OHDSI
OBSERVATIONAL HEALTH DATA SCIENCES AND INFORMATICS

OHDSI 2023 Symposium
Oct. 20-22, 2023
Hilton East Brunswick Hotel
& Executive Meeting Center

Agenda • Friday, Oct. 20

Time	Topic
7:30 - 8:30 am East Brunswick Room + Grand Ballroom Foyer	**Symposium Registration, Lite Breakfast Buffet, All-Day Exhibits** * First-timers can meet for a quick orientation session at 7:45 am in Piscataway/Woodbridge (will conclude before the start of the first talk)
8:30 - 9:30 am Grand Ballroom	**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, Odysseus Data Services • OHDSI's open-source community Katy Sadowski, Boehringer Ingelheim • OHDSI Europe 2024 Peter Rijnbeek, Erasmus MC • OHDSI Asia-Pacific 2024 Mengling Feng, National Univ. of Singapore
9:30 - 10:30 am Grand Ballroom	**OHDSI Community Networking** **Moderators:** • Faaizah Arshad, Univ. of California-Los Angeles • Cynthia Sung, Duke-NUS Medical School
10:30 am - 12:00 pm Grand Ballroom	**Plenary: Improving the reliability and scale of case validation** **Presenters:** • Patrick Ryan, Johnson & Johnson, Columbia Univ. • Anna Ostropolets, Odysseus Data Services • Martijn Schuemie, Johnson & Johnson, Univ. of California-Los Angeles
12:00 pm - 1:00 pm Grand Ballroom Foyer	**Buffet Lunch**

All events take place at the Grand Ballroom Level • Exhibits will be available throughout the day

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Time	Topic
1:00 pm - 2:00 pm Grand Ballroom	**Panel: Lessons learned from OHDSI network studies** **Presenters:** • **Insights from LEGEND-T2DM** Marc Suchard, Univ. of California-Los Angeles • **Intravitreal anti-VEGF and risk of kidney failure: A Sisyphus Challenge Study** Cindy X Cai, Johns Hopkins Univ. • **Fluoroquinolones and the risk of aortic aneurysm: A Sisyphus Challenge study** Seng Chan You, Yonsei Univ. • **Lessons learned applying the Strategus framework across the OHDSI network** Anthony Sena, Johnson & Johnson **Moderator:** Sarah Seager, IQVIA
2:00 pm - 2:45 pm Grand Ballroom	**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 Talapova, SciForce • **Paving the way to estimate daily dose in OMOP CDM for Drug Utilisation Studies in DARWIN EU®** 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** Jenna Reps, Johnson & Johnson **Moderator:** Davera Gabriel, Johns Hopkins University
2:45 - 3:30 pm Grand Ballroom	**Collaborator Showcase, Poster / Demo Session #1** **Poster walk leads:** • **Data standards:** Mui Van Zandt, IQVIA • **Methods research:** Christophe Lambert, Univ. of New Mexico • **Open-source development:** Paul Nagy, Johns Hopkins Univ. • **Clinical applications:** Kristin Kostka, Northeastern University

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Time	Topic
3:30 pm - 4:15 pm Grand Ballroom	**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 • Active Safety Surveillance Using Real-world Evidence (ASSURE): An application of the Strategus package Kevin Haynes, Johnson & Johnson • Patient's outcomes after endoscopic retrograde cholangiopancreatography (ERCP) using reprocessed duodenoscope accessories: a descriptive study using real-world data Jessica Maruyama, 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 Bingyu Zhang, Univ. of Pennsylvania • Eye Care and Vision Research Workgroup: First Year Update Michelle Hribar, National Institutes of Health – National Eye Institute Moderator: Atif Adam, IQVIA
4:15 - 5:00 pm Grand Ballroom	**Collaborator Showcase, Poster / Demo Session #2** Poster walk leads: • Data standards: Melanie Philofsky, Odysseus Data Services • Methods research: Andrew Williams, Tufts Univ. • Open-source development: Nsikak Akpakpan, Accenture • Clinical applications: Hanieh Razzaghi, Childrens Hospital of Pennsylvania
5:00 pm - 6:00 pm Grand Ballroom	**Closing session: Scaling community, scaling collaboration** • Titan Awards • Group Photo Presenter Patrick Ryan, Johnson & Johnson, Columbia Univ.
6:00 pm - 7:00 pm East Brunswick Room Grand Ballroom Foyer	**Networking Reception and Exhibits**
7:00 pm - 8:00 pm Grand Ballroom	**OHDSI Got Talent!**

OHDSI
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OHDSI 2023 Symposium
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Agenda • Saturday, Oct. 21

Time	Topic
7:00 - 8:00 am Grand Ballroom Foyer	Lite Breakfast Buffet, All-Day Exhibits
8:00 am - 12:00 pm Various rooms	Introduction to OHDSI Tutorial Common Data Model/Network Data Quality WG Meeting Health Analytics Data-to-Evidence Suite (HADES) Hackathon Health EquityWG Meeting Medical Imaging WG Meeting Natural Language Processing WG Meeting OHDSI Industry WG Kickoff Meeting Oncology WG Meeting Phenotype Development & Evaluation WG Meeting Pregnancy and Reproductive Health Group (PRHeG) WG Meeting
12:00 - 1:00 pm Ballroom Foyer/ Ballroom	Lunch Buffet, Collaborator Showcase, All-Day Exhibits
1:00 pm - 5:00 pm Grand Ballroom	HowOften Large-Scale Characterization Workshop
5:00 pm	Free Time

More information about the various workgroup activities are shared later in this agenda.

All posters, software demos and lightning talks are shared later in this agenda.

OHDSI
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OHDSI 2023 Symposium
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Agenda • Sunday, Oct. 22

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

More information about the various workgroup activities are shared later in this agenda.

All posters, software demos and lightning talks are shared later in this agenda.

Common Data Model / Network Data Quality - Global Symposium Meeting

When: Saturday, October 21, 8:00am-12:00pm EST

The Common Data Model and Network Data Quality working groups will host an in-person meeting at the 2023 OHDSI Global Symposium on **Saturday, October 21, 2023, from 8:00am-12:00pm**.

Common Data Model/Network Data Quality: In this session we will discuss the **OHDSI Data Network**, including goals, incentives, and plans for the future. We would like to hear from current and potential data partners about the barriers they face to joining and how we as a community can work together to overcome them. We will also highlight potential network studies and grant opportunities.

You should join this session if you:

- Are a collaborator currently participating in the OHDSI Data Network, meaning you shared a Database Profile with the OHDSI Coordinating Center.
- Are a data owner who would like to participate in a network study.
- Are a data vendor looking to market their data to potential customers.
- Are a researcher looking for databases with particular attributes.
- Are interested in the OHDSI Data Network and want to contribute to the planning and discussion.

Agenda

Time	Topic
8:00 – 8:30	Data Network Intro and Purpose
8:30 – 10:00	Guided discussion on barriers to data network participations
10:00 – 10:15	Break
10:15 – 10:30	Intro to SOS challenge
10:30 – 11:00	Demo of database profile and data diagnostics
11:00 – 11:45	Open discussion on how to open up the network and share data diagnostic capabilities
11:45 – 12:00	Closing

Health Analytics Data-to-Evidence Suite (HADES) Hackathon

When: Saturday, October 21, 8:00am-12:00pm and Sunday, October 22, 1:00pm-5:00pm EST

During the HADES hackathon, participants will work on the HADES codebase with support from several HADES maintainers. Participants can work in groups, and we welcome both new and experienced contributors to join. Part 1 takes place Saturday morning and Part 2 takes place Sunday afternoon.

Target audience: Developers interested in working on the HADES codebase. Some experience in R is recommended.

Health Equity Workgroup at the Global Symposium

When: Saturday, October 21, 2023, 8:00am-12:00pm EST

The Health Equity Workgroup is thrilled to present a dynamic series of sessions at the OHDSI Symposium this fall. Our mission is to champion health equity advances within our community. Join us as we delve deep into the confluence of Real-World Evidence (RWE) and innovative strategies to address health inequities

Highlights Of What We Will Be Discussing:

1. **Data-Driven Innovation for Health Equity**: An exclusive session showcasing critical topics on health inequities, advances in health technologies, the rise of digital literacy, and the pivotal role of generative AI in Real-World Evidence (RWE) studies.
2. **Advancing Implementation from Knowledge**: An in-depth discussion featuring diverse perspectives, aiming to bridge the gap between Social Determinants of Health (SDoH) data elements, innovative methodologies, and daily unmet health needs.
3. **Health Equity Interactive workshop**: Immerse yourself in a hands-on exploration of a state-of-the-art R tool (Health Equity Explorer) crafted by OHDSI team members, enabling health equity data generation, intricate visualizations, and solid statistical analytics.
4. **OHDSI Health Equity Shark Tank**: Here's a chance for participants to present their research proposals addressing health inequities in our Shark Tank-inspired session. The most innovative ideas will be championed as official Health Equity Workgroup projects.

Introduction to OHDSI Tutorial

When: Saturday, October 21, 8:00am-12:00pm EST

The journey from data to evidence can be challenging alone but is greatly enabled through community collaboration. In this half-day tutorial, we will introduce newcomers to OHDSI. Specifically, about the tools, practices, and open-science approach to evidence generation that the OHDSI community has developed and evolved over the past decade. Faculty will highlight the ways community individuals can participate as well as receive value from the community's outputs. The course will include topics such as open community data standards – including the OMOP Common Data Model and OHDSI Standardized Vocabularies, open-source analytic tools – including HADES and ATLAS, and the conduct of open network studies for methodological research and clinical applications.

TIME	TOPICS
8:00AM-8:15AM	Introduction to OHDSI
8:15AM-9:00AM	Data Standardization
9:00AM-9:45AM	Methodologic Research
10:00AM-10:15AM	Break
10:15AM-11:00AM	Open-Source Development
11:00AM-11:45AM	Clinical Evidence Generation
11:45AM-12:00AM	Conclusion and Next Steps

This OHDSI research will help drive our tutorial and discussions:
Hripcsak G, Suchard MA, Shea S, et al. Comparison of Cardiovascular and Safety Outcomes of Chlorthalidone vs Hydrochlorothiazide to Treat Hypertension. JAMA Intern Med. 2020;180(4):542-551. doi:10.1001/jamainternmed.2019.7454 https://pubmed.ncbi.nlm.nih.gov/32065600/

Medical Imaging Workgroup at the OHDSI Symposium
When: Saturday, October 21, 8:00am-12:00pm EST

Imaging researchers focus on the knowledge they can obtain from medical images. It often leads to a lack of outcomes for the patient or their disease burden. In contrast, observational researchers focus on the knowledge they can obtain from the electronic health records (EHR) or claims, confining them to access only the **structured and coded** information and needing organ-level observations and measurements that provide an essential feature for the disease's progression and the efficacy of treatment. We are seeing rapid growth in deep learning classification and segmentation models that provide important disease biomarkers. We aim to link image-based measurements into the OMOP data model to harness these deeper phenotypes with the outcome measures tracked in the EHR.

a. Present the Medical Imaging Model (60-90 mins)
b. Breakout a discussion group on the implementation guide (Chan)
c. Poll group about their Imaging infrastructures
i. Paul will lead the discussion for future research including Alzheimer MR use case.
a. Start planning for an OHDSI community call on the imaging extension

Natural Language Processing Workgroup at the OHDSI Global Symposium
When: Saturday, October 21, 8:00am-12:00pm EST

The **Natural Language Processing Workgroup** will hold an exciting 4-hour session discussing all the amazing work our community has been doing over the past year. From the progress we made to demonstrate the utility of unstructured data in observational studies with our Note_NLP proposal to what's on every NLP enthusiast's mind these days, the Large Language models (LLMs), we are eager to share with you what we learned and hear from you what you have been working on. We welcome everyone to join us in person @ Hilton East Brunswick, New Jersey.

What's in store for you:

- "Making NLP-derived data actionable within the OHDSI ecosystem" – a proof-of-concept study validating the utility of the Note_NLP proposal. Speaker: **Michael Gurley** - Northwestern University
- Interested in Oncology, Psychiatry, or Social determinants of health? Join us to know the progress of our ongoing studies and let us know if you would like to join. Speakers: **Michael Gurley** - Northwestern University, **Andrew Williams** - Tufts University
- One question that we always get – "How do we evaluate the NLP methods for studies within the OHDSI framework? You all asked and here we deliver expecting your comments and feedback– our draft on the NLP validation process. Speaker: **Daniel Smith** - Winship Cancer Institute of Emory University
- A one-stop solution to all your NLP queries – A draft of the NLP Chapter in the Book of OHDSI. Join us for a discussion and provide your feedback.
- We hear you! Yes, a session on LLMs. Speakers: **Hua Xu** - Yale University, more speakers TBA

OHDSI Industry Working Group Kick-off Meeting at the Global Symposium Meeting

When: Saturday, October 21, 8:00am to 12:00pm EST

The 2023 OHDSI Global Symposium will mark a significant milestone with the inaugural meeting of the Industry Working Group (OIWG).

This meeting will serve as a forum to present and discuss the interests of the Pharmaceutical and Biotech industry within OHDSI and foster an environment to exchange expertise, innovative ideas, and best practices.

Join us if you want to:

- Devise approaches to bolster industry's **active participation** in OHDSI
- Create space for both sharing industry acumen and garnering insights from the broader OHDSI community.
- Explore avenues to mutually harness industry and OHDSI resources for shared objectives.

Main Ideas for Discussion at Meeting:

- **Collective Interests**: What are some of the interest, objectives, and goals of industry partners? How can we prioritize and act on them?
- **Fostering Participation**: What barriers exist for industry participation in OHDSI, and how can we overcome them? What incentives or platforms can encourage active involvement?
- **Blueprint for Mutual Support**: How can the industry and OHDSI back each other's initiatives? What frameworks or collaborations can enhance mutual success?
- **Operational Strategies**: How will the working group function? What structures, committees, or sub-groups are essential for its success?

Oncology Workgroup at the Global Symposium

When: Saturday, October 21, 8:00am-12:00pm EST

Since its inception, the Oncology Workgroup has been dedicated to establishing a standardized framework for cancer data, enabling the conduct of observational cancer studies, and enabling the identification of patient cohorts within a distributed research network. In this session, we will come together to reflect on the achievements of the workgroup over the past year, hear from two community collaborators about their cancer OMOP journey, and work together on one of the main challenges in oncology: identification of systemic anti-cancer treatment.

Data custodians and researchers will come together to work on ARTEMIS, the next-generation regimen detection algorithm. Collectively, we will assess the tool's outputs on identification of lung cancer treatment regimens across a network of observational data, evaluate its performance, and outline strategies for validation and necessary enhancements. The insights gained from this exercise will be summarized as proof of concept, which we intend to submit for publication. Join us in contributing to this vital work that bridges the gap between oncology data and research.

Agenda:

- 8:00- 8:15 am EST: OMOP Oncology update
- 8:15- 8:30 am EST: Community contribution to OHDSI Oncology vocabulary
- 8:30- 8:45 am EST: OMOP Genomic
- 8:45- 9:15 am EST: The journey to OMOP oncology: perspectives from two community collaborators
- 9:15-10:00 am EST: Deriving systemic anti-cancer treatment from observational databases using ARTEMIS
- 10:00-10:15 am EST: Coffee break
- 10:15-11:45 am EST: Evaluation and assessment of ARTEMIS performance
- 11:45 -12:00 pm EST: Next steps and publication plan

Phenotype Development and Evaluation at the Global Symposium
When: Saturday, October 21, 8:00am-12:00pm EST

Are you interested in leading an OHDSI characterization study?
The Phenotype Development and Evaluation Workgroup is pleased to announce an in-person meeting scheduled at the 2023 OHDSI Global Symposium on Saturday, October 21, 2023, from 8:00 am to 12:00 pm. The OHDSI Phenotype Development and Evaluation has the Objective Key Result (OKR) to "a) harden Phenotype development and evaluation, b) Improve collaboration by enabling community wide participation on Phenotype Development and Evaluation, c) Promote the usage of OHDSI Phenotype library." One of the key results of this workgroup is to *enable scientists to use the OHDSI Phenotype Library to perform collaborative scientific research for peer reviewed publications*.

To further this key result, we aim to utilize the OHDSI Symposium 2023 as a collaboration opportunity to *enable scientists to lead OHDSI studies that leverage the Cohort Definitions available in the OHDSI Phenotype library*. The leads will be enabled to use the characterization evidence generated for the cohort definitions in OHDSI phenotype library for peer reviewed publications. **See last paragraph below on the opportunity to lead a paper.**

We will start by first picking a subset of cohort definitions in the OHDSI Phenotype library that were chosen to be part of the 'How Often' incidence rate analysis. Once we determine they have reasonable operating characteristics, we will supplement the incidence rate results of HowOften with population-level characterization data derived from the OHDSI software CohortDiagnostics (CD). The combination of the two may be used by study leads and their collaborators to write scientific research papers for peer reviewed publications.

The session aims to achieve the following outcomes:
1. Complete assessment of potential measurement errors associated with the cohort definitions featured in the 'How Often' study across all data sources involved.
2. Perform descriptive analytics of the target/outcome cohorts in the 'How Often' study.
3. Write a manuscript on the insights gained and submit it for peer reviewed publications.

We welcome participation from:
1. OHDSI collaborators and data partners interested in leading (i.e. first author) or contributing (co-author) significantly to a research paper on a phenotype.
2. OHDSI data owners who would like to contribute to the population level characterization component of the study by running CohortDiagnostics in addition to Incidence Rate analysis of HowOften.
3. Individuals who want to gain technical experience in running CohortDiagnostics on your data site.
4. Individuals who are interested in reviewing and interpreting the output from CohortDiagnostics or phevaluator and learn how to identify potential measurement errors.

We are looking for volunteer study leads. If you wish to lead a characterization study as the lead investigator, we encourage you to contact the workgroup leaders via email at rao@ohdsi.org . If selected, similar to the OHDSI Phenotype Phebruary 2023, the workgroup leaders **@Azza_Shoaibi**, **@Gowtham_Rao** will offer help to the volunteer leads throughout the project. We will enable you in assessing the operating characteristics of definitions, identifying potential error sources, interpreting the characterization results, and facilitating manuscript preparation for peer-reviewed publications. Collaborators with all levels of experience are welcome.

Pregnancy and Reproductive Health Group (PRHeG) Global Symposium meeting

When: Saturday, October 21, 8:00am-12:00pm EST

The Pregnancy and reproductive health group will host an in-person meeting at the 2023 OHDSI Global Symposium on Saturday, October 21, 2023 from 8am – 12pm.

Agenda (tentative)

- 8:00-8:15 - Introductions
- 8:15-9:00 - What is a phenotype? Go through an example, and good practices for creating a phenotype using Atlas.
- 9:00-10:00 - Split up into groups and work on creating pregnancy and reproductive health-related phenotypes (from a predefined list, created in advance of the session)
- 10:00-10:15 - Coffee break
- 10:15-11:00 - Reconvene and present updates on phenotypes
    - definition
    - challenges encountered
    - number of patients from at least one site who have the phenotype
- 11:00-12:00 - Next steps, discuss study ideas that would use these phenotypes

Deliverable

We will come away from this session with pregnancy and reproductive health-related phenotype definitions as well as descriptive statistics of those phenotypes in various databases. This will help us understand what data sources in our network can be used for what types of questions, including research questions that we will start to plan studies around at our November meeting.

Africa Chapter Workshop at the Global Symposium

When: Sunday, October 22, 1:00pm-5:00pm EST

The OHDSI Africa Chapter will host a workshop at the 2023 OHDSI Global Symposium on Sunday, October 22, 2023, 1:00 PM – 5:00 PM. In-person attendance is strongly encouraged, but should you be unable to travel, a meeting link will be posted at the OHDSI Africa Chapter Teams site to join virtually.

The OHDSI Africa Chapter aims to increase the inclusion of African databases and African health science and informatics research into the global OHDSI community. Membership includes 90 people from at least 12 African countries and 12 non-African countries. We hold a Teams meeting every other Monday, 10 AM EDT. Typical discussion topics are how best to present the value of doing an OMOP ETL to government officials, database owners and researchers, what are the common platforms used in Africa for health data collection and representation, funding and training opportunities, data science meetings/conferences, health topics and use cases that are a priority in Africa, such as tuberculosis, malaria, antimicrobial resistance, perinatal research and automating creation of mandatory periodic reports to funders and public health agencies.

Many pregnancy-related surveys have been conducted in the past with tens of thousands of cases. There is keen interest in converting the data to the OMOP CDM so that these data can be re-used in network studies and/or compared to RWD from EHRs. To facilitate that work, this workshop will be devoted to mapping common concepts in pregnancy surveys to OMOP tables, domains, and standard vocabulary concepts. This exercise should be of interest to anyone interested in pregnancy research, how to convert retrospective survey data to the OMOP CDM, and handling concepts that may be unique to a particular geographic region.

Eye Care and Vision Research at the Global Symposium

When: Sunday, October 22, 1:00pm-5:00pm EST

The OHDSI Global Symposium is rapidly approaching—it's October 20 – 22 in East Brunswick, New Jersey. The conference will include the collaborator showcase (presentations and posters of research done in the OHDSI community, including a presentation about the Eye Care and Vision Research workgroup!), updates and discussions about OHDSI, an OMOP tutorial, and workgroup meetings.

At the Eye Care and Vision Research workgroup meeting on Sunday, Oct. 22, we will be discussing the prioritization of elements to be added to the OMOP CDM and USCDI + Eye, as well as starting discussions about ophthalmic imaging integration . We will conclude with discussions about specific use cases/network studies for standardized EHR data and imaging. Hope you will join us!

Here's the link for the symposium page with details about the program, registration, venue, etc.: https://www.ohdsi.org/ohdsi2023/

Please note that all attendees must register for the symposium in order to sign up for the workgroup meeting.

Agenda

1. Prioritize ophthalmic exam elements for standardization
   a. OMOP CDM
   b. USCDI+Eye
2. Discussion of ophthalmic imaging metadata to store in OMOP
   a. Consider list of DICOM tags for each modality
   b. Review literature & clinical trials to prioritize common measurements used in research, clinical care
3. Use cases /network studies
   a. Examples of studies
   i. Vanilla OMOP
   ii. Adding eye exam data
   iii. Adding imaging

b. Discussion of strategy of use cases for demonstrating value of a network of standardized data
c. Consider other studies using OMOP datasets such as All of Us, UK Biobank

Health Analytics Data-to-Evidence Suite (HADES) Hackathon

When: Saturday, October 21, 8:00am-12:00pm and Sunday, October 22, 1:00pm-5:00pm EST

During the HADES hackathon, participants will work on the HADES codebase with support from several HADES maintainers. Participants can work in groups, and we welcome both new and experienced contributors to join. Part 1 takes place Saturday morning and Part 2 takes place Sunday afternoon.

Target audience: Developers interested in working on the HADES codebase. Some experience in R is recommended.

Healthcare Systems Interest Group (HSIG) Global Symposium meeting
When: Sunday, October 22, 1:00pm-5:00pm EST

The Healthcare System Interest Group will host an in-person meeting at the 2023 OHDSI Global Symposium on Sunday, October 22, 2023 from 1pm – 5pm.

EHR data and the OMOP CDM: The Healthcare System Interest Group (HSIG) will hold a 4-hour interactive lecture at the OHDSI symposium this fall. The goal of the HSIG is to support health systems on their OHDSI journey. And the first step in this journey is converting your source data to the OMOP CDM.

**We'll be sharing the tribal knowledge that gets passed down in the one off conversations, the WG meeting you didn't attend or knowledge gained the old fashioned way of trudging through a mountain of source data we did the trudging, so you don't have to do it! Teamwork makes the dream work!*

The target audience consists of the decision makers, data analysts, and ETL developers working with EHR data. We will focus on content, not the technical aspects of an implementation. This class does not replace or cover the content found in the 'OMOP CDM and Standardized Vocabulary' or 'OMOP CDM ETL' classes. It is complimentary to those classes and specific to those with non-claims data.

Main ideas include:

- Business case for OMOP CDM adoption. **Guest speaker: @Paul_Nagy**
- How and why you should fully define your use case before converting data.
- Resources! Where they are and how to access.
- The intricacies of source data analysis. This is not a "lift and shift" transformation.
- Custom semantic mapping your free text data, source data "gotchas", documentation, and special considerations OMOPing EHR data.
- Testing the transformation.
- Are we there, yet? Yes! How to participate in network studies, collaborate with other OMOP CDM sites and do your own research. **Guest speaker: @krfeeney**

HL7 FHIR-OMOP Connectathon
When: Sunday, October 22, 8:00am-5:00pm EST

One of the commitments we made as a Working Group for 2023 is hosting a hands-on, community participation event as a means to generate a draft specification for OMOP + FHIR transformations. The focus for the day's activities will be generation of bi-directional transformations between OMOP and FHIR. We will crowdsource transformations of synthetic, core EHR data by utilizing tools generously provided by Evidentli, and the University of North Carolina. The systems provided do not require coding nor ETL experience, so participants from all backgrounds and any technical experience are welcome. Our agenda follows:

8:00- 10:00a	Welcome / Agenda review • Piano Workflow demo Dr. Guy Tsafnat Founder & Chief Science Officer, Evidentli • CAMPFHIR workflow demo Adam Lee, Research Application Specialist University of North Carolina North Carolina Clinical and Translational Science Institute
10:00 - Noon	Hands-on transformations
Noon - 1:00p	LUNCH BREAK
1:00 - 2:00p	Preliminary OMOP -> FHIR Results / FHIR RESTful query demonstration Jean Duteau, HL7 Technical Steering Committee Co-chair HL7 Biomedical Research & Regulation Working Group Co-Chair Vulcan FHIR Accelerator Technical SME
2:00 - 4:00p	Hands-on transformations
4:00 - 5:00p	Wrap-up, Next steps

Registered participants will be provided (minimal) system requirements and instruction in advance of the Symposium to minimize start-up time in the morning. But we will kick-off the day with a brief demonstration of the functionality and workflow on each platform. A graphical overview of our Connectathon workflow can be viewed here. After lunch we will provide a brief instruction session on FHIR, using some of the transformations we generated in the morning session. The data we both started with and generate during the day will be preserved to support one or more follow-up Connectathons and generation of an HL7 Implementation Guide.

Do you have questions? Please reach out to Guy Tsafnat guyt@evidentli.com or Davera Gabriel davera@jhu.edu We are looking forward to working with you!

ISPE RWE for Pharmacovigilance
When: Sunday, October 22, 1:00pm-5:00pm EST
Details to come

Medical Devices Workgroup at the Global Symposium
When: Sunday, October 22, 1:00pm-5:00pm EST

Medical Device Working Group will host an in-person meeting at the 2023 OHDSI Global Symposium on Sunday, October 22, 2023 from 1pm – 5pm.

Our meeting will focus on two large areas: prototype device table for CDM and ideas for next year's activity.

1. Device table for CDM – please check the current device exposure table in the OMOP v5.4, and the FHIR DeviceDefinition resource as a starting point.
2. Brain storming for the year 2024 activities.

Who should come:

Please come if

you work on medical devices using OMOP or FHIR using HER data
somewhat familiar with data modeling and FHIR resources
are interested in learning more about the group

What to bring:

Bring your ideas, computer, paper and pen, maybe some snack to share!

Psychiatry Workgroup at the Global Symposium
When: Sunday, October 22, 1:00pm-5:00pm EST

1) Mature the approach for integrating questionnaire data into OMOP
   - Current needs in the community
   - Prior work on Survey_Conduct table in OMOP v6.0
   - What to if anything about FHIR
   - Psychiatry WG and UK BioBank

2) Develop strategy to promote awareness of resources developed in Psychiatry WG

3) Develop approach for community validation of proposed Psychiatry vocab

Vocabulary Working Group at the Global Symposium
When: Sunday, October 22, 1:00pm-5:00pm EST

Our meeting will focus on two large areas: community contribution and mappings.
We will go over community use cases and come up with potential solutions, approaches, and recommendations.
Use cases include:

- Everything that can be contributed through our current community contribution approach: new source vocabularies, new concepts, fixing mappings and errors in domains, adding mappings, etc. More information here: https://github.com/OHDSI/Vocabulary-v5.0/wiki/Community-contribution-guidelines:-non%E2%80%90drug-vocabularies

- Mapping your source drug vocabularies and adding them to Athena. More information here: https://github.com/OHDSI/Vocabulary-v5.0/wiki/Community-contribution-guidelines:-drug-vocabularies

- Adding new concepts and vocabularies to your local instance
- Mapping your source codes and vocabularies more efficiently
- Updating and/or developing existing vocabularies

Who should come:
Please come if

- you have anything you want to add to the OHDSI Standardized Vocabularies/Athena
- have bugs and errors you saw and want to get fixed
- need help with mappings
- don't know which vocabulary to use or how to use it
- have thoughts or suggestions about Vocabularies process, QA, delivery, or distribution
- have any questions.

What to bring:
Bring your vocabularies, mappings, use cases, questions, comments, concerns, and a cup of your favorite beverage!

2023 Poster Presentations

Odd-numbered posters will be presented during the collaborator showcase Friday 2:45pm to 3:30pm and Saturday 12:00pm-1:00pm

Even-numbered posters will be presented during the collaborator showcase Friday 4:15pm to 5:00pm and Sunday 12:00pm-1:00pm

OBSERVATIONAL DATA STANDARDS & MANAGEMENT (#s 2-43)		
2	FinOMOP - a population-based data network	Javier Gracia-Tabuenca, Perttu Koskenvesa, Pia Tajanen, Sampo Kukkurainen, Gustav Klingstedt, Anna Hammais, Persephone Doupi, Oscar Brück, Leena Hakkarainen, Annu Kaila, Marco Hautalahti, Toni Mikkola, Marianna Niemi, Pasi Rikala, Simo Ryhänen, Anna Virtanen, Arto Mannermaa, Arto Vuori, Joanne Demmler, Eric Fey, Terhi Kilpi, Arho Virkki, Tarja Laitinen, Kimmo Porkka
3	From OMOP to CDISC SDTM: Successes, Challenges, and Future Opportunities of using EHR Data for Drug Repurposing in COVID-19	Wesley Anderson, Ruth Kurtycz, Tahsin Farid, Shermarke Hassan, Kalynn Kennon, Pam Dasher, Danielle Boyce, Will Roddy, Smith F. Heavner
4	Augmenting the National COVID Cohort Collaborative (N3C) Dataset with Medicare and Medicaid (CMS) Data, Secure and Deidentified Clinical Dataset	Stephanie Hong, Thomas Richards, Benjamin Amor, Tim Schwab, Philip Sparks, Maya Choudhury, Saad Ljazouli, Peter Leese, Amin Manna, Christophe Roeder, Tanner Zhang, Lisa Eskenazi, Bryan Laraway, James Cavallon, Eric Kim, Shijia Zhang, Emir Amaro Syailendra, Shawn O'Neil, Davera Gabriel, Sigfried Gold, Tricia Francis, Andrew Girvin, Emily Pfaff, Anita Walden, Harold Lehmann, Melissa Haendel, Ken Gersing, Christopher G Chute
5	Integrating clinical and laboratory research data using the OMOP CDM	Edward A. Frankenberger, Chun Yang, Vamsidhar Reddy Meda Venkata, Alyssa Goodson
6	Development of Medical Imaging Data Standardization for Imaging-Based Observational Research: OMOP Common Data Model Extension	Woo Yeon Park, Kyulee Jeon, Teri Sippel Schmidt, Haridimos Kondylakis, Seng Chan You, Paul Nagy
7	Conversion of a Myositis Precision Medicine Center into a Common Data Model: A Case Study	Zachary Wang, Will Kelly, Paul Nagy, Christopher A Mecoli

8	Implementing a common data model in ophthalmology: Comparison of general eye examination mapping to standard OMOP concepts across two major EHR systems	Justin C. Quon, William Halfpenny, Cindy X. Cai, Sally L. Baxter, Brian C. Toy
9	Enhancing Data Quality Management: Introducing Capture and Cleanse Modes to the Data Quality Dashboard	Frank DeFalco, Clair Blacketer
10	"OMOP Anywhere": Daily Updates from EHR Data Leveraging Epic's Native Tools	Mujeeb A Basit, Mereeja Varghese, Aamirah Vadsariya, Bhavini Nayee, Margaret Langley, Ashley Huynh, Jennifer Cai, Donglu Xie, Cindy Kao, Eric Nguyen, Todd Boutte, Shiby Antony, Tammye Garrett, Christoph U Lehmann, Duwayne L Willett
11	A Toxin Vocabulary for the OMOP CDM	Maksym Trofymenko, Polina Talapova, Tetiana Nesmiian, Andrew Williams, Denys Kaduk, Max Ved, Inna Ageeva
12	Challenges and opportunities in adopting OMOP-CDM in Brazilian healthcare: a report from Hospital Israelita Albert Einstein	Maria Abrahao, Uri Adrian Prync Flato, Mateus de Lima Freitas, Diogo Patrão, Amanda Gomes Rabelo, Cesar Augusto Madid Truyts, Gabriela Chiuffa Tunes, Etienne Duin, Gabriel Mesquita de Souza, Soraya Yukari Aashiro, Adriano José Pereira, Edson Amaro
13	Transforming the Optum® Enriched Oncology module to OMOP CDM	Dmitry Dymshyts, Clair Blacketer
14	Mapping Multi-layered Oncology Data in OMOP	John Methot, Sherry Lee
15	Development of psychiatric common data model (P-CDM) leveraging psychiatric scales	Dong Yun Lee, Chungsoo Kim, Rae Woong Park
16	Brazilian administrative data for real-world research: a deterministic linkage procedure and OMOP CDM harmonization	Jessica Mayumi Maruyama, Julio Cesar Barbour Oliveira
17	Integration of Clinical and Genomic Data Mapped to the OMOP Common Data Model in a Federated Data Network in Belgium	Tatjana Jatsenko, Murat Akand, Joris Robert Vermeesch, Dries Rombaut, Michel Van Speybroeck, Martine Lewi , Valerie Vandeweerd
18	Opportunity and Challenge of Implementing the OHDSI System in Indonesia	Dian Tri Wiyanti, Daniel C.A. Nugroho, Yudha Eri Saputra, Septi Melisa, Phan Thanh-Phuc, Nguyen Phung-Anh, Jason C. Hsu, Min-Huei Hsu
19	Toward a General-Purpose Geography-Focused OHDSI Infrastructure	Kyle Zollo-Venecek, Robert Miller, William G. Adams, Jay Greenfield, Timothy B Norris, Polina Talapova, Maksym Trofymenko, Andrew Williams
20	Implementing the OMOP common data model in an NHS Trust using DBT	Quinta Ashcroft, Timothy Howcroft, Dale Kirkwood, Jo Knight, Vishnu V Chandrabalan
21	Conversion of the Canadian Observational Study on Epilepsy (CANOE) REDCap Registry to the OMOP Common Data Model	Danielle Boyce, Colin Bruce Josephson, Ray Jiang, Samuel Wiebe

22	Assessing data quality at DARWIN EU® data partner onboarding	Sofia Bazakou, Anna van Winzum, Maxim Moinat
23	Bladder cancer - a quality benchmark utilizing FHIR and OMOP	Andries Clinckaert, Valerie Vandeweerd, Murat Akand, Charlotte De Vlieghere, Bart Vannieuwenhuyse, Michel Van Speybroek, Frank Van der Aa, Martine Lewi, Christos Chatzichristos
24	Jackalope Plus: AI-Enhanced Solution for Mapping Unmappable Concepts	Denys Kaduk, Marta Vikhrak, Polina Talapova, Eduard Korchmar, Inna Ageeva , Max Ved
25	Make Your Tools Work for You: Customizing the Data Quality Dashboard to Identify Changes in Source Data	Melanie Philofsky
26	The Feasibility of Clinical Quality Language (CQL) Based Digital Quality Measures (dQMs) Implementation to OMOP CDM (Work in Progress)	Emir Amaro Syailendra, Woo Yeon Park, Ben Hamlin, Paul Nagy
27	Harmonization of OMOP vaccine-related vocabularies through the Vaccine Ontology	Yuanyi Pan, Warren Manuel, Rashmie Abeysinghe, Xubing Hao, Alexander Davydov, Qi Yang, Asiyah Yu Lin, Licong Cui, Yongqun Oliver He
28	Demonstrating Scalable Integration of Clinical, Translational, and Manufacturing Data to Explore Role of Manufacturing Approach in Driving Health Outcomes	Ben Smith, Trent Peterson, Jessica Manzyuk
29	Community Contribution to the OHDSI Vocabularies: moving towards collaborative shared resource	Oleg Zhuk, Anna Ostropolets, Alexander Davydov, Christian Reich
30	A new route of administration hierarchy derived from dose forms supporting standardised drug dose calculations	Theresa Burkard, Artem Gorbachev, Kim Lopez-Güell, Daniel Prieto-Alhambra, Martí Català, Christian Reich
31	Developing a perinatal expansion table for the OMOP common data model	Alicia Abellan, Edward Burn, Nhung Trinh, Theresa Burkard, Sergio Fernández-Bertolín, Eimir Hurley, Clara Rodriguez, Elena Segundo, Daniel R. Morales, Hedvig Nordeng, Talita Duarte-Salles
32	Comparing Patient Self-Reported Symptoms with SNOMED/ICD-10-CM Codes at Primary Care Visits	Victor M. Castro, Danielle M. Crookes, Vivian Gainer, Shawn N. Murphy, Justin Manjourides
33	Making NLP-derived data actionable within the OHDSI ecosystem	Michael Gurley, Kyle Zollo-Venecek, Andrew Williams, Daniel Smith, Robert Miller, Vipina Kuttichi Keloth, Hua Xu
34	Sirius tool: Conversion of clinical study data into OMOP model and implementation of data quality monitoring of wearable sensor data	Vojtech Huser, Esteve Verdura, Michael Lubke, Bhavna Adhin
35	Application of language model for extracting data from pathology reports	Gyubeom Hwang, Min-Gyu Kim, Min Ho An, Rae Woong Park
36	Open-Source Tools and Terminology to Increase Representativeness in OHDSI Data	Andrew S. Kanter
37	Mining Data Outside the Box: Internet as a New Source for Common Data Model	Min-Gyu Kim, Min ho An, GyuBeom Hwang, Rae Woong Park

38	Operational Definition of Adrenal diseases: Enhancing Precision and Reproducibility in Observational Data	Suhyun Kim, Seung Shin Park, Seung hun Lee, Kwangsoo Kim, JungHee Kim
39	Mapping Dental Use Cases to the OMOP-CDM: Vocabulary and Common Data Model Evaluation	Robert Koski, Gopikrishnan Chandrasekharan, William D. Duncan
40	Using MONAI Pre-Trained Models for Colorectal Tissue Type Phenotyping: A Feasibility Study to Integrate Deep Learning Model Results using the Medical Extension OMOP CDM	Shijia Zhang, Woo Yeon Park, Blake Dewey, Paul Nagy
41	Streamlining Cytogenetic Data Processing with ISCN Parsing and OMOP	Ben Smith, Trent Peterson, Jessica Manzyuk
42	Mapping gravity value sets to OMOP CDM: The case of the food insecurity screening	Adam Bouras, Davera Gabriel
43	Making OMOP Happen: An Implementation Science Approach	Maya Younoszai, Pam Dasher, Danielle Boyce, Smith Heavner
METHODOLOGICAL RESEARCH (#s 101-133)		
101	The Development and Validation of an Individual-Level Socioeconomic Deprivation Index (ISDI) with OMOP in the NIH's *All of Us* Data Network	Nripendra Acharya, Karthik Natarajan
102	Towards rapid augmented phenotyping using large language models	Juan M. Banda, Azza Shoaibi, Gowtham Rao, Evan Minty, Christophe Lambert, Joel Swerdel, Christian Reich, George Hripcsak, Patrick Ryan
103	Measuring Study Potential Through the Use of Data Diagnostics	Clair Blacketer, Frank DeFalco
104	Estimating Observable Time in the Absence of Defined Enrollment	Clair Blacketer, Patrick Ryan, Frank DeFalco, Martijn Schuemie, Peter Rijnbeek
105	Estimating model performance on external data sources from their summary statistics: a real-world benchmark	Tal El-Hay, Jenna M Reps, Chen Yanover
106	Integrating large language models and real-world evidence into an automated drug indication taxonomy development workflow	Yilu Fang, Chunhua Weng, Patrick Ryan
107	Bayesian sparse logistic models in patient-level predictive studies with the R package PatientLevelPrediction	Kelly Li, Jenna Reps, Marc Suchard
108	Developing a pregnancy algorithm in ATLAS: Applying start date offset	Rupa Makadia, Christopher Knoll, Patrick Ryan
109	Evaluating confounding adjustment when sample size is small	Martijn Schuemie, Marc A. Suchard, Akihiko Nishimura, Linying Zhang, George Hripcsak
110	Assessment of Pre-trained Observational Large Longitudinal models in OHDSI (APOLLO)	Martijn Schuemie, Yong Chen, Egill Fridgeirsson, Chungsoo Kim, Jenna Reps, Marc Suchard, Xiaoyu Wang, Chao Pang
111	Bayesian Evidence Synthesis with Bias Correction	Louisa H. Smith, Fan Bu, Akihiko Nishimura, Kristin Kostka, Jody-Ann McLeggon, Patrick B. Ryan, George Hripcsak, David Madigan, Marc A. Suchard
112	Examining differential measurement error due to race, age, and sex in mental health disorders using PheValuator	Joel Swerdel, Dmytro Dymshyts

113	An initial investigation into more complex stacking methods to improve transportability of prediction models developed across multiple databases	Cynthia Yang, Egill A. Fridgeirsson, Jan A. Kors, Jenna M. Reps, Peter R. Rijnbeek, Ross D. Williams, Jenna Wong
114	Assessing the Feasibility of a Machine Learning-Based Computational Phenotype for Identifying Transgender and Gender Diverse Patients in the OMOP Common Data Model	William A. Baumgartner Jr., Tyler Strickland, Danielle M. Kline, Abby M. Pribish, Molly McCallum, Amanuail Gebregzabheir, Dani Loeb, Lisa M. Schilling
115	Demonstrating Utility of the Edge Tool Suite through Clinical Trial Emulation	Ruth Kurtycz, Wesley Anderson, Allan J. Walkey, Kerry A. Howard, Smith F. Heavner
116	Agreement between measurement and diagnosis-based phenotype algorithms	Azza Shoaibi, Gowtham Rao, Dmytro Dymshyts, Anna Ostropolets, Patrick Ryan
117	Developing phenotypes across pregnant persons and infants: Utilizing pregnancy episode identification and mother-infant linkage algorithms to define outcomes	Rupa Makadia, Jill Hardin, Kevin Haynes, Dave Kern, Amir Sarayani, Melanie Jacobson
118	Using Cohort Diagnostics to Assess the Phenotypic Data Quality in All of Us Research Program	Lina Sulieman, Karthik Natarajan
119	A distributed multi-site latent class analysis (dMLCA) algorithm for federated disease subphenotype detection	Naimin Jing, Xiaokang Liu, Qiong Wu, Suchitra Rao, Asuncion Mejias, Mitchell Maltenfort, Julia Schuchard, Vitaly Lorman, Hanieh Razzaghi, Ryan Webb, Chuan Zhou, Ravi Jhaveri, Grace M. Lee, Nathan M. Pajor, Deepika Thacker, L. Charles Bailey, Christopher B. Forrest, and Yong Chen
120	Forecasting Daily Incidence of Respiratory Symptoms: A Comparative Study on Time Series Models using OMOP-CDM in South Korea	Min Ho An, Min-Gyu Kim, GyuBeom Hwang, ByungJin Choi, Rae Woong Park
121	Validating a clinical informatics consulting service using negative control reference sets	Michael Jackson, Saurabh Gombar, Raj Manickam, Robert Brown1, Ramya Tekumalla, Yen Low
122	Enhancing Precision and Validity: Leveraging Multiple Error-Prone Phenotypes in EHR-Based Association Studies	Yiwen Lu, Jiayi Tong, Rebecca A Hubbard, Yong Chen
123	Evaluation of Study Execution using Large-Scale Analytics: A Machine Learning Approach to Assess Pre-Exposure Prophylaxis (PrEP) Utilization in the Real-World	Nag Mani, Xiwen Huang, Li Tao, Hu Li
124	Modeling Decisions and Heterogeneity in Defining Aortic Diseases: Implications for Observational Studies and Phenotype Characterization	Evan Minty, Jack Janetzki, James P. Gilbert, Jung Ho Kim, Jung Ah Lee, Elsie Ross, Nicole Pratt, Gowtham Rao, Seng Chan You
125	Utilizing Graph Embeddings for Multiple Sclerosis Disease Modifying Therapy Adverse Events	Jason Patterson
126	Comparing Penalization Methods for Linear Models on Large Observational Health Data	Egill A. Fridgeirsson, Ross D. Williams, Peter Rijnbeek, Marc Suchard, Jenna Reps
127	The necessity of validity diagnostics when drawing causal inferences from observational data	James Weaver, Erica A Voss, Guy Cafri, Kathleen Beyrau, Michelle Nashleanas, Robert Suruki

128	External validation using clinical domain knowledge from the SNOMED medical terms hierarchy	LH John, EA Fridgeirsson, JA Kors, JM Reps, PR Rijnbeek
129	Creating parsimonious patient-level prediction models using feature selection	Aniek F. Markus, Egill A. Fridgeirsson, Ross D. Williams
130	Confidence Score: A Data-Driven Measure for Inclusive Systematic Reviews Considering Unpublished Preprints	Jiayi Tong, Chongliang Luo, Yifei Sun, Rui Duan, M. Elle Saine, Lifeng Lin, Yifan Peng, Yiwen Lu, Anchita Batra, Anni Pan, Olivia Wang, Ruowang Li, Arielle Anglin, Yuchen Yang, Xu Zuo, Yulun Liu, Jiang Bian, Stephen E. Kimmel, Keith Hamilton, Adam Cuker, Rebecca A. Hubbard, Hua Xu, Yong Chen
131	Creation of a set of clinical Patient-Level Prediction benchmark tasks	Ross D. Williams, Solomon Ioannou, Evan Minty, Jenna M. Reps
133	Incorporating measurement values into patient-level prediction with missing entries: a feasibility study	Xiaoyu Wang, Jenna Reps, Anthony Sena, James P. Gilbert, Marc A Suchard
	OPEN-SOURCE ANALYTICS DEVELOPMENT (#s 201-218)	
201	Framework and Implementation of an OMOP-Oriented Clinical Data Warehouse Using Databricks	Jared Houghtaling, Kyrylo Simonov, Kyle Zollo-Venecek, Elina Hadelia, Manlik Kwong, Polina Talapova, Clark Evans, Robert Miller, Andrew E. Williams
202	Unleashing Community-Wide Research Potential: OHDSI Lab 2.0 – Empowering Scientists, Eliminating IT Hassles	Kristin Kostka, David Madigan, Christian Reich, Asieh Golozar, Brianne Olivieri-Mui, Daniel Pitch, Justin Manjourides, Aleksei Gorodetskii, Deepa Reddy, Juan Carlos Ňamendi Pineda, Osmar Benevidez, Konstantin Yaroshovets, Peter Berzin, Gregory Klebanov
203	Save Our Sisyphus Challenge: Lessons learned from Strategus execution on the OHDSI Network	Anthony G. Sena, Jenna Reps, Chungsoo Kim, Jack Brewster, Adam Black, Linying Zhang, Thomas Falconer, George Hripcsak, Cindy X. Cai, Michael Cook, Phan Thanh Phuc, Jason C. Hsu, Phung-Anh Nguyen, Muhammad Solihuddin Muhtar, Brian Toy, Zachary Gilbert, Xiaoyu Lin, Jing Li, Sarah Seager, Yeonjae Han, Seng Chan You, Scott L. DuVall, Marc A. Suchard
204	Using a Continuous Quality Improvement (CQI) Approach for Gap Analysis of OHDSI/ATLAS as An Enterprise Self-Service Analytics Platform by Academic Medical Centers	Selvin Soby, Pavel Goriacko, Jimmy John, Pavan Parimi, Erin M. Henninger, Parsa Mirhaji
205	Refactoring OHDSI cohort queries for performance: lessons from VA study participation	Benjamin Viernes, Marc A. Suchard, Patrick R. Alba, Katherine R. Simon, Michael E. Matheny, Scott L. DuVall
206	Demonstration of the OHDSI phenotype library	Gowtham Rao

207	A proposal for composite concept sets	Sigfried Gold, Joe Flack, Harold P Lehmann, Lisa Eskenazi, Xiaohan Tanner Zhang, Stephanie Hong, Richard L. Zhu, Christopher G. Chute
209	Exporting and Running OHDSI Generated Cohort Definitions in a Secure Enclave	Janos Hajagos
210	A Novel Approach to Matching Patients to Clinical Trials Using the OMOP Common Data Model	Jimmy John, Parsa Mirhaji, Surbhi Obeja, Boudewijn Aasman, Nina Bickell,Bruce Rapkin,Erin Henninger Pavel Goriacko, Selvin Soby
211	Making OHDSI Tooling accessible to Researchers and Students in a HIPAA Compliant Platform	Hannah Morgan-Cooper, Adam Black, Behzad Naderalvojoud, Evan Minty, Priya Desai
212	Polyphemus: Personalized Open-Source Language Models for Yielding Precise Health-Enhancing Medical Understanding and Support	Hayden Spence
213	The Use of the Julia Programming Language for Global Health Informatics and Observational Health Research	Jacob Zelko, Varshini Chinta, Malina Hy, Fareeda Abdelazeez
214	Building community, infrastructure, and insights for perinatal and reproductive health research in OHDSI	Alison Callahan, Stephanie Leonard, Louisa Smith
216	OHDSI on Databricks: A Complete Guide to Implementing OHDSI on Databricks	John Gresh, Brad Rechkemmer
217	OHDSI Network Study Execution Framework and Templating	Ben Martin, Cindy Cai, Asieh Golozar, Paul Nagy
218	A use case of OHDSI ATLAS in a high-throughput genome wide association study pipeline	Craig C. Teerlink, Hamid Saoudian, Richard Boyce, Philip S. Tsao, Kyle M. Hernandez, Victoria Zaksas, Pieter Lukasse, Andrew Prokhorenkov, Noah Metoki-Shlubsky, Robert L. Grossman, Scott L Duvall
CLINICAL APPLICATIONS (#s 301-337)		
301	Patient-centered Economic Burden of Non-proliferative Diabetic Retinopathy with Diabetic Macular Edema	Kyungseon Choi, Sang Jun Park, Hyuna Yoon, Hae Sun Suh
302	Enabling Innovation at the Bedside using STARR-OMOP	Priya Desai, Alison Callahan, Juan M. Banda, Nikesh Kotecha, Shreya Shah, Somalee Datta
303	HowOften: Large Scale Incidence Rate Calculation of Every Side Effect for Every Drug	Elise Ruan, Karthik Natarajan, Ruijun Chen, Jungmi Han, Mark Velez, Taha Abdul-Basser, Edwin M. Cruz, Cindy Hsin-Yi Chen, Patrick Ryan, George Hripcsak
304	Postnatal growth deficiency and neurodevelopmental delay phenotypes to study drug safety during pregnancy	Amir Sarayani, Jill Hardin, Melanie Jacobson, Rupa Makadia, Joel Swerdel, Kevin Haynes, David Kern
305	Treatment pattern of osteoporosis in postmenopausal women using OMOP CDM	Dachung Boo, Seungjin Baek,Namki Hong, Yumie Rhee, Seng Chan You

306	Estimating the comparative risk of kidney failure associated with intravitreal anti-vascular endothelial growth factor (anti-VEGF) exposure in patients with blinding diseases	Cindy X. Cai, Mary Grace Bowring Diep Tran, Paul Nagy, Michael Cook, Akihiko Nishimura, Jia Ng, Marc A. Suchard, Scott L. DuVall, Michael Matheny, Asieh Golozar, Anna Ostropolets, Evan Minty, Fan Bu, Brian Toy, Will Halfpenny, Michelle Hribar, Jody-Ann McLeggon, Thomas Falconer, Linying Zhang, Laurence Lawrence-Archer, George Hripcsak
307	Comorbidity Co-occurrence in Women with Endometriosis: A Retrospective Matched Cohort Study	Tamar Zelovich, Vered Klaitman-Mayer, Chen Yanover
308	Data-driven assessment of mental health among children and adolescents with food allergy	Natalie Flaks-Manov, Inbal Goldshtein, Chen Yanover
309	From Complexity to Clarity: Reproducible and Scalable Phenotype Development and application of LLM in a support role.	Asieh Golozar, Albert Prats Uribe, Tom Seinen, Dani Prieto-Alhambra, Peter Rijnbeek, Christian Reich
310	Mother-Infant Linked Data: Methodology, Case Studies, and Cohort Development for Investigating Prenatal Exposure and Neonatal Outcomes	Jill Hardin, Alexis Krumme, David Kern, James Weaver, Clair Blacketer
311	Developing a Personalized Clinical Decision Support System for Statin Therapy for Primary Prevention using OMOP-CDM and Deep Learning Techniques	Su Min Kim, Ju-Hyeon Kim, Yunjin Yum, Eunbeen Jo, Jose Moon, Jong-Ho Kim, Yong Hyun Kim, Eung Ju Kim, Hyung Joon Joo
312	Observational Research in Dentistry: A Scoping Review	Robert Koski, Danielle Boyce, Brock Johnson, Adam Bouras, Swetha Kiranmayi Jakkuva
313	Impact of concomitant use of proton pump inhibitors and clopidogrel on cardiovascular adverse outcomes - A multicenter study using common data model	Seonji Kim, Kyung Joo Lee, Seng Chan You, Seung In Seo
314	Improving the detection of behavioral health conditions through positive and unlabeled learning: opioid use disorder	Praveen Kumar, Christophe G. Lambert
315	Prediction of Hospital Length of Stay for Planned Admissions Using OMOP CDM	Haeun Lee, Seok Kim, Hui-Woun Moon, Se Young Jung , Ho-Young Lee, Sooyoung Yoo
316	Antihypertensive medication use in pregnancy: A pilot OHDSI network analysis in electronic health record data	Stephanie A. Leonard, Louisa H. Smith, Sara Siadat, Karthik Natarajan, Brian T. Bateman, Thomas Falconer, John DiPalazzo, Alison Callahan
317	Phenotype Development for Neonatal Hypoxic Ischemic Encephalopathy Using Electronic Health Record and Claims Datasets	Star Liu, Tony Widenor, Danielle Boyce, Gowtham Rao, Evan Minty, Khyzer Aziz
318	Using Contrastive Principal Component Analysis to Identify Post-acute Sequelae of SARS-CoV-2 Infection Subphenotypes	Xiaokang Liu, Yishan Shen, Naimin Jing, Christopher B. Forrest, Yong Chen
319	Large variety Country size RWD data-lake	Guy Livne, Keren Rosenstein, Atif Adam, Milou Brand, Nikolai Grewe, Ludovica Ancora, Nathan Japhet

320	Socioeconomic factors in predictive models: Understanding COVID-19 in Brazil, and in other highly unequal societies	Valentina Martufi, Renzo Flores-Ortiz, Priscilla Normando, Vinicius A. Oliveira, Maria Yury Ichihara, Mauricio L. Barreto, Elzo P. P. Júnior
321	Identification of HIV positive individuals across multiple datasets	Craig Mayer
322	Trend in Prescription Pattern in Heart Failure Medications	Septi Melisa, Christianus Heru Setiawan, Daniel C.A. Nugroho, Muhammad Solihuddin Muhtar, Dian Tri Wiyanti, Phan Thanh-Phuc, Nguyen Phung-Anh, Jason C. Hsu
323	Characteristics Associated with Persistent Opioid Use Following Total Joint Arthroplasty	Aurora Quaye, Janelle Richard, Henry Stoddard, Robert Krulee, Blaire Beers-Mulroy, Kristin Kostka, John DiPalazzo
324	Unraveling the Mediating Role of Frailty: Understanding Health Care Utilization among Older Sexual and Gender Minority Adults in the All of Us Research Program	Chelsea N Wong, Louisa H Smith, Robert Cavanaugh, Brianne Olivieri-Mui
325	Characteristics and outcomes of over a million inflammatory bowel disease subjects in seven countries: a multinational cohort study	Chen Yanover, Ramit Magen-Rimon, Erica Voss, Joel Swerdel, Anna Sheahan, Nathan Hall, Jimyung Park, Rae Woong Park, Kwang Jae Lee, Sung Jae Shin, Seung In Seo, Kyung-Joo Lee, Thomas Falconer, Leonard Haas, Paul Nagy, Mary Bowring, Michael Cook, Steven Miller, Tal El-Hay, Maytal Bivas-Benita, Pinchas Akiva, Yehuda Chowers, Roni Weisshof
326	Validation and Comparison of Frailty Indexes: An OHDSI Network Study	Chen Yanover, Louisa Smith, Tal El-Hay, Brianne Olivieri-Mui, Maytal Bivas-Benita, Robert Cavanaugh, Pinchas Akiva, Chelsea N. Wong, Ariela Orkaby
327	Quantification of Symptom Documentation on Disease Diagnosis Date in Structured Claims Data: An Application of the OHDSI Phenotype Library	Gowtham A. Rao, Azza Shoaibi
328	Prediction of End Stage Renal Disease in Patients with Type 2 Diabetes Mellitus Patients Using Common Data Model and Machine Learning Algorithm	Hyuna Yoon, Kyungseon Choi, Sang Youl Rhee, Hae Sun Suh
329	Risk of aortic aneurysm or dissection following exposure to fluoroquinolone antibiotics	Jack L. Janetzki, Jung Ho Kim, Jung Ah Lee, Seng Chan You, Nicole L. Pratt
330	Establishing and Operating the OHDSI Dentistry Workgroup: A Model for Other Disciplines	Danielle Boyce, Robert Koski, Brock Johnson
331	Harnessing OHDSI's Framework for a Global Real-World Evidence Master's Degree Program	Justin Manjourides, Kristin Kostka, Christian Reich, Asieh Golozar
332	Incorporating Real-World Data Research in Training First-Year Medical Students Using OHDSI OMOP and Atlas tools	Pavel Goriacko, Parsa Mirhaji, Jimmy John, Pavan Parimi, Erin M. Henninger, Daniel Beiter, Rakin Islam, Daniel Chernovolenko, Selvin Soby

333	Analyzing a Tabloid Headline with Real-World Data: A Summer Intern's Investigation	Delia Harms, Kristin Kostka
334	Guidance for Communication of the OHDSI Network Study Approach with Institutional Review Boards	Ben Martin, Mary Grace Bowring, Paul Nagy
335	Real-world Effectiveness of BNT162b2 in Children and Adolescents in Preventing Infection and Severe Diseases with SARS-CoV-2 During the Delta and Omicron Periods	Qiong Wu, Jiayi Tong, Bingyu Zhang, Dazheng Zhang, Jie Xu, Yishan Shen, Lu Li, L. Charles Bailey, Jiang Bian, Dimitri A. Christakis, Megan L. Fitzgerald, Kathryn Hirabayashi, Ravi Jhaveri, Alka Khaitan, Tianchen Lyu, Suchitra Rao, Hanieh Razzaghi, Hayden T. Schwenk, Fei Wang, Margot I. Witvliet, Eric J. Tchetgen, Jeffrey S. Morris, Christopher B. Forrest, and Yong Chen
336	Telehealth Utilization for Diabetes Care Among Individuals with Medicare and Medicaid Coverage	Nick Williams
337	Quantifying Racial Disparities in Kidney Graft Failure Rates Using US Registry Data with Federated Learning Algorithms	Dazheng Zhang, Jiayi Tong, Xing He, Jiang Bian, Yong Chen

2023 Software Demonstrations

Odd-numbered demos will present during the collaborator showcase Friday 2:45pm to 3:30pm and Saturday 12:00pm-1:00pm

Even-numbered demos will present during the collaborator showcase Friday 4:15pm to 5:00pm and Sunday 12:00pm-1:00pm

OPEN-SOURCE ANALYTICS DEVELOPMENT		
401	Integrating ATLAS Cohorts with DICOM Images and ECG Waveforms to Enrich Real-World Evidence Research	Boudewijn Aasman, Selvin Soby, Adil Ahmed, Shweta Garg, Silvie Colman, Chandra has Nelapatla, Manuel Wahle, Parsa Mirhaji
402	A tool for empirically identifying and reviewing candidate comparators for Pharmacoepidemiological studies	Justin Bohn, Jamie P. Gilbert, Christopher Knoll, David M. Kern, Patrick B. Ryan
403	Leveraging the OMOP Common Data Model to Support Distributed Health Equity Research	Sarah Gasman, William G. Adams
404	Enhancing Data Characterization through Annotation	Frank DeFalco, Mikhail Iontsev, Clair Blacketer
405	Enhancing Comparator Selection in OHDSI studies using Cohort Subset Operations: A Software Demo of the CohortGenerator R HADES Package	James P Gilbert, Anthony Sena, Justin Boh, Chris Knoll, David Kern
406	Introducing KOIOS: removing impediments in genomic variant identification and mapping	Laurence Lawrence-Archer, Vlad Korsik, Varvara Savitskaya, Phani Kishore Davineni, John Methot, Asieh Golozar, Christian Reich
407	GUSTO Data Vault: Laying the foundations for an open science system with OMOP Data Catalogue	Cindy Ho, Li Ting Ang, Maisie Ng, Hang Png, Shuen Lin Tan, Estella Ye, Sunil Kumar Raja, Mengling Feng, Johan G Eriksson, Mukkesh Kumar
408	Ulysses: Introducing a workflow R package for assisting in the development of OHDSI studies	Martin Lavallee, Asieh Golozar
409	OMOP-to-BULK FHIR: A tool to convert population level clinical data into standardized FHIR batch data	Andrey Soares, Shahim Essaid, Michael G. Kahn
410	Expanding the OMOP Common Data Model in Accord with Federal Rules for Hospital Price Transparency and Transparency in Coverage	Jaan Altosaar Li, Jacob Zelko
411	Integration of Atlas into the Gen3 Data Commons Framework	Richard D Boyce, Craig C. Teerlink, Hamid Saoudian, Kyle M. Hernandez, Victoria Zaksas, Pieter Lukasse, Andrew Prokhorenkov, Noah Metoki-Shlubsky, Robert L. Grossman, Scott L. DuVall
412	DrugUtilisation: an R Package to implement Patient-level Drug Utilisation Studies analysis using the OMOP CDM	Kim Lopez-Guell, Yuchen Guo, Mike Du, Xintong Li, Ger Inberg, Therese Buckhard, Annika M. Jödicke, Artem Gorbachev, Daniel Prieto-Alhambra, Edward Burn, Martí Català

413	PDA-OTA: Privacy-preserving Distributed Algorithms Over the Air, an OHDSI journey	Yong Chen, Jiayi Tong, Chongliang Luo, Lu Li, Yiwen Lu, Hai-Shuo Shu
414	The OHDSI Analysis Viewer: Utilizing a suite of open-source packages and standardized tools in a unified platform for the interactive analysis of observational data	Nathan Hall, Jenna Reps, Jamie Gilbert
415	Using OMOP-CDM to Develop Dynamic Disease Registries and Analytic Data Enclaves to Share and Use Real-world Evidence	Erin M. Henninger, Selvin Soby, Manuel Wahle, Boudewijn Aasman, Pavel Goriacko, Chandra has Nelapatla, Reetam Nath, Parsa Mirhaji
416	Introducing ARTEMIS: Advanced Regimen Detection Using an Adapted Smith-Waterman Algorithm	Asieh Golozar, Laurence Lawrence-Archer, Travis Zack, Jeremy L. Warner, Christian Reich
417	Using the Informatics for Integrating Biology and the Bedside Platform to Query OMOP Data in the OHDSI Ecosystem	Jeffrey G. Klann, Griffin M. Weber, Michele Morris, Michael Mendis, Diane Keogh, Shawn N. Murphy
418	Utilizing ARACHNE Data Node and Execution Engine for Network Study execution	Gregory Klebanov, Alexey Manoylenko
419	Broadsea 3.0: "BROADening the ohdSEA"	Ajit Londhe, Lee Evans, Sanjay Udoshi
420	CohortSurvival: an R package for survival analysis using the OMOP CDM	Kim López-Güell, Marti Català, Danielle Newby, Ian Koblbauer, Xintong Li, Berta Raventós, Maria de Ridder, Talita Duarte-Salles, Dani Prieto-Alhambra, Edward Burn
421	Standardized Business Intelligence (BI) Dashboards with OMOP	Gregory Klebanov, Anna Ostropolets
422	Integration of Scalable Natural Language Processing to the Atlas Cohort Building Workflow	Pavan Parimi, Selvin Soby, Pavel Goriacko, Chandra has Nelapatla, Boudewijn Aasman, Manuel Wahle, Reetam Nath, Parsa Mirhaji
423	Criteria2Query 3.0 Powered by Generative Large Language Models	Jimyung Park, Yilu Fang, Chunhua Weng
424	PheMIME: An Interactive Web App and Knowledge Base for Phenome-Wide Multi-Institutional Multimorbidity Analysis	Siwei Zhang, Nick Strayer, Tess Vessels, Karmel Choi, Geoffrey Wang, Yajing Li, Cosmin Bejan, Ryan Hsi, Alexander Bick, Justin Balko, Douglas Johnson, Digna Velez Edwards, Michael Savona, Elizabeth Philips, Dan Roden, Jordan Smoller, Douglas Ruderfer, Yaomin Xu

2023 Lightning Talks

Lightning Talks 501 to 505 will be presented in the Grand Ballroom from 2:00pm to 2:45pm
Lightning Talks 506 to 510 will be presented in the Grand Ballroom from 3:30pm to 4:15pm

501	Mapping of Critical Care EHR Flowsheet data to the OMOP CDM via SSSOM	Polina Talapova, Andrew Williams, Nicolas Matentzoglu, Anna Ostropolets, Michael Kallfelz Presenter: Polina Talapova
502	Paving the way to estimate daily dose in OMOP CDM for Drug Utilisation Studies in DARWIN EU®	Theresa Burkard, Kim Lopez-Güell, Artem Gorbachev, Annika M Jödicke, Nuria Mercadé-Besora, Talita Duarte-Salles, Maria de Ridder, Mees Mosseveld, Dani Prieto-Alhambra, Christian Reich, Marti Catala Presenter: Theresa Burkard
503	Generating Synthetic Electronic Health Records in OMOP using GPT	Chao Pang, Xinzhuo Jiang, Nishanth Parameshwar Pavinkurve, Krishna S. Kalluri, Elise L. Minto, Karthik Natarajan Presenter: Chao Pang
504	Comparing concepts extracted from clinical Dutch text to conditions in the structured data	Tom M. Seinen, Jan A. Kors, Erik M. van Mulligen, Peter R. Rijnbeek Presenter: Tom M. Seinen
505	Finding a constrained number of predictor phenotypes for multiple outcome prediction	Jenna M Reps, Jenna Wong, Egill A. Fridgeirsson, Chungsoo Kim, Luis H. John, Ross D. Williams, Patrick Ryan Presenter: Jenna M. Reps
506	Synthesizing Evidence for Rare Events: a Novel Zero-Inflated Bivariate Model to Integrate Studies with Double-Zero Outcomes	Lu Li, Lifeng Lin, Haitao Chu, Yong Chen Presenter: Lu Li
507	Active Safety Surveillance Using Real-world Evidence (ASSURE): An application of the Strategus package	Kevin Haynes, Jenna Reps, Justin Bohn, Gowtham Rao, Mitchell Conover, Martijn Schuemie, Anthony Sena, Kourtney Davis, Patrick Ryan Presenter: Kevin Haynes
508	Patient's outcomes after endoscopic retrograde cholangiopancreatography (ERCP) using reprocessed duodenoscope accessories: a descriptive study using real-world data	Jessica Mayumi Maruyama, Eduardo Sleiman Beljavskis, Laila Colações, Lisandry Aquino, Renata Martins, Sarah Rodrigues, Suellen dos Santos, Julio Cesar Barbour Oliveira Presenter: Jessica Mayumi
509	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	Dazheng Zhang, Bingyu Zhang, Qiong Wu, Ting Zhou, Jiayi Tong, Yiwen Lu, Jiajie Chen, Deena J. Chisolm, Ravi Jhaveri, Russell L Rothman, Suchitra Rao, David A. Williams, Mady Hornig, Jeffrey S. Morris, Christopher B. Forrest, Yong Chen Presenter: Bingyu Zhang
510	Eye Care and Vision Research Workgroup: First Year Update	Michelle R. Hribar, Kerry E. Goetz, Sally L. Baxter, OHDSI Eye Care & Vision Research Workgroup Presenter: Michelle Hribar