

Welcome To OHDSI

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



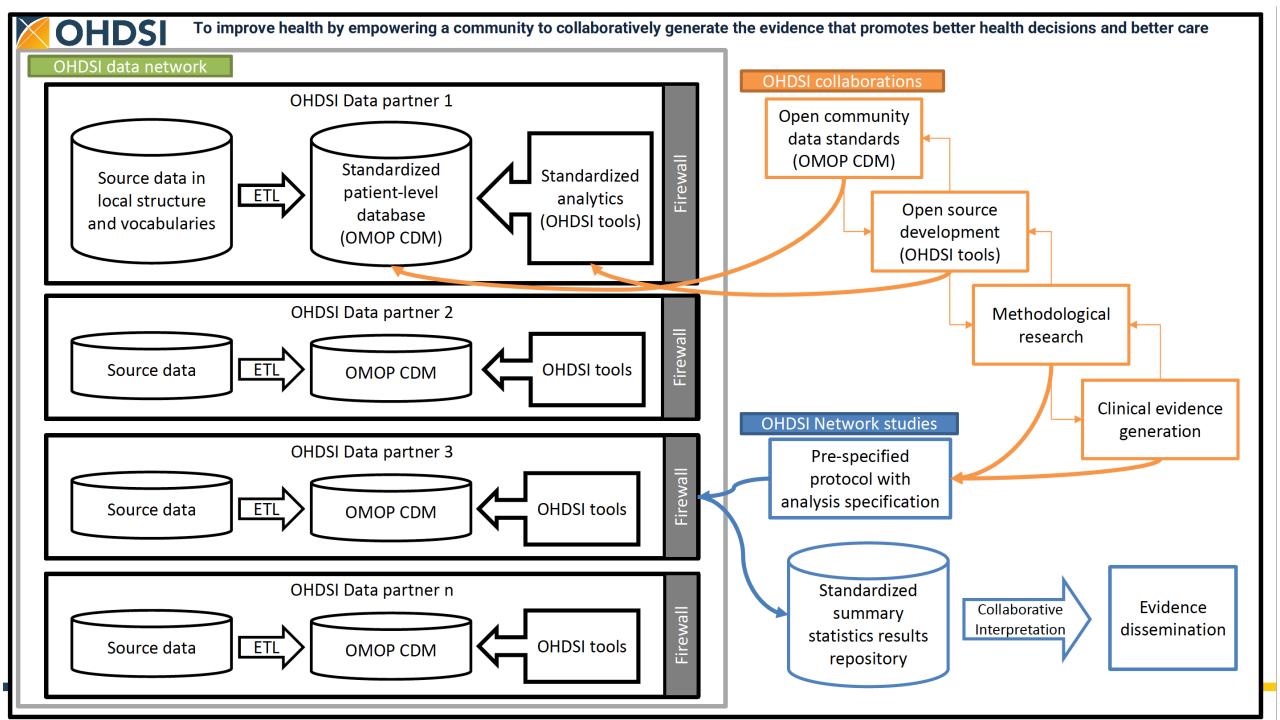






OHDSI's mission

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	Торіс
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?





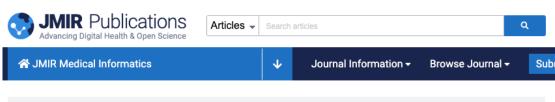








Congratulations to the team of Woo Kyung Bae, Jihoon Cho, Seok Kim, **Borham Kim, Hyunyoung Baek,** Wongeun Song, and Sooyoung Yoo on the publication of **Coronary Artery Computed Tomography Angiography for Preventing Cardio-Cerebrovascular Disease: Observational Cohort Study Using the Observational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



Published on 13.10.2022 in Vol 10, No 10 (2022): October

F Preprints (earlier versions) of this paper are available at https://preprints.jmir.org/preprint/41503, first published July 27, 2022.



Coronary Artery Computed Tomography Angiography for Preventing Cardio-Cerebrovascular Disease: Observational Cohort Study Using the Observational Health Data Sciences and Informatics' Common Data Model

Woo Kyung Bae 1 ; Jihoon Cho 2 ; Seok Kim 2 ; Borham Kim 2 ; Hyunyoung Baek 2 ; Wongeun Song 2 ; Sooyoung Yoo 2

Article	Authors	Cited by	Tweetations (2)	Metrics
Abstract	Abstract			
 Introduction 	Background:			
 Methods 		/ascular diseases (CVDs)	result in 17.5 million deaths annu	ally worldwide,
Results	9		ble causes of death, and are the le	5
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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.



Alerts Journal of the Ame Purchase About • More Content 🔻 Submit • JOURNAL ARTICLE ACCEPTED MANUSCRIPT **Article Contents** Transforming and evaluating the UK Biobank to the Abstract OMOP Common Data Model for COVID-19 research Author notes and beyond 👌 Supplementary data Vaclav Papez, Maxim Moinat, Erica A Voss, Sofia Bazakou, Anne Van Winzum, Alessia Peviani, Stefan Payralbe, Michael Kallfelz, Folkert W Asselbergs, Daniel Prieto-Alhambra ... Show more Author Notes Journal of the American Medical Informatics Association, ocac203, https://doi.org/10.1093/jamia/ocac203 Published: 13 October 2022 Article history -👃 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

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.







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 $\, imes \,$

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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.

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



International Journal of Molecular Sciences

MDPI

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 highthroughput 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.

Academic Editors: Ekaterini Chatzaki and Nima Aghaeepour

check for

updates

Citation: Ahmadi, N.; Peng, Y.;

Data-Driven Studies for Cancer

doi.org/10.3390/ijms231911834

OMOP CDM Can Facilitate

Wolfien, M.; Zoch, M.; Sedlmayr, M.

Prediction: A Systematic Review. Int. J. Mol. Sci. 2022, 23, 11834. https://

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











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



Have a study published? Please send to <u>sachson@ohdsi.org</u> so we can share during this call and on our social channels. Let's work together to promote the collaborative work happening in OHDSI!



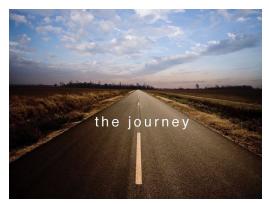
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Three Stages of The Journey

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





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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/



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2022 OHDSI Symposium





#JoinTheJourney







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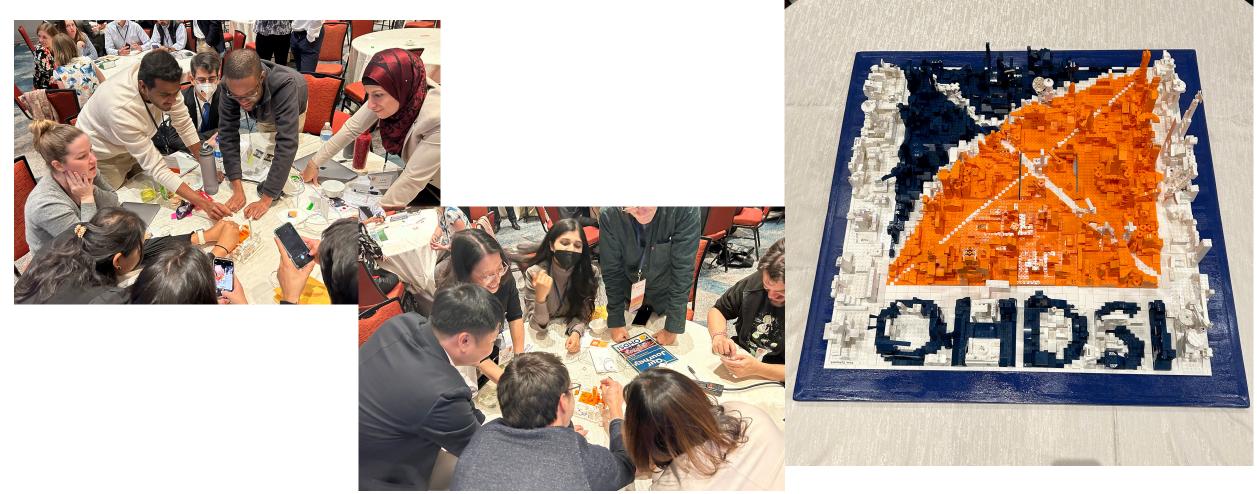
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2022 OHDSI Symposium



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2022 Titan Award Honorees







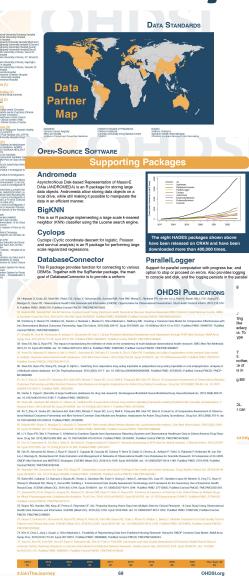
Version 2 of Our Journey



Where The OHDSI Community Has Been And Where We Are Going 2022 edition



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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.

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.



UK Health Data Research Alliance

- 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

The deadline to apply is Friday, Nov. 11.







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 hormonesensitive 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 I 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



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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).









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: <u>https://smrtr.io/bBVzh</u>
- Link for Lead Software Developer and Research Data Warehouse Manager position: <u>https://jobs.smartrecruiters.com/</u> <u>TuftsMedicalCenter1/743999857</u> <u>980631-software-developmentlead-res-g-c-ctsi</u>

Andrew's email: awilliams15@tuftsmedicalcenter.org











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 <u>Health Analytics Data-to-Evidence Suite</u>.
- https://apply.interfolio.com/114436







Where Are We Going?

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





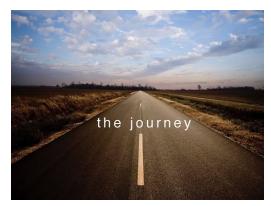






Three Stages of The Journey

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





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