OHDSI2022 Mad Minutes

OHDSI Community Call
Oct. 11, 2022 • 11 am ET
### Upcoming OHDSI Community Calls

<table>
<thead>
<tr>
<th>Date</th>
<th>Topic</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oct. 18</td>
<td>Welcome To OHDSI</td>
</tr>
<tr>
<td>Oct. 25</td>
<td>Future Directions For OHDSI</td>
</tr>
<tr>
<td>Nov. 1</td>
<td>Meet The Titans</td>
</tr>
<tr>
<td>Nov. 8</td>
<td>Collaborator Showcase Presentations</td>
</tr>
<tr>
<td>Nov. 15</td>
<td>Open Network Studies</td>
</tr>
<tr>
<td>Nov. 22</td>
<td>OHDSI “Speed Dating”</td>
</tr>
<tr>
<td>Nov. 29</td>
<td>Workgroup Updates</td>
</tr>
<tr>
<td>Dec. 6</td>
<td>Fall Publications</td>
</tr>
<tr>
<td>Dec. 13</td>
<td>How Did We Do In 2022?</td>
</tr>
<tr>
<td>Dec. 20</td>
<td>Holiday-Themed Final Call of 2022</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 Stephen Fortin, Jenna Reps, and Patrick Ryan on the publication of Adaptation and validation of a coding algorithm for the Charlson Comorbidity Index in administrative claims data using the SNOMED CT standardized vocabulary in BMC Medical Informatics and Decision Making.

Abstract

Objectives: The Charlson comorbidity index (CCI), the most ubiquitous comorbid risk score, predicts one-year mortality among hospitalized patients and provides a single aggregate measure of patient comorbidity. The Quan adaptation of the CCI reviewed the CCI coding algorithm for applications to administrative claims data using the International Classification of Diseases (ICD). The purpose of the current study is to adapt and validate a coding algorithm for the CCI using the SNOMED CT standardized vocabulary, one of the most commonly used vocabularies for data collection in health care databases in the U.S.

Methods: The SNOMED CT coding algorithm for the CCI was adapted through the direct translation of the Quan coding algorithm followed by manual curation by clinical experts. The performance of the SNOMED CT and Quan coding algorithms were compared in the context of a retrospective cohort study of inpatient visits occurring during the calendar years of 2013 and 2018 contained in two U.S. administrative claims databases. Differences in the CCI or frequency of individual comorbid conditions were assessed using statistically significant differences (SND). Performance in predicting one-year mortality among hospitalized patients was measured based on the c-statistic of logistic regression models.

Results: For each database and calendar year combination, no significant differences in the CCI or frequency of individual comorbid conditions were observed between vocabularies (SND ≤ 0.18). Specifically, the difference in CCI measured using the SNOMED CT vs. Quan coding algorithms was highest in MDCD in 2013 (3.75 vs. 3.65; SND=0.03) and lowest in DOD in 2014 (3.85 vs. 3.86; SND=0.02). Similarly, as indicated by the c-statistic, there was no evidence of a difference in the performance between coding algorithms in predicting one-year mortality (SNOMED CT vs. Quan coding algorithms, range 0.725–0.789 vs. 0.723–0.787, respectively). A total of 700 of 5,348 (13.1%) ICD code mappings were inconsistent between coding algorithms. The most common cause of discordant codes was multiple ICD codes mapping to a SNOMED CT code in = 580 of which 213 were deemed clinically relevant thereby leading to information gain.

Conclusion: The current study repurposed an important tool for conducting observational research to use the SNOMED CT standardized vocabulary.
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

<table>
<thead>
<tr>
<th>Date</th>
<th>Time (ET)</th>
<th>Meeting</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tuesday</td>
<td>12 pm</td>
<td>Common Data Model Vocabulary Subgroup</td>
</tr>
<tr>
<td>Tuesday</td>
<td>3 pm</td>
<td>OMOP CDM Oncology Outreach/Research Subgroup</td>
</tr>
<tr>
<td>Wednesday</td>
<td>10 am</td>
<td>FHIR and OMOP Digital Quality Measurements Subgroup (ZOOM)</td>
</tr>
<tr>
<td>Thursday</td>
<td>12 pm</td>
<td>FHIR and OMOP Oncology Subgroup</td>
</tr>
<tr>
<td>Thursday</td>
<td>12 pm</td>
<td>FHIR and OMOP Terminologies Subgroup (ZOOM)</td>
</tr>
</tbody>
</table>
EHDEN is hosting its seventh and final open call for European data partners who are interested in mapping their patient data to OMOP. Through six open calls, EHDEN has welcomed 166 data partners across 26 countries to its federated network, and this is the final opportunity to join this effort.

The deadline to apply is Friday, Nov. 11.
Jenny Lane, a NIHR Academic Clinical Lecturer and 2020 Titan Award winner, joined the Early-Stage Research Workgroup Career Series in October to discuss her career, her journey through OHDSI, and plenty more.

Check out this interview now on our YouTube channel: youtube.com/c/OHDSI
Johns Hopkins Faculty Position

Research Associate (Data Scientist/Statistical Engineer), Johns Hopkins inHealth and Biostatistics Center

• Execute OHDSI studies (e.g. for cohort characterizations and comparative effectiveness) on Johns Hopkins’s EHR data to support clinicians;

• Collaborate with statisticians and clinicians to continuously integrate state-of-the-art statistical tools to the inHealth/OHDSI tool stack for deployment;

• Mentor trainees on data science and software development skills;

• Co-teach courses on observational health data analytics and data science skills at School of Medicine and Public Health;

• Facilitate adoption of the inHealth tools among the broader OHDSI community by contributing to OHDSI’s Health Analytics Data-to-Evidence Suite.

• https://apply.interfolio.com/114436
Grand Rounds this Thursday at 12 PM EST

Informatics Grand Rounds
Join us on October 13th at 12 PM EST to hear Dr. Asieh Golozar discuss the challenges and limitations of observational cancer research and provide examples of the Oncology module in action.

ASIEH GOLOZAR
MD PhD MHS MPH
VP, Global Head of Data Science
Odysseus Data Services

October 13th
12 PM ET
Bit.ly/OctGR22
National Science Foundation
Open Source Ecosystem Grant

- Award Abstract # 2229587
- POSE Phase I: Observational health data sciences and informatics (OHDSI) open source ecosystem (OSE) development
- One of 20 ecosystems developing open-source ecosystems
- In partnership with Columbia University and Tufts
- Helps fund the OHDSI coordinating center
- 9/2022-9/2023
1. Onboarding program for new contributors.
2. Building dashboards on monitoring sustainability of our projects.
3. Having leadership forums on governance models.
2022 OHDSI APAC 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.

2022 OHDSI APAC Symposium Agenda and Registration Details

**Day 1 (Nov. 12) — Tutorial Workshop**
8:30 – 9:00 • Registration
9:00 – 12:00 • OHDSI Intro – CDM & Vocabulary
12:00 – 13:00 • Lunch & Poster Session
13:00 – 17:00 • ETL & Data Quality / Phenotype Development

**Day 2 (Nov. 13) — Main Conference**
09:00 – 09:30 • Registration & Light Breakfast
09:30 – 09:40 • Welcome Session
09:40 – 09:50 • Group Photo

Session 1: Envisioning of OHDSI Global & OHDSI APAC
09:40 – 10:00 • Keynote – OHDSI Global Presentation
10:00 – 10:20 • OHDSI APAC Introduction
10:20 – 10:30 • Break

Session 2: The Implication Experiences in OHDSI Region
10:30 – 11:30 • Researches in OHDSI APAC
11:30 – 11:45 • Researches using Taiwan National Data
11:45 – 12:30 • Researches using TMUCRD Data
12:00 – 13:00 • Lunch & Poster Presentation

Session 3: The Challenges of Research in OHDSI APAC
13:00 – 14:00 • Panel – Standardization & Common Data Models
14:00 – 15:00 • Panel – APAC Regional Adaption to Standardization
15:00 – 15:15 • Break
15:15 – 16:15 • Poster & Networking Session
16:15 – 17:00 • Closing Remarks

Register for Day 2 Here

**Day 2 Registration Fees (In-Person)**
International Student/Trainee: $50
International Academic/Government: $100
International Industry/Corporate: $200
Local Registrant: Free

ohdsi.org/2022apacsymposium
2022 OHDSI Symposium
Oct. 14-16 • Bethesda North Marriott Hotel & Conference Center

We are thrilled to announce that registration for the 2022 OHDSI Symposium, which will be held Oct. 14-16 at the Bethesda North Marriott Hotel & Conference Center, is now open!

It is so exciting to bring our community back together this fall. Our collaborative showcase will return; please click the link to review the full agenda. The full agenda for our conference is still being developed, so please continue to check the OHDSI website (www.ohdsi.org) and our social platforms for updates as we plan for the 2022 Symposium.

The main conference will be held Friday, Oct. 14. A full-day tutorial will be held Saturday, Oct. 15, while other community activities will be held both Oct. 15 and Oct. 16.

Symposium Registration Details
Friday, Oct. 14 – Main Conference

Registration Fee: $900*
* This is an open and inclusive event. If the registration fee represents a burden to you, please contact symposium@ohdsi.org.

Should you need to make changes or cancel your registration ticket, please follow the instructions you will receive on your Eventbrite confirmation upon registration completion. Please note that tickets can be refunded up until 7 days prior to the event. Eventbrite fees are not refundable.

Register For The Main Conference - Friday, Oct. 14

Saturday, Oct. 15 – Full-Day Tutorial: An Introductory Journey From Data To Evidence

Registration Fee: $300*
* This is an open and inclusive event. If the registration fee represents a burden to you, please contact symposium@ohdsi.org.

Should you need to make changes or cancel your registration ticket, please follow the instructions you will receive on your Eventbrite confirmation upon registration completion. Please note that tickets can be refunded up until 7 days prior to the event. Eventbrite fees are not refundable.

Register For The Full-Day Tutorial - Saturday, Oct. 15

What Will Be Taught At This Tutorial?

Saturday, Oct. 15 and Sunday, Oct. 16 — Community Activities

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

See The Schedule & Agenda For Workshop Activities - Weekend of Oct. 15-16

Register For Workshop Activities - Weekend of Oct. 15-16

Hotel Information and Sleeping Room Block

Hotel: Bethesda North Marriott Hotel & Conference Center
Address: 4791 Marriott Road, Rockville, Maryland, 20852
Hotel Main Number: (301) 332-8200
Reservations Toll Free: (877) 212-0762
Reservations Local Phone: (301) 332-8200

This year, OHDSI is holding a sleeping room block for the nights of Oct. 13 and 14 with a special room rate of $179 plus taxes. Please note that all sleeping rooms are on a first-come, first-served basis. To help us in the planning process, we ask that you do not cancel your hotel room ordered through the OHDSI Room Block. If you must cancel, please let us know prior to Thursday, Sept. 1, so that we can offer the room to others who may need one. Once the room block is full, or if special rates are sold out, you may make additional room reservations on the hotel’s website or by calling the hotel phone number above. Please note that OHDSI is not holding any sleeping rooms on Saturday, Oct. 15. Therefore, please call the hotel phone number or make this reservation online should you plan to stay Saturday night.

ohdsi.org/ohdsi2022symposium

Saturday, Oct. 15 and Sunday, Oct. 16 — Community Activities

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

See The Schedule & Agenda For Workshop Activities - Weekend of Oct. 15-16

Register For Workshop Activities - Weekend of Oct. 15-16

Hotel Information and Sleeping Room Block

Hotel: Bethesda North Marriott Hotel & Conference Center
Address: 4791 Marriott Road, Rockville, Maryland, 20852
Hotel Main Number: (301) 332-8200
Reservations Toll Free: (877) 212-0762
Reservations Local Phone: (301) 332-8200

This year, OHDSI is holding a sleeping room block for the nights of Oct. 13 and 14 with a special room rate of $179 plus taxes. Please note that all sleeping rooms are on a first-come, first-served basis. To help us in the planning process, we ask that you do not cancel your hotel room ordered through the OHDSI Room Block. If you must cancel, please let us know prior to Thursday, Sept. 1, so that we can offer the room to others who may need one. Once the room block is full, or if special rates are sold out, you may make additional room reservations on the hotel’s website or by calling the hotel phone number above. Please note that OHDSI is not holding any sleeping rooms on Saturday, Oct. 15. Therefore, please call the hotel phone number or make this reservation online should you plan to stay Saturday night.
#OHDSI2022 Agenda

OHDSI 2022 Symposium  
Oct. 14-15, 2022  
Bethesda North Marriott Hotel & Conference Center

## Main Conference Agenda • Oct. 14

<table>
<thead>
<tr>
<th>Time</th>
<th>Activity</th>
</tr>
</thead>
<tbody>
<tr>
<td>7:30 am - 8:30 am</td>
<td>Registration and Lite Breakfast</td>
</tr>
</tbody>
</table>
| 9:00 am - 10:00 am | Ballroom D/E  
  State of the Community  
  George Hipschak, Columbia University  
  • presentation of 2020, 2021 in Awards                                    |
| 10:00 am - 10:45 am | Ballroom D/E  
  Workgroup and Chapter connections  
  • workgroup/chapter leads will be distributed across the venue and  
    available for networking to share activities and progress and connect  
    for future collaborations                                               |
| 10:45 am - 12:15 pm | Ballroom D/E  
  Plenary: Objective Diagnostics: A pathway to provably reliable evidence  
  Martin Schumeeze, Johnson & Johnson                                      |
| 12:15 pm - 1:00 pm | Ballroom D/E  
  Buffet Lunch  
  • buffet in exhibitor space                                               |
| 1:00 pm - 2:00 pm | Ballroom D/E  
  Presentations: OHDSI support for regulatory authorities  
  moderator: Jody-Arn McLeggan, Columbia University  
  • "FDA/CDER: Performance of vaccine safety surveillance methods" Fan Bu, UCLA  
  • "Korea Ministry of Food and Drug Safety: Replication of clinical trials  
    in electronic health records" Sang Chan You, Yonsei University  
  • "European Medicines Agency: DARWIN-EU" Peter Rijkmak, Erasmus MC         |
| 2:00 pm - 3:00 pm | Ballroom ABC  
  Collaborator Showcase, Round 1  
  • Poster presentations with poster walks  
  • Software demonstrations  
  • Exhibitors                                                               |
| 3:00 pm - 4:00 pm | Ballroom D/E  
  Collaborator Showcase Lightning Talks  
  moderator: Kristin Kostka, Roxa Institute at Northeastern University  
  • "Disentanglement of IOPC codes using free-text and active learning to  
    improve concept mappings" Tom Seinen, Erasmus MC  
  • "OHDSI Phenotype Prebury: lessons learned" Aiza Shaobi, Johnson & Johnson |
| 3:00 pm - 4:00 pm | Ballroom ABC  
  Poster presentations with poster walks  
  • Software demonstrations  
  • Exhibitors                                                               |

Register Here:  
[ohdsi.org/ohdsi2022symposium/]  
#JoinTheJourney

bit.ly/OHDSI2022Agenda
#OHDSI2022 Agenda

## Collaborator Showcase

### Poster Presentations
The 2022 OHDSI Symposium will host two sessions featuring a total of over 80 posters that highlight the breadth of global research happening within our community.

Odd-numbered posters will be presented during the first session (10-11:30 am), while the even-numbered posters will be presented during the second session (1-2:30 pm).

### Observational data standards and management
1. Assessing Measurement Data Quality and the All of Us Research Program (Justin Patterson)
2. Data Quality Monitoring: Perspectives and Solutions. Malaysian perspectives for data quality ownership and governance for real-world data (Koye Yake)
3. Assessing and Standardizing Data Quality and Biobanks in the All of Us (Miss Laura Casalino)
4. GPharma’s perspectives on CSR (more than one) OHDSI (Sigrid Githinji)
5. The impact of harmonization, standardization on observational pharmaceutical (Peter Redmond)
6. Constructing research vocabularies thoroughly using formal ontologies (Allah Bashir)
7. Extending the OMOP Standard Vocabulary to include basic and natural language terms (Nafees Tariq)
8. Bridging the views of forces significant in the OHDSI Standardization (Michael Dunbar)
9. Development of a Medical Imaging Cohort for OHDSI (Oscar Chu)
10. Standardization of OMOP CRF and Fastener Learning for National Cancer Details (Qing Jie Shi)
11. Framework for transforming encounter oxygen data in electronic health record (EHR) environments for integration in the OMOP (Elton Zhong)
12. Leveraging Location Data in OHDSI to Accurate Anopheles Kidney (Yueh-Bin Moulder and Kevin Zhang)
13. The new visualizations of PROs and questionnaires: patient-reported outcomes in OHDSI: case studies from CAMERA (Kerry Joss)
14. A scalable framework for transforming multiple data sources to the OHDSI Common Data Model (Luis Jorj)
15. Accuracy, Throughness, and Usability Analysis and analysis of real world research treatment patterns across the multiple囡囡囡
16. The FastTrack Solutions: a Health Information Network for the remote and rural community in China (Huan Li)
17. OHDSI’s experience in the data sharing strategy of hospital managers 12016–2020 (Hans Willem)
18. P2DSS, Pathfinder for Representing and Accessing Data in Real-Time on Influenza Disease Surveillance Based on OHDSI CRF in Korea (Seong-Ju Chang)
19. No-Go World Challenges in using Real World Data: Creating a Multi-Institutional Database in OHDSI (Wojciech Czernecki)
20. Secure and Semantics-Based Networking of the Finnish National Healthcare Database (OMOP) (Kristo Tuomaala)
21. An automated EHR approach to transforming the HBV database into the OMOP Common Data Model in SQL (Jenn Benda)
22. OHDSI and PAN Data Compare (Ananya Debnath)

### Methodological research
1. Implementing a Clinical Trial using Health-related Quality of Life for New World Studies: An OHDSI Approach (Pooja Patel)
2. Top-Down Modeling of Clinical Trials for Patients with Inflammatory Disease using Liver Ultrasonography after Catheterization of Hepatic Interventions (Jingna Li)
3. The Results Are Back: A Determinant Component in Qualitative Sensitivity Assessment (Leigh Ann Mitchell)
4. Towards the Methods of a Phenotypic Variome (Pilip Chen)
5. Assessing Differences in Genetic Characterization of Breast and Non-Breast Pathologies (Juliette Marcellino)
6. Empathy and Individualization of Disease Code Based Breast Cancer Phenotyping (Caroline Kess)
7. Comparison of the impact of various sources on sensitivity and reliability (Monica Miyahara)
8. Application of Scoring of the Complexity Index to the Administrative Claims Data using the SHMDM STT Standard Vocabulary (Stefan Ungermann)
9. Using data augmentation for NER, part-level reading tasks for clinical history information extraction (Xiong Zhang)

### Clinical Applications
1. How Health Systems Can Zero Create Value and Add Value for the OHDSI CD (Jim Licht)
2. Shifting organizational goals for observational research within a health system (May Gray-Benning)
3. Characteristics Study Assessing Health Equity and Racial Health Disparities within a State of the Art (Mark Smith)
4. Assessing the relationship among survivorship disparities in breast and prostate cancer using the EHR (Wei Wang et al.)
5. IHI/OMOP OHDSI: The Open Health Data Research (Sarah Oveson)
6. Diagnosis and Treatment Patterns of Prostate Cancer: The Value of Health Data and Cancer Outcomes Using the OHDSI (Catherine Calhoun)
7. IHC-Cancer: A Magic Community-Driven Plumbering to Address a Public Health Crisis (Kathleen Kroll)
8. Precision Medicine Platform in EHR: The Role of Data Silos and Cross-Domain Data Linkage (Jingna Li)
9. Identification of high-risk patients with drug resistance variants to an electronic medical record dataset using the Observational Medical Outcomes Partnership Common Data Model (Poonam Sharma)

## Collaborator Showcase

### Poster Presentations

### Open-source analytics development

### OHDSI Agendas

1. Levering the OHDSI ETL for Clinical Trials Scheduling (Roland Heuer)
2. Software: A tool for mapping participated pharmacotherapy for ETI purposes (Birky Kim)
3. Development of an OHDSI ETL compliant HL7 system for Prescription and Administration of a Long-Term Anticoagulation M (Andrea Rez)
4. Knowledge Graph to use (Eugene Dompreh) concept analysis developing (Kim Ngoc Tran Huy)
5. Clinical Decision Validation to improve (Chen Guanyu)
6. Assessment of EHR and knowledge graph patient representation leveraging the OHDSI vocabulary (Jue Chen)
7. Development of multidisciplinary information extraction module for phenotype reports using transfer learning (Lisa Yang)
8. Development of a knowledge module for health care (Wenlu Chen)
9. E-NACHS’s open source implementation of PROs ETL use case (Jie Jia)
10. E-Advisor: A Healthcare Data Network - Potential Study Applications (Rebecca Knobloch)
11. OHDSI Neo: Adding to Advanced Study Processes (Mel McManus)
12. A survey of OHDSI CRF-compliant visualization tools with an emphasis on collaborator engagement and adoption (Alex Beja)
13. Development of an automated pipeline for genomic data using the OHDSI CRF (Xueqi Pang)
14. Development of a software framework for analyzing data using the OHDSI CRF (Zhen Xue)
15. Development of multiple patient access strategies for integration and analysis using the OHDSI CRF (Wang Peng)
16. Identification of high-risk patients with drug resistance variants to an electronic medical record dataset using the Observational Medical Outcomes Partnership Common Data Model (Poonam Sharma)

### Building the OHDSI Cluster of Excellence for Research Questions: Recommendations for Infrastructure and Strategy

### OHDSI2022 Agenda

Visit: bit.ly/OHDSI2022Agenda

www.ohdsi.org

#JoinTheJourney

@OHDSI
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?
Do you want to promote your poster or software demo during the "Mad Minutes" community call! Raise your hand and we’ll get to as many people as possible!

Remember, you have 60 seconds!