APAC Community Call
Global Symposium Recap
October 20, 2022
Agenda

• OHDSI News
• Collaborator Spotlight: Jing Li
• Global Symposium Recap
  – Dong Yun Lee, Ajou University School of Medicine
  – Kyu Lee Jeon, Yonsei University Health System
OHDSI News

• Q3 APAC Newsletter has been released!
  – You can subscribe here: http://eepurl.com/h5vaxr

• APAC Symposium Updates
  – Acceptance letters for poster submissions have been sent out, authors may receive a follow-up email on reviewer comments
  – Tutorials have been restructured to mirror the recent global symposium’s
Collaborator Spotlight: Jing Li

Jing Li is an Associate Director of Data Science at IQVIA, where she is leading a global team of data scientists on real world studies, focusing on treatment patterns, and drug safety studies. She has several years of industry experience in predictive modeling, machine learning, and data management, and she decided to focus her work on healthcare research in 2019.

Jing has grown into a leader in the OHDSI Asia-Pacific (APAC) Community. She leads the bi-weekly APAC community calls and is part of the steering group for both the APAC workgroup and APAC symposium planning committee. She was also a co-author on the first ever network study published by the APAC workgroup, Analysis of Dual Combination Therapies Used in Treatment of Hypertension in a Multinational Cohort.

https://www.ohdsi.org/spotlight-jing-li/
Global Symposium Recap

2022.10.20

Department of biomedical informatics,
Ajou University School of Medicine
Dong-Yun Lee
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<tr>
<th>Time</th>
<th>Event</th>
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<tr>
<td>7:30 am - 8:30 am</td>
<td>Registration and Lite Breakfast</td>
<td>Ballroom AE Foyer</td>
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<td>9:00 am - 10:00 am</td>
<td><strong>State of the Community</strong>&lt;br&gt;George Hirposak, Columbia University</td>
<td><strong>Safety Monitoring of COVID-19 Vaccines within the FDA BEST Initiative</strong>&lt;br&gt;Patricia Lloyd, US Food and Drug Administration&lt;br&gt;<strong>Presentation of 2020, 2021 Titan Awards</strong>&lt;br&gt;George Hirposak, Columbia University/ Patrick Ryan, Johnson &amp; Johnson, Columbia University</td>
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<td>10:00 am - 10:45 am</td>
<td><strong>Workgroup Connections</strong>&lt;br&gt;- WG leads will be distributed across the venue and available for networking to share activities &amp; progress, and connect for future collaborations&lt;br&gt;<strong>OHDSI Meet The Mentors</strong>&lt;br&gt;Buffet Lunch (Ballroom Side Foyer)</td>
<td>Ballroom DE</td>
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<td>10:45 am - 12:15 pm</td>
<td><strong>Plenary: Objective Diagnostics: A pathway to provably reliable evidence</strong>&lt;br&gt;Maritjn Schuurman, Johnson &amp; Johnson</td>
<td>Ballroom DE</td>
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<td>12:15 pm - 1:00 pm</td>
<td>Buffet Lunch&lt;br&gt;- buffet in exhibitor space</td>
<td>Ballroom Foyer</td>
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<td>1:00 pm - 2:00 pm</td>
<td><strong>Presentations: OHDSI support for regulatory authorities</strong>&lt;br&gt;m moderator: Jody-Ann McLeageon, Columbia University&lt;br&gt;- “US FDA/CBER: Performance of vaccine safety surveillance methods” Fan Bu, UCLA&lt;br&gt;- “Korean National Institute of Food and Drug Safety Evaluation: Evolution of Evidence-Based Medicine: Why We Replicate Trials?”&lt;br&gt;Yeon-Hui Lee, National Institute of Food and Drug Safety Evaluation&lt;br&gt;Seng Chan You, Yonsei University&lt;br&gt;- “European Medicines Agency: DARWIN-EU” Peter Rijnbeek, Erasmus MC</td>
<td>Ballroom DE</td>
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<td>2:00 pm - 3:00 pm</td>
<td><strong>Collaborator Showcase, Round 1</strong>&lt;br&gt;- Poster presentations with poster walks&lt;br&gt;- Software demonstrations&lt;br&gt;- Exhibitors (Foyer)</td>
<td>Ballroom ABC</td>
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<td>3:00 pm - 4:00 pm</td>
<td><strong>Collaborator Showcase Lightning Talks</strong>&lt;br&gt;m moderator: Kristin Kostka, Roux Institute at Northeastern University&lt;br&gt;- “Disambiguation of I2PC codes using free-text and active learning to improve concept mappings” Tom Seinen, Erasmus MC&lt;br&gt;- “OHDSI Phenotype Phoebus: lessons learned” Azza Shoabi, Johnson &amp; Johnson</td>
<td>Ballroom DE</td>
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Interaction and connection

• Characteristics of global OHDSI symposium
  • New connections and collaborations from beginning to end of the conference
Interaction and connection

• Characteristics of global OHDSI symposium
Interaction and connection

• Characteristics of global OHDSI symposium
  • Meet the mentor: events to give members an opportunity to network with OHDSI 'veterans' through a speed-dating activity
Interaction and connection

- Characteristics of global OHDSI symposium
Interaction and connection

• Characteristics of global OHDSI symposium
Interaction and connection

Workgroup Activities • Oct. 15-16

A highlight of the OHDSI 2022 Symposium will be a full weekend of workgroup activities and meetings within the Bethesda North Marriott Hotel & Conference Center. You are now able to register for any workgroup sessions as long as there is no overlap between any two sessions; registration is free, but please do so early as this will be first-come, first-served due to room capacity.

Currently scheduled workgroup activities are shown on the graphic below. There will be a buffet lunch both days between 12:00 pm - 1:00 pm in the White Oak Foyer. Specific locations for workgroup meetings will be posted when available.

Learn more about the different workgroup activities and register at our symposium homepage.
Interaction and connection

Adding PS overlap weight

It might be beneficial to add PS overlap weight (an alternative to the IPTW), which was suggested by Li et al. (Li, Fan, Laine E. Thomas, and Fan Li. “Addressing Extreme Propensity Scores via the Overlap Weights.” American Journal of Epidemiology 188, no. 1 (01 2019): 250–57. https://doi.org/10.1093/aje/kwy201).

PS overlap weight emphasizes the portion of the population where the most treatment equipoise exists in clinical practice, and this method seems more robust than IPTW.

The overlap weight can be calculated as below:

```r
population$weights <- ifelse(population$treatment==1,1-data$pups, data$pups)
```
Interaction and connection
ETC
Building a healthier world together
OHDSI-APAC Community Call
Recap: 2022 OHDSI Symposium

Kyu Lee Jeon (YUHS)
10/20/2022
Overview

2022 OHDSI Symposium


Register now at OHDSI.org

Friday: In-Person Conference | Saturday: Full-Day Tutorial | Weekend: Workgroup Activities

#OHDSI2022 • Oct. 14-16 • Bethesda North Marriott Hotel & Conference Center • #JoinTheJourney
# Programs

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<th>III. WG activities (Oct. 16)</th>
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<td>Lightning Talks</td>
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<td>Poster</td>
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<td>Networking Reception</td>
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State of the Community

Safety Monitoring of COVID-19 Vaccines within the FDA BEST Initiative
Objective Diagnostics: A pathway to provably reliable evidence

Conclusions
- Diagnostics are important to ensure reliability of results
  - We’ve been saying that for a while
  - We now have some empirical evidence demonstrating this
- As OHDSI we need to become more rigorous in applying diagnostics
  - Make interpretation of diagnostics a systematic process
  - Either evaluate diagnostics beforehand, or pre-specify diagnostics rules beforehand (just don’t look at results that don’t pass diagnostics)
- Many studies will fail diagnostics
  - Less ‘evidence’ is better, when we can trust what remains
  - Disseminate failures. Argues for LEGEND-like studies, where failures are part of result set

Looking forward
- Many opportunities to propose and improve diagnostics
  - Better balance metric? Equipoise? Generalizability?
  - Go / no go rules for data diagnostics? Cohort diagnostics?
- Improving interpretation of results
  - Synthesizing results from multiple databases and multiple analyses
  - Designing a discovery and surveillance system, deciding on what operating characteristics really matter
Main Conference | Lightening Talks

- Disambiguation of ICPC codes using free-text and active learning to improve concept mappings
- OHDSI Phenotype Phebruary: lessons learned
- Reduce, Reuse, & Recycle: Going Green with Atlas Reusables
- Best practices for prognostic model development using observational health data: a scoping review
- Machine Learning for Predicting Patients at Risk of Prolonged Opioid Use Following Surgery
- When does statistical equality meet health equity: developing analytical pipelines to compare associational and causal fairness in their application to EHR data
- Analyzing the Effect of Hypertension on Retinal Thickness Using Radiology Common Data Model
- Multinational Patterns of Second-line Anti-hyperglycemic Drug Initiation: A LEGEND-T2DM Study
Main Conference | Posters

Observational Data Standards & Measurement / Open-Source Analytics Development / Methodological Research / Clinical Applications
We are a part of OHDSI! Everyone’s on same journey :)

Our Team

Me
Main Conference | Closing & Networking

Building A Healthier World Together
Full-day Tutorial

- Overview of OHDSI
- OMOP-CDM
- ETL
- Cohort definition
- Phenotype evaluation
- Characterization
- Estimation
- Prediction

Tutorial Session
Full-day Tutorial

OMOP CDM and Vocabulary

Cohort definition

Characterization

Estimation

Prediction
WG Activities | All-hands meeting

Stand up if you are new to the OHDSI Community

Introducing WG
WG Activities

What should OHDSI do together in 2023?

- Build out the Phenotype Library
- Improve the ability to run Network Studies
- Ease of OHDSI tools and documentation
- Dissemination and Education
What's next?

2022 APAC OHDSI Symposium

Nov. 12 - 13 • Taipei Medical University

We are excited to announce that registration and collaborator showcase submissions for the 2022 OHDSI APAC Symposium, which will be held Nov. 12-13, is now open! This two-day event will take place in Taipei, Taiwan at the Taipei Medical University and also be broadcasted virtually for those who are not able to participate in person.

Registration: https://www.ohdsi.org/2022apacsymposium/
Thank you 😊

See you soon in Taiwan!