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

<table>
<thead>
<tr>
<th>Time</th>
<th>Topic</th>
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<tbody>
<tr>
<td>8:00-8:30</td>
<td>Data Network Intro and Purpose</td>
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<tr>
<td>8:30-10:00</td>
<td>Guided discussion on barriers to data network participations</td>
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<td>10:00-10:15</td>
<td>Break</td>
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<td>10:15-10:30</td>
<td>Intro to SOS challenge</td>
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<td>10:30-11:00</td>
<td>Demo of database profile and data diagnostics</td>
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<td>11:00-11:45</td>
<td>Open discussion on how to open up the network and share data diagnostic capabilities</td>
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<td>11:45-12:00</td>
<td>Closing</td>
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Health Analytics Data-to-Evidence Suite (HADES) Hackathon
When: Saturday, October 21, 8:00am-12:00pm and Sunday, October 22, 1:00pm-5pm

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 ET

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.

Medical Imaging Workgroup at the OHDSI Symposium
When: Saturday, October 21, 2023, 8:00am-12:00pm ET

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.

- Present the Medical Imaging Model (60-90 mins)
- Breakout a discussion group on the implementation guide (Chan)
- Poll group about their Imaging infrastructures
  - Paul will lead the discussion for future research including Alzheimer MR use case.
- 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, 9:00am-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 9:00 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 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 Phbruary 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 ET

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 2023 OHDSI Global Symposium

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

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.
Health Analytics Data-to-Evidence Suite (HADES) Hackathon  
When: Saturday, October 21, 8:00am-12:00pm and Sunday, October 22, 1:00pm-5pm

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 ET

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
**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%20drug-vocabularies](https://github.com/OHDSI/Vocabulary-v5.0/wiki/Community-contribution-guidelines:-non%20drug-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](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!