‘Phenotype Phebruary’ Introduction

OHDSI Community Call
Feb. 1, 2022 • 11 am ET
## Future OHDSI Community Calls

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February 8 OHDSI Community Call

Open Source Community Workgroup Update
Adam Black

Healthcare Systems Interest Group Update
Melanie Philofsky

Phenotype Phebruary Update #1
Patrick Ryan
Three Stages of The Journey

Where Have We Been?
Where Are We Now?
Where Are We Going?
OHDSI Shoutouts!

1. Determine COVER Scores
   - Medical History: Cancer, COPD, Diabetes, Heart Disease, Hypertension, Hyperlipidemia, Kidney Disease
   - Age Groups: 18 - 19 years, 20 - 24 years, 25 - 29 years, 30 - 34 years, 35 - 39 years, 40 - 44 years, 45 - 49 years, 50 - 54 years, 55 - 59 years, 60 - 64 years, 65 - 69 years, 70 - 74 years, 75 - 79 years, 80 - 84 years, 85 - 89 years, 90 - 94 years
   - Sex: Female, Male

2. Learn the Risks
   - Risk Score probability distributions in ClinFormatics
   - Hospitalization, Intensive Services, Fatality

3. Compare the Risk with Others
   - A digital version of this risk calculator is available at: http://evidence.ohdsi.org/Covid19CoverPrediction

www.ohdsi.org  #JoinTheJourney
Congratulations to the team of Seung-Hwa Lee, Jungchan Park, Rae Woong Park, Seo Jeong Shin, Jinseob Kim, Ji Dong Sung, Dae Jung Kim, and Kwangmo Yang on the publication of “Renin-Angiotensin-Aldosterone System Inhibitors and Risk of Cancer: A Population-Based Cohort Study Using a Common Data Model” in Diagnostics.
OHDSI Shoutouts!

Big WIN for OHDSI CHARITYBDS Team!

Krislin Kostka

After a year and many rejections, we are happy to report the OHDSI CHARITYBDS general paper (aka our paper that talks about the overarching framework of large scale characterization for baseline risk of SARS-CoV-2) was ACCEPTED by Clinical Epidemiology (Dove Press).

We are SO grateful for the entire team’s tenacity in pushing this ahead!

ANNOUNCING: The Weekly Wins Channel!

Krislin Kostka

You might be wondering, why is there a new channel here on the OHDSI General area? Well, a few of us were talking about how to share good news in the community. Sometimes we can announce things on workgroup calls. Sometimes we can have a minute or two to shout out in the OHDSI Community Calls. But why not create an asynchronous space to share our wins?

Enter this channel. Please share your good news (“Wins”). These can be OHDSI-specific (e.g. a successful event, a paper is submitted, a paper is accepted, a big presentation goes well, etc) or Professional development related. We simply want to share in the good news with you and celebrate the successes of our amazing global community!

Congrats to SEEK COVER!

Krislin Kostka

Anna Markus Ross Williams Peter Rijnbeek et al have published the SEEK COVER manuscript from the 2020 OHDSI COVID-19 Studyathon:


Congrats!!!

Medical
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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<th>Date</th>
<th>Time (ET)</th>
<th>Meeting</th>
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<tr>
<td>Wednesday</td>
<td>2 am</td>
<td>Patient-Level Prediction/Population-Level Estimation (Eastern Hemi)</td>
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<tr>
<td>Wednesday</td>
<td>9 am</td>
<td>ATLAS/WebAPI</td>
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<tr>
<td>Wednesday</td>
<td>10 am</td>
<td>FHIR and OMOP Data Quality Measurements Subgroup (Zoom)</td>
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<td>Wednesday</td>
<td>4 pm</td>
<td>FHIR and OMOP Data Model Harmonization Subgroup (Zoom)</td>
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<td>Thursday</td>
<td>8 am</td>
<td>Psychiatry</td>
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<td>Thursday</td>
<td>12 pm</td>
<td>Patient-Level Prediction/Population-Level Estimation (Western Hemi)</td>
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<tr>
<td>Thursday</td>
<td>12 pm</td>
<td>FHIR and OMOP Oncology Subgroup</td>
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<td>Thursday</td>
<td>3 pm</td>
<td>FHIR and OMOP Terminologies Subgroup (Zoom)</td>
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<tr>
<td>Friday</td>
<td>10:30 am</td>
<td>Clinical Trials</td>
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<td>Monday</td>
<td>10 am</td>
<td>GIS-Geographic Information System</td>
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<tr>
<td>Tuesday</td>
<td>9 am</td>
<td>OMOP CDM Oncology Genomic Subgroup</td>
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[www.ohdsi.org/upcoming-working-group-calls](www.ohdsi.org/upcoming-working-group-calls)
Get Access To Different Teams/WGs/Chapters

The 2021 OHDSI Global Symposium featured plenary presentations on OHDSI’s Impact on the COVID-19 Pandemic, as well as on the Journey to Reliable Evidence. The main days included the State of the Community Presentation, the Collaborator Showcase, and a memorable Closing Ceremony that focused on OHDSI’s work through the perspective of a patient.

There were also a pair of full-day activities, including the OHDSI Global Hackathon.

5. 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
   - Early-stage Researchers
   - Education Work Group
   - EHR and OMOP
   - Geographic Information System (GIS)
   - HADES Health Analytics Data-to-Evidence Suite
   - Healthcare Systems Interest Group (formerly EHR)
   - Health Equity
   - Latin America
   - Medical Devices
   - Medical Imaging
   - Natural Language Processing
   - OHDSI APAC
   - OHDSI APAC Steering Committee
   - OHDSI Steering Committee
   - Oncology
   - Open-source Community
   - Phenotype Development and Evaluation
   - Population-Level Effect Estimation / Patient-Level Prediction
   - Psychiatry
   - Registry (formerly UK Biobank)
   - Surgery and Perioperative Medicine
   - Vaccine Evidence
   - Vaccine Vocabulary

6. Select the chapter(s) you want to join
   - Africa
   - Australia
   - China
   - Europe
   - Japan
   - Korea
   - Singapore
   - Taiwan

7. Select the studies you want to join
   - HEMERA Health Equity Research Assessment
   - PIONEER for Prostate Cancer (study-a-then-ended)
   - SCYLLA (SARS-CoV-2 Large-scale, Longitudinal Analysis)
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New Workgroups Page on OHDSI.org

OHDSI Workgroups

OHDSI’s central mission is to improve health by empowering a community to collaboratively generate the evidence that promotes better health decisions and better care. We work towards that goal in the areas of data standards, methodological research, open-source analytics development, and clinical applications.

Our workgroups present opportunities for all community members to find a home for their talents and passions, and make meaningful contributions. We are always looking for new collaborators. Learn more about these workgroups by checking out this page. Any workgroup that provided a community call update is highlighted in the top section.

See an area where you want to contribute? Please Join The Journey!

Join Our Workgroup Efforts!

Get To Know The OHDSI Workgroups

@OHDSI

www.ohdsi.org

#JoinTheJourney

ohdsi.org/ohdsi-workgroups
Jan. 27 APAC Call: CDM Workshop

CDM

APAC Workshop
26 January 2022

1. What’s the updates and challenges so far?
   a. We recently released CDM v5.4 [http://ohdsi.github.io/CommonDataModel/cdm54.html]. So far there have been many challenges but the main one we have been struggling with is how fast to update the CDM. We want to be responsive to the needs of the community but with an understanding that any change we make to the model has huge impacts down the line.

2. Tips for ETL conventions? Personal hints?
   a. Keep it as simple as possible at first. Many people want to use complex logic to make their data fit the model but I have found that the simplest approach is usually best because it makes it easier to error check later.

3. Where to start learning about ETL?
   a. The EHDEN academy is a great place to start! https://academy.ehdn.eu/

4. What kind of level of statistical or program skills requirement for CDM?
   a. This one depends on what you are planning to do. If you are responsible for developing the ETL you need strong SQL skills or a good understanding of the database management system you will be using for the conversion. If you are the one designing the ETL then only some SQL skills will be enough. If you plan on designing studies using existing R packages then strong R skills are required. However, if you plan on only running studies or packages then you only need some R skills, you don’t need to be an expert.

5. Is there any best practices for CDM mapping for pediatric survey questions?
   a. I am not sure about pediatric surveys but, in general, I usually use the OBSERVATION table for survey questions. You can set the...
New Dates For The 2022 European Symposium

**EUROPEAN OHDSI SYMPOSIUM**
Symposium: June 24th
Workshops: 25-26th

“We’ll meet again for one journey ahead”

“All aboard!”
New Date!!

Securing OHDSI on AWS for HIPAA and Research Data Management Compliance

Michael Lubke, Tapati Mazumdar, Murat Sincan, Catherine Hajek

Methods
- The abstracted OHDSI environment was analyzed and the following were identified as areas needing additional security:
  - Remote access to study data to applicable persons and systems with appropriate access management
- A cloud-based VPN solution was implemented that creates a tunnel between the secure environment at Sarfford Health and the Virtual Private Cloud (VPC) on AWS. This combined the leveraging the AWS Certificate Manager to handle the generation and application of SSL certificates on the OHDSI environment with SSL certificate requirements by ensuring that the communication between OHDSI and the AWS VPC was secure.
- Data access policies were configured for each AWS S3 bucket resulting in the ability to individually manage each data set. Furthermore, all S3 buckets are associated with the dedicated VPC to restrict access to the data.
- A SAML protocol was used to exchange the SAML token with the components of the external (OHDSI) SAML service to ensure that all requests are properly authorized.
- Results:
  - Figure 3 illustrates the site-to-site VPN solution that was established between the AWS VPC and a routing device at the Sarfford data center. This connection resulted in the direct public-facing application in the OHDSI on an AWS environment, which allowed access to the Sarfford-trusted network.

Conclusions
It is imperative that every interaction with patient health data hosted in a cloud environment is thoroughly analyzed to ensure that HIPAA and research data compliance requirements are met. Each component added to the cloud environment must be carefully implemented to ensure that the health data is secured regardless of where it exists. The process can be daunting to undertake when an environment contains multiple systems and user access points. It is recommended to initially give any thought to access controls and encryption practices. For that reason, employing best practices in accordance with HIPAA and data management compliance requirements at the onset of development can provide a safeguard for the cloud environment as well as the data stored within.

References
Identification of treatment intent from the actual time-to-treatment distribution in prostate cancer patients

Authors: Asieh Golozar, Christian Reich

Identification of treatment intent from observational data is context-dependent and challenging. Potential for substantial degree of patient misclassification
The concept of anchoring in observational study design and its influence on baseline patient characteristics and study estimates

Anna Ostropolets, Talita Duarte-Salles, Xintong Li, Rupa Makadia, Daniel Prieto-Alhambra, Gowtham Rao, Peter R. Rijnbeek, Martijn Schuemie, Anthony G. Sena, Azza Shaoibi, Marc A. Suchard, Patrick B. Ryan, George Hripcsak

WEDNESDAY
Summarizing current evidence for the PIONEER study-a-thon: Systematic Literature Review of prostate cancer patients managed with watchful waiting

Authors: Peter-Paul Willemse, Katharina Beyer, Muhammed Imran Omar, Ronald Herrera, Megan Molnar, Isabella Greco, Riccardo Campi, Samuel Fatoba, Bertrand De Meulder; Susan Evans, Nazanin Zounemat Kermani, Sebastiaan Remmers, Christian Reich, Shilpa Ratwani, Asieh Golozar Robert Snijder, Mauro Gacci, Ariel Achtman, Nigel Hughes, Peter Rijnbeek, Emma Smith; Carl Steinbeirer, Mieke Van Hemelrijck; Anders Bjartell, James N'dow, Alex Asiimwe, Monique Roobol, Giorgio Gandaglia
LAISDAR - A federated data network to support COVID-19 research in Rwanda

Authors: Lars Halvorsen, Freija Descamps, Jared Houghtaling, Benjamin Burke, Francine Birungi, Clarisse Musanabaganwa, Jean Baptiste Byiringiro, Stefan Jansen, Celestin Twizere, Kizito Nkurikiyeyezu, Charles Ruranga, Aurore Nishimwe, Regina Mugeni, Jean N Utumatwishima, Damas Kabakambira, Sabin Nsanzimana, Marc Twagirumukiza
Where Are We Going?

Any other announcements of upcoming work, events, deadlines, etc?
Welcome To OHDSI Newcomers

Are there any people new to the OHDSI community call who would like to introduce themselves?

Please raise your hand, and we will call on three people.
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