



# 2025 OHDSI APAC OKRs

Mui Van Zandt



# 2024 OHDSI APAC Key Results

## Research

Build research expertise and collaboration amongst the different chapters through publication

### Milestones

- Initiated new APAC study in collaboration with Singapore HSA
- Showcased initial study results at the 2024 APAC Symposium

## Training

Create an APAC training program to expand reach to the general community

### Milestones

- Hosted 4 in-person trainings in Japan, Thailand, Taiwan and Singapore
- Initiated and successfully completed first community-wide ETL project

## Communication

Create collaboration activities that encourage collaborative generation and dissemination of evidence that promotes better health decisions and better care

### Milestones

- Hosted 2024 APAC symposium
- Distributed 4 quarterly newsletters
- Hosted 12 community calls and 13 scientific forums



# 2025 OHDSI APAC Goals

## Research

Guideline-driven  
Evidence  
Generation

Evidence-driven  
Data  
standardization

**Build research expertise and collaboration amongst the different chapters through publication**

### Milestones

- Continue and complete 2024 APAC Study (GLP-1 ALI)
- Select and conduct 2-3 new network studies led by APAC
- Strengthen APAC presence in OHDSI Evidence Network

## Training

Evidence-driven  
Data  
standardization

Evidence-driven  
Collaborative  
Education

**Create an APAC training program to expand reach to the general community and provide more opportunities for hands-on learning**

### Milestones

- Formalize an OHDSI/OMOP curriculum in APAC
- Conduct a community-wide project on ETL and/or vocabulary mapping
- Support update and localization of Book of OHDSI

## Communication

Guideline-driven  
Evidence  
Generation

**Create collaboration activities that encourage collaborative generation and dissemination of evidence that promotes better health decisions and better care**

### Milestones

- Host APAC symposium and issue certificates for participation
- Distribute quarterly newsletters
- Host monthly community calls and scientific forums

*See you in China at the 2025 APAC Symposium!*

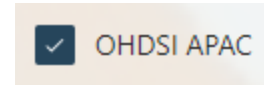
**SAVE THE DATE**

*December 6-7 @ Shanghai Jiao Tong University*

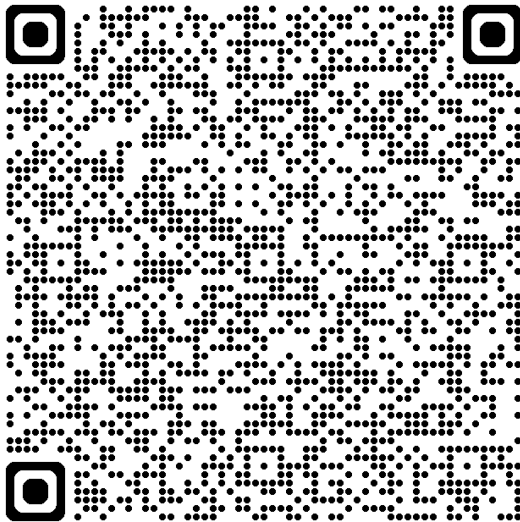


# Join Us

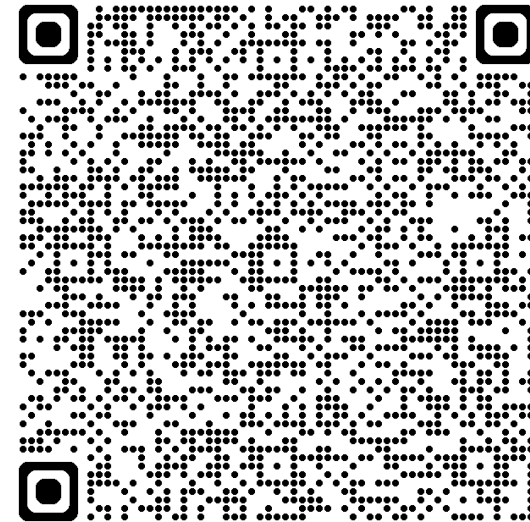
[Sign up](#) for the OHDSI APAC WG!



- APAC Community Calls
  - Every third Thursday, 12 p.m. Korea time
- APAC Scientific Forum
  - Every first Thursday, 12 p.m. Korea time



[Direct link to community calls](#)



[Direct link to scientific forums](#)



# Generative AI and Foundational Models Workgroup

## 2025 OKRs

### Mission

To advance healthcare research and improve patient outcomes through the innovative application of generative AI and foundational models.

### Objectives and key results for 2025

Objective: **Promote awareness and collaboration** in GenAI and FM research ([Martijn](#))

- Maintain a comprehensive directory of ongoing methods research
- Have at least 6 presentations of ongoing methods research (i.e. work that hasn't been published yet)
- Average attendance of meetings  $\geq 20$  researchers
- Share at least 10 prompts with the community (with minimal evaluation criteria)

Objective: **Provide tools for AI agents** (Python) ([Vojtech](#))

- Create inventory of tool needs
- Develop prototype tools
- Evaluate across OHDSI

Objective: **Test distributional robustness of foundational models** ([Jason](#))

- Test publicly available FMs across 3 OHDSI sites



## HADES mission

**Enable** the OHDSI community to **perform observational research** following **OHDSI best practices** for characterization, population-level estimation, and patient-level prediction by providing a **cohesive set of open-source analytic software.**

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# HADES objectives and key results


- Standardizing Analysis Input Specifications with R6
  - Successfully implement and pilot the transition to R6 objects in 3 core HADES packages **Martijn**
- Centralize, standardize, and version results data model for HADES packages to improve consistency and migration support.
  - Consolidate pilot results models into a central Git repository (HadesResultsModel) **Chris, Anthony, Martijn**
  - Pilot the new versioned results model approach with the CohortGenerator, Strategus (database\_metadata table), CohortMethod, and CohortIncidence. **Chris, Anthony, Martijn**
- TreatmentPatterns to HADES
  - Evaluate and include the TreatmentPatterns package into HADES **Maarten, Martijn**





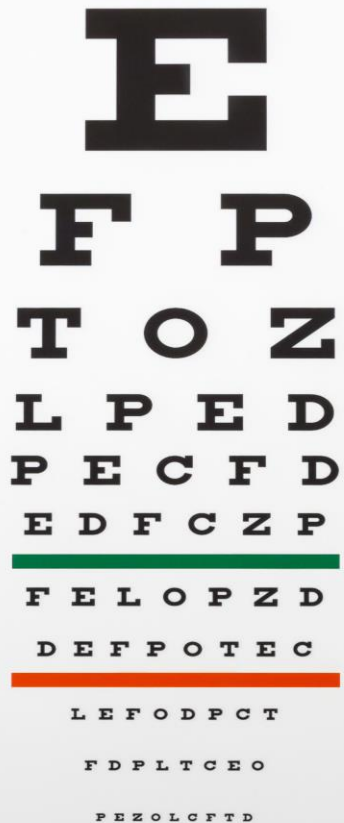
# HADES objectives and key results

- Using DuckDB for storage in Andromeda
  - Complete testing of Andromeda using DuckDB and potentially any adjustments to HADES packages. **Martijn, Bill**
- Strategus
  - Add TreatmentPatterns modules to Strategus **Maarten, Martijn, Anthony**
  - Add unit tests to Strategus template to verify renv.lock and to test a study against synthetic data **Anthony, Jenna**
- HADES Container(s) + execution engine enablement **Nils, Konstantin, Lee, Egill**

The background of the slide features a pair of black-rimmed glasses. The lenses are slightly out of focus, showing a blurred pattern of letters and numbers. The text is overlaid on this background.

# **OHDSI Eye Care and Vision Research Workgroup**

**The purpose of the Eye Care and Vision Research Workgroup is to advance the development and implementation of data standards in ophthalmology, optometry, and the vision sciences, and to support studies using observational ophthalmic data for generating insights to improve health and vision outcomes.**



# Accomplishments from 2024

- Published network study on risk of kidney failure from anti-VEGF intravitreal injections
- Performed network study on risk of NAION for semaglutide users
- Development and validation of uveitis phenotypes using SUN (Standardized of Uveitis Nomenclature) classifications
- Mapped and added eye exam elements at multiple institutions
- Held a workshop on imaging and visual field metadata extraction
- Mapped visual field concepts and submitted to LOINC
- Performed gap analysis for glaucoma concepts in SNOMED
- Multiple submissions for the NEI OHDSI Challenge
- Working on grant submission(s)

# Objective 1: Complete a network study

- Key result 1: Identify potential network studies from preferred practice patterns/guidelines
- Key result 2: Design relevant phenotypes
- Key result 3: Design & execute the study

Focus: Guideline driven evidence generation

# Objective 2: Identify and standardize minimum set of eye exam elements

- Key result 1: Identify set of minimum elements for inclusion in OMOP datamarts, including visual acuity
- Key result 2: Map elements to concepts
- Key result 3: Implement ETLs for concepts

Focus: Evidence driven data standardization

# Objective 3: Disseminate work

- Key result 1: Publish work of workgroup
- Key result 2: Educate community

Evidence driven collaborative education



# Transplant Working Group

Michal Mankowski, PhD  
Research Assistant Professor,  
Department of Surgery, Transplant Institute,  
Center for Surgical and Transplant Applied  
Research



# Transplant Working group

## Enable observational research in solid organ transplant.

- Capturing dual-perspective information—from both the donor and the recipient
- Detailing specialized clinical events (e.g., rejection episodes, graft survival/failure, immunosuppression regimens) and longitudinal outcomes that occur over multiple time points.
- Incorporating specialized vocabularies and coding systems (e.g., UNOS/OPTN, specialized immunologic terms) that go beyond the scope of typical observational data.



# Transplant Working Group

## Goals/Objectives

1. Recruit co-leaders / WG members
2. Identify gaps in OMOP/CDM for Transplant Extension of CDM
3. Defining Transplant-specific phenotypes

**Meetings:** Every other Friday at 10am ET.



# OHDSI Latin America Working Group OKR

February 18th 2025





Evidence-driven  
Data  
Standardization

## 2025 OHDSI Focus Areas Latin America WG OKR



### Objective:

*Strengthen OMOP adoption initiatives in LATAM*



### Key Results:

- 1. Having more than 50 people participating in the first LATAM OHDSI Symposium*
- 2. Have at least 10 institutions engaged in the Latin America WG*
- 3. Have at least 5 LATAM countries represented in the WG*



### Activities:

- ✓ Host OHDSI LATAM event*
- ✓ Strengthen engagement of WG LATAM members*
- ✓ Update and publication of the SIGTAP Vocabulary*
- ✓ Translation of the Atlas into Portuguese and Spanish*

# 2025 OHDSI LATAM SYMPOSIUM

# SAVE THE DATE

*TO BE DEFINED*



# OHDSI

Organização:



**SALVADOR - BAHIA - BRAZIL**



Thank you!



# Databricks User Group: OHDSI Workgroup Objectives and Key Results (OKR)

Workgroup leads: John Gresh & Brad Rechkemmer



# Databricks User Group

Workgroup leads: John Gresh & Brad Rechkemmer

## 1. Objective 1

2Q2023 Key Results:

1. Key Result 1
2. Key Result 2
3. Key Result 3

## 2. Objective 2

2Q2023 Key Results:

1. Key Result 1
2. Key Result 2
3. Key Result 3

Objectives are the 'Whats'. They:

- Express goals and intents
- Are aggressive yet realistic
- Must be tangible, objective, and unambiguous; should be obvious to a rational observer whether an objective as been achieved
- The successful achievement of an objective must provide clear value to the organization

Key results are the 'Hows'. They:

- Express measureable milestones which, if achieved, will advance objective(s) in a useful manner to their constituents
- Must describe **outcomes**, not activities
- Must include evidence of completion. This evidence must be available, credible and easily discoverable.



# Databricks User Group

## Objectives for 2025

1. **Improved integration and testing/validation of HADES packages and other software using Databricks:** In the past, some Databricks users have had issues on startup getting some packages and software to run out of the box (including backend and developer packages). Much of this could be addressed by Strategus and Broadsea.
2. **Update and Extend online documentation for OHDSI Databricks Users:** Databricks UI has changed, Atlas/WebAPI interaction with Databricks has been updated since the last time this documentation was updated.
3. **Automate Creation of Environment and other common tasks such as import/export of CDM, creation of CDM tables, running of Achilles, etc. for OHDSI on Databricks:** This will be done in the Polites project and will parallel the existing Microsoft SQL implementation.
4. **Improve community Engagement:** What can we do to get more of the community to participate and contribute to Databricks in OHDSI? How can this group better serve the needs of the OHDSI community? How can we better engage, collaborate with, and support other existing workgroups?





# Databricks User Group

## Objectives for 2025

- Improved integration and testing/validation of HADES packages and other software using Databricks:
  - Most likely will be implemented using StrategusStudyRepoTemplate
  - Implement automated tests in R using default database
  - Apply same tests to Databricks environment



# Databricks User Group

## Objectives for 2025

- Update and Extend online documentation for OHDSI Databricks Users
  - Review of Databricks documentation
  - Review of Atlas/WebAPI changes
  - Update <https://ohdsi.github.io/DatabaseOnSpark/>



# Databricks User Group

## Objectives for 2025

- Automate Creation of Environment and other common tasks such as import/export of CDM, creation of CDM tables, running of Achilles, etc. for OHDSI on Databricks
  - Will be implemented in Polites
  - In the queue after MS SqlServer and PostgreSQL
    - MS SqlServer is completed
    - PostgreSQL implementation is ~80% completed
    - Databricks implementation is ~50% completed



# Databricks User Group Objectives for 2025

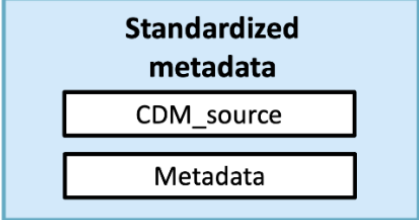
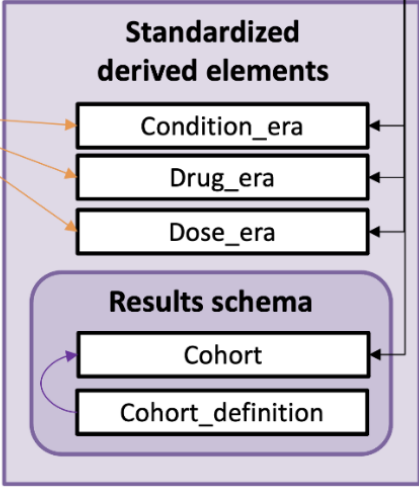
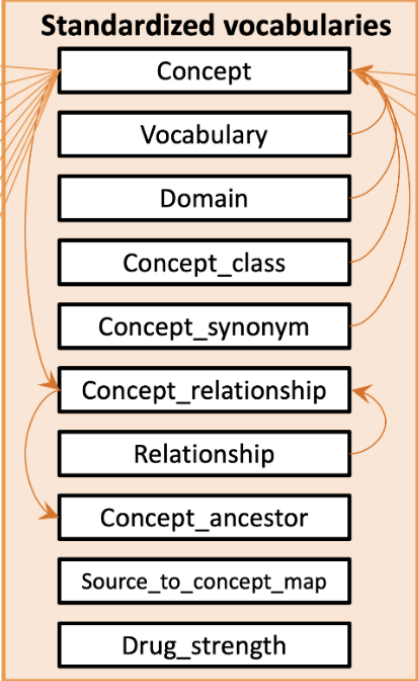
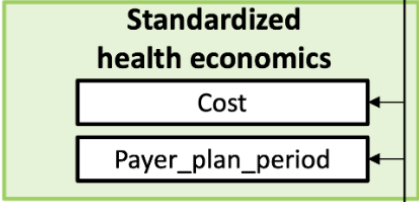
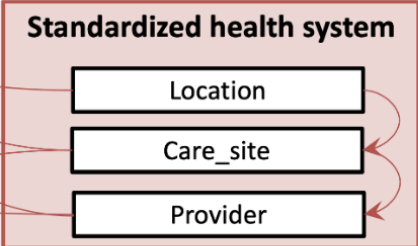
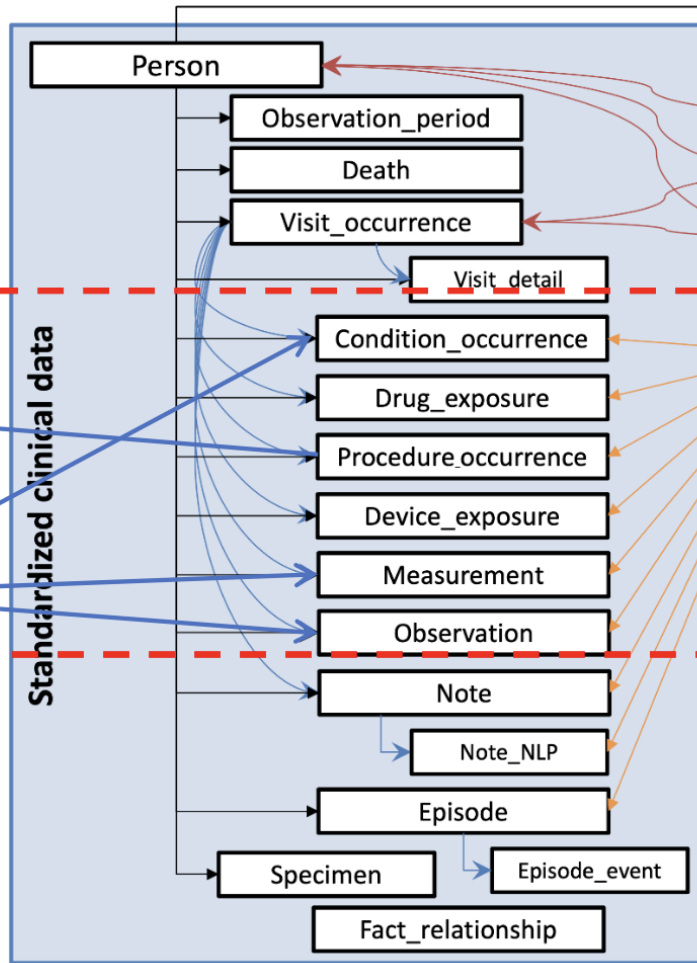
- Improve community Engagement
  - Give out t-shirts?

# 2025 Imaging OHDSI WG

From pixels to Phenotypes

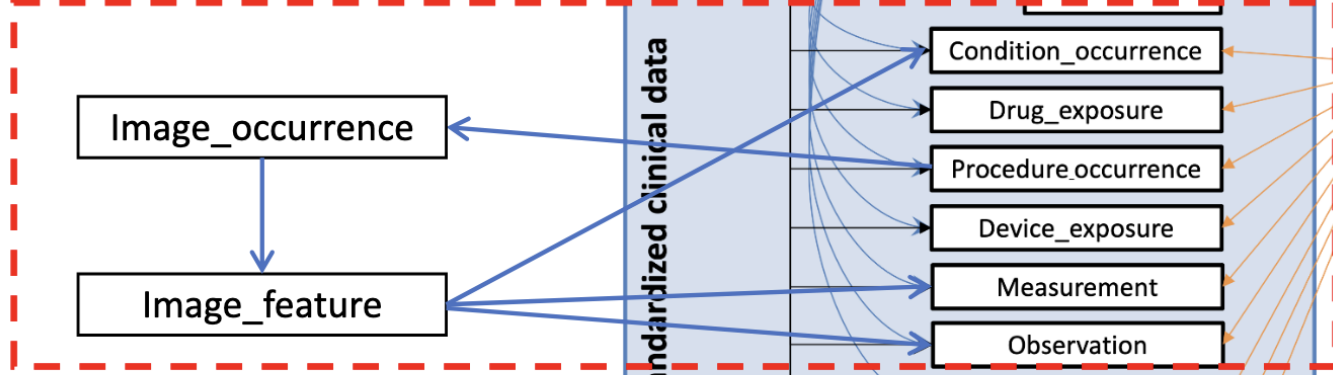
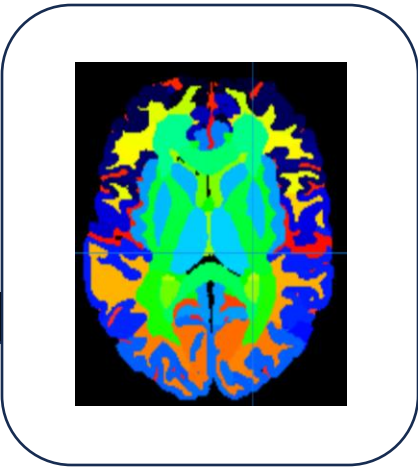
Every other Wednesday 7 AM EST and then 7 PM EST

WG co-leads Seng Chan You and Paul Nagy



Image\_occurrence

Image\_feature



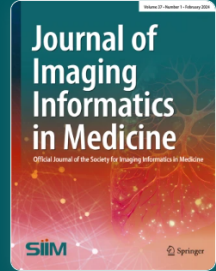
# OHDSI Medical Imaging Workgroup

- Created in Fall 2021
- Bi-weekly meetings
- 219 Current Members
- Seminal paper Feb 2024
  - 3800 downloads
  - 8 citations
  - 3 vendors implemented
    - MSFT Azure DICOM to OMOP

Home > [Journal of Imaging Informatics in Medicine](#) > Article


## Development of Medical Imaging Data Standardization for Imaging-Based Observational Research: OMOP Common Data Model Extension

Open access | Published: 05 February 2024  
Volume 37, pages 899–908, (2024) [Cite this article](#)



Journal of Imaging Informatics in Medicine  
Official Journal of the Society for Imaging Informatics in Medicine  
SIIM Springer

Journal of Imaging  
Medicine




INVESTIGATIVE RADIOLOGY  
A JOURNAL OF CLINICAL AND LABORATORY RESEARCH


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REVIEW ARTICLE

### Advancing Medical Imaging Research Through Standardization

#### The Path to Rapid Development, Rigorous Validation, and Robust Reproducibility

Jeon, Kyulee BS; Park, Woo Yeon MS; Kahn, Charles E. Jr MD, MS, FACR; Nagy, Paul PhD; You, Seng Chan MD, PhD;  Yoon, Soon Ho MD, PhD

[Author Information](#) 

*Investigative Radiology* 60(1):p 1-10, January 2025. | DOI: 10.1097/RLI.0000000000001106 

- Outline
- Images
- Download
- Cite

# What we have done so far

1. Created an architecture to integrate imaging into OMOP and published it for the OMOP extension.
2. Demonstrated the extension with Alzheimer's data to create cohort definitions based on DICOM attributes
3. Create cohort projections with imaging pipelines for segmentation algorithms
4. Harvesting of the DICOM standard into the OMOP vocabulary (3<sup>rd</sup> paper) Semantic
5. Demonstration project of data characterization in Alzheimer's of brain hippocampal volume correlation to neurocognitive (4<sup>th</sup> paper)
6. Described the heterogeneity of DICOM tags in South Korea.
7. NEI is funding a challenge grant aligning with medical imaging in OHDSI
8. Commitment to reference implementations in 2025 from 3 sites.



# Imaging WG Goals

- OKR #1. Reference implementations of RWD into OMOP CDM
  - Guidelines on linking GUID/accession numbers to procedure occurrences
  - Guideline on high-value DICOM tags (don't swamp measurement table)
  - Education on different DICOM tags (Private)
  - Study description/series description standardization
- OKR #2. Reference implementation on RWD in multiple locations and multiple modalities
- OKR #3. Education - Implementation guide for the imaging extension
  - Publish 3rd and 4th paper
  - Software guide to do the ETL harvesting
  - Chapter in the book of OHDSI – maybe republishing of the chapter in JIIM
  - Raise awareness with grant sponsors through presentations.



# OHDSI Psychiatry WG

## 2025



# OHDSI Psychiatry WG: Mission

Develop and use informatics capacity to support evidence generation that will improve patients' mental health



# OHDSI Psychiatry WG: 2024 accomplishments

## **Continued development of vocabulary for mental health**

- Release of major candidate vocab extension that includes MH – SDoH vocabulary
- Alignment with SNOMED and LOINC
- Contribution to the Human Phenotype Ontology
- Pursuit of OMOP vocabulary-focused grants to support development



# OHDSI Psychiatry WG: 2024 accomplishments

## **Began work to assess support of use of vocabulary for representing data on neuropsychiatric scale scores**

- Drafted scope and contents of MH measures of interest
- Identified viable strategies for collecting scale data from EHR flowsheets
- Identified OHDSI members interested in contributing



# OHDSI Psychiatry WG: 2024 accomplishments

## **Began work on study to demonstrate the benefits of developed, vocab, NLP, and flowsheet capacity**

- Drafted study protocol based on prior study that used only structured data on mental health
- Identified data partners with relevant data and informatics resources
- Began work on phenotyping strategies with the variations of data: Structured; Flowsheet; NLP and combinations



# OHDSI Psychiatry WG: 2024 accomplishments

## **Began work on survey to assess broader interest in the OHDSI community for participation in MH research**

- Outreach to international organizations
- Definition of major objectives for 3 descriptive and demo papers on OHDSI capacity for MH research
  - Characterize who gets what MH assessments in what settings
  - Characterize what kinds of MH treatments are giving to patients in those settings
  - Demonstrate ability to answer important clinical question
    - Effect of lithium on mood component of BP II: Europe vs USA



# OHDSI Psychiatry WG: 2025 Goals

**Complete study on value of NLP/Flowsheet for improving prediction of conversion from MDD to BP II**

**Advance new SNOMED concept model for MH and align with work on MH assessments in OMOP and HPO**

**Conduct characterization and demo studies**

**Help meet needs for MH concepts in the community**

**E.g. in INSPIRE Network**

**Tatiana's study to inform guidelines for Psychosis Tx!**





# OHDSI Psychiatry WG: 2025 Meeting info

**Join us!**

**Meetings occur every first Wednesday of the month  
from 8:00 AM to 9:00 AM Eastern US**

**Sign up at [OHDSI MSTeams Work groups, Chapters, and Studies  
Registration](#)**