“Welcome To The Journey”

OHDSI Community Call
Feb. 9, 2021 • 11 am ET
What Questions Do You Have Today?

Ask your question (or upvote others) about joining the journey with the OHDSI community

You have not responded

Enter a response

Submit

New

Top

All caught up!

1 How to implement clinical data based on OMOP data model from scratch?

2 Where’s best place to start to learn about OHDSI tools?

3 How do I start a new study?

3 Where can I learn about databases that have adopted OMOP COM?

2 How do I join a workgroup?

Pollev.com/PatrickRyan800

- Ask a question
- Vote for a preferred question

Think of questions later?

- Use the chat
- Raise your hand during the session
- Use the forum
# February/March OHDSI Community Calls

<table>
<thead>
<tr>
<th>Date</th>
<th>Topic</th>
</tr>
</thead>
<tbody>
<tr>
<td>Feb. 9</td>
<td>Welcome To The Journey (Newcomer-Focused ... Let’s Build Our Community)</td>
</tr>
<tr>
<td>Feb. 16</td>
<td>Focus Topic: EHDEN</td>
</tr>
<tr>
<td>Feb. 23</td>
<td>Community Presentations (Theme: COVID)</td>
</tr>
<tr>
<td>March 2</td>
<td>Network Breakouts (ATLAS, HADES, ETL)</td>
</tr>
<tr>
<td>March 9</td>
<td>Working Groups Updates (Oncology, Psychology, NLP, Medical Devices)</td>
</tr>
<tr>
<td>March 16</td>
<td>Community Presentations (Theme: Advances in Patient-Level Prediction)</td>
</tr>
<tr>
<td>March 23</td>
<td>Focus Topic: OHDSI Work with FDA Best program</td>
</tr>
<tr>
<td>March 30</td>
<td>OHDSI Challenge</td>
</tr>
</tbody>
</table>
## February/March OHDSI Community Calls

<table>
<thead>
<tr>
<th>Date</th>
<th>Topic</th>
</tr>
</thead>
<tbody>
<tr>
<td>Feb. 9</td>
<td>Welcome To The Journey (Newcomer-Focused ... Let’s Build Our Community)</td>
</tr>
<tr>
<td>Feb. 16</td>
<td>Focus Topic: EHDEN</td>
</tr>
<tr>
<td>Feb. 23</td>
<td>Community Presentations (Theme: COVID)</td>
</tr>
<tr>
<td>March 2</td>
<td>Network Breakouts (ATLAS, HADES, ETL)</td>
</tr>
<tr>
<td>March 9</td>
<td>Working Groups Updates (Oncology, Psychology, NLP, Medical Devices)</td>
</tr>
<tr>
<td>March 16</td>
<td>Community Presentations (Theme: Advances in Patient-Level Prediction)</td>
</tr>
<tr>
<td>March 23</td>
<td>Focus Topic: OHDSI Work with FDA Best program</td>
</tr>
<tr>
<td>March 30</td>
<td>OHDSI Challenge</td>
</tr>
</tbody>
</table>
Three Stages of The Journey

Where Have We Been?
Where Are We Now?
Where Are We Going?
Congratulations to the team of Edward Burn, Cristian Tebé, Sergio Fernandez-Bertolin, Maria Aragon, Martina Recalde, Elena Roel, Albert Prats-Uribe, Daniel Prieto-Alhambra & Talita Duarte-Salles for this study: The natural history of symptomatic COVID-19 during the first wave in Catalonia, published in Nature Communications.
OHDSI Shoutouts!

Congratulations to the team of Jenna Reps, Peter Rijnbeek, Alana Cuthbert, Patrick Ryan, Nicole Pratt and Martijn Schuemie for this study: An empirical analysis of dealing with patients who are lost to follow-up when developing prognostic models using a cohort design, published in BMC Medical Informatics and Decision Making.

RESEARCH ARTICLE

An empirical analysis of dealing with patients who are lost to follow-up when developing prognostic models using a cohort design

Jenna M. Reps1, Peter Rijnbeek2, Alana Cuthbert3, Patrick B. Ryan4, Nicole Pratt4 and Martijn Schuemie4

Abstract

Background: Researchers developing prediction models are faced with numerous design choices that may impact model performance. One key decision is how to include patients who are lost to follow-up. In this paper we perform a large-scale empirical evaluation investigating the impact of this decision. In addition, we aim to provide guidelines for how to deal with loss to follow-up.

Methods: We generate a partially synthetic dataset with complete follow-up and simulate loss to follow-up based either on random selection or on selection based on comorbidity. In addition to our synthetic data study we investigate 21 real-world data prediction problems. We compare four simple strategies for developing models when using a cohort design that encounters loss to follow-up. Three strategies employ a binary classifier with data that (1) include all patients (including those lost to follow-up), (2) exclude all patients lost to follow-up or (3) only exclude patients lost to follow-up who do not have the outcome before being lost to follow-up. The fourth strategy uses a survival model with data that include all patients. We empirically evaluate the discrimination and calibration performance.

Results: The partially synthetic data study results show that excluding patients who are lost to follow-up can introduce bias when loss to follow-up is common and does not occur at random. However, when loss to follow-up was completely at random, the choice of addressing it had negligible impact on model discrimination performance. Our empirical real-world data results showed that the four design choices investigated to deal with loss to follow-up resulted in comparable performance when the time at risk was 1 year but demonstrated differential bias when we looked into 3-year time at risk. Removing patients who are lost to follow-up before experiencing the outcome but keeping patients who are lost to follow-up after the outcome can bias a model and should be avoided.

Conclusion: Based on this study we therefore recommend (1) developing models using data that includes patients that are lost to follow-up and (2) evaluate the discrimination and calibration of models twice: on a test set including patients lost to follow-up and a test set excluding patients lost to follow-up.
OHDSI Shoutouts!

Congratulations to the team of Vaclav Papez, Maxim Moinat, Stefan Payralbe, Folkert Asselbergs, R Thomas Lumbers, Harry Hemingway, Richard Dobson, Spiros Denaxas for this study:

Transforming and evaluating electronic health record disease phenotyping algorithms using the OMOP common data model: a case study in heart failure, published in JAMIA Open.
Workgroup Updates

OHDSI Phenotype Library workgroup - 2021 OKR feedback request

Gowtham Rao

Thank you for the community brainstorming on OHDSI community breakout session on January 19th 2020. Based on the discussion, we would like to propose the following OKRs for 2021. Please provide your input.

The workgroup page is here. The workgroups mission, areas of focus are here.

The 2021 objective of the workgroup is

2021 Objective: To enhance the content and the adoption of the phenotype library across the community and establish a standardized process for cohort definition development and evaluation. The primary area of focus for 2021 is content development, with additional focus on COVID-19.

We are seeking feedback for the 2021 OKRs. Please see OKRs in MS teams here.

Please engage in discussion here in MS teams
Gowtham Rao: OHDSI Phenotype Library workgroup - 2021 OKR feedback request

posted in OHDSI / General at Feb 7, 2021 11:12 AM
OHDSI Shoutouts!

Any shoutouts from the community? Please share and help promote and celebrate OHDSI work!
Three Stages of The Journey

Where Have We Been?
Where Are We Now?
Where Are We Going?
# Upcoming Working Group Calls

<table>
<thead>
<tr>
<th>Date</th>
<th>Time (ET)</th>
<th>Meeting</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wednesday</td>
<td>2 pm</td>
<td>Natural Language Processing</td>
</tr>
<tr>
<td>Thursday</td>
<td>1 pm</td>
<td>OMOP CDM Oncology – CDM/Vocabulary Subgroup</td>
</tr>
<tr>
<td>Friday</td>
<td>10 am</td>
<td>China Regional Chapter</td>
</tr>
<tr>
<td>Tuesday</td>
<td>9 am</td>
<td>OMOP CDM Oncology – Genomic Subgroup</td>
</tr>
</tbody>
</table>

[www.ohdsi.org/upcoming-working-group-calls/]
Welcome to OHDSI!

The Observational Health Data Sciences and Informatics (or OHDSI, pronounced "Odyssey") program is a multi-stakeholder, interdisciplinary collaborative to bring out the value of health data through large-scale analytics. All our solutions are open-source.

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

Read more about us, about our goals, and how to...
The second **APAC Community Call** will be held tomorrow, Feb. 10, at 10 pm ET. This will also focus on welcoming newcomers to the APAC Community.

This call will use the same WebEx link as the first call. Future calls are anticipated to take place in the Teams environment.
Upcoming Deadlines

**37ICPE**

**Deadline for abstracts for ICPE 2021 is THIS FRIDAY, February 12.**

- Abstracts are now being accepted for ICPE 2021
  - Submit your abstract here
  - Deadline: February 12, 2021
  - View how to complete the abstract here

- Scholarship Applications now being accepted for ICPE 2021
  - Submit your application here
  - Deadline: March 1, 2021

**Scholarship applications are accepted until March 1.**
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?
Today’s Call Focus!

Welcome To The Journey

OHDSI Overview, tours through main community hubs

Hear from OHDSI veterans

Q&A Session … ask on chat, in poll, in person

Next steps

Sarah Seager
Greg Klebanov
Mui Van Zandt
Andrew Williams