Advances In Patient-Level Prediction

OHDSI Community Call
March 16, 2021 • 11 am ET
## March/April OHDSI Community Calls

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The good news: fitting a linear model through the last 90 days of global COVID-19 case counts, and extrapolating that to the future suggests a drop to 0 before the summer! The bad news: the number of COVID-19 papers is predicted to grow for a long time, and the number of new COVID papers per week is predicted to exceed the number of new COVID cases soon.

Disclaimer: may contain some cherry-picking

Case data courtesy of the COVID-19 Data Repository by the Center for Systems Science and Engineering (CSSE) at Johns Hopkins University.

Publication data courtesy of PubMed.

Code for generating the plot is here.
OHDSI Challenge

General

OHDSI Challenge March 2021

OHDSI coordinating center administration 🌐

OHDSI Meme-a-thon

Teams Best Practices and Guidance

Technical support

OHDSI Challenge - March 2021 - COVID Visualizations

The OHDSI community has generated a large array of evidence throughout the pandemic, including characterization (CHARITY), estimation (SCIYLLA, hydroxychloroquine studies), and prediction (COVER). We have other efforts in the works, including EUAMIEUS and AESIncidenceCharacterization. We also have plenty more work across community or locally. And that’s on top of work that someone could do de novo using OHDSI standardized tools, like ATLAS and HADES.

Sometimes though, even with all that evidence, it can be hard to tell a story. So, if a picture is worth a thousand words, what one visualization using OHDSI tools/data/results tells the most compelling story that touches on the COVID pandemic?

The challenge: We are asking community collaborators to submit a static image (something that could be scaled to print 8.5x11, landscape or portrait) or link to an interactive visualization that stands on its own, and then accompany it with a 1-paragraph summary of why you think the image tells a compelling story.

This image could be something that’s already sitting in one of our papers or out on data.ohdsi.org, which you could use as is, or perhaps you could augment it to help tell your story (if you do alter a graphic from another study, please add an attribution). Perhaps it could be a new graphic that you produce based on available results, or even something produced based on new analysis.

Whatever the graphic is, we want to know why it’s meaningful to you — and perhaps why it should be meaningful to all of us.

All submissions should be posted in the OHDSI team in the channel ‘OHDSI Challenge - March 2021’ by Thursday, March 25, at 8 pm ET. On the March 30 community call, we will review the visualization gallery and recognize the contributions.
Three Stages of The Journey

Where Have We Been?

Where Are We Now?

Where Are We Going?
Congratulations to Alison Callahan, Vladimir Polony, José Posada, Juan Banda, Saurabh Gombar, and Nigam Shah on this study published in JAMIA: ACE: the Advanced Cohort Engine for searching longitudinal patient records.
OHDSI Shoutouts!

Congratulations to Jungchan Park, Seung-Hwa Lee, Seng Chan You, Jinseob Kim, Kwangmo Yang on this study published in PLOS ONE: **Effect of renin-angiotensin-aldosterone system inhibitors on Covid-19 patients in Korea.**
OHDSI Shoutouts!

Our new OHDSI APAC web page (ohdsi.org/apac) is now live and will host the recordings of previous OHDSI APAC calls, as well as more information from the regional chapters.
OHDSI Shoutouts!

OHDSI is a global, multi-stakeholder, interdisciplinary and open-science network that collaborates to bring out the value of health data through large-scale analytics. Our Asia-Pacific (APAC) community comprises six regional chapters (Australia, China, Japan, Singapore, South Korea, Taiwan) and has led important OHDSI initiatives around the world.

The First OHDSI APAC Symposium was held virtually Dec. 5-6, 2020, and it provided an opportunity for our Asia-Pacific collaborators (along with others around the world) to share research, provide community updates, collaborate in regional breakouts or network discussions, and have some OHDSI fun.

OHDSI APAC - Our Asia-Pacific Community

Upcoming APAC Community Calls

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<td>June 3</td>
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<td>Welcome to OHDSI</td>
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<td>Jul 12</td>
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Recording

@OHDSI

www.ohdsi.org

#JoinTheJourney

linkedin.com/company/ohdsi
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The first OHDSI APAC Symposium was held virtually Dec. 5-6, 2020, and it provided an opportunity for our Asia-Pacific collaborators (along with others around the world) to share research, provide community updates, collaborate in regional breakouts or network discussions, and have some OHDSI fun.

The APAC community has its own group in the OHDSI MS Teams environment to promote greater collaboration on our collaborative efforts. It will also be the home of our bi-weekly APAC Community Calls, where we will provide updates, share research presentations, collaborate on topics of shared interest, and plenty more. How can you get involved? First, request access to our MS Teams Environment, then request access to our OHDSI APAC workgroup. You can also join the meetings by using this direct link.

Our calls, which are scheduled on a bi-weekly basis, take place Thursday at 10 am CST/30 UT, 11 am KST/JST, 12:30 pm ACST, as well as Wednesday at 10 pm EST and 7 pm PST.

All calls are recorded, so if you miss one or want to share with a collaborator, check out the call recordings below.

Mar. 11, 2021 - Collaborator Showcase (Presentations by Ty Stanford and Jason Hsu)
Congratulations to Seng Chan You on his new role as Research Assistant Professor at Severance Hospital of Yonsei University.

https://www.ohdsi.org/spotlight-seng-chan-you/
Congratulations to **Hua Xu** on his new role as **Associate Dean for Innovation** at UTHealth.

**Hua Xu, PhD named Associate Dean for Innovation**

UTHealth School of Biomedical Informatics (SBMI) is proud to announce the start of a new associate dean role. Professor and Director of the Center for Computational Biomedicine, **Hua Xu, PhD**, will serve as SBMI’s first associate dean for innovation.

While keeping his current titles, Xu’s new role will entail leading all innovation, product development, and technology transfer efforts at SBMI. His initiatives will focus on business operations at SBMI, UTHealth, UTHealth affiliated clinical entities, and the broader community. Xu will also engage with key stakeholders to facilitate the successful development, evaluation, deployment, and maintenance of informatics products. In addition, he will develop mechanisms to support SBMI researchers in technology transfer of informatics applications.

"I look forward to representing SBMI within UTHealth and the broader community as the school engages in business development and commercialization activities," stated Xu. "In collaboration with other SBMI associate deans, I plan to help expand the school’s catalog of informatics products for patient care, business operations, and clinical and translational research."

Xu joined SBMI in 2012 after spending four years serving as a faculty member in the Department of Biomedical Informatics at Vanderbilt University. He has both a PhD and MPhil in Biomedical Informatics from Columbia University. He also has a MS in Computer Science from New Jersey Institute of Technology.

In 2018, Xu founded **Melax Technologies, Inc.**, which develops tools for machine learning and natural language processing applications. Having this unique expertise, along with more than 12 years of faculty experience, makes Xu the ideal candidate for this new role.
OHDSI Shoutouts!

Congratulations to Osaid Alser who announced on Twitter that he was fully matched in surgery.
OHDSI Shoutouts!

The Pioneer/EHDEN/OHDSI prostate cancer study-a-thon was a terrific success last week, with more than 200 participants joining the important effort. We look forward to having representatives from this event present on the research/findings in a future community call!
OHDSI Shoutouts!

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

Have a study published? Please send to sachson@ohdsi.org so we can share during this call and on our social channels. Let’s work together to promote the collaborative work happening in OHDSI!
Three Stages of The Journey

Where Have We Been?
Where Are We Now?
Where Are We Going?
# Upcoming Workgroup Calls

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<td>Women of OHDSI</td>
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<td>3 pm</td>
<td>OMOP CDM Oncology – Outreach/Research Subgroup</td>
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<td>OMOP CDM Oncology – Development Subgroup</td>
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<td>GIS-Geographic Information System</td>
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<td>Thursday</td>
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<td>Psychiatry</td>
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<td>Thursday</td>
<td>12 pm</td>
<td>HADES</td>
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<td>OMOP CDM Oncology – CDM/Vocabulary Subgroup</td>
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<td>UK Biobank</td>
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<tr>
<td>Tuesday</td>
<td>9 am</td>
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Upcoming Workgroup Calls

Last updated March 15, 2021

OMOP CDM Oncology WG – Genomic Subgroup Meeting: Tuesday, March 16 at 9 am ET (Meeting Link)
Meetings are traditionally scheduled for every Tuesday at 9 am ET.

Common Data Model WG: Tuesday, March 16 at 1 pm ET: (Meeting Link)
Meetings are traditionally scheduled for the first and third Tuesdays of each month at 1 pm ET.

Women of OHDSI WG: Tuesday, March 16 at 2 pm ET (Meeting Link)
Meetings are traditionally scheduled for the third Tuesday of each month at 2 pm ET.

OMOP CDM Oncology WG – Outreach/Research Subgroup Meeting: Tuesday, March 16 at 3 pm ET: (Meeting Link)
Meetings are traditionally scheduled for the first and third Tuesday of each month at 3 pm ET.

OMOP CDM Oncology WG – Development Subgroup Meeting: Wednesday, March 17 at 10 am ET: (Meeting Link) Meetings are traditionally scheduled for every other Wednesday at 10 am ET.

Data Quality Dashboard Development WG: Wednesday, March 17 at 1 pm ET (Meeting Link)
Meetings are traditionally scheduled for the third Wednesday of each month at 1 pm ET.

GIS-Geographic Information System WG Meeting: Wednesday, March 17 at 2 pm ET: (Meeting Link)
Meetings are traditionally scheduled for every other Wednesday at 2 pm ET.

Psychiatry WG: Thursday, March 18 at 8 am ET: (Meeting Link)
Meetings are traditionally scheduled for every other Thursday at 8 am ET.
Get Access To Different Teams/WGs/Chapters

Welcome to OHDSI!

The Observational Health Data Sciences and Informatics (or OHDSI, pronounced “Odyssey”) program is a multi-stakeholder, interdisciplinary collaborative to bring together 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.

2020 OHDSI Symposium

Our 2020 OHDSI Global Symposium brought together a global research community for 18 hours of open science, international collaboration and community fun. The day included research presentations from community members, panels that brought together leaders from major healthcare organizations, as well as network sessions, the annual collaborator showcase, and plenty more. Check it all out at the link below.

3. Select the workgroups you want to join (you can refer to the Wiki for work group objectives)

- ATLAS
- Clinical Trials
- Common data model
- Data Quality Dashboard Development
- Electronic Health Record (EHR) TTL
- Geographic Information System (GIS)
- HADES Health Analytics Data-to-Evidence Suite
- Latin America
- Medical Devices
- Natural Language Processing
- OHDSI APAC
- OHDSI APAC Steering Committee
- OHDSI Steering Committee
- Oncology
- Patient-Generated Health Data
- Pharmacovigilance Evidence Investigation
- Phenotype Development and Evaluation
- Population-Level Effect Estimation / Patient-Level Prediction

4. Select the chapter(s) you want to join

- Australia
- China
- Europe
- Japan
- Korea
- Singapore
- Taiwan

5. Select the studies you want to join

- CHARIOTS (Characterizing Health Associated rifle and Your Baseline Disease in SARS-CoV-2)
- HIDA-Health Equity Research Assessment
- PIONEER for Prostate Cancer
- SCILLA (SARS-CoV-2 Large-scale Longitudinal Analysis)
New Workgroups?

Call for Participation in New Working Group: Early-Stage Researchers

Hi everyone,

I am collaborating with a few student researchers to lead a new working group called the ‘Early-Stage Researchers Working Group’. The objectives are:

- to build a casual environment for younger community members to meet with each other and work together without feeling intimidated by their seniors
- to create leadership experiences for junior researchers
- to invite individuals to discuss and present research
- to enable junior researchers to take part in OHDSI projects

The purpose of this post is to gauge for interest and to decide on a regular schedule. So, if you are interested, please let us know in the comments below— all junior researchers are welcome!

As of now, we plan to have meetings monthly. Please answer this anonymous poll to indicate your availability.

We recognize that there won’t be a perfect time for everybody, but we hope to accommodate for as many people’s schedules as possible. Please feel free to contact me at faaizah23@g.ucla.edu for further questions.

Excited to collaborate!

Regards,

Faaziah Arshad

Interest in an OHDSI Education Working Group?

nighughes Nigel Hughes

Hi, I’m the Project Lead for EHEDN alongside @Rijnbeek and leading also on the EHEDN Academy with our small but dedicated team.

I wonder if there would be interest in setting up an Education WG to explore, develop and oversee the educational aspects of promoting open science, the OMOP CDM/OHDSI framework, tools, methods and skills for the OHDSI and wider research community?

I think with the proposed OHDSI institute in mind, as well as work in South Korea and Australia, we would have commonality of purpose and intent here to align on global education opportunities, cohesiveness of resources and materials development and alignment on overall goals?

Looking forward to responses, but especially your thoughts, @hirpca, @Patrick_Ryan, @Rijnbeek, @Daniel_Prieto, @Nicole_Pratt, @Andrew, @Christian_Reich, @rwpark, et al?

1 Reply ↓

FAAIZAH_ARSHAD

12h

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Excited to collaborate!

Regards,

Faaziah Arshad
EH DEN Open Call for SMEs

EH DEN opened its third open call for SMEs to apply for training and certification to convert health data from various forms to the OMOP common data model. This call will run from March 15 through April 12.

Visit EHDEN.eu for more information
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?
March 16 Community Call Topic

Advances In Patient-Level Prediction

Best Practices for Prediction Using Observational Data
Jenna Reps, Associate Director, Janssen Research & Development

External Validation of Existing Dementia Prediction Models on Observational Health Data
Henrik John, Scientific Researcher, Erasmus University Medical Center

The Prediction Model Library
Ross Williams, PhD Student, Erasmus University Medical Center