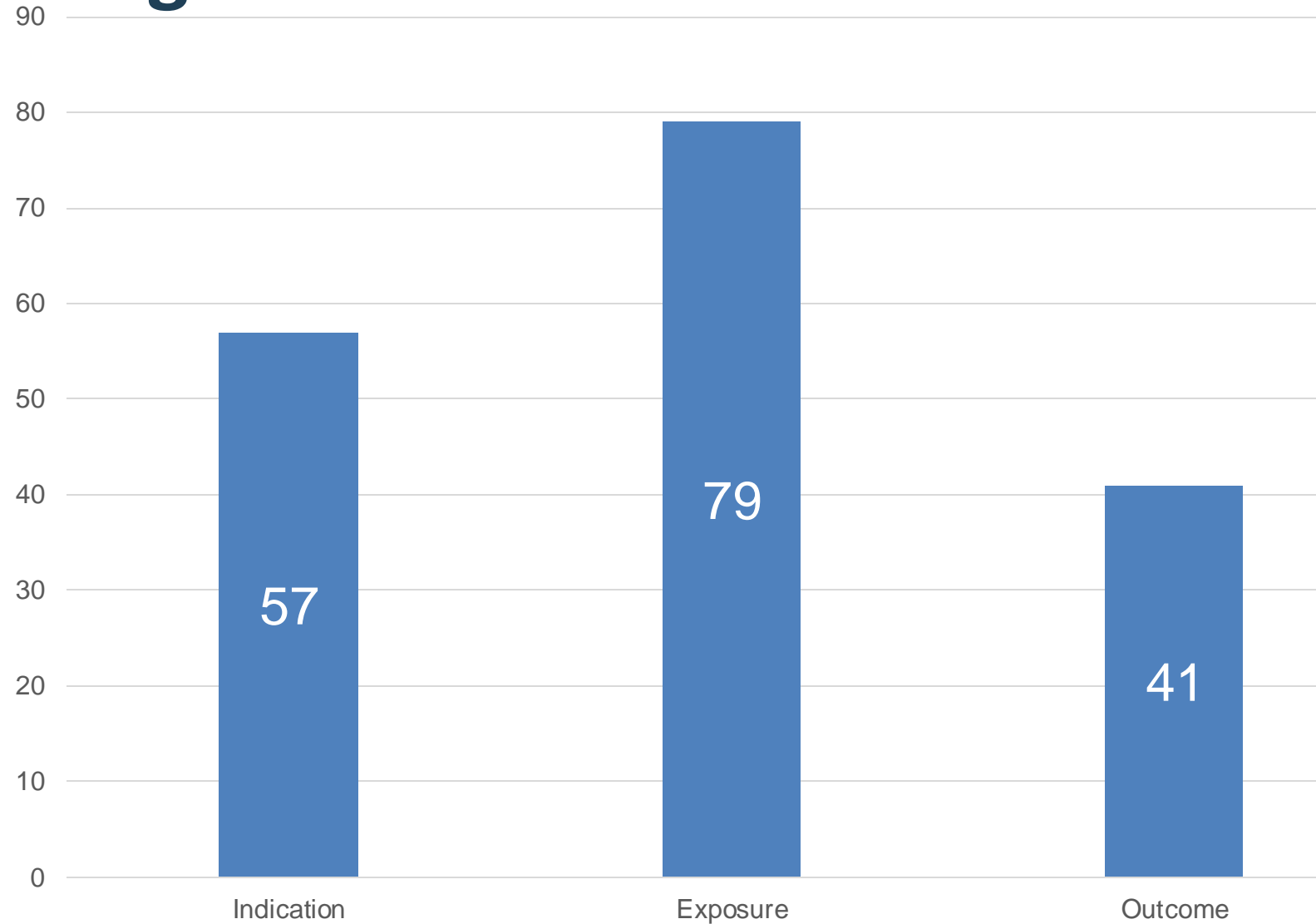
2 office hours

5+ individual consultations

Thank you to Azza Shoaibi, Patrick Ryan, Gowtham Rao and Lana Shubinsky and the teams!



177 cohort definition created!





Week 2: creating first cohort definitions

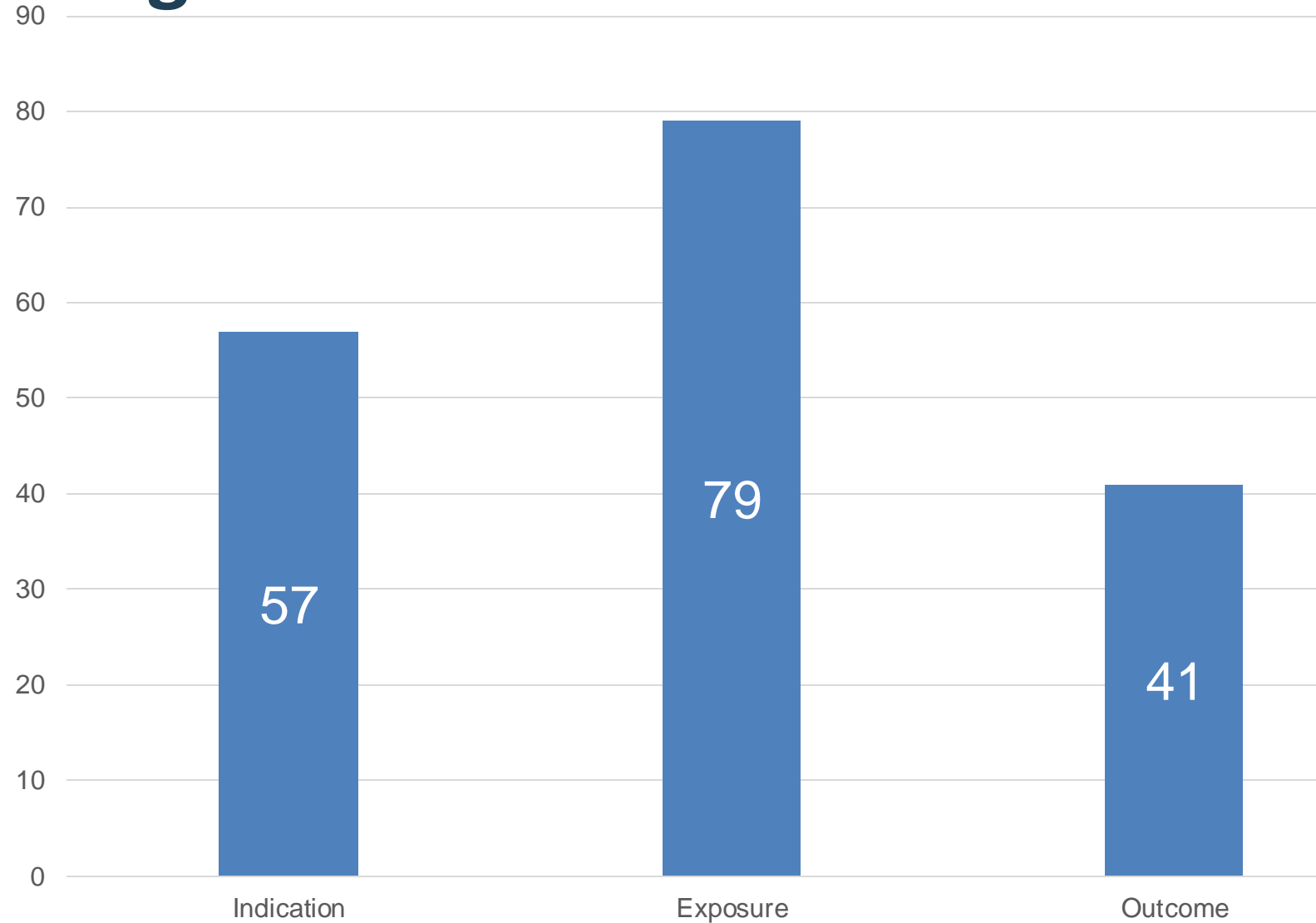
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5+ individual consultations

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177 cohort definition created!

Cohort Diagnostics executed for
91 cohort definition !





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Concept Sets and Logic

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

Office hours

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Review & Iterations

Study team's complete cohort review and iterations

Office hours

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Tools for Evaluation

up ent

Office hours

All cohorts are done!

23

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26

27

28



Using Cohort Diagnostics to assess phenotypes



Selected text from CAP clinical definition

- Community acquired pneumonia suppose to start in outpatient settings, presents with fever, cough, dyspnea
- Are not interested in pneumonia due to other conditions (HF, HIV, CKD) but interested in pneumonia occurring on top of risk factors (smoking, COPD)
- Incidence of community-acquired pneumonia in the general adult population 1.6 - 13.4 cases per 1,000PY



What you can do in Cohort Diagnostics

1. Cohort counts
 2. Incidence rates
 3. Breakdown of index events
 4. Visits associated with index event
 5. Patient characteristics
 6. Compare cohorts
-



Cohort counts

Cohort Counts



C1791901: [PP25 Community acquired pneumonia management] CAP

C1791902: [PP25 Community acquired pneumonia management] CAP-associated hospitalization

Display

Both Persons Records

			optum_ehr		IBM Commercial Claims and Encounters	
	Cohort Id	Cohort Name	Persons	Records	Persons	Records
<input type="radio"/>						
<input checked="" type="radio"/>	1791901	[PP25 Community ac...	2,422,163	2,422,163	2,704,312	2,704,312
<input type="radio"/>	1791902	[PP25 Community ac...	309,931	309,931	551,158	551,158

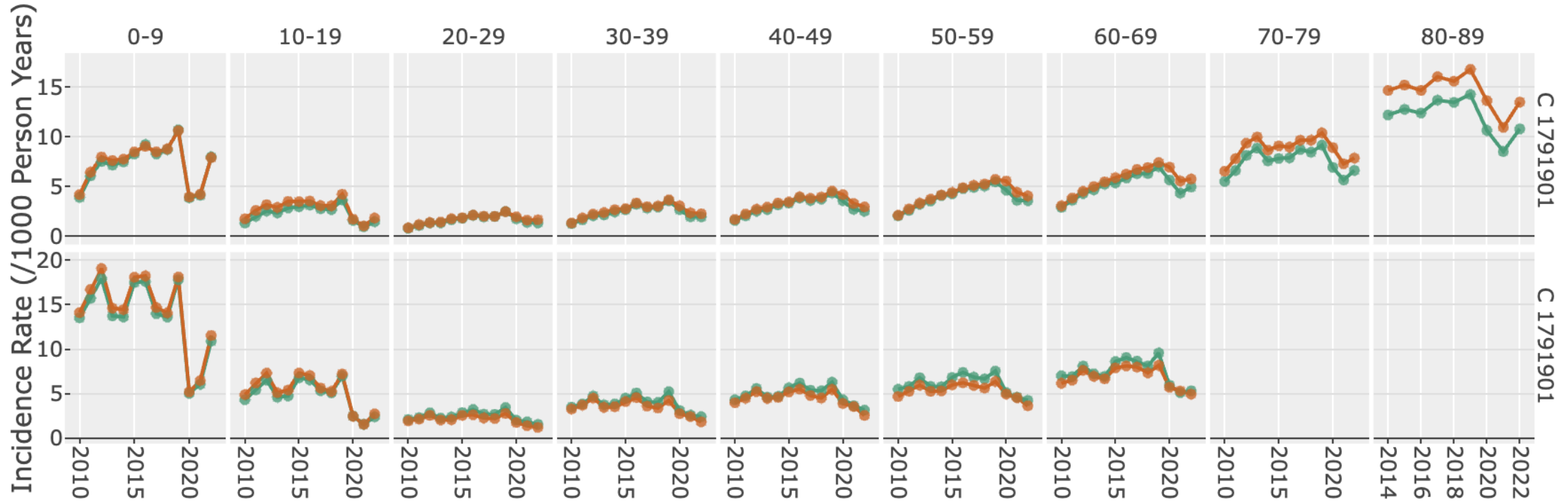
1-2 of 2 rows Show ▾

Previous **1** Next

[Download as CSV](#)



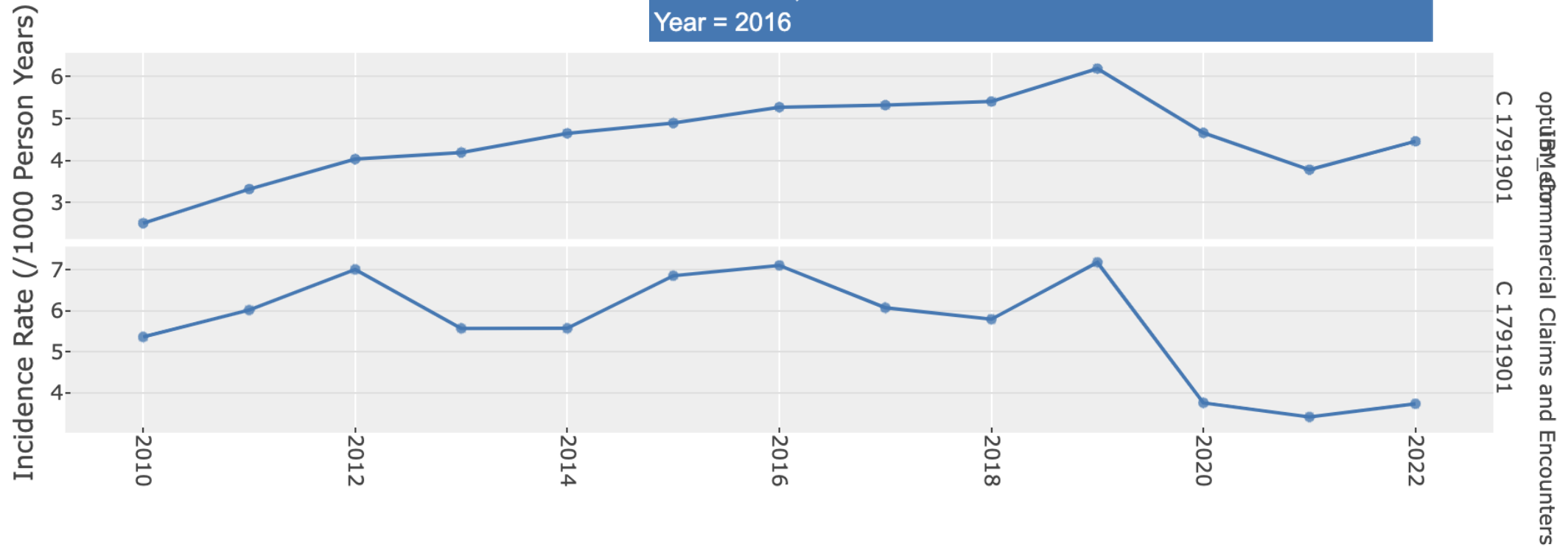
Incidence rates across age and gender





Incidence rates across age groups

(2016, 5.267)
1791901 [PP25 Community acquired pneumonia management] CAP
optum_ehr
Incidence Rate = 5.27/per 1k PY
Incidence Proportion = 10.5%
Person years = 48,503,827.43
Cohort count = 2,422,163
Count = 255,477
Year = 2016





Index event breakdown

C1791901: [PP25 Community acquired pneumonia management] CAP

Concept type

All Standard concepts Non Standard Concepts

Display

Both Records Persons

Show persons as percentage

Search

Concept Id ↓	Concept Name ↓	Concept Code ↓	Domain Field ↓	Vocabulary Id ↓	optum_ehr (2,422,163) Persons ↓	IBM Commercia Persons ↓
35207956	Pneumonia, unspecified organism	J18.9	condition_source_c...	ICD10CM	54.4%	23.6%
44829009	Pneumonia, organism unspecified	486	condition_source_c...	ICD9CM	45.3%	59.3%
35207953	Lobar pneumonia, unspecified organism	J18.1	condition_source_c...	ICD10CM	10.7%	4.1%
35207948	Unspecified bacterial pneumonia	J15.9	condition_source_c...	ICD10CM	2.6%	1.7%
44821984	Bacterial pneumonia, unspecified	482.9	condition_source_c...	ICD9CM	2.3%	4.8%
44819745	Pneumonia due to other specified organism	483.8	condition_source_c...	ICD9CM	1.9%	0.4%
35207952	Bronchopneumonia, unspecified organism	J18.0	condition_source_c...	ICD10CM	1.5%	1.3%
44821985	Bronchopneumonia, organism unspecified	485	condition_source_c...	ICD9CM	1.0%	3.3%
35207950	Pneumonia due to other specified infectious org...	J16.8	condition_source_c...	ICD10CM	0.7%	0.4%
35207955	Other pneumonia, unspecified organism	J18.8	condition_source_c...	ICD10CM	0.5%	0.6%
44824283	Pneumonia in other infectious diseases classifie...	484.8	condition_source_c...	ICD9CM	0.5%	0.1%
44830112	Influenza with pneumonia	487.0	condition_source_c...	ICD9CM	0.3%	1.5%
35207951	Pneumonia in diseases classified elsewhere	J17	condition_source_c...	ICD10CM	0.2%	0.0%



Visit context

Visit Context



C1791901: [PP25 Community acquired pneumonia management] CAP

Display

All Before During Simultaneous After

Display

Persons Records

Search

	optum_ehr (2,422,163)					
Visit Concept Name ↓	Before ↓	During ↓	Simultaneous ↓	After ↓	Before ↓	
Outpatient Visit	1,422,575		2,422,163	1,805,019	1,528,355	
Emergency Room Visit	207,193		476,026	306,812	130,996	
Inpatient Visit	176,394	5,449	412,828	369,402	42,302	
Emergency Room and Inpatien...	16,090	640	49,436	25,843	16,215	
Non-hospital institution Visit	16,101	362	10,582	41,448	2,559	
Ambulance Visit					1,431	
Telehealth					11,817	
Home Visit	11,516			33,301	55,383	
Laboratory Visit	73,370			94,226	51,456	
Pharmacy visit	153,475			149,098	960,168	

1-10 of 10 rows Show 20

Previous 1 Next

Download as CSV



Patient characteristics

Age group	
age group: 0 - 4	8.6%
age group: 5 - 9	6.5%
age group: 10 - 14	3.5%
age group: 15 - 19	2.5%
age group: 20 - 24	2.0%
age group: 25 - 29	2.4%
age group: 30 - 34	3.2%
age group: 35 - 39	3.8%
age group: 40 - 44	4.2%
age group: 45 - 49	4.9%
age group: 50 - 54	6.1%
age group: 55 - 59	7.5%
age group: 60 - 64	8.0%
age group: 65 - 69	7.7%
age group: 70 - 74	7.8%
age group: 75 - 79	10.4%
age group: 80 - 84	8.7%
age group: 85 - 89	2.3%
Gender	
gender = FEMALE	53.4%
gender = MALE	46.6%



Patient characteristics, dx a month before pneumonia

IBM Commercial Claims and Encounters

Covariate Name	Analysis Name	Temporal Choices	Concept Id	Mean
condition_era: Cough	ConditionEraStart	T (-30d to -1d)	254761	9.4%
condition_era: Acute upper respiratory infection	ConditionEraStart	T (-30d to -1d)	257011	6.9%
condition_era: Acute bronchitis	ConditionEraStart	T (-30d to -1d)	260139	5.5%
condition_era: Fever	ConditionEraStart	T (-30d to -1d)	437663	4.8%
condition_era: Acute pharyngitis	ConditionEraStart	T (-30d to -1d)	25297	4.6%
condition_era: Acute sinusitis	ConditionEraStart	T (-30d to -1d)	260123	2.8%
condition_era: Essential hypertension	ConditionEraStart	T (-30d to -1d)	320128	2.7%
condition_era: Viral disease	ConditionEraStart	T (-30d to -1d)	440029	2.7%
condition_era: Dyspnea	ConditionEraStart	T (-30d to -1d)	312437	2.3%
condition_era: Chest pain	ConditionEraStart	T (-30d to -1d)	77670	2.2%
condition_era: Bronchitis	ConditionEraStart	T (-30d to -1d)	256451	2.0%
condition_era: Asthma	ConditionEraStart	T (-30d to -1d)	317009	1.8%
condition_era: Hyperlipidemia	ConditionEraStart	T (-30d to -1d)	432867	1.6%
condition_era: Upper respiratory tract infection due to Influenza	ConditionEraStart	T (-30d to -1d)	46273463	1.5%



Patient characteristics, dx a month before pneumonia

optum_ehr

Covariate Name	Analysis Name	Temporal Choices	Concept Id	Mean
condition_era: Essential hypertension	ConditionEraStart	T (-30d to -1d)	320128	8.2%
condition_era: Cough	ConditionEraStart	T (-30d to -1d)	254761	7.6%
condition_era: Hyperlipidemia	ConditionEraStart	T (-30d to -1d)	432867	4.9%
condition_era: Dyspnea	ConditionEraStart	T (-30d to -1d)	312437	4.2%
condition_era: Fever	ConditionEraStart	T (-30d to -1d)	437663	3.7%
condition_era: Acute upper respiratory infection	ConditionEraStart	T (-30d to -1d)	257011	3.7%
condition_era: Type 2 diabetes mellitus without complication	ConditionEraStart	T (-30d to -1d)	4193704	3.4%
condition_era: Chronic obstructive lung disease	ConditionEraStart	T (-30d to -1d)	255573	2.8%
condition_era: Acute bronchitis	ConditionEraStart	T (-30d to -1d)	260139	2.5%
condition_era: Chest pain	ConditionEraStart	T (-30d to -1d)	77670	2.5%
condition_era: Anemia	ConditionEraStart	T (-30d to -1d)	439777	2.2%
condition_era: Gastroesophageal reflux disease without esophagitis	ConditionEraStart	T (-30d to -1d)	4144111	2.1%
condition_era: Atrial fibrillation	ConditionEraStart	T (-30d to -1d)	313217	2.0%
condition_era: Acute pharyngitis	ConditionEraStart	T (-30d to -1d)	25297	2.0%
condition_era: Congestive heart failure	ConditionEraStart	T (-30d to -1d)	319835	1.9%



Patient characteristics, labs

Group by Database

Group by Time Windows

Sort By

optum_ehr mean

order

ascending

descending

cult

Download

Covariate Name	Analysis Name	Temporal Choices	Concept Id	optum_ehr
				Mean
measurement: Identification of microorganisms in urine culture	Measurement	T (1d to 365d)	4205241	21.4%
measurement: Aerobic blood culture	Measurement	T (0d to 0d)	4252846	15.1%
measurement: Aerobic blood culture	Measurement	T (1d to 365d)	4252846	12.9%
measurement: Bacterial culture, urine, with colony count	Measurement	T (1d to 365d)	4016363	12.3%
measurement: Culture, bacterial; any other source except urine, blood or stool, aerobic, with isolation and presumptive identification of isolates	Measurement	T (1d to 365d)	2212984	10.8%
measurement: Identification of microorganisms in urine culture	Measurement	T (0d to 0d)	4205241	7.3%
measurement: Microbial culture, aerobic, initial isolation	Measurement	T (1d to 365d)	4170071	6.4%



Compare patient characteristics

Target Cohort : [PP25 Community acquired pneumonia management] CAP C1791901

Comparator Cohort : [PP25 Community acquired pneumonia management] CAP-associated hospitalization

C1791902

Target Database : optum_ehr

Comparator Database : optum_ehr

Plot

Raw Table

Covariate Type

All Proportion Continuous

Display values

Mean Mean and Standard Deviation

Show only covariates found in target and comparator

Temporal Window

Time invariant

Search

Covariate Name ↕	Analysis Name ↕	↕ Concept Id	↕ target	↕ comparator	↕ StdDiff
Charlson index - romano adaptation	CharlsonIndex	0	2.1	4.6	0.62
Chads2vasc	Chads2Vasc	0	2.1	3.6	0.55
Chads2	Chads2	0	1.2	2.4	0.55
Diabetes comorbidity severity index (dcsi)	Dcsi	0	1.6	3.7	0.55
Age in years	DemographicsA...	0	49.3	66.0	0.53



Compare patient characteristics

Target Cohort : [PP25 Community acquired pneumonia management] CAP C1791901

Target Database : optum_ehr

Comparator Cohort : [PP25 Community acquired pneumonia management] CAP-associated hospitalization C1791902

Comparator Database : optum_ehr

Plot

Raw Table

Covariate Type

- All
- Proportion
- Continuous

Display values

- Mean
- Mean and Standard Deviation

- Show only covariates found in target and comparator

Temporal Window

T (1d to 30d) ▾

oxygen

Covariate Name ↑	Analysis Name ↑	↑ Concept Id	↑ target	↑ comparator	↑ StdDiff
Oxygen saturation in blood	Measurement	3013502	0.4	0.8	0.49
Inhaled oxygen concentration	Measurement	3020716	0.0	0.2	0.45
Oxygen [partial pressure] in arterial blood	Measurement	3027801	0.1	0.3	0.42
Oxygen saturation in arterial blood	Measurement	3016502	0.1	0.2	0.37

ventil

Covariate Name ↑	Analysis Name ↑	↑ Concept Id	↑ target	↑ comparator	↑ StdDiff
Respiratory ventilation, greater than 96 consecutive hours	ProcedureOccu...	2788038	0.0	0.0	0.16
Respiratory ventilation, 24-96 consecutive hours	ProcedureOccu...	2788037	0.0	0.0	0.14



Compare patient characteristics

Target Cohort : [PP25 Community acquired pneumonia management] CAP C1791901

Target Database : optum_ehr

Comparator Cohort : [PP25 Community acquired pneumonia management] CAP-associated hospitalization C1791902

Comparator Database : optum_ehr

Plot

Raw Table

Covariate Type

All Proportion Continuous

Display values

Mean Mean and Standard Deviation

Show only covariates found in target and comparator

Temporal Window

T (1d to 30d)

cort

Covariate Name ↕	Analysis Name ↕	↕ Concept Id	↕ target	↕ comparator	↕ StdDiff
Corticosteroids for systemic use, combinations	DrugEraGroupO...	21602745	0.3	0.7	0.48
Corticosteroids for systemic use, combinations	DrugEraGroupO...	21602746	0.3	0.7	0.48



Next steps

Study leads & Anybody who wants to participate

1. Come to the office hours on Wednesday 10am EST to review Cohort Diagnostics
Friday 9am EST

The screenshot shows a Microsoft Teams interface. On the left, a sidebar lists channels under 'All teams'. The selected channel is 'Workgroup - Phenotype Development...'. Below it, a list of channels includes 'General', 'Covid Phenotype', 'Long Covid', 'Mission, Area of focus and priorities', 'Office Hours', and 'OHDSI Phenotype Library'. The main area shows the 'General' channel with a post from Anna Ostropelets on Friday 10:03 AM: '[PP25 NameofStudy] NameofCohort'. Below this, a meeting card for 'Phenotype Phebruary 2025 Office Hours' is visible, which occurs every Wednesday at 10:00 AM. A 'Join' button is present on the meeting card. The text 'Join to plan next steps, coordinate resources and share progress.' is at the bottom of the meeting card area.