OHDSI Year In Review 2022
What was your favorite OHDSI highlight in 2022?

Top

No responses received yet. They will appear here...
OHDSI’s mission

To improve health by empowering a community to collaboratively generate the evidence that promotes better health decisions and better care
OHDSI Community

**OHDSI data network**

**OHDSI Data partner 1**
- Source data in local structure and vocabularies
- ETL
- Standardized patient-level database (OMOP CDM)
- Standardized analytics (OHDSI tools)

**OHDSI Data partner 2**
- Source data
- ETL
- OMOP CDM
- OHDSI tools

**OHDSI Data partner 3**
- Source data
- ETL
- OMOP CDM
- OHDSI tools

**OHDSI Data partner n**
- Source data
- ETL
- OMOP CDM
- OHDSI tools

**Firewall**

**Open community data standards (OMOP CDM)**
- Open source development (OHDSI tools)
- Methodological research
- Clinical evidence generation

**OHDSI Network studies**
- Pre-specified protocol with analysis specification

**OHDSI collaborations**
- Standardized summary statistics results repository
- Collaborative Interpretation
- Evidence dissemination

**OHDSI Network studies**
OHDSI 2022 Schedule of events
January activities:
What should we accomplish together?

Engineering open science systems that build trust into the real-world evidence generation and dissemination process

System characteristics:
- Standardized procedures with defined inputs and outputs
- Analysis packages implementing scientific best practices consistently applied across all data partners, generating consistent output for network synthesis
- Reproducible outputs generated by open-source analysis libraries developed and validated with verifiable unit-test coverage
- Pre-specified and objective decision thresholds for go/no go criteria
- Measurable operating characteristics of system performance
January accomplishments:
Standardized Vocabularies release

Release notes v20220128

What's new

- MedDRA vocabulary has been updated with its 24.1 (1 Nov 2021) version. The first time we introduced "Maps to" / "Maps to value" relationships from MedDRA Classification concepts to Standard OMOP vocabulary concepts. In total, we added 13,672 relationships came from the SNOMED-MedDRA collaboration project and OHDSI collaborators. For concepts that obtained the new "Maps to" links, the old "SNOMED - MedDRA eq" relationships are deprecated.
- PPI: Winter Minute Survey on COVID-19 Vaccines was added.
- Oncotree was updated to 2020-10-01 version. Note, it was a quick update, so new OncoTree concepts weren't mapped.
- NDC/SPL regular weekly update.

This guide can provide you more background on how to read the release notes.
January accomplishments:
Open-source tool releases

HADeS
Health Analytics Data-to-Evidence Suite

MethodEvaluation v2.2.0
ROhdsiWebApi v1.3.1
SelfControlledCohort v1.6.0

V1.2 + CapR
Seek COVER: using a disease proxy to rapidly develop and validate a personalized risk calculator for COVID-19 outcomes in an international network.


BMC Medical Research Methodology

1. DETERMINE COVER SCORES
2. LEARN THE RISKS
3. COMPARE THE RISK WITH OTHERS

A digital version of this risk calculator is available at: http://evidence.ki.org/COVERCalculation
February activities:
Phenotype Phebruary

https://www.ohdsi.org/phenotype-phebruary/
February activities:
Workgroup Leadership Summit

<table>
<thead>
<tr>
<th>Workgroup/Project</th>
<th>Current Participants</th>
<th>Lead(s)</th>
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</thead>
<tbody>
<tr>
<td>APAC (Asia-Pacific)</td>
<td>269</td>
<td>Mui Van Zandt</td>
</tr>
<tr>
<td>ATLAS/WebAPI</td>
<td>226</td>
<td>Anthony Sena</td>
</tr>
<tr>
<td>Clinical Trials</td>
<td>252</td>
<td>Mike Hamidi, Lin Zhen</td>
</tr>
<tr>
<td>Common Data Model</td>
<td>596</td>
<td>Clair Blacketer</td>
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<tr>
<td>Data Quality</td>
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<td>Clair Blacketer</td>
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<td>Dashboard Development</td>
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<td>Early-Stage</td>
<td>214</td>
<td>Faizah Arshad, Ross Williams</td>
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<td>Researchers</td>
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<tr>
<td>Medical Imaging</td>
<td>114</td>
<td>Paul Nagy, Seng Chan You</td>
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<tr>
<td>Natural Language</td>
<td>379</td>
<td>Hua Xa</td>
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<tr>
<td>Processing</td>
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<td></td>
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<tr>
<td>Oncology</td>
<td>241</td>
<td>Aseih Golozar</td>
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<tr>
<td>Patient-Level</td>
<td>355</td>
<td>Jenna Reps, Ross Williams</td>
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<td>Prediction</td>
<td></td>
<td></td>
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<tr>
<td>Phenotype Development &amp; Evaluation</td>
<td>249</td>
<td>Gowtham Rao</td>
</tr>
<tr>
<td>Registry</td>
<td>115</td>
<td>Tina Parciak</td>
</tr>
<tr>
<td>Geographic Information System (GIS)</td>
<td>122</td>
<td>Robert Miller, Andrew Williams</td>
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<tr>
<td>Eye Care &amp; Vision Research</td>
<td>40</td>
<td>Sally Baxter, Kerry Goetz</td>
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<tr>
<td>HADES (Health Analytics Data-to-Evidence Suite)</td>
<td>262</td>
<td>Martin Schuermie</td>
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<tr>
<td>Health Equity</td>
<td>201</td>
<td>Jake Gilberg</td>
</tr>
<tr>
<td>Population-Level Effect Estimation</td>
<td>355</td>
<td>Martin Schuermie, Marc Suchard</td>
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<tr>
<td>Psychiatry</td>
<td>115</td>
<td>Dmitry Dymshyts, Andrew Williams</td>
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<tr>
<td>Latin America</td>
<td>48</td>
<td>Jose Posada</td>
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<td>Medical Devices</td>
<td>130</td>
<td>Vojtech Huser, Asiyah Lin</td>
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<td>Steering Group</td>
<td>70</td>
<td>Patrick Ryan</td>
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<td>Surgery and</td>
<td>37</td>
<td>Evan Minity</td>
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<td>Perioperative Medicine</td>
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<td></td>
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<tr>
<td>Vaccine Vocabulary</td>
<td>76</td>
<td>Adam Black</td>
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</tbody>
</table>

+ Dentistry in Nov2022!
Background rates of five thrombosis with thrombocytopenia syndromes of special interest for COVID-19 vaccine safety surveillance: Incidence between 2017 and 2019 and patient profiles from 38.6 million people in six European countries

Edward Burn¹,² ⊗ | Xintong Li² ⊗ | Kristin Kostka³,⁴ ⊗ | Henry Morgan Stewart² | Christian Reich³ ⊗ | Sarah Seager³ | Talita Duarte-Salles¹ ⊗ | Sergio Fernandez-Bertolin⁵ ⊗ | Maria Aragon⁴ | Carlen Reyes¹ |
Eugenia Martinez-Hernandez⁵ ⊗ | Edelmira Marti⁶ ⊗ | Antonella Delmestri² ⊗ | Katia Verhamme⁷ ⊗ | Peter Rijnbeek⁷ ⊗ | Scott Horban⁸ | Daniel R. Morales⁸ ⊗ | Daniel Prieto-Alhambra²,⁷ ⊗
March activities:
CDM Workshops

March 15: CDM Workshop, Part 2

Clair Blacketer
Associate Director
Janssen Research & Development

Anthony Molinaro
Manager, Epidemiology Analytics
Janssen Research & Development

Melanie Philofsky
Senior Business Analyst and Project Manager
Odysseus Data Services, Inc.

Frank DeFalco
Director, Observational Health Data Analytics
Janssen Research & Development

https://www.ohdsi.org/community-calls/
March accomplishments: Open-source tool releases

**HADeS**

**Health Analytics Data-to-Evidence Suite**

V1.3 + EnsemblePLP

**EnsemblePatientLevelPrediction v0.0.2**

**Hydra v0.3.0**
March publications

Original Investigation | Cardiology

Analysis of Dual Combination Therapies Used in Treatment of Hypertension in a Multinational Cohort

Yuan Lu, ScD; Mui Van Zandt, BS; Yun Liu, PhD; Jing Li, MS; Xialin Wang, MS; Yong Chen, PhD; Zhengfeng Chen, MBBS, MMED; Jaehyeong Cho, PhD; Sreemanee Raj Dorajoo, PhD; Mengling Feng, PhD; Min-Huei Hu, MD, PhD; Jason C. Hsu, PhD; Usman Iqbal, PharmD, MBA, PhD; Jitendra Jonnagaddala, PhD; Yu-Chuan Li, MD, PhD; Siaw-Teng Liew, MBBS, PhD; Hong-Seok Lim, MD, PhD; Kee Yuan Ngiam, MBBS, MBChB; Phung-Anh Nguyen, PhD; Rae Woong Park, MD, PhD; Nicole Pratt, PhD; Christian Reich, MD, PhD; Sang Youl Rhee, MD; Selva Muthu Kumaran Sathappan, MSc; Seo Jeong Shin, PhD; Hui Xing Tan, M Tech; Seng Chan You, MD, PhD; Xin Zhang, MS; Harlan M. Krumholz, MD, SM; Marc A. Suchard, MD, PhD; Hua Xu, PhD.

Symposium

NO Matched Found

Table 1. Use of 12 Dual Antihypertensive Medication Combinations From 11 Compared Data Sources

<table>
<thead>
<tr>
<th>Medication Combination</th>
<th>Australia</th>
<th>South Korea</th>
<th>Singapore</th>
<th>China</th>
<th>Japan</th>
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<tbody>
<tr>
<td>A + B</td>
<td>6762 (72.8)</td>
<td>1474 (60.9)</td>
<td>2092 (54.5)</td>
<td>208 (23.9)</td>
<td>137 (49.4)</td>
</tr>
<tr>
<td>A + C</td>
<td>3842 (44.4)</td>
<td>606 (31.7)</td>
<td>1266 (26.2)</td>
<td>147 (15.5)</td>
<td>116 (59.5)</td>
</tr>
<tr>
<td>A + D</td>
<td>1078 (11.6)</td>
<td>266 (12.2)</td>
<td>392 (6.5)</td>
<td>49 (5.2)</td>
<td>105 (12.5)</td>
</tr>
<tr>
<td>B + C</td>
<td>2080 (22.8)</td>
<td>508 (22.1)</td>
<td>474 (7.2)</td>
<td>12 (2.2)</td>
<td>16 (2.0)</td>
</tr>
<tr>
<td>B + D</td>
<td>775 (8.5)</td>
<td>114 (5.9)</td>
<td>134 (2.3)</td>
<td>217 (22.8)</td>
<td>120 (10.3)</td>
</tr>
<tr>
<td>C + D</td>
<td>64 (0.7)</td>
<td>18 (0.8)</td>
<td>259 (3.5)</td>
<td>15 (1.6)</td>
<td>11 (1.3)</td>
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<tr>
<td>D + E</td>
<td>806 (8.7)</td>
<td>281 (12.8)</td>
<td>323 (17.0)</td>
<td>107 (12.2)</td>
<td>370 (22.0)</td>
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<tr>
<td>E + F</td>
<td>635 (6.8)</td>
<td>210 (9.5)</td>
<td>306 (6.4)</td>
<td>98 (10.3)</td>
<td>68 (6.1)</td>
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<tr>
<td>F + G</td>
<td>314 (3.6)</td>
<td>54 (2.4)</td>
<td>614 (27.0)</td>
<td>190 (20.3)</td>
<td>97 (11.5)</td>
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<tr>
<td>G + H</td>
<td>266 (3.3)</td>
<td>17 (0.8)</td>
<td>51 (2.6)</td>
<td>19 (1.9)</td>
<td>5 (0.6)</td>
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<tr>
<td>H + I</td>
<td>249 (2.6)</td>
<td>133 (5.8)</td>
<td>536 (24.6)</td>
<td>134 (2.9)</td>
<td>134 (2.7)</td>
</tr>
<tr>
<td>I + J</td>
<td>406 (4.3)</td>
<td>154 (6.2)</td>
<td>3 (0.3)</td>
<td>14 (1.0)</td>
<td>6 (0.4)</td>
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<tr>
<td>J + K</td>
<td>124 (2.5)</td>
<td>51 (2.2)</td>
<td>139 (2.1)</td>
<td>6 (0.6)</td>
<td>4 (0.5)</td>
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<tr>
<td>K + L</td>
<td>21 (0.2)</td>
<td>46 (1.8)</td>
<td>53 (2.3)</td>
<td>6 (0.7)</td>
<td>6 (0.5)</td>
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<tr>
<td>L + M</td>
<td>78 (1.1)</td>
<td>160 (1.6)</td>
<td>53 (2.3)</td>
<td>6 (0.7)</td>
<td>6 (0.5)</td>
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<tr>
<td>M + N</td>
<td>328 (3.2)</td>
<td>74 (3.2)</td>
<td>123 (5.2)</td>
<td>14 (1.0)</td>
<td>14 (1.0)</td>
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<tr>
<td>N + O</td>
<td>798 (8.9)</td>
<td>151 (2.0)</td>
<td>2258 (3.0)</td>
<td>78 (1.1)</td>
<td>160 (1.6)</td>
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</table>
April activities:
OHDSI DevCon 2022

OHDSI DevCon 2022 Welcomes & Mentors New Contributors To Our Open-Source Environment

Watch All Eight Workshops, Talks & The Panel From DevCon Below

The Open-Source Community hosted the first Dev Con on Friday, April 22 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 this session have or will be uploaded to this page. A big announcement from DevCon was the formation of the Khieron Contributor Cohort, which will help onboard and mentor open-source developers in the community. If you are interested in joining the effort, please fill out the application.

To learn more about the Khieron Contributor Cohort, please check out the State of the Open Source Community presentation below.

Martijn Schuemie provided the keynote address during DevCon 2022, entitled “Open-Source Software and Science … Obviously.” His slides are available here.

https://www.ohdsi.org/devcon2022/
April activities: OHDSI central coordinating center

Support The Journey

OHDSI Sponsorship Helps Provide A Foundation For Our Global Research Efforts

The OHDSI community is comprised of a global team of volunteers who collaborate together using open-source tools and shared best practices to support our shared mission of generating real-world evidence that promotes better health decisions and better care. 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 a sponsorship program.

Check out our OHDSI sponsors page here.

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.

Below the sponsorship level information is a section about how your sponsorship impacts our community. To learn more about OHDSI’s activities, achievements and many other aspects of our global community, please search our webpage or check out our 2021 Annual Report: Our Journey.

Sponsorship Levels

GOLD

- Donation level: US $500k/year
- Your logo (max size: 400x185) will be placed on our OHDSI Sponsors page with link to your home page
  - Logo placed in top section under Gold Level Sponsors heading
  - Logo placed in alphabetical order
  - Logo placed in a two-column row
- Use of OHDSI Gold Sponsor logo on your site
- Joint press release with OHDSI
- Annual meeting with OHDSI leadership to learn about current and future initiatives, and participate in an OHDSI sponsor question & answer

https://www.ohdsi.org/sponsorship/
April accomplishments:
Standardized Vocabularies release

Release notes v20220409

What's New

This release focused mainly on an update of the RxNorm vocabulary (March 2022 release). Alongside with this, the regular NDC/SPL refresh was done. We also released the “Personal and Family Health History” module in the PPI vocabulary for the AllofUs research program. This module notably is composed in the old model, as it was largely aligned with earlier versions of history modules.

Some UCUM units were processed as part of a unit harmonization step that will be continued over the next couple of releases.
April accomplishments:
Open-source tool releases

CapR v1.0.3

ATLAS/WebAPI v2.11.0 + "reusables" + PersonCounts
April publications

Characterizing Anchoring Bias in Vaccine Comparator Selection Due to Health Care Utilization With COVID-19 and Influenza: Observational Cohort Study

Anna Ostropolski, MD; Patrick B Ryan, PhD; Martijn J Schuermans, PhD; George Hripea, MD

1Department of Biomedical Informatics, Columbia University Irving Medical Center, New York, NY, United States
2Epidemiology Analytics, Janssen Research and Development, Titusville, NJ, United States
3Medical Informatics Services, New York-Presbyterian Hospital, New York, NY, United States

Unvaccinated population

Vaccinated population, indexed on the date of vaccination
May activities:
DARWIN-EU

May 3 Community Call: DARWIN EU

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

Erasmus MC contracted to establish DARWIN EU® Coordination Centre for the European Medicines Agency

@OHDSI
www.oahds.org
#JoinTheJourney
May accomplishments:
Standardized Vocabularies release

Release notes v20220510

What's New

- As the first step of the construction work under the axis of historical concepts we introduced a set of new OMOP Extension domain-agnostic concepts. They include: (i) all-in-one bucket History of event concept that implies the semantics of a historical event, context, qualifier, or value; (ii) a hierarchy of enhanced historical concepts that bring additional time context (History of event within... and History of event longer than...). Old domain-specific OMOP Extension historical concepts (e.g. Past history of procedure within 1 month) are deStandardized, invalidated as Upgraded ones and mapped over to the respective new concepts. On the next SNOMED refresh, the same steps will be taken on the respective historical concepts.
- We added a brand new set of the Cancer Modifier Staging/Grading concepts designed to capture major Staging and Grading cancer parameters and response
May accomplishments:
Open-source tool releases

Andromeda v0.6.1
Identifying who has long COVID in the USA: a machine learning approach using N3C data

Emily R Pfaff, PhD • Andrew T Girvin, PhD • Tellen D Bennett, MD • Abhishek Bhatia, MS • Ian M Brooks, PhD • Rachel R Deer, PhD • Jonathan P Dekermanjian, MS • Sarah Elizabeth Jolley, MD • Michael G Kahn, MD • Kristin Kostka, MPH • Julie A McMurry, MPH • Richard Moffitt, PhD • Anita Walden, MS • Prof Christopher G Chute, MD • Prof Melissa A Haendel, PhD • The N3C Consortium

Open Access • Published: May 16, 2022 • DOI: https://doi.org/10.1016/S2589-7500(22)00111-9
June activities:

OHDSI Europe Symposium

https://www.ohdsi.org/2022-european-symposium/
June accomplishments:
Open-source tool releases

Cyclops v3.2.0
Eunomia v1.0.2
June publications

ORIGINAL RESEARCH ARTICLE

Phenotype Algorithms for the Identification and Characterization of Vaccine-Induced Thrombotic Thrombocytopenia in Real World Data: A Multinational Network Cohort Study

Azza Shoail1,2 · Gowtham A. Rao1,2 · Erica A. Voss1,2 · Anna Ostropelet2,3 · Miguel Angel Mayer4 · Juan Manuel Ramirez-Anguita5 · Filip Majkovic5 · Biljana Carevic5 · Scott Horban7 · Daniel R. Morales7 · Talita Duarte-Salles8 · Clement Fraboulet9 · Tanguy Le Carrou10 · Spiros Denaxas11 · Vaclav Papez11 · Luis H. John Peter R. Rijnik12 · Evan Minty13 · Thamir M. Alshammari2,14 · Rupa Makadia1,2 · Claire Blacketer1,2 · Frank DeFalco1 · Anthony G. Sera1,2 · Marc A. Suchard15 · Daniel Prieto-Alhambra16 · Patrick B. Ryan1,2

Islaam, + 7 authors, Yong Chen

Interpreting COVID-19 data across 230 sites.

Parzen Vora, Henry Morgan Stewart, Beth Russell, + 2 authors, Gunnar Brobert


Rohan Khara, Marije J Schouwena, Yuan Liu, + 6 authors, Marc A Suchard

Large-scale evidence generation and evaluation across a new database for type 2 diabetes mellitus (LCCC2D-T2DM), a new source of multinational, real-world comparative, arms-to-arms effectiveness and safety studies.

Paul M Heider, Ronak M Pipalia, Stephano M Msyistra

A Natural Language Processing Tool Offering Data Extraction: COVID-19 Related Information (DECCOR).

Lamy Jean-Baptiste, Abdelmalek Mouzzer, Karima Salki, + 1 authors, Rosy Toopra

Translating the Observational Medical Outcomes Partnership - Common Data Model (OMOP-CDM) Electronic Health Record (EHR) Ontology.

Melanie Boy, William Digan, Xiaoyi Chen, + 4 authors, Nicolas Garabedian

A Multi-Omics Common Data Model for Primary Immunodeficiency Patients.

Azza Shoail1, Gowtham A. Rao1, Erica A. Voss1, Patrick B. Ryan

Phenotype Algorithms for the Identification and Characterization of Vaccine-Induced Thrombotic Thrombocytopenia in Real World Multinational Network Cohort Study.

Martijn J. Schuemie, Faizah Arshad, Nicole Pratt, Fredrik Nyborg, Thamir M Alshammari, George Hripcsak, Patrick Ryan, Daniel Prieto-Alhambra, Lana Y. H. Lai, Xintong Li, Stephen Fortin, Euan Minty, and Marc A. Suchard

July publications
August activities:
Early Stage Researcher Career Speaker Series

OHDSI CAREER SPEAKER EVENT
Organized by Early Stage Researchers WG

ASIEH GOLOZAR
VICE PRESIDENT, GLOBAL HEAD OF DATA SCIENCE at Odysseus Services

MONDAY
AUGUST 8, 2022
TIME
11 AM - 12 PM EST
JOIN: MS TEAMS

- Professor of the practice and director of clinical research at OHDSI Center- Northeastern university.
- 20+ years of experience in life science research and medicine. Medical degree from Tehran University of Medical Sciences, PhD in epidemiology and a MS in biostatistics from Johns Hopkins University, supported by a postdoctoral research fellowship award with the NCI’s Division of Cancer Epidemiology and Genetics.
- Primarily interested in observational oncology and assessment of the reproducibility of observational comparative effectiveness research
- Former leader and expert at Regeneron Pharmaceuticals, AstraZeneca and Bayer.
- Leader of OHDSI Oncology Working Group, focusing on extending the ONOP CDIM to support oncology use cases and advance large-scale observational research.

+ Jenny Jane, Jenna Reps, Rupa Makadia, Kristin Kostka

Early Stage Researchers ‘Meet The Mentors’ session at OHDSI2022 Symposium
August activities: EHDEN Academy

Aug. 30 Community Call: EHDEN Academy/EHDEN Portal

EHDEN Academy
Nigel Hughes
Scientific Director, Observational Health Data Analytics/Epidemiology + Janssen Research and Development

EHDEN Portal
Julia Kurps
Team Lead, Real World Data • The Hyve

dash.ohdsi.org
August accomplishments:
Special ISPE award for contributions to public health associated with the COVID-19 pandemic
August accomplishments:
Standardized Vocabularies release

Release notes v20220829_major

This guide can provide you more background on how to read the notes.

What's New

1. SNOMED package.
   - The vocabulary was updated with the respective versions of its components: SNOMED CT International 2021/07, US 2021/09, UK 2021/11.
   - We continued (after the v20220510 release) a construction of axis of historical concepts. The "History of clinical finding in subject", "Past history of procedure", "History of" and many other SNOMED concepts (including their descendants) were deStandardised and split (mapped over to the appropriate OMOP Extension concept of the "History of event" hierarchy with a value of a respective condition or procedure within a combination of "Maps to" and "Maps to value" relationships). The mentioned hierarchy was recently introduced as a set of new OMOP Extension domain-agnostic concepts. They include: (i) an all-in-one bucket...
August accomplishments:
Open-source tool releases

CohortMethod v4.2.3
EmpiricalCalibration v3.1.1
SelfControlledCaseSeries v3.4.0
August publications

Journal of Biomedical Informatics 135 (2022) 104177

Contents lists available at ScienceDirect

Journal of Biomedical Informatics

journal homepage: www.elsevier.com/locate/ybin

Original Research

PheValuator 2.0: Methodological improvements for the PheValuator approach to semi-automated phenotype algorithm evaluation

Joel N. Swerdel a, c, *, Martijn Schuemie a, c, Gayle Murray a, Patrick B. Ryan a, b, c

* Janssen Research and Development, Titusville, NJ, USA
a Columbia University, New York, NY, USA
b Observational Health Data Sciences and Informatics (OHDSI), New York, NY

<table>
<thead>
<tr>
<th>Journal</th>
<th>SNOMED Terms (a)</th>
<th>Citation Count</th>
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<td>Journal of biomedical informatics</td>
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<td>Journal of biomedical informatics</td>
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<tr>
<td>Gastro hep advances</td>
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<tr>
<td>BMC medical informatics and decision making</td>
<td>COVID-19 (6), Aortic valve regurgitation (2), Contagious disease (1)</td>
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</table>
September activities:
EH DEN Pharmacovigilance study-a-thon

https://www.ehden.eu/uppsala-monitoring-
centre-ehden-pharmacovigilance-evidence-
a-thon/b
September accomplishments: Open-source tool releases

DatabaseConnector v5.1.0
EvidenceSynthesis v0.3.0
IterativeHardThresholding v1.0.2
September publications

 adjusting for indirectly measured confounding using large-scale propensity score

Linying Zhang, Yixin Wang, Martijn J. Schuemie, David M. Blei, George Hripcsak

(a) Acute myocardial infarction
(b) Chronic kidney disease
October activities:
OHDSI2022 Symposium

https://www.ohdsi.org/ohdsi2022symposium/
October activities:
OHDSI2022 Symposium

Session I - State of the Community
- State of the Community (George Hripcsak, Columbia University)
- Safety Monitoring of COVID-19 Vaccines within the FDA BEST Initiative (Patricia Lloyd, US Food and Drug Administration)

Session II - Plenary
- Objective Diagnostics: A pathway to provably reliable evidence (Martijn Schuemie, Johnson & Johnson; Patrick Ryan, Johnson & Johnson/Columbia University)

Session III - OHDSI support for regulatory authorities
- US FDA/CBER, Performance of vaccine safety surveillance methods (Fan Bu, UCLA)
- Korean National Institute of Food and Drug Safety Evaluation: Evolution of Evidence-Based Medicine: Why Do We Replicate Trials? (Seng Chan You, Yonsei University)
- European Medicines Agency: DARWIN-EU (Peter Rijnbeek, Erasmus MC)

Session IV - Lightning Talks
- Disambiguation of ICPC codes using free-text and active learning to improve concept mappings (Tom Selinen, Erasmus MC)
- OHDSI Phenotype Rheeuary: lessons learned (Azza Shoaiib, Johnson & Johnson)
- Reduce, Reuse, & Recycle: Going Green with Atlas Reusables (Ajit Londhe, Amgen)
- Best practices for prognostic model development using observational health data: a scoping review (Cynthia Yang, Erasmus MC)
- Machine Learning for Predicting Patients at Risk of Prolonged Opioid Use Following Surgery (Behzad Naderalvojoud, Stanford University)
- When does statistical equality meet health equity? developing analytical pipelines to compare associational and causal fairness in their application to EHR data (Linying Zhang, Columbia University)
- Analyzing the Effect of Hypertension on Retinal Thickness Using Radiology Common Data Model (R-CDM) (Chul Hyoun Park, Ajou University)
- Multinational Patterns of Second-line Anti-hypoglycemic Drug Initiation: A LEGEND-T2DM Study (Lovedeep Dhingra, Yale University)

Session V - Closing
- Building A Healthier World Together/Announcement of 2022 Titan Award Winners (Patrick Ryan, Johnson & Johnson/Columbia University)
October activities:
OHDSI2022 Symposium Tutorial

1. Overview of the OHDSI Journey: Where are we going?
   Faculty: Patrick Ryan
   Video Slides

2. OMOP Common Data Model & Vocabulary/ETL a source database into OMOP CDM
   Faculty: Clair Blacketer, Melanie Philofsky
   Video Slides

3. Creating cohort definitions
   Faculty: Asieh Golozar
   Video Slides

4. Phenotype evaluation
   Faculty: Gowtham Rao
   Video Slides

5. Characterization
   Faculty: Kristin Kostka
   Video Slides

6. Estimation
   Faculty: Martijn Schuemie
   Video Slides

7. Prediction
   Faculty: Jenna Reps
   Video Slides

8. Where do we go from here?
   Faculty: George Hripcsak
   Video

https://www.ohdsi.org/ohdsi2022-tutorial/
October accomplishments:
Our Journey 2022

October accomplishments: Our Journey 2022

OHDSI Data By The Numbers

- 453 data sources
  - 374 EHRs
  - 34 registries
  - 30 administrative claims
- 41 countries
- 928 million unique patient records (12% of world’s population)

October accomplishments:
Our Journey 2022

Africa
Current Participants: 66
Lead: Nega Gebreyesus

Australia
Current Participants: 74
Lead: Nicole Pratt

China
Current Participants: 228
Lead: Hua Xu

Europe
Current Participants: 321
Lead: Peter Rijnbeek

India
Current Participants: new
Lead: Swetha Kiranmayi Jakkuvu

Japan
Current Participants: 49
Lead: Tatsuo Hiramatsu

Korea
Current Participants: 55
Lead: Seng Chan You

Singapore
Current Participants: 58
Lead: Mengling Feng

Taiwan
Current Participants: 71
Lead: Jason Hsu

October accomplishments:
Standardized Vocabularies release

Release notes v20221031

OHDSIVocabularyReleaseRobot released this Oct 31

This guide can provide you more background on how to read the release notes.

What's New

This release contains a number of urgent fixes and additions requested by N3C (issue #697) and FDA-BEST (issues #666 - #683 - #685) as well as some pending refreshes that were originally meant to be released a little later. This is not yet the planned "Indian Summer release".

- selected additions to the CPT4 vocabulary to cover recent new codes for Monkeypox and bivalent COVID-19 vaccines. The full CPT4-2022 release is still not available in UMLS and will have to wait for a release later this year.
- several mapping fixes and additions in the HCPCS vocabulary
- refresh of the CGI and CIViC genomic variant vocabularies
- RxNorm refresh
October accomplishments: Open-source tool releases

CohortGenerator v0.7.0
DeepPatientLevelPrediction v1.0.1
PatientLevelPrediction v6.0.8

ATLAS/WebAPI v2.12.0 + PHOEBE2.0
October publications

Research and Applications

Transforming and evaluating the UK Biobank to the OMOP Common Data Model for COVID-19 research and beyond

Vaclav Papez1,2, Maxim Molin3,4, Erica A. Voss5,6, Sofia Bazakou7, Anne Van Winsum7, Alessia Peviani2,8, Stefan Pavlakis9, Michael Kallfelz9, Folkert W. Asselbergs1,2, Daniel Prieto-Alhambra1,4, Richard J.B. Dobson1,2,9, and Spiros Denaxas1,2,10,11


Research and Applications

Enriching with clinical data

Woo Kyoung Bae, Jhoon Cho, S. authors, Sooyoung Yoo

International journal of molecular sciences

White Rabbit Scan

ETL runs on UKB

Data Validation

OMOPed data

Create synthetic data

Develop ETL

Refine scripts

1

2

3

Galaphyse
November activities: OHDSI APAC Symposium
November accomplishments:
Open-source tool releases

HADeS
Health Analytics Data-to-Evidence Suite

V1.5 + CohortExplorer

CirceR v1.2.0
November accomplishments:
George Hripcsak – Morris Collen Award
November publications

Research and Applications

Evaluating a novel approach to stimulate open science collaborations: a case series of “study-a-thon” events within the OHDSI and European IMI communities


Emily Jefferson, Christian Cole, Shahzad Munir, et 74 authors. Philip Quistian
Introducing the OMOP CDM ER diagram challenge! Submissions due 13Dec2022

Patrick_Ryan

I'd like to announce the OMOP Common Data Model (CDM) Entity-Relationship Diagram (ERD) Challenge! Starting today, all members of the OHDSI community are welcome and encouraged to submit their entries of the best ERD for the OMOP CDM to this forum post (or to the CDM Workgroup teams site) by Tuesday, Dec 13. One winner will be selected by a committee from the CDM workgroup, and announced on OHDSI's last community call of the year on Dec20, with their award-winning ERD being a gift to our entire community, posted on the official OMOP CDM git page, but also the winner receiving a special gift from the OHDSI community! This should be a fun activity for our community, particularly those of you helping drive our open community data standards, to learn and collaborate and contribute to a community resource that all of us can benefit in. So, please accept the OMOP CDM ERD Challenge and get diagraming!
December accomplishments:
Open-source tool releases

**HADES**
Health Analytics Data-to-Evidence Suite

- **V1.6 + PheValuator**

CohortDiagnostics v3.1.1
CohortExplorer v0.0.8
ParallelLogger v3.1.1
PhenotypeLibrary v3.7.0
PheValuator v2.1.13
SqlRender v1.11.0
DataQualityDashboard v2.0.0
Illustration of Continuous Enrollment and Beneficiary Categorization in DoD and VA Infrastructure for Clinical Intelligence

Veronika Pav, MS*, †; Andrew Burns, BS‡; Courtney Colahan, MS*; Brian Robison, MPH§, ||; Jacob Kean, PhD§, ||; Scott DuVall, PhD§, ||
OHDSI Publications in 2022

OHDSI Publications & Cumulative Citations

Number of Publications

Year

2012
2014
2016
2018
2020
2022

Number of Citations

0
2k
4k
6k
8k
10k
12k
14k

dash.ohdsi.org
OHDSI Co-authors in 2022

New and Cumulative OHDSI Researchers

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<table>
<thead>
<tr>
<th>Rank</th>
<th>Votes</th>
<th>Highlight</th>
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</thead>
<tbody>
<tr>
<td>1</td>
<td>26</td>
<td>Everything is Awesome!</td>
</tr>
<tr>
<td>2</td>
<td>15</td>
<td>OHDSI Symposium</td>
</tr>
<tr>
<td>3</td>
<td>14</td>
<td>Getting to meet in person!</td>
</tr>
<tr>
<td>4</td>
<td>10</td>
<td>Patrick's rap during the Everything is Awesome song :)</td>
</tr>
<tr>
<td>5</td>
<td>10</td>
<td>DARWIN EU</td>
</tr>
<tr>
<td>6</td>
<td>10</td>
<td>LEGOos!!</td>
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