APAC Community Call

May 16, 2024
Agenda

• Recaps/Reflections of OHDSI/OMOP Events in April
  – OMOP Introductory Tutorial in Thailand by Natthawut ‘Max’ Adulyanukosol
  – OHDSI Japan Event by Yoshihiro Aoyagi and Seng Chan You
  – OMOP Lecture in Taiwan by Jason Hsu
  – April Olympians by Jiawei Qian

• OHDSI News
OHDSI one-day event in Tokyo 2024-Apr Recap

2024 May 16 OHDSI APAC community call
Yoshihiro Aoyagi
National Cancer Center Hospital East
Event Overview

- **Event name**
  - OHDSI one-day event in Tokyo 202404
    - Towards the promotion of RWD utilization using OMOP CDM-

- **Date/time**
  - 2024-04-17 (Wed) 13:00 - 19:00 JST

- **Location**
  - National Cancer Center Japan Tsukisji site

- **Participant**
  - 31 participants
Special Lecture

• Prof. Daniel Prieto-Alhambra
• Oxford University
• Why federated (network) studies within a country?
  ➤ the OHDSI UK Studyathon experience

Hands-on Session

• Prof. Seng Chan You
• Yonsei University College of Medicine
• Replication of Association of Ticagrelor vs Clopidogrel With Net Adverse Clinical Events in Patients With Acute Coronary Syndrome Undergoing Percutaneous Coronary Intervention
OMOP in APAC and Japan
-Introduction of OMOP and efforts from each position-

1. OMOP introduction and OHDSI Japan (Tatsuo Hiramatsu)
2. FedAna Association (Tatsuo Hiramatsu)
3. Efforts to convert EMR data to OMOP at National Cancer Center Hospital East (Yoshihiro Aoyagi)
4. OHDSI APAC (Mui Van Zandt)
5. From the viewpoint of companies providing OMOP-related services (Shinichiro Ikeda)
Landscape of Event
Special Lecture and Hands on session
Presentation for initiatives in APAC and Japan
Summary

• Prof. Dani's presentation was extremely informative, and We have more interested in Network study and DARWIN.
• Prof. Chan's hands-on session was very useful, and even though the short amount of time, but it was just right for the other participants to get overall.
• Mui, as always, was clear and briefly in communicating the benefits of OHDSI.
• Presentations from Japan indicated that Japan’s ready for OMOP research is progressing.
• The networking was also good. I'll show you a better place next time.

In Japan, the environment for conducting network studies is steadily being established!
Special Thanks

- OHDSI Global Team
- Fedana
- IQVIA Team
- And Audience!
Event Details

- 4-hour hands-on session was planned (April 17th, 15:30~19:30) at OHDSI Japan 2024

  – Replication of Association of Ticagrelor vs Clopidogrel With Net Adverse Clinical Events in Patients With Acute Coronary Syndrome Undergoing Percutaneous Coronary Intervention
Rationale for the Replica Tutorial

• Overarching objective
  – To extend beyond traditional lectures by providing Japanese researchers with direct interaction with CDM data and practical use of OHDSI tools.

• Challenges of a Full Study-a-thon
  – Initially considered for its hands-on nature.
  – Deemed less suitable due to participants' inexperience with OHDSI, which could limit the generation of meaningful outcomes.

• Adopting a Replica Tutorial Approach
  – Chosen for its concise and clear objectives.
  – Involves replicating existing research studies to provide achievable goals and immediate applicability.
Requirement and Preparations for the OHDSI Japan Tutorial

• Limited Participation
  – Rationale: Insufficient number of teaching assistants (TAs) available.
  – Action: Limited the number of participants to approximately 15 to ensure quality interaction and support.

• Infrastructure Setup
  – Venue Infrastructure: Ensured availability of Wi-Fi and power outlets at the venue.
  – Participant Requirement: Required all participants to bring their own laptops to facilitate hands-on learning.

• Demo Study
  – Simplified Study Design: Developed a simpler-design study package suitable for tutorial use, implemented within ATLAS to facilitate understanding and engagement.
Requirement and Preparations for the OHDSI Japan Tutorial

• Pre-loaded ATLAS Instances
  – Cloud Setup: Created 5 ATLAS instances on Google Cloud Platform to ensure smooth, simultaneous use by all participants without disruption (3 persons per 1 ATLAS).
  – ATLAS Preparation: Pre-configured each ATLAS instance with study design and negative control outcome concept sets to avoid delays during the tutorial.

• Actual study results
  – IQVIA provides the actual results using their own dataset and environment by using the study package for the tutorial

• Global TA support
  – Recruited outstanding TAs from the US, Europe, and Asia to provide expert guidance and support, enhancing the learning experience.
  – They control the tutor’s speed to ensure trainees can follow the whole tutorial
Reflection on the OHDSI Japan Tutorial

• Personal Assessment
  – Despite initial concerns from both the organizers and myself, the tutorial was generally a success.
  – Attendance and engagement exceeded my expectations, with over 50% of participants actively following the tutorial to the end—a much higher rate than anticipated.
  – While we did not conduct a formal survey, the hands-on approach provided a richer learning experience compared to standard English lectures.

• Challenges Encountered
  – Trainee Fatigue: Conducting the session in the afternoon appeared to contribute to visible fatigue among the trainees, affecting their ability to stay engaged.
  – Tutor Preparedness: One downside was the somewhat inadequate preparation from the tutors. It was the first visit to Tokyo for the tutor, coinciding with the cherry blossom season in Shinjuku Gyoen, which may have contributed to their distraction.
Reflection on the OHDSI Japan Tutorial

• Personal Assessment
  – Despite initial concerns from both the organizers and myself, the tutorial was generally a success.
  – Attendance and engagement exceeded my expectations, with over 50% of participants actively following the tutorial to the end—a much higher rate than anticipated.
  – While we did not conduct a formal survey, the hands-on approach provided a richer learning experience compared to standard English lectures.

• Challenges Encountered
  – Trainee Fatigue: Conducting the session in the afternoon appeared to contribute to visible fatigue among the trainees, affecting their ability to stay engaged.
  – Tutor Preparedness: One downside was the somewhat inadequate preparation from the tutors. It was the first visit to Tokyo for the tutor, coinciding with the cherry blossom season in Shinjuku Gyoen, which may have contributed to their distraction.
Reflection on the OHDSI Japan Tutorial

• Role of TAs
  – The teaching assistants (TAs) played a crucial role in adjusting the pace of the tutorial. Their efforts were instrumental in preventing a significant drop in trainee comprehension.

• Effective Learning Experience
  – Overall, the tutorial demonstrated that a practical, interactive format could significantly enhance the effectiveness of educational sessions. The ability of the participants to follow the hands-on activities beyond expectations underscores the value of this approach.
April Olympians

Jiawei Qian
Introduction

- The CDM and THEMIS working groups host the April Olympians Collab-a-thon during the month of April to specify conventions for how data should be mapped to the OMOP CDM
- A community-wide collaboration
- Outcomes:
  - Update CDM documentation
  - Create THEMIS repository

Current State of Conventions

- CDM and THEMIS conventions are housed on the CDM website, CDM GitHub, THEMIS GitHub and OHDSI Forum
- This does not provide users with concise and clear documentation on how to standardize their data
- The correct approach is often ambiguous
Goals

1. Identify all currently ratified CDM and THEMIS conventions for every CDM table and field
2. Write clear documentation for each THEMIS convention
3. Establish a repository for THEMIS conventions
4. Update the CDM documentation linking to relevant THEMIS repository entries
5. Create CDM documentation related to expansion module efforts around the community
Ways of working

Break the work that needs to be done into three teams

**Hunters of Artemis**
- On the hunt for ratified conventions
- Systematically search OHDSI resources by table and field
- Open GitHub issues sharing critical information for each convention they track down

**Writers of Apollo**
- Pick up each convention the Hunters find
- Systematically document important information about the convention
- Tag the GitHub issues for the next team

**Builders of Hephaestus**
- Responsible for building the repository
- Incorporate the convention written by Writers into the THEMIS repository
- Clean up the CDM website by removing any duplicate information and linking out to the THEMIS repository
Tools – CDM Workgroup Teams Channel

Tools used

- **CDM Workgroup Teams Channel**
  (with weekly meetings)

Workgroup - Common Data Model

**General**
- 2021 Hackathon - Code Base
- 2021 Hackathon - Documentation
- 2021 Hackathon - General
- April Olympians - General
- April Olympians - Hunters

April Olympians - Hunters

- CDM tables and fields for volunteer assignment.xlsx
  (2 hours ago)
- Field Guide for the Hunters of Artemis.docx
  (April 9)

---

Week 4 - The Final Countdown!

Hunters! We’ve made it to Week 4!

As a reminder we’re working on our last table “Provider” in YELLOW : and we are circling back to any open fields/tables we weren’t able to tackle in previous weeks!

It looks like we could use some help finishing up Observation, Procedure Occurrence, Device Exposure and Condition Occurrence. Feel free to sign up for some fields and/or tables using the [Excel sheet](#).

Don’t have create/edit access to the Kanban board

I can create Themis issues directly, but do not seem to be able to use the project board.
**Tools – Sign up sheet**

**Tools used**
- **Sign up sheet by CDM table and field** (for Hunters to choose which field to work on)

---

<table>
<thead>
<tr>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>G</th>
<th>H</th>
<th>I</th>
<th>J</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td><strong>Field</strong></td>
<td><strong>Volunteer</strong></td>
<td><strong>Github Link</strong></td>
<td><strong>Comments</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>drug_concept_id</td>
<td>Evanne</td>
<td><a href="https://github.com/oids">https://github.com/oids</a> projects/27/views/1?name=issue&amp;item=6231903</td>
<td>Found an old forum post with conflicting information</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>drug_exposure_start_date</td>
<td>Evanne</td>
<td><a href="https://github.com/oids">https://github.com/oids</a> projects/27/views/1?name=issue&amp;item=6231903</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>drug_exposure_start_datetime</td>
<td>Evanne</td>
<td>Not finding specific Thermo conventions. We may consider opening a general datetime convention.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>drug_exposure_end_date</td>
<td>Claire</td>
<td>Not finding specific Thermo conventions beyond drug_exposure_end_date.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>drug_exposure_end_datetime</td>
<td>Evanne</td>
<td><a href="https://github.com/oids">https://github.com/oids</a> projects/27/views/1?name=issue&amp;item=5806346</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>verbstart_end_date</td>
<td>Evanne</td>
<td><a href="https://github.com/oids">https://github.com/oids</a> projects/27/views/1?name=issue&amp;item=5806346</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>drug_type_concept_id</td>
<td>Jiawei</td>
<td><a href="https://github.com/oids">https://github.com/oids</a> projects/27/views/1?name=issue&amp;item=5806346</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>9</td>
<td>stop_reasons</td>
<td>Evanne</td>
<td><a href="https://github.com/oids">https://github.com/oids</a> projects/27/views/1?name=issue&amp;item=5806346</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>10</td>
<td>refill</td>
<td>Evanne</td>
<td>Not finding specific Thermo conventions.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>11</td>
<td>quantity</td>
<td>Evanne</td>
<td>Several Issues</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>12</td>
<td>days_supply</td>
<td>Evanne</td>
<td>Two Issues: <a href="http://github.com/oids">http://github.com/oids</a> projects/27/views/1?name=issue&amp;item=58093052</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>13</td>
<td>rig</td>
<td>Jiawei</td>
<td>Not finding any Thermo conventions for this field, but I opened one for consideration: <a href="https://github.com/Oids">https://github.com/Oids</a></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>14</td>
<td>route_concept_id</td>
<td>Brooke</td>
<td>Not finding any Thermo conventions for this field, but there is no description in User Guide or ETL Convention</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>15</td>
<td>lot_number</td>
<td>Jiawei</td>
<td>Not finding any Thermo conventions for this field, but there is no description in User Guide or ETL Convention</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>16</td>
<td>provider_id</td>
<td>Jiawei</td>
<td><a href="https://github.com/oids">https://github.com/oids</a> projects/27/views/1?name=issue&amp;item=58036529</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>17</td>
<td>visit_occurrence_id</td>
<td>Evanne</td>
<td><a href="https://github.com/oids">https://github.com/oids</a> projects/27/views/1?name=issue&amp;item=58036529</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>18</td>
<td>visit_detail_id</td>
<td>Evanne</td>
<td>Not finding specific Thermo conventions.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>19</td>
<td>drug_source_value</td>
<td>Brooke</td>
<td>Not finding specific Thermo conventions.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>20</td>
<td>drug_source_concept_id</td>
<td>Brooke</td>
<td>Not finding specific Thermo conventions.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>21</td>
<td>route_source_value</td>
<td>Brooke</td>
<td>Not finding specific Thermo conventions.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>22</td>
<td>dose_unit_source_value</td>
<td>Brooke</td>
<td>Not finding specific Thermo conventions.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>23</td>
<td>General Table</td>
<td>Evanne</td>
<td><a href="https://github.com/oids">https://github.com/oids</a> projects/27/views/1?name=issue&amp;item=58271502</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>24</td>
<td>General Table</td>
<td>Evanne</td>
<td><a href="https://github.com/oids">https://github.com/oids</a> projects/27/views/1?name=issue&amp;item=58036529</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>25</td>
<td>General Table</td>
<td>Evanne</td>
<td><a href="https://github.com/oids">https://github.com/oids</a> projects/27/views/1?name=issue&amp;item=58036529</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>26</td>
<td>General Table</td>
<td>Evanne</td>
<td><a href="https://github.com/oids">https://github.com/oids</a> projects/27/views/1?name=issue&amp;item=58036529</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>27</td>
<td>General Table</td>
<td>Evanne</td>
<td><a href="https://github.com/oids">https://github.com/oids</a> projects/27/views/1?name=issue&amp;item=58036529</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

---
Tools – GitHub project board

Tools used
• GitHub project board
Tools

• GitHub project board

What should be done with patient reported drugs or conditions

CDM or THEMIS convention?

Table or Field level?

Is this a general convention?

Summary of issues

1. What should be done with patient reported drugs or conditions?

Summary of answer

1. SEX=000

 вокруг

related recommended should and in the appropriate field table and in the of the patient reported drugs field. These data should be strongly typed so that known which records are patient reported. Use type table="Patient self-report" to identify these records.

NXT STEPS

Add into Conventions

https://docs.google.com/SharedDrive/ACM/Conventions/CDM/Drug_Records

Related links

CDM Forum - Patient Reported Drugs and Conditions
https://forums.dcm.org/sites/patient-reported-drugs-and-conditions/11521/Discussion

GitHub project board

What should be done with patient reported drugs or conditions

CDM or THEMIS convention?

Table or Field level?

Is this a general convention?

Summary of issues

1. What should be done with patient reported drugs or conditions?

Summary of answer

1. SEX=000

 вокруг

related recommended should and in the appropriate field table and in the of the patient reported drugs field. These data should be strongly typed so that known which records are patient reported. Use type table="Patient self-report" to identify these records.

NXT STEPS

Add into Conventions

https://docs.google.com/SharedDrive/ACM/Conventions/CDM/Drug_Records

Related links

CDM Forum - Patient Reported Drugs and Conditions
https://forums.dcm.org/sites/patient-reported-drugs-and-conditions/11521/Discussion

GitHub project board

What should be done with patient reported drugs or conditions

CDM or THEMIS convention?

Table or Field level?

Is this a general convention?

Summary of issues

1. What should be done with patient reported drugs or conditions?
THEMIS repository

Contain:
- General Conventions
- Table-level and Field-level Conventions

THEMIS Conventions

DEATH

Table of Contents
- Table-level Conventions
- Field-level Conventions

Table-level Conventions
- How to map a person with multiple death records on different days

Field-level Conventions

DEATH_DATE: How to populate death_date when it is missing from the source
DEATH_DATE: How to populate the death date when you only have the year or year and month

Tags:
Updated CDM website

Add

• Link to THEMIS repository
• Ratified CDM Conventions

CDM website: https://ohdsi.github.io/CommonDataModel/cdm54.html
OHDSI News

• CBER BEST Seminar
  – Recording of last presentation on *Real-World Effectiveness of BNT162b2 Against Infection and Severe Diseases in Children and Adolescents: causal inference under misclassification in treatment status available* by Yong Chen available at https://ohdsi.org/cber-best-seminar-series/
  – Upcoming presentation on *Reliability in Observational Research: Assessing Covariate Imbalance in Small Studies* by George Hripcsak on May 22
OHDSI News

• 2024 European Symposium
  – Date/Venue: June 1-3, Steam Ship Rotterdam, Rotterdam, the Netherlands

• 2024 Global Symposium
  – Date/Venue: October 22-24 at Hyatt Regency Hotel in New Brunswick, NJ, USA
  – Abstract submissions open at https://docs.google.com/forms/d/e/1FAIpQLSd5ZHplj3w45EWyqo_oWRhE6PJ757vK88QWtYQb-032D-uITw/viewform and due Friday, June 21 8:00 p.m. ET
  – More information available at https://ohdsi.org/ohdsi2024/
Thank you!