OHDSI Japan
established in Nov 2019!
1st Meeting
June 20th, 2019

2nd Meeting
Sep 5th - 6th, 2019

Mini-meet #1
Oct 29, 2019

3rd Meeting
Nov 19th, 2019

Mini-meet #2
Dec 17, 2019

Main attendee affiliations:
University hospitals, Pharmaceutical companies, IT vendors, Data vendors
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<tr>
<th>Working Group</th>
<th>Description</th>
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<tr>
<td><strong>WG #1</strong></td>
<td>OHDSI Study Group: Learn RWD and OMOP-CDM / OHDSI including reading circle of OHDSI Book.</td>
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<td><strong>WG #2</strong></td>
<td>Vocabulary strategy: Consider how to tackle the vocabulary mapping from source data in Japan.</td>
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<td><strong>WG #3</strong></td>
<td>Building CDM: Efforts to build OMOP CDM by real world data holders in Japan.</td>
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<td><strong>WG #4</strong></td>
<td>OHDSI Book Translation: Translation activities for the publication of the Japanese version of OHDSI Book.</td>
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JOMOPiे -> gradual vocab approach

Multi-stage OMOPize method with useful intermediate stage data.

Many in-house local codes

- Claims
- SS-MIX2
- Lab csv
- others...

Data Source

Japanese standard codes for domestic use

One hospital, one mapping

New

OMOP-- + ext

OMOP

Add Full Concepts using Athena

Can be used various OHDSI Software/tools

ATLAS

Compatible granularity with other databases in Japan.

Data set for domestic analysis

Extract by SQL

One mapping for all Japan OMOP

Standard vocab concepts
JOMOPie – features

1. Field expansion in clinical data tables for multiple Japanese standard codes, which is not for global use but is for domestic use where compatibility with other Japanese databases is important. Vocab tables are intact.
   ※ *_source_value fields are for original local codes/names.

2. *_concept_id fields whose corresponding extended fields have values can be left as empty (or zero) for domestic use.
   ※ Therefore, SNOMED issues can be set aside. Japan is not SNOMED member.
   ->Data holders in Japan are easy to participate

3. Empty *_concept_id fields can be filled anytime when/where possible. Mapping from representative Japanese standards to OHDSI standards will be in Athena so that everyone can use it.
   ※ In fact, mapping except to SNOMED can be done from the beginning.
   ->Coexist with global OMOP

4. Limitation: Standard tools such as Atlas cannot be used without filling required *_concept_id fields.
A free ETL tool in Japan

Prof Hiramatsu has developed a tool that can easily perform ETL using Oracle VirtualBox virtual machine.

VirtualBox Shared Folder

INfiles
- Data Source
  - (corres. tb)

LOGfiles
- logs
- Mid files

OUTfiles
- Corres. tb

dbfiles
- Linked OMOP-JV database

JV-ETL VM

ETL Operation

http://localhost:8500/

※ JV is the previous version of JOMOPie. We are going to reconstruct the tool.
An Example of usage in Japan

OMOP-JV

OMOP-JV

OMOP-JV

OMOP-JV

Claims

Lab CSV

Claims

Lab CSV

Claims

Lab CSV

Claims

Lab CSV

Aggregate results

Phenotyping Prg.

Aggregate results

Aggregate results

Aggregate results

Aggregate results

Total tabulation

No PHI exchange
Going forward

As OHDSI JAPAN, we would like to realize the spread of OMOP in Japan by promoting activities such as…

➢ Translating books
➢ Conducting various seminars
➢ Promoting implementation with Real data holders

…etc

We really look forward to make new evidence with global healthcare data together with you!