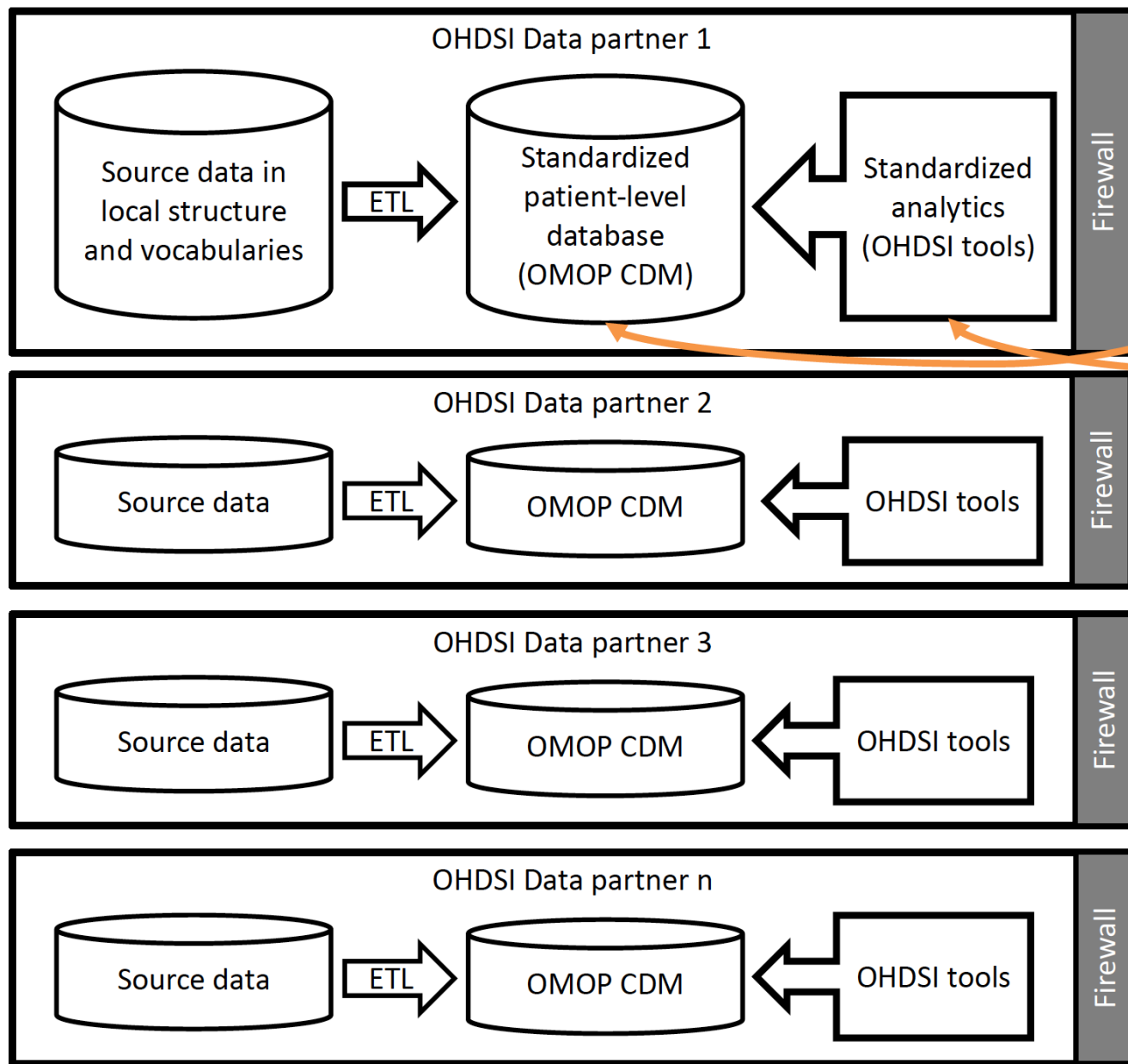# Welcome To OHDSI

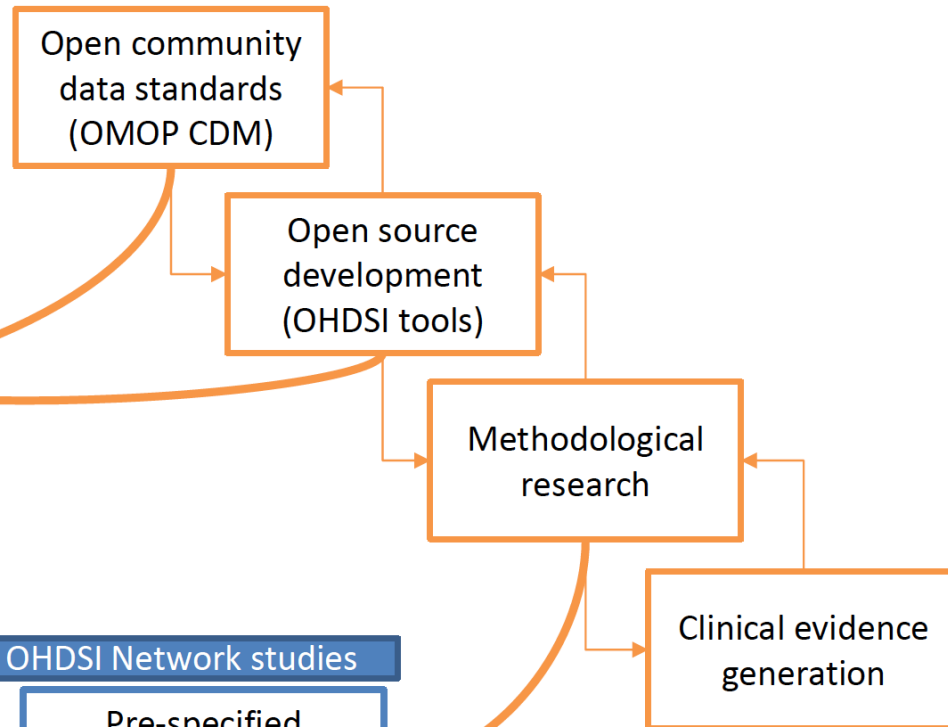## OHDSI Community Call
Oct. 18, 2022 • 11 am ET

OHDSI's mission

To improve health by empowering a community to collaboratively generate the evidence that promotes better health decisions and better care
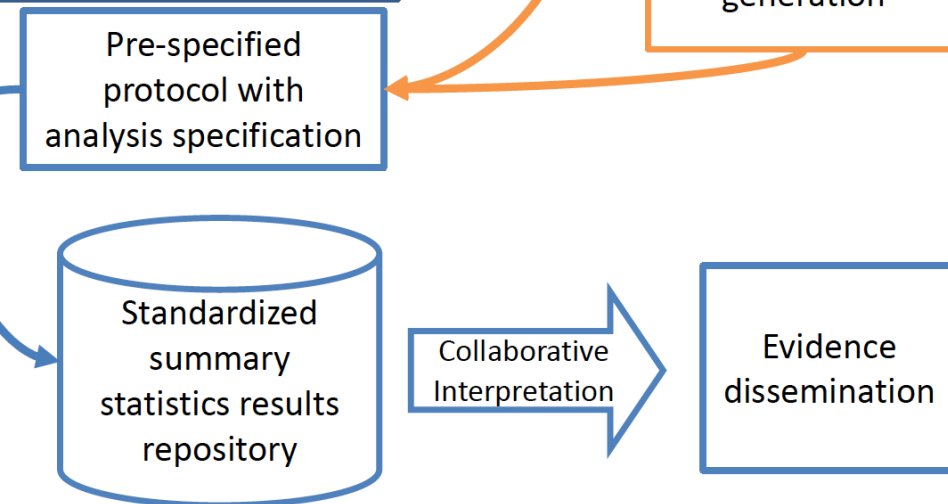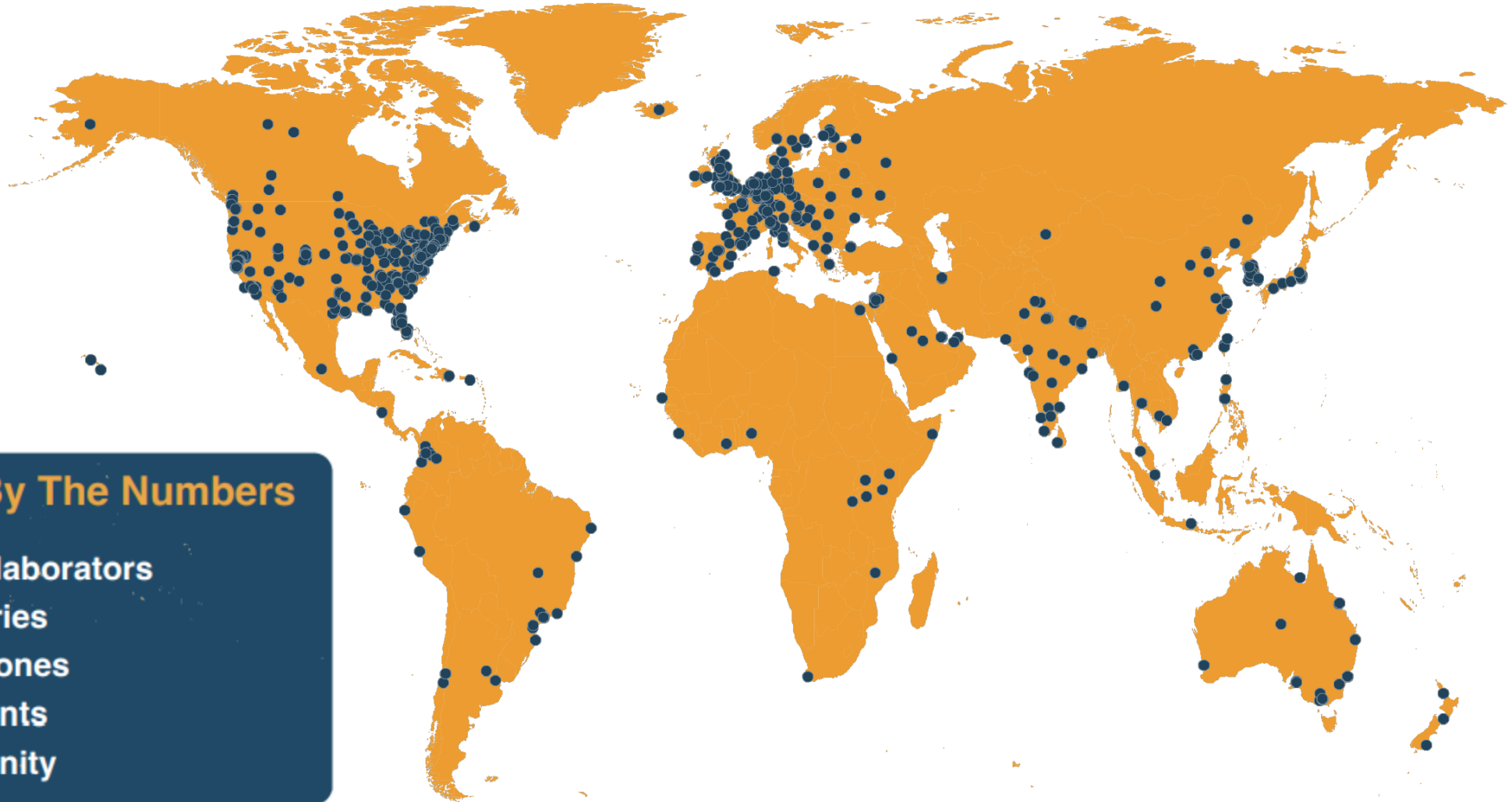
Map of collaborators

OHDSI By The Numbers

- 3,266 collaborators
- 80 countries
- 21 time zones
- 6 continents
- 1 community

Upcoming OHDSI Community Calls

Date	Topic
Oct. 25	Future Directions For OHDSI
Nov. 1	Meet The Titans
Nov. 8	Collaborator Showcase Presentations
Nov. 15	Open Network Studies
Nov. 22	OHDSI "Speed Dating"
Nov. 29	Workgroup Updates
Dec. 6	Fall Publications
Dec. 13	How Did We Do In 2022?
Dec. 20	Holiday-Themed Final Call of 2022

Three Stages of The Journey

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

OHDSI Shoutouts!

Congratulations to the team of **Woo Kyung Bae, Jihoon Cho, Seok Kim, Borham Kim, Hyunyoung Baek, Wongeun Song, and Sooyoung Yoo** on the publication of **Coronary Artery Computed Tomography Angiography for Preventing Cardio-Cerebrovascular Disease: Observational Cohort Study Using the Observational Health Data Sciences and Informatics' Common Data Model** in JMIR Medical Informatics.

OHDSI Shoutouts!

👏

Congratulations to the team of **Vaclav Papez, Maxim Moinat, Erica A Voss, Sofia Bazakou, Anne Van Winzum, Alessia Peviani, Stefan Payralbe, Michael Kallfelz, Folkert W Asselbergs, Daniel Prieto-Alhambra, Richard J B Dobson, and Spiros Denaxas** on the publication of **Transforming and evaluating the UK Biobank to the OMOP Common Data Model for COVID-19 research and beyond** in JAMIA.

🗎 PDF   ❙❙ Split View   ❝ Cite   🔑 Permissions   ≺ Share ▾

Abstract

Objective
The COVID-19 pandemic has demonstrated the value of real-world data for public health research. International federated analyses are crucial for informing policy makers. Common data models (CDM) are critical for enabling these studies to be performed efficiently. Our objective was to convert the UK Biobank, a study of 500,000 participants with rich genetic and phenotypic data to the Observational Medical Outcomes Partnership (OMOP) CDM.

Article Contents

Abstract

Author notes

Supplementary data

OHDSI Shoutouts!

Congratulations to the team of **Lara J Kanbar, Judith W Dexheimer, Janet Zahner, Evanette K Burrows, Robert Chatburn, Amanda Messinger, Christopher D Baker, Christine L Schuler, Dan Benscoter, Raouf Amin, and Nathan Pajor** on the publication of **Standardizing Electronic Health Record Ventilation Data in the Pediatric Long-Term Mechanical Ventilator Dependent Population** in Pediatric Pulmonology.

PEDIATRIC PULMONOLOGY

ORIGINAL ARTICLE

Standardizing Electronic Health Record Ventilation Data in the Pediatric Long-Term Mechanical Ventilator Dependent Population

Lara J. Kanbar PhD ✉, Judith W. Dexheimer PhD, Janet Zahner, Evanette K. Burrows MPH, Robert Chatburn MHHS, RRT-NPS, FAARC, Amanda Messinger MD ... See all authors ⌄

First published: 13 October 2022 | https://doi.org/10.1002/ppul.26204

This article has been accepted for publication and undergone full peer review but has not been through the copyediting, typesetting, pagination and proofreading process, which may lead to differences between this version and the Version of Record. Please cite this article as doi: 10.1002/ppul.26204

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Abstract

Background

Sharing data across institutions is critical to improving care for children who are using long term mechanical ventilation (LTMV). Mechanical ventilation data are complex and poorly standardized. This lack of data standardization is a major barrier to data sharing.

Objective

We aimed to describe current ventilator data in the electronic health record (EHR) and propose a framework for standardizing these data using a Common Data Model (CDM) across multiple populations and sites.

OHDSI Shoutouts! 👏

Congratulations to the team of **Najia Ahmadi, Yuan Peng, Markus Wolfien, Michéle Zoch, and Martin Sedlmayr** on the publication of **OMOP CDM Can Facilitate Data-Driven Studies for Cancer Prediction: A Systematic Review** in Pediatric Pulmonology.

Review

OMOP CDM Can Facilitate Data-Driven Studies for Cancer Prediction: A Systematic Review

Najia Ahmadi *, Yuan Peng, Markus Wolfien, Michéle Zoch and Martin Sedlmayr

Institute for Medical Informatics and Biometry, Carl Gustav Carus Faculty of Medicine, Technische Universität Dresden, Fetscherstraße 74, 01307 Dresden, Germany
* Correspondence: najia.ahmadi@tu-dresden.de

Abstract: The current generation of sequencing technologies has led to significant advances in identifying novel disease-associated mutations and generated large amounts of data in a high-throughput manner. Such data in conjunction with clinical routine data are proven to be highly useful in deriving population-level and patient-level predictions, especially in the field of cancer precision medicine. However, data harmonization across multiple national and international clinical sites is an essential step for the assessment of events and outcomes associated with patients, which is currently not adequately addressed. The Observational Medical Outcomes Partnership (OMOP) Common Data Model (CDM) is an internationally established research data repository introduced by the Observational Health Data Science and Informatics (OHDSI) community to overcome this issue. To address the needs of cancer research, the genomic vocabulary extension was introduced in 2020 to support the standardization of subsequent data analysis. In this review, we evaluate the current potential of the OMOP CDM to be applicable in cancer prediction and how comprehensively the genomic vocabulary extension of the OMOP can serve current needs of AI-based predictions. For this, we systematically screened the literature for articles that use the OMOP CDM in predictive analyses in cancer and investigated the underlying predictive models/tools. Interestingly, we found 248 articles, of which most use the OMOP for harmonizing their data, but only 5 make use of predictive algorithms on OMOP-based data and fulfill our criteria. The studies present multicentric investigations, in which the OMOP played an essential role in discovering and optimizing machine learning (ML)-based models. Ultimately, the use of the OMOP CDM leads to standardized data-driven studies for multiple clinical sites and enables a more solid basis utilizing, e.g., ML models that can be reused and combined in early prediction, diagnosis, and improvement of personalized cancer care and biomarker discovery.

Keywords: OHDSI; OMOP CDM; EHR; PLP; prediction; machine learning

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?

the journey

Upcoming Workgroup Calls

Date	Time (ET)	Meeting
Wednesday	9 am	FHIR and OMOP Data Model Harmonization Subgroup (ZOOM)
Wednesday	11 am	Open-Source Community
Wednesday	12 pm	Health Equity Journal Club
Wednesday	12 pm	FHIR and OMOP Terminologies Subgroup (ZOOM)
Wednesday	7 pm	Medical Imaging
Thursday	12 pm	FHIR and OMOP Oncology Subgroup
Thursday	1 pm	OMOP CDM Oncology Vocabulary/Development Subgroup
Friday	9 am	GIS – Geographical Information System
Monday	10 am	Healthcare Systems Interest Group
Tuesday	9 am	OMOP CDM Oncology

ohdsi.org/upcoming-working-group-calls/

2022 OHDSI Symposium
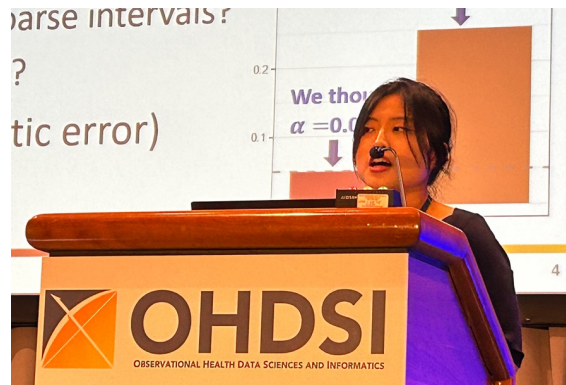
ohdsi.org/ohdsi2022symposium

2022 OHDSI Symposium

2022 OHDSI Symposium

ohdsi.org/ohdsi2022symposium

2022 Titan Award Honorees

Version 2 of Our Journey

Final EHDEN Open Data Call

EHDEN is hosting its seventh and final open call for European data partners who are interested in mapping their patient data to OMOP. Through six open calls, EHDEN has welcomed 166 data partners across 26 countries to its federated network, and this is the final opportunity to join this effort.

The deadline to apply is Friday, Nov. 11.

DATA PARTNER CALL

7th Open Call for European Data Partners wanting to map their **patient data** to the **OMOP** common data model to enhance and accelerate **research** and healthcare decision-making.

- Work with one of 64 EHDEN Certified SMEs for mapping your data
- Up to **EUR 100,000** grant for mapping cycle
- Rapid evaluation & turnaround
- EHDEN partnering with **Health Data Reasearch UK** to support UK applicants with joint funding for this Call

October 12th - November 11th

EHDEN.EU

Upcoming PIONEER study-a-thon

PIONEER is IMI'S "Big Data for Better Outcomes" program. The research objective of the study-a-thon is to **Identify amongst patients with metastatic hormone-sensitive prostate cancer treated with one of the approved treatment plans, which will experience progression and death during an established follow-up period.**

The study-a-thon is scheduled for the week of Oct 31 in Leiden, Netherland with an option to join remotely. There will be three main workgroups focusing on **phenotype development**, **analytical package development** and **study execution by data owners**. We welcome anyone who is interested to contribute your data, join one of the workgroups or simply come and observe.

2022 OHDSI APAC Symposium

2022 APAC OHDSI Symposium
Nov. 12 - 13 · Taipei Medical University

We are excited to announce that registration and collaborator showcase submissions for the 2022 OHDSI APAC Symposium, which will be held Nov. 12-13, is now open! This two-day event will take place in Taipei, Taiwan at the Taipei Medical University and also be broadcasted virtually for those who are not able to participate in person.

2022 OHDSI APAC Symposium Agenda and Registration Details

Day 1 (Nov. 12) — Tutorial Workshop

8:30 – 9:00 · Registration
9:00 – 12:00 · OHDSI Intro – CDM & Vocabulary
12:00 – 13:00 · Lunch & Poster Session
13:00 – 17:00 · ETL & Data Quality | Phenotype Development

Day 2 (Nov. 13) — Main Conference

08:00 – 09:00 · Registration & Light Breakfast
09:00 – 09:20 · Welcome Session
09:20 – 09:40 · Group Photo

Session 1: Envisioning of OHDSI Global & OHDSI APAC
09:40 – 10:00 · Keynote – OHDSI Global Presentation
10:00 – 10:20 · OHDSI APAC Introduction
10:20 – 10:30 · Break

Session 2: The Implication Experiences in OHDSI Region
10:30 – 11:30 · Researches in OHDSI APAC
11:30 – 11:45 · Researches using Taiwan National Data
11:45 – 12:00 · Researches using TMUCRD Data
12:00 – 13:00 · Lunch & Poster Presentation

Session 3: The Challenges of Research in OHDSI APAC
13:00 – 14:00 · Panel – Standardization & Common Data Models
14:00 – 15:00 · Panel – APAC Regional Adaption to Standardization
15:00 – 15:15 · Break
15:15 – 16:15 · Poster & Networking Session
16:15 – 17:00 · Closing Remarks

Register for Day 2 Here

Day 2 Registration Fees (In-Person)
International Student/Trainee: $50
International Academia/Government: $100
International Industry/Corporate: $200
Local Registrant: Free

ohdsi.org/2022apacsymposium

Openings

FDA/CDER's Division of Hepatology and Nutrition is seeking a clinician with bioinformatics or biostatistics training to work with the Drug-Induced Liver Injury (DILI) Team to evaluate large datasets of liver-related data, collaborate on the Team's review of drugs with hepatotoxicity signals, and help develop informatics-based processes in DILI evaluation across the Agency.

Contact **Judy Racoosin** at **judith.racoosin@fda.hhs.gov** for information about the application process (that will be through USAJOBS).

Openings

Andrew Williams recently announced
two exciting new openings at Tufts Medicine.

1) Senior Project Manager for a multisite
multiyear grant standardizing critical care
EHR and waveform data. (CHoRUS Bridge2AI)

2) Lead software developer and research data
warehouse manager for Tufts Medicine's
OMOP instance and related services.

Remote work is possible for both positions.

1. Link for Senior Project Manager position: https://smrtr.io/bBVzh

2. Link for Lead Software Developer and Research Data Warehouse Manager position: https://jobs.smartrecruiters.com/TuftsMedicalCenter1/743999857980631-software-development-lead-res-g-c-ctsi

Andrew's email:
awilliams15@tuftsmedicalcenter.org

Openings

Research Associate (Data Scientist/Statistical Engineer), Johns Hopkins inHealth and Biostatistics Center

- Execute OHDSI studies (e.g. for cohort characterizations and comparative effectiveness) on Johns Hopkins's EHR data to support clinicians;

- Collaborate with statisticians and clinicians to continuously integrate state-of-the-art statistical tools to the inHealth/OHDSI tool stack for deployment;

- Mentor trainees on data science and software development skills;

- Co-teach courses on observational health data analytics and data science skills at School of Medicine and Public Health;

- Facilitate adoption of the inHealth tools among the broader OHDSI community by contributing to OHDSI's Health Analytics Data-to-Evidence Suite.

- https://apply.interfolio.com/114436

Where Are We Going?

Any other announcements of upcoming work, events, deadlines, etc?

the journey

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