#OHDSI2023 Mad Minutes and Final Logistics

OHDSI Community Call
Oct. 17, 2023 • 11 am ET
# Upcoming Community Calls

<table>
<thead>
<tr>
<th>Date</th>
<th>Topic</th>
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<tr>
<td>Oct. 17</td>
<td>Symposium Week! Final Logistics + Mad Minutes</td>
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<tr>
<td>Oct. 24</td>
<td>Welcome to OHDSI</td>
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<tr>
<td>Oct. 31</td>
<td>TBA</td>
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<tr>
<td>Nov. 7</td>
<td>Meet The Titans</td>
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<tr>
<td>Nov. 14</td>
<td>Collaborator Showcase Honorees</td>
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<td>Nov. 21</td>
<td>Showcase Software Demos</td>
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Three Stages of The Journey

Where Have We Been?
Where Are We Now?
Where Are We Going?
OHDSI Shoutouts!

Congrats to our 2023 Titan Award Nominees!

Alexander Davydov • Aniek Markus • Anna Ostropolets • Anthony Sena • Asieh Golozar • Asiyah Lin • Atif Adam • Azza Shoaibi • Can Yin • Carlos Diaz • Center for Surgical Science team • Christian Reich • Christie Quarles • Chungsoo Kim • Cindy Cai • Clair Blacketer • Clark Evans • Craig Sachson • Cynthia Sung • Dana Zakrzewski • Danielle Boyce • Davera Gabriel • Debo Wei • Eleanor Davies • Elisse Katzman • Erica Voss • Evan Minty • Frank DeFalco • Geert Byttebier • Georgina Kennedy • Gowtham Rao • Grahame Grieve • Gregory Klebanov • Gyeol Song • Henrik John • Hugo Vernooij • IQVIA OMOP Productized Analytics • Ismail Gogenur • Jack Brewster • James Brash • James Gilbert • Jared Houghtaling • Jasmine Gratton • Jenna Reps • Jiawei Qian • Jiayi (Jessie) Tong • Jing Li • Joel Swerdel • John Gresh • Katherine Duszynski • Katy Sadowski • Kyle Zollo-Venecek • Kyrylo Simonov • LAISDAR Study Team • Lee Evans • Lydia Liu • Manlik Kwong • Marc Suchard • Marc Twagirumukiza • Marcel de Wilde • Masha Khitrun • Marti Catala • Martijn Schuemie • Martin Lavallee • Marty Alvarez • Meghan Pettine • Mengyuan Shang • Michael Matheny • Michelle Hribar • Milou Brand • Montse Camprubi • Nathan Buesgens • Nathan Hall • Nicole Pratt • Nigel Hughes • Nikolai Grewe • OHDSI Vocabulary Team • Oleg Zhuk • Paul Dougall • Paul Nagy • Polina Talapova • Raivo Kolde • Renske Los • Sally Baxter • Sarah Seager • Stephen Town • Tal El-Hay • Thamir Alshammmary • Thomas Falconer • Timur Vakhitov • Varvara Savitskaya • Vipina Keloth • Xiaoyu Lin

Winners will be announced during the #OHDSI2023 Closing Talk!
MONDAY

Transforming Estonian cancer data to episode table in OMOP

(Marek Oja, Sirli Tamm, Raivo Kolde)
TUESDAY

Interoperability through Collaboration: Developing a Global Oncology Standard

(Robert Miller, Asieh Golozar, Georgina Kennedy, Kim W. Carter)
A method to facilitate rapid stand up of OMOP research tools from validated libraries for RWE research

(Jack Brewster, Eleanor Davies, Sarah Seager)
Development and characterization of a phenotype algorithm to identify Acute Kidney Injury in RWD

(Marcela Rivera, David Vizcaya, Juan Manuel Ramírez-Anguita, Azza Shoaibi, Gowtham Rao, Angela Leis, Miguel Angel Mayer)
#OHDSISocialShowcase

FRIDAY

Transforming Multimodal Data from Music Therapy Sessions into OMOP CDM Format

(Jared Houghtaling, Katrien Foubert)

Title: Transforming Multimodal Data from Music Therapy Sessions into OMOP CDM Format

BACKGROUND: Despite being employed as a therapeutic tool for more than 300 years, music therapy has only recently experienced significant growth, as of 2023, there are now more than 10,000 professional music therapists across 20 European countries, a number which has grown 10-fold in the last several decades [1]. Efforts to record and analyze these therapeutic sessions quantitatively are therefore relatively recent. The analysis of how that recorded therapeutic music recordings demonstrate improvements in patient outcomes is currently underway. Several factors, however, have hindered progress on this line. [2] (i) Evaluating a therapy's effectiveness requires quantitative analysis of these data, which are often very broad in scope (e.g., academic, therapeutic, and therapeutic effectiveness). (ii) Most current data models are focused on specific components of music therapy and are not designed to capture the full spectrum of music therapy interventions.

Figure 1: Harmonization flow (A). Process signals and edited features. (B) Correct acoustic features with data. (C) Transform data into OMOP CDM format with custom concepts as needed.

Table 1: Relevant OMOP concepts and codes in the Proof-of-Concept (POC) OMOP dataset

LIMITATIONS AND DISCUSSION: With these data, we have thus far outlined our work describing how to use the health benefits of music therapy to understand the effects of music therapy on patient outcomes. One major limitation of the POC OMOP dataset is that it is focused on the use of music therapy and has not been designed to capture the full spectrum of music therapy interventions. Therefore, we expect that a more detailed and diverse dataset will be necessary to fully capture the effects of music therapy on patient outcomes. Nevertheless, the results presented here provide a promising foundation for future studies.

Figure 2: Transferring therapy data to OMOP CDM format proceeds in three phases, beginning with feature selection and processing and then transforming those data into the OMOP CDM format for the POC OMOP dataset.
OHDSI Shoutouts!

Any shoutouts from the community? Please share and help promote and celebrate OHDSI work!

Do you have anything you want to share? Please send to sachson@ohdsi.org so we can highlight during this call and on our social channels. Let’s work together to promote the collaborative work happening in OHDSI!
Three Stages of The Journey

Where Have We Been?
Where Are We Now?
Where Are We Going?
## Upcoming Workgroup Calls

<table>
<thead>
<tr>
<th>Date</th>
<th>Time (ET)</th>
<th>Meeting</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tuesday</td>
<td>1 pm</td>
<td>Common Data Model</td>
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<tr>
<td>Wednesday</td>
<td>11 am</td>
<td>Perinatal &amp; Reproductive Health</td>
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<tr>
<td>Wednesday</td>
<td>12 pm</td>
<td>Health Equity Journal Club</td>
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<tr>
<td>Wednesday</td>
<td>12 pm</td>
<td>HADES</td>
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<tr>
<td>Wednesday</td>
<td>7 pm</td>
<td>Medical Imaging</td>
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<tr>
<td>Thursday</td>
<td>9 am</td>
<td>Medical Devices</td>
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<tr>
<td>Thursday</td>
<td>9 am</td>
<td>OMOP CDM Oncology Vocabulary/Development Subgroup</td>
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<tr>
<td>Thursday</td>
<td>9:30 am</td>
<td>Themis</td>
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<tr>
<td>Monday</td>
<td>10 am</td>
<td>Healthcare Systems Interest Group</td>
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<tr>
<td>Monday</td>
<td>4 pm</td>
<td>Eyecare &amp; Vision Research</td>
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<tr>
<td>Monday</td>
<td>6 pm</td>
<td>OMOP &amp; FHIR</td>
</tr>
<tr>
<td>Tuesday</td>
<td>9 am</td>
<td>OMOP CDM Oncology Genomic Subgroup</td>
</tr>
<tr>
<td>Tuesday</td>
<td>10 am</td>
<td>Registry</td>
</tr>
</tbody>
</table>
OHDSI HADES releases: SqlRender 1.16.1

SqlRender

SqlRender is part of HADES.

Introduction

This is an R package for rendering parameterized SQL and translating it to different SQL dialects. SqlRender can also be used as a stand-alone Java library and a command-line executable.

Features

- Supports a simple markup syntax for making SQL parameterized, and renders parameterized SQL (containing the markup syntax) to executable SQL
- The syntax supports defining default parameter values
- The syntax supports if-then-else structures
- Has functions for translating SQL from one dialect (Microsoft SQL Server) to other dialects (Oracle, PostgreSQL, Amazon RedShift, Impala, IBM Netezza, Google BigQuery, Microsoft PDI, Snowflake, Azure Synapse, Apache Spark and SQLite)
- Can be used as R package, Java library, or as stand-alone executable through a command-line interface
Openings at Boehringer Ingelheim

Director, Real World Data & Analytics - Data Domain Owner

Apply Now

Real World Evidence Data Engineer

Apply Now
Opening: Postdoctoral Associate/Data Analyst

Job Announcement: Postdoctoral Associate/Data Analyst - LEGEND Hypertension Project

Position: Postdoctoral Associate/Data Analyst

Organization: Yale University, School of Medicine

Location: 195 Church Street, 5th floor, New Haven, CT, 06510

Application Deadline: Rolling basis

Job Description:
We are seeking a talented and dedicated Postdoctoral Associate/Data Analyst to join our dynamic team. In this role, you will play a pivotal part in advancing our mission of improving health outcomes through data-driven research. You will have the opportunity to work with diverse healthcare datasets, develop innovative analytical methods, and collaborate with experts in the field.

The Postdoctoral Associate/Data Analyst should possess significant experience in R and RStudio, with specific expertise in database management using PostgreSQL—critical requirements within the OHDSI network. Your responsibilities will include assisting the Principal Investigator (Dr. Yuan Lu from Yale University) and Co-investigator (Drs. Marc Suchard from UCLA) in creating the analytic tool stack and performing related analyses.

Key Responsibilities:
- Collaborate with multidisciplinary teams to design and execute data analysis projects.
- Develop and implement statistical and machine learning models for healthcare data.
- Perform data extraction and preprocessing tasks to prepare datasets for analysis.
- Conduct exploratory data analysis and visualization to extract insights from healthcare data.
- Assist in the development and maintenance of OHDSI’s open-source tools and resources.
- Communicate findings and insights through reports, presentations, and publications.
- Stay up-to-date with the latest advancements in data science and healthcare informatics.

Email: y.lu@yale.edu
Where Are We Going?

Any other announcements of upcoming work, events, deadlines, etc?
Three Stages of The Journey

Where Have We Been?
Where Are We Now?
Where Are We Going?
Global Symposium

Oct. 20-22 • East Brunswick, NJ, USA
Hilton East Brunswick Hotel & Executive Meeting Center

bit.ly/OHDSI2023Registration
# Global Symposium Conference Agenda

**Agenda • Friday, Oct. 20**

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<thead>
<tr>
<th>Time</th>
<th>Topic</th>
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<tbody>
<tr>
<td>7:30 - 8:30 am</td>
<td>Symposium Registration, Lite Breakfast Buffet, All-Day Exhibits (First-doors can enter for a quick registration session at 7:45 am in Piccadilly/Woodbridge; will conclude before the start of the first talk)</td>
</tr>
</tbody>
</table>
| 8:30 - 9:30 am | State of the Community     
**OHDSI: Where have we been? Where are we going?** George Hripcsak, Columbia Univ.  
Community Highlights:  
- OMOP CDM users and the OHDSI data network: Clair Blacketer, Johnson & Johnson  
- OHDSI standardized vocabularies Alexander Davydov, Odysseyus Data Services  
- OHDSI’s open-source community: Katy Sadowksi, Boehringer Ingelheim  
- OHDSI Europe 2024: Peter Rijnbeek, Erasmus MC  
- OHDSI Asia-Pacific 2024: Mengling Feng, National Univ. of Singapore |
| 9:30 - 10:30 am | OHDSI Community Networking  
Moderators:  
- Faaziah Arshad, Univ. of California–Los Angeles  
- Cynthia Sung, Duke-NUS Medical School |
| 10:30 am - 12:00 pm | Plenary: Improving the reliability and scale of case validation  
Presenters:  
- Patrick Ryan, Johnson & Johnson, Columbia Univ.  
- Anna Ostropolea, Odysseyus Data Services  
- Martin Schuemle, Johnson & Johnson, Univ. of California–Los Angeles |
| 12:00 pm - 1:00 pm | Buffet Lunch |

**Register**


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**Time** | **Topic**
---|---
1:00 pm - 2:00 pm | Panel: Lessons learned from OHDSI network studies  
**Presenters:**  
- Insights from LEGEND-T2DM Marc Suchard, Univ. of California–Los Angeles  
- Intravascular anti-VEGF and risk of kidney failure: A Sisyphus Challenge Study Cindy X. Cai, Johns Hopkins Univ.  
- Fluorochromes and the risk of aortic aneurysm: A Sisyphus Challenge study Seng Chan You, Vonsel Univ.  
- Lessons learned applying the Strategus framework across the OHDSI network: Anthony Sina, Johnson & Johnson  
**Moderator:** Sarah Seager, IOVIA |
2:00 pm - 2:45 pm | Collaborator Showcase, Lightning Talk Session #1:  
**Data Standards and Methods Research**  
- Mapping of Critical Care EHR Flowsheet data to the OMOP CDM via SSSOM Polina Taipepeva, SciForce  
- Paving the way to estimate daily dose in OMOP CDM for Drug Utilization Studies in DARWIN EUV: Theresa Burkard, Univ. of Oxford  
- Generating Synthetic Electronic Health Records in OMOP using GPT: Chao Pang, Columbia Univ.  
- Comparing concepts extracted from clinical Dutch text to conditions in the structured data: Tom Seinen, Erasmus MC  
- Finding a constrained number of predictor phenotypes for multiple outcome prediction: Jenne Reps, Johnson & Johnson  
**Moderator:** Davara Gabriel, Johns Hopkins University |
2:45 - 3:00 pm | Collaborator Showcase, Poster / Demo Session #1  
**Poster walk leads:**  
- Data standards: Hui Van Zandt, IOVIA  
- Methods research: Christopher Lambert, Univ. of New Mexico  
- Open-source development: Paul Nagy, Johns Hopkins Univ.  
- Clinical applications: Kristin Kostka, Northeastern University |
3:00 pm - 4:15 pm | Collaborator Showcase, Lightning Talk Session #2:  
**Methods Research and Clinical Applications**  
- Synthesizing Evidence for Rare Events: a Novel Zero-Inflated Bivariate Model to Integrate Studies with Double-Zero Outcomes: Lu Li, Univ. of Pennsylvania  
- Patient’s outcomes after endoscopic retrograde cholangiopancreatography (ERCP) using reprocessed duodenoscopy accessories: a descriptive study using real-world data: Jessica Maryama, Precision Data  
- Does COVID-19 increase Racial/Ethnic Differences in Prevalence of Post-acute Sequelae of SARS-CoV-2 infection (PASC) in Children and Adolescents?: An EHR-Based Cohort from the RECOVER Program: Jingyu Zhang, Univ. of Pennsylvania  
- Eye Care and Vision Research Workgroup: First Year Update: Michelle Tribs, National Institutes of Health – National Eye Institute  
**Moderator:** Atif Adam, IOVIA |
4:15 - 5:00 pm | Collaborator Showcase, Poster / Demo Session #2  
**Poster walk leads:**  
- Data standards: Melanie Philofsky, Odysseyus Data Services  
- Methods research: Andrew Williams, Tufts Univ.  
- Open-source development: Nisakol Alpakon, Accenture  
- Clinical applications: Filinleh Razzaghi, Children’s Hospital of Pennsylvania |
5:00 pm - 6:00 pm | Closing session: Scaling community, scaling collaboration  
**Titan Awards**  
**Group Photos**  
**Presenter:** Patrick Ryan, Johnson & Johnson, Columbia Univ. |
6:00 pm - 7:00 pm | Networking Reception and Exhibits  
[www.ohdsi.org](www.ohdsi.org)  
#JoinTheJourney
## Global Symposium Conference Agenda

### Agenda • Saturday, Oct. 21

<table>
<thead>
<tr>
<th>Time</th>
<th>Topic</th>
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<td>7:00 - 8:00 am</td>
<td>Lite Breakfast Buffet, All-Day Exhibits</td>
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<tr>
<td>8:00 am - 12:00 pm</td>
<td>Various rooms</td>
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<tr>
<td></td>
<td>Introduction to OHDSI Tutorial</td>
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<td></td>
<td>Common Data Model/Network Data Quality WG Meeting</td>
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<td></td>
<td>Health Analytics Data-to-Evidence Suite (HADES) Hackathon</td>
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<td>Health Equity WG Meeting</td>
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<td>Medical Imaging WG Meeting</td>
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<td>Natural Language Processing WG Meeting</td>
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<td>OHDSI Industry WG Kickoff Meeting</td>
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<td>Oncology WG Meeting</td>
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<td>Phenotype Development &amp; Evaluation WG Meeting</td>
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<td>Pregnancy and Reproductive Health Group (PRReG) WG Meeting</td>
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<tr>
<td>12:00 - 1:00 pm</td>
<td>Lunch Buffet, Collaborator Showcase, All-Day Exhibits</td>
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<td>1:00 pm - 5:00 pm</td>
<td>Grand Ballroom</td>
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<td>HowOften Large-Scale Characterization Workshop</td>
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<tr>
<td>5:00 pm</td>
<td>Free Time</td>
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### Agenda • Sunday, Oct. 22

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<td>7:00 - 8:00 am</td>
<td>Lite Breakfast Buffet, All-Day Exhibits</td>
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<tr>
<td>8:00 am - 12:00 pm</td>
<td>Grand Ballroom/ Room TBA</td>
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<td></td>
<td>HowOften Large-Scale Characterization Workshop</td>
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<td></td>
<td>HL7 FHIR-OMOP Connectathon</td>
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<tr>
<td>12:00 - 1:00 pm</td>
<td>Lunch Buffet, Collaborator Showcase, All-Day Exhibits</td>
</tr>
<tr>
<td>1:00 pm - 5:00 pm</td>
<td>Various Rooms</td>
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<td></td>
<td>Africa Chapter Workshop</td>
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<td></td>
<td>Eye Care &amp; Vision Research WG Meeting</td>
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<td></td>
<td>Health Analytics Data-to-Evidence Suite (HADES) Hackathon</td>
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<td>Healthcare Systems Interest Group (HSIG) WG Meeting</td>
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<td></td>
<td>HL7 FHIR-OMOP Connectathon</td>
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<td>ISPE RWE for Pharmacovigilance</td>
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<td>Medical Devices WG Meeting</td>
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<td>Psychiatry WG Meeting</td>
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<td>Vocabulary WG Meeting</td>
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<td></td>
<td>Latin America WG Meeting</td>
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<tr>
<td>5:00 pm</td>
<td>Symposium Closing</td>
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Register
Welcome, 1\textsuperscript{st}-Time Attendees!

All OHDSI first-time attendees are welcome to attend an orientation on Friday at 7:45 am within the Woodbridge/Piscataway room. Paul Nagy, a 2022 Titan honoree for community leadership, will lead this session.

[ohdsi.org/ohdsi2023]
Symposium Logistics

- Wednesday email, link for weekend documents
Symposium Logistics

- Wednesday email, link for weekend documents
- Thursday pre-registration: 6-8 pm, East Brunswick Room
Symposium Logistics

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- Friday registration: 7:30-8:30, 1st-time orientation starts at 7:45 in Woodbridge/Piscataway
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- Two sessions of lightning talks, two sessions of posters/demos
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- Following the closing, group photo (maybe team photos?)
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- We want everybody for the HowOften workshop
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- Two sessions of lightning talks, two sessions of posters/demos
- Following the closing, group photo (maybe team photos?)
- We want everybody for the HowOften workshop
- Look for emails from symposium@ohdsi.org!

ohdsi.org/ohdsi2023

Register
# Mad Minutes

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<th>Presenter</th>
<th>Poster/Demo #</th>
<th>Title</th>
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<td>Dmytry Dymshyts</td>
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<td>Transforming the Optum® Enriched Oncology module to OMOP CDM</td>
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<tr>
<td>Andrew Kanter</td>
<td>36</td>
<td>Open-Source Tools and Terminology to Increase Representativeness in OHDSI Data</td>
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<tr>
<td>Vishnu Vardhan Chandrabalan</td>
<td>20</td>
<td>Implementing the OMOP CDM using dbt</td>
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<tr>
<td>Justin Manjourides</td>
<td>331</td>
<td>Harnessing OHDSI's Framework for a Global Real World Evidence Masters Degree Program</td>
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<tr>
<td>John Gresh</td>
<td>216</td>
<td>OHDSI on Databricks: A Complete Guide to Implementing OHDSI on Databricks</td>
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<tr>
<td>Guy Livne</td>
<td>319</td>
<td>Large variety Country size RWD data-lake</td>
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<tr>
<td>Jen Park</td>
<td>6</td>
<td>Development of Medical Imaging Data Standardization for Imaging-Based Observational Research: OMOP Common Data Model Extension</td>
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<tr>
<td>Duwayne Willett</td>
<td>10</td>
<td>“OMOP Anywhere”: Daily Updates from EHR Data Leveraging Epic’s Native Tools</td>
</tr>
<tr>
<td>Theresa Burkard</td>
<td>30</td>
<td>A new route of administration hierarchy derived from dose forms supporting standardised drug dose calculations</td>
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## Mad Minutes

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<tr>
<td>Theresa Burkard</td>
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<td>Developing a perinatal expansion for the OMOP common data model</td>
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<td>Joel Swerdel</td>
<td>112</td>
<td>Examining differential measurement error due to race, age, and sex in mental health disorders using PheValuator</td>
</tr>
<tr>
<td>Melanie Philofsky</td>
<td>25</td>
<td>Make Your Tools Work for You: Customizing the Data Quality Dashboard to Identify Changes in Source Data</td>
</tr>
<tr>
<td>Mateus de Lima Freitas</td>
<td>12</td>
<td>Challenges and opportunities in adopting OMOP-CDM in Brazilian healthcare: a report from Hospital Israelita Albert Einstein</td>
</tr>
<tr>
<td>Polina Talapova</td>
<td>501</td>
<td>Mapping of Critical Care EHR Flowsheet data to the OMOP CDM via SSSOM</td>
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<td>Polina Talapova</td>
<td>24</td>
<td>Jackalope Plus: AI-Enhanced Solution for Mapping Unmappable Concepts</td>
</tr>
<tr>
<td>Polina Talapova</td>
<td>11</td>
<td>A Toxin Vocabulary for the OMOP CDM</td>
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