The DARWIN EU Initiative

OHDSI Community Call
May 3, 2022 • 11 am ET
## Upcoming OHDSI Community Calls

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<thead>
<tr>
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May 10: Mother’s Day Breakouts

Data Standards Discussion
Recommended best practices for modeling pregnancy episodes and mother-child linkage
Jill Hardin and Mui Van Zandt

Community Building Discussion
How can OHDSI support collaborator mothers to advance their personal and professional development?
Rupa Makadia and Sarah Seager

Clinical Research Discussion
Clinical Research Opportunities: Brainstorm on maternal health
Alison Callahan, Ru-fong Cheng and Noémie Elhadad
Three Stages of The Journey

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

Congratulations to the team of Anna Ostropolets, Xintong Li, Rupa Makadia, Gowtham Rao, Peter Rijnbeek, Talita Duarte-Salles, Anthony Sena, Azza Shaoibi, Marc Suchard, Patrick Ryan, Daniel Prieto-Alhambra and George Hripcsak on the publication of Factors Influencing Background Incidence Rate Calculation: Systematic Empirical Evaluation Across an International Network of Observational Databases in Frontiers in Pharmacology.
Congratulations to the team of Juan Quiroz, Tim Chard, Zhisheng Sa, Angus Ritchie, Louisa Jorm and Blanca Gallego on the publication of Extract, transform, load framework for the conversion of health databases to OMOP in PLOS One.

Abstract

Common data models standardize the structures and semantics of health datasets, enabling reproducibility and large-scale studies that leverage the data from multiple locations and settings. The Observational Medical Outcomes Partnership Common Data Model (OMOP CDM) is one of the leading common data models. While there is a strong incentive to convert datasets to OMOP, the conversion is time and resource-intensive, leaving the research community in need of tools for mapping data to OMOP. We propose an extract, transform, load (ETL) framework that is metadata-driven and generic across source datasets. The ETL framework uses a new data manipulation language (DML) that organizes SQL snippets in YAML. Our framework includes a compiler that converts YAML files with mapping logic into an ETL script. Access to the ETL framework is available via a web application, allowing users to upload and edit YAML files via a web editor and obtain an ETL SQL script for use in development environments. The structure of the DML maximizes reusability, refactoring, and maintainability, while minimizing technical debt and standardizing the writing of ETL operations for mapping to OMOP. Our framework also supports transparency of the mapping process and reuse by different institutions.
OHDSI Shoutouts!

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

Have a study published? Please send to sachson@ohdsi.org so we can share during this call and on our social channels. Let’s work together to promote the collaborative work happening in OHDSI!
Three Stages of The Journey

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

<table>
<thead>
<tr>
<th>Date</th>
<th>Time (ET)</th>
<th>Meeting</th>
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<tbody>
<tr>
<td>Wednesday</td>
<td>8 am</td>
<td>Psychiatry</td>
</tr>
<tr>
<td>Wednesday</td>
<td>9 am</td>
<td>ATLAS</td>
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<tr>
<td>Wednesday</td>
<td>11 am</td>
<td>Open-Source Community</td>
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<tr>
<td>Wednesday</td>
<td>12 pm</td>
<td>Health Equity</td>
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<tr>
<td>Wednesday</td>
<td>4 pm</td>
<td>FHIR and OMOP Data Model Harmonization Subgroup (ZOOM)</td>
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<tr>
<td>Wednesday</td>
<td>7 pm</td>
<td>Medical Imaging</td>
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<tr>
<td>Thursday</td>
<td>10 am</td>
<td>Data Quality Dashboard</td>
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<tr>
<td>Thursday</td>
<td>12 pm</td>
<td>FHIR and OMOP Oncology Subgroup</td>
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<tr>
<td>Friday</td>
<td>9 am</td>
<td>GIS-Geographic Information System</td>
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<tr>
<td>Monday</td>
<td>8 am</td>
<td>Early-Stage Researchers</td>
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<tr>
<td>Monday</td>
<td>10 am</td>
<td>Healthcare Systems Interest Group</td>
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<tr>
<td>Tuesday</td>
<td>9 am</td>
<td>OMOP CDM Oncology</td>
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[www.ohdsi.org/upcoming-working-group-calls](http://www.ohdsi.org/upcoming-working-group-calls)
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 databases with a central coordinating center housed at Columbia University.

Read more about us, about our goals, and how you can help support the OHDSI community.

2022 OHDSI Symposium

The 2022 OHDSI Symposium will be held Oct. 14-16 at the Bethesda North Marriott Hotel & Conference Center, and registration has opened.

We will hold the main conference on Friday, Oct. 14, which will include our collaborator showcase. On Saturday, Oct. 15, we will hold a full-day tutorial called “An Introductory Journey From Data To Evidence.” There will be other community activities during the weekend as well. Please check out the symposium home page to learn more and register!

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

- ATLAS
- Clinical Trials
- Common Data Model
- Data Quality Dashboard Development
- Early-stage Researchers
- Education Work Group
- Eyecare and Vision Research
- FHIR and OMOP
- Geographic Information System (GIS)
- HADES Health Analytics Data-to-Evidence Suite
- Healthcare Systems Interest Group (formerly EHR)
- Health Equity
- Latin America
- Medical Devices
- Medical Imaging
- Natural Language Processing
- OHDSI APAC
- OHDSI APAC Steering Committee
- OHDSI Steering Committee
- Oncology
- Open-source Community
- Phenotype Development and Evaluation
- Population-Level Effect Estimation / Patient-Level Prediction
- Psychiatry
- Registry (formerly UK Biobank)
- Vaccine Evidence

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

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

You can print a copy of your answer after you submit.

Submit
Get Access To Different Teams/WGs/Chapters

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Khieron Contributor Cohort Application

State Of The Community Presentation

Panel: Putting The Pieces Together

Agenda

The event began at 8 am with several workshops that were held over the first two hours of the session. Each workshop will be loaded below the agenda.

8 am: ATLAS (Anthony Sena); HADES Introduction (Adam Black)
8:30 am: WebAPI (Anthony Sena); ColorDiagnostics (James Gilbert)
9 am: WhiteRabbit/Rabbit in a Hat (Maxim Maison); Patent-Level Prediction (Jenna Rapa)
9:30 am: Data Quality Dashboard (Clair Blacketer); Cyclops (Marc Suchard)

At 10 am, both Paul Nagy and Adam Black shared the State of the Open-Source Community presentation. That talk led into the keynote talk, which was given by Martin Schaussme.

The event closed with an industry panel discussion around the theme of “Putting The Pieces Together.” The panelists included OHDSI’s Lee Evans (Broad), Microsoft’s Cory Stevenson (OHDSI on Azure), AWS’s James Wiggins (OHDSI on AWS), and Google’s Vinian Nelliey (OHDSI on Google).

Click Here To Apply For The 2022-23 Khieron Contributor Cohort

Join The Open-Source Community Workgroup In MS Teams

www.ohdsi.org/devcon2022
OHDSI Dev Con

2022 OHDSI Symposium

The 2022 OHDSI Symposium will be held Oct. 14-16 at the Bethesda North Marriott Hotel & Conference Center, and registration has opened.

We will hold the main conference on Friday, Oct. 14, which will include our collaborator showcase.
## APAC Community Calls

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<tbody>
<tr>
<td>May 5</td>
<td>Cohort diagnostic tool</td>
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<tr>
<td>May 19</td>
<td>Mini-tutorials #1</td>
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<td>June 2</td>
<td>Mini-tutorials #2</td>
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<td>June 16</td>
<td>Chapter Mid-year Updates</td>
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<td>June 30</td>
<td>EU Symposium Recap</td>
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<tr>
<td>July 14</td>
<td>APAC Study Quarterly Updates Part I</td>
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<tr>
<td>July 28</td>
<td>APAC Study Quarterly Updates Part II</td>
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</tbody>
</table>

[ohdsi.org/apac](http://ohdsi.org/apac)
Latest OHDSI Newsletter is Available

Community Updates

Where Have We Been?

- OHDSI DevCon brought together more than 100 collaborators interested in open-source development for a session of workshops, talks, and a full program, all of which are available on the DevCon homepage. Learn more about this event, and the new Khieron Contributor Cohort, later in this newsletter.
- Our community published 10 peer-reviewed publications this month, with variety in both focuses and geographies. Links to each publication is available at the bottom of this newsletter.

Where Are We Now?

- OHDSI workshops continue to address important challenges across data standards, methods research, open-source development and clinical applications. Within the last month, the newly formed Eye Care and Vision Research team shared its mission and goals with the community. Get to know what is happening and how you can impact these efforts on our workshop homepage.
- In order to foster growth in our community of nearly 3,000 volunteers across six continents, the OHDSI Coordinating Center at Columbia University has created the OHDSI Sponsorship program. This program allows both corporations and individuals to make meaningful contributions in support of OHDSI's central coordinating activities. There are three levels of support, including: donation amount and benefits to the sponsor, detailed below. Any level of support enhances both our community and our mission.

Where Are We Going?

- Registration for the 2022 OHDSI Symposium, which will be held Oct. 14-16 at the Bethesda North Marriott Hotel & Conference Center, is now open. The main conference will be held Friday, Oct. 14, while a full-day tutorial for community newcomers entitled “An Introductory Journey From Data To Evidence” will be held Saturday, Oct. 15. Workgroup activities will be held throughout Oct. 15-16.

DevCon Addresses State Of Open-Source Community, Opens Opportunities For Mentorship Among New Developers

The Open-Source Community hosted the first DevCon recently as a way of accepting and mentoring new contributors to our environment. Organized by Paul Nagy and Adam Black, the event included eight workshops, talks and a panel discussion to both welcome and engage both current and future developers within OHDSI. All videos from the workshops and talks are available on the DevCon homepage.

An important announcement from DevCon was the formation of the Khieron Contributor Cohort, which will help onboard and mentor open-source developers in the community. This was discussed during the State of the Open-Source Community presentation. If you are interested in joining the effort, please fill out the application.

Khieron Contributor Cohort Application Form

Publications


Kim, S., Bang, J., Bao, D. et al. Second primary malignancy risk in thyroid cancer and matched controls with and without radioactive thyroid therapy analysis from the observational health data sciences and informatics (OHDSI) EMR and Histology Imaging (EMIRI) study. https://doi.org/10.1136/dh sip2021-1057866


Latest OHDSI Newsletter is Available

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OHDSI has established an international network of researchers and observational health databases with a central coordinating center.

The 2022 Symposium will be held Oct. 14, which will include our collaborator showcase. On Saturday, Oct. 15, we will hold a full-day tutorial called “An Introductory Journey From Data To Evidence.” There will be other community activities during the weekend as well.
Opening at Oxford

Dani Prieto-Alhambra’s team at Oxford is recruiting a Database Programmer to join the team. This position will contribute to the standardization and curation of large real world data from the UK and collaborate with the OHDSI, EHDEN and OPTIMA Oncology teams.

Job Details

Database Programmer
NDORMS, Botnar Research Centre, Windmill Road, Oxford, OX3 7LD

The Big Health Data Research group and the Pharmacoeconomics research group, led by Prof Prieto-Alhambra, require an enthusiastic and skilled computer scientist or software engineer with strong programming experience, an interest in relational Database Management Systems (RDBMS) and a proven capacity to design and deliver database programming software. This position would ideally suit an individual who wishes to pursue a career in the growing field of health and/or biomedical informatics using standardised models for the management of real-world clinical data. We are part of the Observational Health Data Sciences and Informatics (OHDSI) community, which utilises the OMOP Common Data Model (CDM) to standardise medical data coming from different sources. The post will be based at the Botnar Research Centre, Windmill Road, Oxford, UK.

In the role you will develop new database applications for big clinical data to meet project requirements and deadlines, carry out software improvement, extension, integration and further development on existing code and develop code to validate, test, document and maintain database applications. You will also represent the project, team, and the University in collaboration meetings, conferences and at external meetings and work collaboratively with colleagues in other research groups, other departments, and partner institutions around the world as required by the projects.

A degree in computer science, software engineering, health informatics or an equivalent combination of training and professional experience, proven understanding and experience in one or more RDBMS and SQL dialects (e.g. PostgreSQL, MySQL, and excellent skills in at least one high level programming language (e.g. Python, C++, C#, etc.) are essential. You will be a good team player and have the capacity to work independently, as well as the ability to prioritise workload when working on multiple projects.

A higher degree in computer science or a related discipline (MSc or PhD) would be an advantage. A demonstrated interest in writing and verbal communication skills, and the ability to express scientific ideas effectively in writing and verbally with colleagues in any related discipline. A Master or PhD (doctorate) degree in computer science, software engineering, medical informatics or equivalent and experience working in a research environment are desirable.

This is a full-time fixed-term appointment for 2 years (in the first instance).

A lower grade offer may be made (Grade 6: £29,176 - £34,804 p.a.) with commensurate reduction in responsibilities (and amendment in job title to Database Officer) if a suitable candidate cannot be found to fill the Grade 7 position.

The closing date for this position is 2nd noon on Monday 23 May 2022. You will be required to upload a CV and supporting statement as part of your online application.

Contact Person: HR Assistant
Vacancy ID: 157544
Closing Date Time: 23-May-2022 12:00
Contact Email: hr@ndorms.ox.ac.uk

Salaried
Pay Scale: STANDARD GRADE 7
Salary (£): £33,309 - £40,927

Click on the link(s) below to view documents
157544 database_programmer_JD_final.pdf 379.5

Deadline: May 23, 2022
Opening at Erasmus

Peter Rijnbeek and his team at Erasmus Medical Center is recruiting a R programmer for Health Data Science. This position will be responsible for designing, developing, documenting, and maintaining R code that will be executed against health data that is standardized to the OMOP Common Data Model.
As mentioned by Sally Baxter and Kerry Goetz on in their recent Eye Care & Vision Research WG update, the National Eye Institute is looking for a DATA Scholar to develop a strategy and lead community consensus building to improve ocular health care through data standardization.
Daniel Smith shared a recent opening at Emory University in Atlanta for an Informatics Analyst; this position will provide OMOP support for Winship Data and Winship Discovery projects.
Internship at the Gates Medical Research Institute

Cynthia Sung posted a paid summer internship at the Bill & Melinda Gates Medical Research Institute on the OHDSI forums.

This candidate would transform Tuberculosis clinical trial data into the OMOP CDM.

We are focused on results. Those that can be measured. And those measured in ways beyond numbers.

We see individuals, not issues. We are inspired by passion, and compassion for the wellbeing of people. Our methods are based on logic, driven by rigor, results, issues, and outcomes. Our innovation means trying new things, learning from our mistakes, and consistently refining our approach. Our strategies help us define our path to success, but our effectiveness is based in the aggregate power of our initiatives to impact holistic change.

-Bill and Melinda Gates
Registration is OPEN for #OHDSI2022!

The 2022 OHDSI Symposium will be held Oct. 14-16 at the Bethesda North Marriott Hotel & Conference Center.

www.ohdsi.org/ohdsi2022symposium
An Introductory Journey From Data To Evidence
OHDSI2022 Tutorial • Saturday, Oct. 15 • Bethesda, Md.

The OHDSI Journey: Where Are We Going?
Patrick Ryan

OMOP Common Data Model and Vocabulary
Clair Blacketer

Creating Cohort Definitions
Asieh Golozar

Phenotype Evaluations
Gowtham Rao

Characterization
Kristin Kostka

Estimation
Martijn Schuemie

Prediction
Jenna Reps

ETL – A Source Database Into OMOP CDM
Melanie Philofsky

The OHDSI Journey: Where Do We Go From Here?
George Hripcsak
2022 European Symposium

EUROPEAN OHDSI SYMPOSIUM

Symposium: June 24th
Workshops: 25-26th

“All aboard!”
New Date!!

We’ll meet again for one journey ahead

www.ohdsi-europe.org/symposium-2022
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?
May 3 Community Call: DARWIN EU

Peter Rijnbeek
Head of the Department of Medical Informatics
Erasmus Medical Center

Real-world healthcare data
Erasmus MC contracted to establish DARWIN EU® Coordination Centre for the European Medicines Agency

The Erasmus MC will work closely with the European Medicines Agency on the establishment of the Coordination Centre for the Data Analysis and Real World Interrogation Network (DARWIN EU®).