Week 4
Workgroup 2023 OKRs and Phenotype Phebruary Updates

OHDSI Community Call
Feb. 28, 2023 • 11 am ET
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Three Stages of The Journey

Where Have We Been?
Where Are We Now?
Where Are We Going?
Congratulations to the team of Anna Ostropolets, Yasser Albogami, Mitchell Conover, Juan Banda, William Baumgartner, Clair Blacketer, Priyamvada Desai, Scott DuVall, Stephen Fortin, James Gilbert, Asieh Golozar, Joshua Ide, Andrew Kanter, David Kern, Chungsoo Kim, Lana Lai, Chenyu Li, Feifan Liu, Kristine Lynch, Evan Minty, Maria Inês Neves, Ding Quan Ng, Tontel Obene, Victor Pera, Nicole Pratt, Gowtham Rao, Nadav Rappoport, Ines Reinecke, Paola Saroufim, Azza Shoaibi, Katherine Simon, Marc Suchard, Joel Swerdel, Erica Voss, James Weaver, Linying Zhang, George Hripcsak, and Patrick Ryan on the publication of Reproducible variability: assessing investigator discordance across 9 research teams attempting to reproduce the same observational study in JAMIA.
OHDSI Shoutouts!

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

Do you have anything you want to share? Please send to sachson@ohdsi.org so we can highlight 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

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<td>OMOP CDM Oncology Outreach/Research Subgroup</td>
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<td>Wednesday</td>
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<td>Methods Research</td>
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<td>Methods Research</td>
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<td>OMOP CDM Oncology Vocabulary/Development Subgroup</td>
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<td>GIS – Geographic Information System Development</td>
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<td>Monday</td>
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[ohdsi.org/workgroups](https://www.ohdsi.org/workgroups)
Spotlight: Faaizah Arshad

Get to know Faaizah Arshad in the latest collaborator spotlight.

- UCLA psychology major
- first undergraduate to present during symposium plenary
- co-founded the Early-Stage Researchers WG
- honored with 2021 Titan Award for Community Support

ohdsi.org/spotlight-faaizah-arshad
OHDSI HADES releases: SqlRender 1.12.1

SqlRender 1.12.1

Bugfixes:

1. Fixed translation of WITH ... INSERT on Snowflake.

2. Fixed translation of some functions on Snowflake casting to NUMERIC instead of FLOAT.

SqlRender 1.12.0 2023-01-26

Changes:

1. Adding translation of TRY_CAST().

2. The loadRenderTranslateSql() function now also looks in the sql folder of the package, so SQL files no longer have to be in the sql/sql_server subfolder.

3. Ensuring result of YEAR(), MONTH(), DAY(), and DATEPART() equivalents return integers on SQLite.

4. Ensuring interval is integer on BigQuery.

SqlRender 1.11.1 2023-01-11
Inaugural Lecture for Professor Peter Rijnbeek

Inaugural Lecture

The rector magnificus of the Erasmus University Rotterdam announces that at Erasmus MC - Faculty of Erasmus University Rotterdam

Dr. P.R. (Peter) Rijnbeek

appointed as professor of Medical Informatics will publicly accept his appointment on Friday 3 March 2023 with an inaugural lecture entitled:

Scalable Evidence

Professors are invited to participate with a gown in the academic procession. We kindly request them to be present from 15:30 hrs on the first floor of the Erasmus (A) Building, near the rector’s room.

The ceremony will start promptly at 16.00 hrs in the Aula of the university (Erasmus building) Burgemeester Oudlaan 50 Rotterdam.

If you are unable to attend, you can also attend the inaugural lecture via livestream: https://eu.cloud.panopto.eu/Panopto/Pages/Viewer.aspx?id=5092bce5-8f31-44c9-8075-323c064e0972

The reception will take place in the same building afterwards. The rector magnificus invites you to attend this ceremony and the reception.

Inaugural Lecture dr.ir. P.R. (Peter) Rijnbeek

Scalable Evidence

Date

Friday 3 Mar 2023, 16:00 - 17:00

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The reception will take place in the same building afterwards. The rector magnificus invites you to attend this ceremony and the reception.
AMIA 2023 Annual Symposium Call for Participation

We invite you to contribute your best work for presentation at the AMIA 2023 Annual Symposium – the leading symposium for the science and practice of health and biomedical informatics. The AMIA 2023 Annual Symposium showcases submissions from scientists, clinicians, trainees, educators, policy makers, administrators, industry professionals, and technologists from around the world.

The AMIA 2023 Annual Symposium will consider submissions of the following types:

- Paper
- Student Paper
- Podium Abstract
- Poster
- Panel
- Informatics Debate
- Systems Demonstration
- Workshop

Proposals

Proposals are now being accepted.
Deadline: Mar. 8, 2023

Submit now
2023 DevCon: April 21

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 DevCon 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 Status of the Open Source Community presentation below.

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

Workshops

**ATLAS**

(Anthony Sena)

- Follow the ATLAS install guide: https://atlas2023.org/atlas2023/editors
- Clone the ATLAS GitHub to your machine using Git
- Navigate to the project directory
- Open the project in Apache NetBeans. You may get a welcome error. If that occurs, you'll need to download the project source.

**HADES Introduction**

(Adam Black)

- Follow the HADES development guide: https://atlas2023.org/atlas2023/editors
- Open the project in Apache NetBeans. You may get a welcome error. If that occurs, you'll need to download the project source.

**WebAPI**

(Anthony Sena)

- Follow the WebAPI install guide: https://atlas2023.org/atlas2023/editors
- For development, you can use ATLAS or Apache NetBeans.
- Open the project in Apache NetBeans. You may get a welcome error. If that occurs, you'll need to download the project source.

**Cohort Diagnostics**

(James Gilbert)

- For development, you can use ATLAS or Apache NetBeans.
- Open the project in Apache NetBeans. You may get a welcome error. If that occurs, you'll need to download the project source.
European Symposium: July 1-3, 2023
APAC Symposium: July 13-14, 2023

2023 APAC Symposium
July 13-14 • University of New South Wales • Sydney, Australia

We are excited to announce that the 2023 OHDSI APAC Symposium will be held in Sydney, Australia at the University of New South Wales! Agenda and registration details are coming soon so please stay tuned! Meanwhile, here are some important dates for you to save to your calendar:

- Collaboration Showcase submissions open: Feb. 13
- Collaboration Showcase submissions deadline: March 31
- Symposium Day 1, main conference: July 13
- Symposium Day 2, tutorials: July 14
Global Symposium: Oct. 20-22, 2023
Hilton East Brunswick Hotel & Executive Meeting Center • East Brunswick, N.J.
Join The #OHDSI2023 Scientific Review Committee

We are looking for collaborators to join the OHDSI2023 scientific review committee. Elisse Katzman has opened the signup form to join the committee, and the first meeting is scheduled for March 9. The deadline is Feb. 28.
Do You Know Of A Collaboration Opportunity?

We are trying to keep the community updated on all collaboration opportunities, both inside AND outside of OHDSI activities. Marty Alvarez of Tufts University is doing a fantastic job of compiling them each week so we know what is on the horizon, and we are working on a format to post these for the community.

In the meantime, if you know of any upcoming opportunities (grants, conferences, calls for papers, etc.) that you think should be considered for this list, please send them to Marta.Alvarez@tuftsmedicine.org.

Thank you Marty!
### Open Rank - Tenure Track of Internal Medicine in Translational Informatics

**Albuquerque, NM, United States** | **req23346**

**Posting Number** | req23346
**Employment Type** | Faculty
**Faculty Type** | Open Rank
**Hiring Department** | IM Translations Informatics (852T)
**Academic Location** | School of Medicine

**Benefits Eligible**
The University of New Mexico provides a comprehensive package of benefits including medical, dental, vision, and life insurance. In addition, UNM offers educational benefits through the tuition remission and dependent education programs. See the [Benefits](#) home page for more information.

**Position Summary**
The University of New Mexico, Health Sciences Center, Department of Internal Medicine, seeks a faculty member to join the Division of Translational Informatics. This position is at the Open rank and Tenure track. While the focus of the position is research-oriented, optionally, the position affords the opportunity for the candidate to have a joint clinical appointment for part-time clinical service with the University of New Mexico, and/or the Raymond G. Murphy VA Medical Center.

Salary will be commensurate with experience and education.
Job Opening

Software Dev Analyst II - Res - G&C - CTSI

Job ID: REF9053H
Date posted: 2/20/2023

Employment Type: Full Time
Shift: Days
Location: Boston, MA

PRINCIPAL DUTIES AND ESSENTIAL FUNCTIONS:

Responsible for executing software development initiatives.

Implementation

- Collaborate with various stakeholders to understand requirements and design solutions
- Evaluate options and develop technical design
- Develop solution using appropriate programming language and/or technical tools
- Complete thorough testing of solution
- Provide input to the development of integrated test plan
- Execute integrated test plan
- Provide input to the development of LIVE plan
- Support LIVE activities

Ongoing Enhancements and Support

- Build enhancements to current functionality using appropriate programming language and/or technical tools
- Perform detailed testing of software updates and upgrades
- Communicate in a friendly and professional manner, share the ideas, solutions, the approach, risks, and impacts, set appropriate expectations for the development timeline
- Participate in after-hours on call support rotation for one or more applications which generate incidents outside of business hours.
- Participate in cross-training, as a trainer and a learner, for personal development and to ensure adequate secondary coverage on all applications
Job Opening

Tenure Track Faculty

#105752

Description

The Department of Biomedical Informatics (DBMI) of Columbia University seeks exceptional junior-level faculty members in the tenure track.

The positions are open to researchers interested in developing and applying informatics theory and achieving tangible benefits to health care and biology. Three particular foci are (1) machine learning for healthcare and health-related data science, (2) health information technology-based interventions to improve health care and the health of individuals and populations, and (3) translational bioinformatics.
Job Opening

Job Details

Database Programmer

Nuffield Department of Orthopaedics, Rheumatology and Musculoskeletal Sciences, Botnar Research Centre, Windmill Road, Oxford, OX3 7LD

We are seeking to appoint a highly qualified and dedicated Database Programmer to join the Health Data Sciences research group led by Professor Daniel Ppto-Alhambra at the Botnar Research Centre, Nuffield Department of Orthopaedics, Rheumatology and Musculoskeletal Sciences (NDORMS), Oxford.

You will join an outstanding, multi-disciplinary and friendly Group of motivated and cutting-edge researchers and to contribute to clinical research by providing technical knowledge, software engineering expertise and data insight.

As a Database Programmer you will Develop new database applications for big clinical data to meet project requirements and deadlines, provide software feedback and carry out software improvement, extension, integration and further development on existing code. You will contribute to the harmonisation, curation, and processing of large clinical datasets 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.

You will have 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 RDBMSs and SQL dialects (e.g. PostgreSQL), excellent skills in at least one high level programming language (e.g. Python, C#, C++) and excellent analytical and problem-solving skills with great attention to detail are essential. Experience in common data models (CDMs) and in the extract, transform, and load (ETL) process, knowledge of R and/or RStudio and working experience in a research environment are desirable.

This is a full-time fixed-term appointment for 2 years.

The closing date for this position is 12 noon on Monday 27 February 2023. You will be required to upload a CV and supporting statement as part of your online application.

Contact Person : HR Team, NDRMS
Contact Phone : 
Vacancy ID : 163066
Closing Date & Time : 27-Feb-2023 12:00
Janssen R&D Summer Internships

General Administration

Epidemiology Graduate Intern

General Administration

OHDA Graduate Intern

General Administration

OHDA Undergraduate Intern

General Administration

Data Science RWE for R&D Summer Intern

General Administration

Data Science RWE DevCon Summer Intern

@OHDSI www.ohdsi.org #JoinTheJourney
HERMES: A Health Resources Econometric Analysis Tool

**Abstract**

HERMES is a tool designed to estimate the medical expenses and health resource utilization in patient cohorts from the OMOP CDM using econometric analysis. The tool is particularly useful for researchers and healthcare providers looking to understand the economic and resource utilization impacts of various health outcomes.

**Methods**

- **Objective:** To estimate healthcare costs and resource utilization related to specific outcomes using OMOP CDM data.
- **Data Source:** Observational healthcare data from the OMOP CDM.
- **Approach:** Using econometric models, HERMES estimates the costs and resource utilization for different patient cohorts.

**Results**

- HERMES provides a framework to estimate the medical expenses and resource utilization for different patient cohorts.
- The tool includes various models for different resource utilization and cost estimation.

**Conclusion**

HERMES is a valuable tool for researchers and healthcare providers aiming to understand the economic impacts of healthcare outcomes. It offers a comprehensive approach to estimating medical expenses and resource utilization, making it a powerful tool for evidence-based decision-making.

**Keywords:** HERMES, OMOP CDM, econometric analysis, health resource utilization, healthcare costs.
Assessing Racial Fairness of Dialysis Allocation in End-Stage Renal Disease
(presenter: Linying Zhang, Lauren R. Richter, David M. Blei, Yixin Wang, Anna Ostropolets, Noemie Elhadad, George Hripcsak)
Preliminary Analysis of Self-Reported COVID-19 Vaccination Side Effects on Twitter (Nishanth Pavinkurve, Maura Beaton, Tilly Seesillapachi, Xinzhuo Jiang, Hua Xu, Karthik Natarajan)

#OHDSISocialShowcase This Week
Data Quality Monitoring, Transparency and Governance: Enterprise process for data quality stewardship and governance for real-world data (Parsa Mirhaji, Selvin Soby, Erin Henninger, Chandra Nelapatla, Manuel Wahle, Boudewijn Aasman, Eran Belin)
Real world prescribing patterns of dupilumab for atopic dermatitis (Torunn Sivesind, Grace Bosma, Camille Hochheimer, Lisa Schilling, Robert Dellavalle)
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?
Join Our Workgroups

OHDSI workgroups are always seeking new collaborators. If you are interested in Joining The Journey with any of our workgroups, please visit our sign-up page (see link below or QR code) and join our global collaborators in the mission to generate the real-world evidence that promotes better health decisions and better care.

ohdsi.org/workgroups
OHDSI Workgroup
Objectives and Key Results (OKR)

2023 Update

Clinical Trials Workgroup leads: Mike Hamidi, Zhen Lin
**CTWG Purpose**

**Objective:** To allow adequate representation of clinical trial data represented as CDISC SDTM in OMOP.

**Approach:** We advocate minimum changes to the OMOP CDM and Standardized Vocabularies because we want to ensure minimum impact on OHDSI tools like Atlas, whilst providing a value-add SDTM-to-OMOP conversion with minimum data loss. We have proposed conventions introducing new concepts and modifiers, but no new CDM tables; and providing guidance for ETL developers where appropriate. Our proposals were originally built on OMOP CDM v6 and the Oncology extension, with v5.3 backward compatibility. In a new v5.4 the additions from the Oncology extension became standard, which made our changes minimal, thereby, making our proposals fully compatible with v5.4.
CTWG Accomplishments

2023: Evaluating a single Vivli clinical study and developing initial high-level conceptual mappings between SDTM-to-OMOP (Persons, Procedure_Occurrence, etc.)

2022: CTWG was given access to 20 Vivli clinical study packages in the SDTM format. The CTWG team is doing an inventory of those study packages in order to prioritize SDTM-to-OMOP mappings. The existing CTWG guidance topics will be further assessed, and new ones identified where necessary.

2021: CTWG did an assessment of clinical trial data providers where SDTM data could be accessed. This eventually led to discussions with Vivli (i.e., general data usage agreements and platform feasibility evaluation).

2020: Used a synthetic representation of the CDISC SDTM data via PHUSE Test Data. Initial guidance topics were codified but require further testing with diverse real world SDTM data. The CTWG proposals submitted to the OHDSI community in July 2020.
CTWG Challenges

- Constraints by WG in accessing clinical study data within the Vivli environment (i.e., limited number of team members)
- Vivli environment time constraints (i.e., free access for one year, then pay for access)
- Installing needed software in the Vivli environment
- Working with obfuscated study data
- Pivoting strategy from mapping-to-execution to simply conceptual mapping guidance
- Access to less restricted SDTM study sources
CTWG OKR

Objective: To define the conceptual mappings and guidance to support CDISC SDTM-to-OMOP conversion

• Key Result #1: Identify >=3 real-world SDTM clinical studies
• Key Result #2: Develop conceptual SDTM-to-OMOP mapping specifications using a prioritized set of common SDTM domains (adverse events, vital signs, demographics, concomitant medications, laboratory test results, medical history, and procedures)
• Key Result #3: Publish draft SDTM-to-OMOP guidance by Q1 2024
  • Conceptual mappings on key domains of interest
  • Topic based best practices format
  • Identified gaps, issues, and challenges
CTWG Ask

- Additional sources of real-world clinical studies in SDTM format
- Any volunteers to support SDTM-to-OMOP high-level concept mappings
- Any organization active working on SDTM-to-OMOP conversions that have lessons learned outcomes
WG Name: OHDSI Vaccine Vocabulary WG  
WG Lead: Asiyah Lin & Yongqun “Oliver” He

Objective 1: Build up a consensus model of vaccines for OHDSI needs.

Key results:
1. Summarize or compare current models of vaccine representations in different standards such as Rx-Norm, Rx-Norm extension, SNOMED, CVX, and the Vaccine Ontology (VO). Timeline: 1Q2023.
Objective 2: Leverage existing works to map different vaccine representations using the consensus model developed in Objective 1.

Key results:

1. Identify methodology to achieve accurate mapping. Timeline: 2Q2023.
2. Use the identified method to establish vaccine term mapping for OMOP use. Timeline: 2-3Q2023
Objective 3: Incorporate and evaluate the Objective 2 mapping results to OMOP vocabulary.

Key results:
1. Incorporate the Objective 2 mapping results to OMOP vocabulary. Timeline: 2-4Q2023
2. Evaluate the Objective 2 mapping results to OMOP vocabulary. Timeline: 3-4Q2023
WG Name: OHDSI Medical Device WG
WG Lead: Asiyah Lin & subgroup leaders

Objective 1: Expand the leadership team and establish collaborations across OHDSI and beyond

Key results:
1. 1Q2023: Establish subgroups (device generated data, device data and device adverse events) and leadership teams.
2. 1Q2023: Respond to FDA medical device active surveillance RFI by Mar. 30, 2023.
3. 2-3Q2023: Develop activities to establish collaborations with other related WG or efforts: Surgery WG and Ehden
4. 3Q2023: Plan Think-a-thon or Hackathon at the OHDSI annual symposium
WG Name: OHDSI Medical Device WG
- Device Data subgroup
Subgroup Lead: Anthony Molinaro & Carrie Bosela

Objective 2: Enable the device standardization efforts to be interoperable with OMOP to support large scale device data analysis

Key results:
1.1-2Q 2023: Explore current OHDSI datasets for device data coverage.
2.1-2Q 2023: Explore and evaluate by extending OMOP by adding a device table
3.2-3Q 2023: Explore tools and method to include device data in OMOP vocabulary
Objective 3: Develop standard strategy for managing and representing features waveform and other device-generated data:

1. Clarify OMOP Standard concept coverage gaps for features from 12-lead ECG Data and ICU monitor data
2. Develop strategy for addressing concept gaps
3. Test previously developed strategy for mapping covered concepts using MIMIC-4 Waveform Database waveform and "numerics" data
WG Name: OHDSI Medical Device WG
- Device Adverse Event subgroup

Subgroup Lead: vacant

Objective 4: Establish the subgroup, identify leaders, and develop OKR

Key results:

1. 1Q2023 : Identify leader for this group.
2. 2Q2023: develop OKR
Education WG Update: Purpose

• Education WG exists to support the community to address the learning curve from novice to mentors within the OHDSI research framework of tools, skills and methods utilised for quality observational research using OMOP CDM-mapped datasets

• Through guidance, signposting, materials and collaboration, the WG aims to support community members through relevant learning pathways

• We meet 4ᵗʰ Friday of the month
Education WG Update: OKR1

• For the first half of 2023, optimise the use and understanding of standard terminology within the OHDSI community, as measured by (Lead - Kristin):

  a. Promotion and user rates of an updated glossary of terms via OHDSI.eu, EHDEN Academy, et al

  b. Uptake of the directory by OHDSI training providers
Education WG Update: OKR2

• For the first half of 2023, increase the exposure of training and education facilities within the OHDSI community, supporting colleagues needing to upskill and learn, as measured by (Lead - Paul):

a. Promotion and user rates of a new training and education directory via OHDSI.eu, EHDEN Academy, et al

b. Increase in uptake of materials and courses from directory providers above planned 2023 activity
Education WG Update: OKR3

• For this year, focus the OHDSI community on a common view of what is required to effectively participate in the community and research, as measured by (Lead – Nige):

  a. Development and uptake of a basic learning pathway – what is required learning across the study workflow and open science approach, with community input – launched c. Q2

  b. Implementation of relevant learning blocks via training and education providers, prompted within the community and the directory, and their uptake
FHIR+ OMOP WG Purpose

To facilitate the collaboration between OHDSI and HL7 agreed by both parties in 2021. The work group will develop and validate standard transformation specifications and canonical maps between data conformant to FHIR to OMOP CDM, and from OMOP CDM to FHIR.
FHIR + OMOP WG Accomplishments

• Convened 3 broad-based community meetings engaging stakeholders.
• Formed 4 subgroups, each meeting on a weekly or bi-weekly basis composed of community members from the HL7 and OHDSI communities.
• Participation in 2 HL7 FHIR Connectathons demonstrating Oncology Use Case transformation from FHIR to OMOP.
• Convened community calls / exploration of 2 community generated use-cases: Digital Quality Measurements & Oncology.
• Developed system architecture & functional requirements for Digital Quality Measurement validation using OMOP & FHIR.

• Developed set of requirements for OMOP / FHIR Harmonization required to support Oncology Use Case.
• Developed proposal / approach for utilization of OMOP Vocabulary on FHIR (FHIR Extension).
• Identified semantic and structural patterns required for model harmonization between FHIR & OMOP CDM.
• Collaborated with Vulcan FHIR to OMOP project.
• Convened day-long workshop at OHDSI Symposium.
FHIR + OMOP 2023 Objectives

• Consolidate the 4 subgroups into one working group and synthesize outputs from the subgroups and prior HL7 IGs work into a draft specification transforming OMOP v5.4 to FHIR R5 for core EMR data elements

• Develop draft (i.e. for broader consultation) specification (FHIR extension) for hosting OMOP Vocabulary on a FHIR Terminology Server

• Convene one (or more) Hack- / Transform-athon meeting(s) to validate and improve generated specifications
OHDSI Medical Imaging Working Group

From pixels to Phenotypes

WG co-leads Seng Chan You and Paul Nagy

Wednesdays every 2 weeks at 7 AM / 7 PM
Imaging WG Goals

1. Extension to perform cohort definitions in OHDSI for medical imaging research studies.

2. Extension to bring features derived from medical images into the OMOP data model while maintaining provenance.

3. Create reference implementations of infrastructure for reproducible research on medical images.
Imaging Extension to OMOP

- Person
  - Visit
  - Procedure_Occurrence

- Image_Occurrence
  - DICOM WADO RS (Web Access to DICOM Objects)
  - Vendor Neutral Archive
  - DICOM Archive

- Image_Feature
  - Episode Event (Link findings over time)

- Clinical Domain Tables
  - type_concept_id = "Machine Learning"

- Deep Learning Models
  - (Model, Parameters)
OKR #1

• Objective: Have CDM group approve the model into the base OMOP model Q3

• Key Results:
  • Publish a draft data model for the imaging extension Q1
  • Have Radlex and DICOM vocabularies added to the OMOP vocabulary Q2
OKR #2

- **Objective:** Conduct a network study based on the imaging extension Q4

- **Key Results:**
  - Have at least two reference implementations of this extension Q3
    1. Demonstration of cohort discovery
    2. Demonstration of imaging feature provenance
    3. Demonstration of combining EHR features in DCNN model building
    4. Demonstration of a network study

- Write a roadmap how to implement imaging CDM and conduct network study
PRHeG (pronounced “preg”): Perinatal and Reproductive Health Group

Alison Callahan
The Perinatal and Reproductive Health Group (PRHeG) workgroup exists to develop tools and standards for perinatal and reproductive health research, to foster collaborative studies within the OHDSI network and advance research in the field.
Perinatal and Reproductive Health Group WG OKRs

1. Improve capture and representation of pregnancy and reproductive health data in the OMOP CDM
   1. Complete a landscape assessment of how different institutions represent and organize pregnancy and reproductive health data
   2. Produce a report summarizing PRHeG's consensus on best practices for doing perinatal and reproductive health research using multisite data in the OMOP CDM

2. Create an OHDSI data network of partners interested in perinatal and reproductive health research
   1. Conduct at least 10 group meetings that include representatives from at least 10 different institutions on topics relevant to OKRs 1.1, 1.2
   2. Pilot an initial research project with at least 5 institutions
PatientLevelPrediction (PLP)

Purpose and 2023 OKRs
We aim to establish a standardized process for developing accurate and well-calibrated patient-centered predictive models

The main research focuses are:

• Do methods research into best practices for prediction model development
• Apply our data, tools and framework to develop new clinically useful prediction models or validate existing ones
• Run network studies for methods research and clinical model development

Next meeting: Wednesday 8th March @ 9am ET
Objective: We should meet f2f to help further collaboration

Key result:
Organise work group meetings at:
1. European OHDSI Symposium
2. OHDSI Global Symposium
3. OHDSI APAC Symposium
Objective: We want a set of benchmark problems

Key Results:

1. Have a moment in every workgroup meeting to discuss potential models
2. Identify 5-10 prediction tasks of interest
3. Add existing prediction models for the tasks of interest into DELPHI to make benchmarking easy
Objective: We would like to investigate learning models for rare outcomes

Key Results

1. Perform large scale study creating learning curves for stacker ensembles on new data

2. Perform large scale study creating learning curves for transfer learning on new data

3. Publish a paper comparing local model fitting, stacker ensemble and transfer learning on new data with rare outcomes
Objective: We want to better understand external validation

Key results
1. Develop tools to estimate external validation performance
2. Develop tools to understand external validation performance
Objective: We want to be able to locally update models

Key Results

1. Provide methods within the package to update models locally
2. Compare local to general models in terms of performance
3. Publish a paper on a framework for updating models locally
4. Develop a process for monitoring in situ model performance
Objective: We want to be able to stratify PLP based on risk of outcome

Key results:
1. Add tools to be able to identify subgroups with different risks
2. Apply existing method for counterfactual deep learning as an OHDSI network study
3. Produce a paper looking at counterfactual prediction
**Phenotype Phebruary Homepage**

**Phenotype Phebruary 2023: How To Join The Effort**

The schedule on the left lists the phenotypes that will be investigated throughout the month, along with the respective leads and reviewers. Check for updates to this graphic as more people join the effort. The graphic on the right highlights the four debates/discussions around phenotyping that are happening this month. Please use the forum links below to join any of these activities.

“Phenotype Phebruary” is a community-wide initiative to both develop and evaluate phenotypes for health outcomes that could be investigated by the community.

This is the second year of Phenotype Phebruary in the OHDSI community (look back at Year 1 here). It was introduced during the Jan 31 community call (watch here), and will go on throughout the month. This year, the leadership team of Goutham Rao and Azza Shokaili helped identify 10 phenotypes that are being investigated throughout the month. If you would like to join the discussions around any of the phenotypes, please visit the appropriate links below, which will take you to the proper threads on the OHDSI forum.

**Week 1 Update**

(Feb 10) Week 2 of Phenotype Phebruary concluded with this OHDSI Phenotype Development and Evaluation workshop meeting. In this session, the workshop assigned leads to each phenotype that are

(Feb 8) Christopher Miceli, MD, and team demonstrated progress in the development of a cohort definition for Inflammatory Dermatopathology at Johns Hopkins University. The team discussed

[ohdsi.org/phenotype-phebruary-2023](http://ohdsi.org/phenotype-phebruary-2023)
Phenotype Phebruary Thank You!