Future Collaboration Opportunities

Breakouts: Methods Research | Data Standards | Open-Source Development | Clinical Applications

OHDSI Community Call
Nov. 2, 2021 • 11 am ET
Nov. 9: Future Collaboration Opportunity Breakouts

Methods Research
- Jenna Reps
- Martijn Schuemie

Data Standards
- Clair Blacketer
- Maxim Moinat

Open-Source Development
- Adam Black
- Anthony Sena

Clinical Applications
- Talita Duarte-Salles
- Asieh Golozar

Methods Research
Data Standards
Open-Source Development
Clinical Applications
# Remaining 2021 OHDSI Community Calls

<table>
<thead>
<tr>
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<tbody>
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<td>Nov. 9</td>
<td>Demos: Tools for Adoption of OHDSI Data Standards</td>
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<tr>
<td>Nov. 16</td>
<td>Open Network Studies</td>
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<tr>
<td>Nov. 23</td>
<td>History of OHDSI</td>
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<tr>
<td>Nov. 30</td>
<td>Collaborator Showcase Presentations</td>
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<tr>
<td>Dec. 7</td>
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## Remaining 2021 OHDSI Community Calls

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Nov. 9: Tools For Adoption Of OHDSI Data Standards

Introduction To CDM 5.4

OHDSI Vocabularies

ETL Inspection Report
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>
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</thead>
<tbody>
<tr>
<td>Tuesday</td>
<td>1 pm</td>
<td>Common Data Model</td>
</tr>
<tr>
<td>Tuesday</td>
<td>2 pm</td>
<td>Health Equity</td>
</tr>
<tr>
<td>Tuesday</td>
<td>3 pm</td>
<td>OMOP CDM Oncology – Outreach/Research Subgroup</td>
</tr>
<tr>
<td>Wednesday</td>
<td>2 am (4 pm KST)</td>
<td>Patient-Level Prediction/Population-Level Estimation (Eastern Hemi)</td>
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<tr>
<td>Wednesday</td>
<td>10 am</td>
<td>OMOP CDM Oncology – Development Subgroup</td>
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<tr>
<td>Wednesday</td>
<td>7 pm</td>
<td>Medical Imaging</td>
</tr>
<tr>
<td>Thursday</td>
<td>10 am</td>
<td>Medical Devices</td>
</tr>
<tr>
<td>Thursday</td>
<td>12 pm</td>
<td>Patient-Level Prediction/Population-Level Estimation (Western Hemi)</td>
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<tr>
<td>Thursday</td>
<td>1 pm</td>
<td>OMOP CDM Oncology – CDM/Vocabulary Subgroup</td>
</tr>
<tr>
<td>Friday</td>
<td>9 am</td>
<td>Education</td>
</tr>
<tr>
<td>Friday</td>
<td>9 am</td>
<td>Vaccine Vocabulary</td>
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<tr>
<td>Monday</td>
<td>8 am</td>
<td>Early-Stage Researchers (Europe/Western Hemisphere)</td>
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<tr>
<td>Monday</td>
<td>10 am</td>
<td>GIS-Geographic Information System</td>
</tr>
<tr>
<td>Tuesday</td>
<td>9 am</td>
<td>OMOP CDM Oncology – Genomic Subgroup</td>
</tr>
</tbody>
</table>

[www.ohdsi.org/upcoming-working-group-calls](http://www.ohdsi.org/upcoming-working-group-calls)
Get Access To Different Teams/WGs/Chapters

Welcome to OHDSI!

The Observational Health Data Sciences and Informatics (OHDSI) program is a multi-stakeholder, interdisciplinary collaborative to bring out the value of health data through large-scale analytics. All our solutions are open-source. OHDSI has established an international network.

Our 2020 OHDSI Global Symposium brought together a global research community for 18 hours of open science, international collaboration and community fun. The day included research presentations from community members, panels that brought together leaders from major healthcare organizations, as well as network sessions, the annual collaborator.

5. Select the workgroups you want to join (you can refer to the WIKI for work group objectives)

- XTLAS
- Clinical Trials
- Common Data Model
- Data Quality Dashboard Development
- Early-stage Researchers
- Education Work Group
- Electronic Health Record (EHR) ETL
- Geographic Information System (GIS)
- HADES Health Analytics Data-to-Evidence Suite
- Health Equity
- Latin America
- Medical Devices
- Natural Language Processing
- OHDSI APAC
- OHDSI APAC Steering Committee
- OHDSI Steering Committee
- Oncology
- Patient-Generated Health Data
- Pharmacovigilance Evidence Investigation

6. Select the chapter(s) you want to join

- Africa
- Australia
- China
- Europe
- Japan
- Korea
- Singapore
- Taiwan

7. Select the studies you want to join

- HIRA-Health Equity Research Assessment
- PSM2BRR for Prostate Cancer (study is on hold)
- SRKUL (SARS-Cov-2 Large-scale Longitudinal Analysis)
Get Access To Different Teams/WGs/Chapters

Welcome to OHDSI!

2020 OHDSI Symposium

The Observational Health Data Sciences and Informatics (OHDSI) program is a multi-stakeholder collaborative to bring out the value through large-scale analytics. It is open-source.

OHDSI has established OHDSI MSTeams Work groups, Chapters, and Studies Registration.

OHDSI is using MSTeams to further encourage active collaboration within the community. Within the OHDSI organization, there are separate teams for work groups, chapters, and studies, as well as OHDSI community activities (such as the OHDSI Symposium). All teams are open to all collaborations. Below please indicate which team you would like to join and the OHDSI coordinating center team will grant access.

5. Select the workgroups you want to join (you can refer to the WIKI for work group objectives
   - XTLAS
   - Clinical Trials
   - Common Data Model
   - Data Quality Dashboard Development
   - Early-stage Researchers
   - Education Work Group
   - Electronic Health Record (EHR) ETL
   - Geographic Information System (GIS)
   - HADES Health Analytics Data-to-Evidence Suite
   - Health Equity
   - Latin America
   - Medical Devices
   - Natural Language Processing
   - OHDSI APAC
   - OHDSI APAC Steering Committee
   - OHDSI Steering Committee
   - Oncology
   - Patient-Generated Health Data
   - Pharmacovigilance Evidence Investigation

6. Select the chapter(s) you want to join
   - Africa
   - Australia
   - China
   - Europe
   - Japan
   - Korea
   - Singapore
   - Taiwan

7. Select the studies you want to join
   - HEA-HEALTHY: Health Research Assessment
   - APOGEE for Prostate Cancer (study now ended)
   - SCYA (MAT1-COVID-19): Large-scale Longitudinal Analysis

@OHDSI
www.ohdsi.org
#JoinTheJourney
## 2021 APAC Symposium • Nov. 18

### Morning

<table>
<thead>
<tr>
<th>Time (Korea time)</th>
<th>Contents</th>
<th>Speaker(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>9:00 – 9:25 am</td>
<td>OHDSI State of the Community</td>
<td>George Hripcsak/Patrick Ryan</td>
</tr>
<tr>
<td>9:25 – 9:50 am</td>
<td>OHDSI APAC State of the Community</td>
<td>Mui Van Zandt</td>
</tr>
<tr>
<td>9:50 – 10:00 am</td>
<td>Energy Break</td>
<td></td>
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<tr>
<td>10:00 – 10:25 am</td>
<td>EHDEN</td>
<td>Peter Rijnbeek</td>
</tr>
<tr>
<td>10:25 – 10:50 am</td>
<td>FHIR and OHDSI Collaboration</td>
<td>Christian Reich</td>
</tr>
<tr>
<td>10:50 – 11:00 am</td>
<td>Energy Break</td>
<td></td>
</tr>
<tr>
<td>11:00 - 12:30 pm</td>
<td>APAC Chapter Visions for 2022</td>
<td>Chapter Leads</td>
</tr>
</tbody>
</table>

### Lunch Break

<table>
<thead>
<tr>
<th>Time</th>
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<tbody>
<tr>
<td>12:30 – 13:00 pm</td>
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</table>

### Afternoon (in GatherTown)

<table>
<thead>
<tr>
<th>Time (Korea time)</th>
<th>Contents</th>
</tr>
</thead>
<tbody>
<tr>
<td>13:00 – 14:00 pm</td>
<td>Workgroup Sessions (Medical Image, FHIR, CDM Tables)</td>
</tr>
<tr>
<td>14:00 – 15:00 pm</td>
<td>Collaboration Showcase</td>
</tr>
<tr>
<td>15:00 – 16:00 pm</td>
<td>APAC Study Sessions</td>
</tr>
</tbody>
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[www.ohdsi.org/apac](http://www.ohdsi.org/apac)
New OMOP Modeling and OHDSI Tools Course

Profissionais ensinando a prática

Modelagem OMOP e Ferramentas OHDSI

Com OMOP você faz pesquisas clínicas com o MUNDO todo!

Inscrição para o curso até 3 de novembro

Inicio das aulas 4/11

Realização: SBIS educa

Aperto: OHDSI
Latest Edition Of The Journey Newsletter

Community Updates

Where Have We Been
- Recordings, materials and other resources from the first workshop between HL7 and OHDSI are now available here. Five new subgroupss have been formed to advance the use cases/projects: Data Model Harmonization, Digital Quality Measurement, Oncology/Registries & Applications, and Terminology. The FIHR and OMOP workgroup has resumed, so if you would like to join this collaborative effort, please sign up here.
- Patrick Ryan recently led a Halloween-themed interactive demonstration of how you can use the OHDSI tools to quickly generate insights from your OMOP CDM. This demo is now available for anybody to watch.

Where Are We Now
- Nov 1 marks the official start date of the LEGEND initiative study around type 2 diabetes. This announcement follows the release of the research protocol on MedRxiv and a presentation on the initiative by the LEGEND team. More on the LEGEND Initiative is available later in this newsletter.
- As announced recently, CDM v5.4 has been released and is available to the OHDSI Community. CDMworkgroup leader Claire Blacketer will provide a live demo on the new version during the Nov 9 community call.
- We are now in our second month of the OHDSISocialShowcase, which highlights all of the global research shared during the 2021 Global Symposium. Each weekday, one presentation will be highlighted on both our Twitter and LinkedIn feeds. Please share with your networks to spread the word about our global efforts!

Where Are We Going
- The 2021 Asia-Pacific (APAC) Symposium will be held virtually Nov. 18 (Korea time), and will feature both a series of talks and an afternoon of collaborative activities, including workshop meetings, a collaborator showcase and study sessions. You can register for the APAC Symposium now, and more information on the event is available later in this newsletter.
- The upcoming month of community calls will feature breakouts for collaboration opportunities, presentations on open network studies within the community, a discussion on the history of OHDSI, and plenty more. Check out the full November schedule below; our meetings are held Tuesdays at 11 am ET, and everybody is invited. If you missed any, all presentations are recorded and posted to our community calls homepage.

The Journey Newsletter (November 2021)

The LEGEND (Large-scale Evidence Generation and Evaluation across a Network of Databases) initiative has already resulted in several published studies in high-impact journals, and the team has a new focus in store. You can learn more about this work, look ahead to the upcoming Asia-Pacific Symposium, and get more community updates in this edition of The Journey.

#JoinTheJourney

Monthly Update Podcast

On The Journey

The LEGEND Initiative -- What Is It, How Did It Impact Hypertension, and What Comes Next?

Some of the LEGEND Principles step-by-step

- Select multiple target and comparator cohorts, for example: all patients with a drug target
- Carefully design the study, including sensitivity analyses
- Run on multiple databases
- Spend a lot of time on diagnostic: propensity score balance, covariates balance, calibration plots etc.
- Publish results

The LEGEND (Large-scale Evidence Generation and Evaluation across a Network of Databases) Initiative applies high-level analytics to perform observational research on hundreds of millions of patient records within OHDSI's international database network.

LEGEND principles have been applied to studying the effects of treatments for depression, hypertension, and COVID-19, and are being applied to Type 2 diabetes. The clinical impact of LEGEND has already been observed, with important evidence that promotes better health decisions published in Lancet, JAMA Internal Medicine, and Hypertension.

During the Oct. 19 OHDSI Community Call, members of the LEGEND team provided a comprehensive presentation around this initiative, its work around hypertension, and plans around Type 2 diabetes.

Watch The LEGEND Initiative Presentation

Find Study Protocol, Study Package, Presentation Slides

@OHDSI
www.ohdsi.org
#JoinTheJourney
Welcome to OHDSI!

The Observational Health Data Sciences and Informatics (or OHDSI, pronounced "Odyssey") program is a multi-stakeholder, interdisciplinary collaborative to bring out the value of health data through large-scale analytics. All our solutions are open-source.

OHDSI has established an international network of researchers and observational health professionals. The 2021 OHDSI Global Symposium presentations on OHDSI COVID-19 Pandemic, as well as the State of the Community Pre-Collaborator Showcase, and a Closing Ceremony that focused work through the perspective of OHDSI.

Follow OHDSI on Twitter, LinkedIn, YouTube, or OHDSI on Instagram.
Development of an ETL Process for Bulk and Incremental Load of German Patient Data into OMOP CDM Using FHIR

Authors: Elisa Henke, Yuan Peng, Ines Reinecke, Michele Zoch, Martin Sedlmayr

MONDAY

#OHDSISocialShowcase This Week

Development of an ETL Process for Bulk and Incremental Load of German Patient Data into OMOP CDM Using FHIR

Authors: Elisa Henke, Yuan Peng, Ines Reinecke, Michele Zoch, Martin Sedlmayr

MONDAY
Evaluating the performance of Austin’s standardized difference heuristic in observational cohort studies with varying sample size

Mitch Conover¹, Azza Shoaibi¹, Joshua Ide¹, Martijn Schuemie¹

OHDSI PLE/PLP Working Group
September 3, 2021

¹All authors are employees of Janssen Research & Development
Combining abstracted and extracted data in a centralized OMOP CDM, the CIBMTR significantly streamlines its data processing pipeline and creates the foundation for expanded analysis and sharing options.
Mapping UK Biobank to the OMOP CDM: challenges and solutions using the delphyne ETL framework

Authors: Sofia Bazakou, Maxim Moinat, Alessia Peviani, Anne van Winzum, Stefan Payralbe, Vaclav Papez, Spiros Denaxas

Background
UK Biobank (UKB), a large-scale registry containing medical and genetic data from 500,000 consented participants from the UK's general population, aged between 40 and 69 years (Figure 1). UKB is an extraordinary resource for human health research, accessible to approved researchers worldwide.

As part of the European Health Data Evidence Network (EHDN), the Hyve was contracted by University College London (UCL) to map the UKB data to the OMOP CDM v5.3. The main goal of the collaboration was to make the dataset available for research related to the COVID-19 pandemic. The Hyve implemented the data conversion pipeline, while UCL provided the source data expertise.

The UKB data conversion effort came with several challenges:
- ETL development without direct access to the data.
- Mapping of free-text and non-standarized ontologies.
- Large heterogeneity of source terms amongst data providers.
- Conversion of a large-variant format to long format.
- Working with an evolving data source.

Methods
The Hyve overcame the lack of direct access to the UKB data by undertaking a collaborative Stage 2 development approach with UCL (Figure 2). This process made it possible to develop the ETL code relying entirely on synthetic data.

Conclusion
UKB is an incredible resource for healthcare research. Given its size and complexity, mapping the data to the OMOP CDM model came with several challenges. A powerful and flexible ETL framework such as Delphyne was invaluable in carrying out the conversion effort.

Together with existing open-source tools from the OHDSI suite, Delphyne allowed us to perform the conversion without direct access to the UKB data, and to deliver a high-coverage mapping (Figure 3). The mapping of UKB data to the OMOP CDM will in turn enable future research, including studies on COVID-19, to build upon our efforts.

Keywords: Mapping, UK Biobank, OMOP CDM, ETL, Delphyne, COVID-19.
Perseus Design and run your own ETL to CDM

Authors: Anton Ivanov, Samus Sergey, Alexander Efimov, Maxim Draschinsky

FRIDAY
Three Stages of The Journey

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

Congratulations to Antoine Lamer, Osama Abou-Arab, Alexandre Bourgeois, Adrien Parrot, Benjamin Popoff, Jean-Baptiste Beuscart, Benoît Tavernier, and Mouhamed Djahoum Moussa for the publication of “Transforming Anesthesia Data Into the Observational Medical Outcomes Partnership Common Data Model: Development and Usability Study” in the Journal of Medical Internet Research.
OHDSI Shoutouts!

Congratulations to those new #ACMI Fellows in person with us in San Diego! #AMIA2021

Patrick Ryan
Inductee
ACMI Fellows Class of 2021
Induction Ceremony
(ACMI Fellows Only)

11:30 am PT • Sapphire M
OHDSI Shoutouts!

J. Marc Overhage
Chief Medical Informatics Officer • Anthem, Inc.