



APAC Community Call

Regional Updates

April 22nd 2021



Korea Chapter Update



- Nationwide Korean administrative claim data (HIRA) has been mapped to OMOP-CDM ranging 2010 to 2019 for entire Korean population
- More Korean hospitals including three hospitals in Yonsei University Health System (Severance; Gangnam Severance; Yongin Severance hospital) joined OHDSI with available OMOP-CDM v5.3.1 databases





China Chapter Update



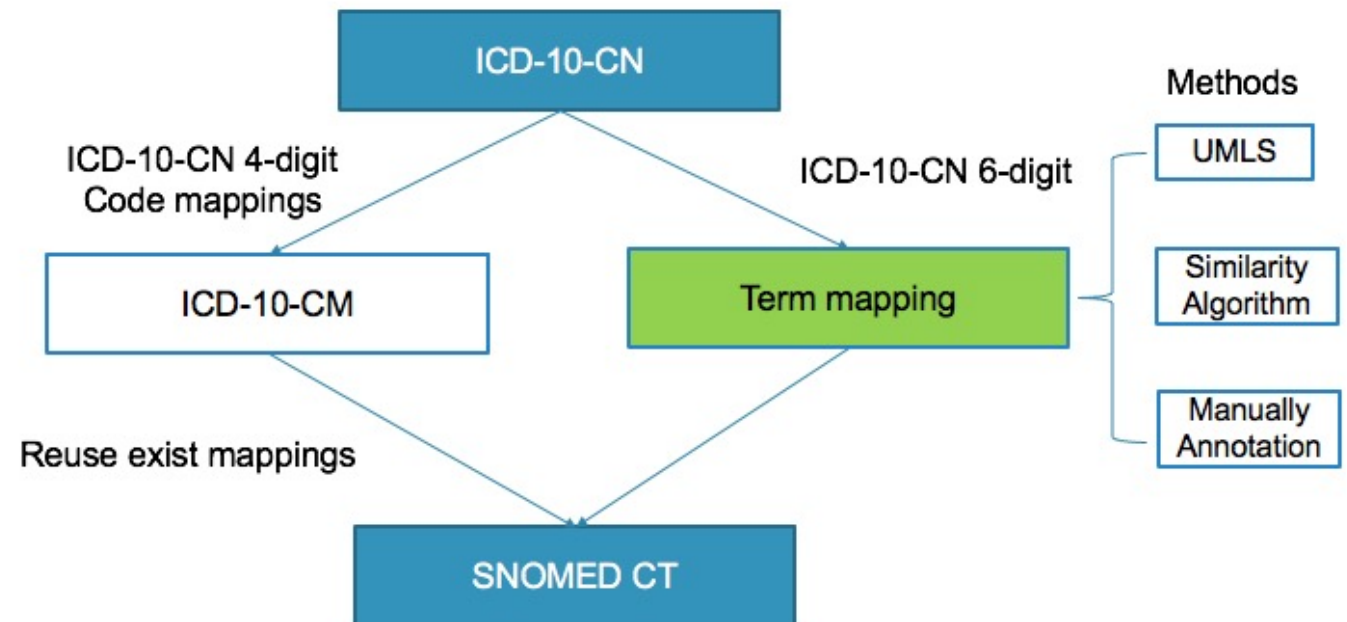
- Organization change
 - Three new co-Chairs:
 - Dr. Yi Zhou, Zhongshan University
 - Dr. Lei Liu, Fudan University
 - Dr. Hui Lv, Jiaotong University
 - Three directions
 - Training and engagement
 - Methods and tools
 - Clinical studies



Chinese Vocabulary Work

- Five volunteers for Chinese Vocabulary Development
- Task 1: Local concepts to ICD-10-CN and SNOMED
- Task 2: ICD-10-CN 6-digit to SNOMED

N	Number of Concepts
1	15707
2	231537
3	6245 (2013) 78658 (2014) 83295 (2015)
4	1000 outpatient, 1000 inpatient
5	1910
6	1166





Japan Chapter Update



- A person who wants to work on drug mapping has come along and created a plan.
- Going to start a mapping project for drug.

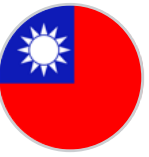


(C) mizuki pro,
fuji tv, toei anime





Taiwan Chapter Update



- Goal 1: OHDSI Taiwan website currently under development

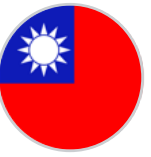


- Goal 3: Build TMU OHDSI OMOP-CDM
 - OHDSI-OMOP CDM kick-off meeting on September 21, 2020, to start the data bridging platform between TMUCRD and OHDSI-CDM.
 - OHDSI global members provided technical guidance online meeting on September 23, 2020.





Goal 2: Interaction between Universities in Taiwan





OMOP mapping in Australia

PRIMARY CARE EMR

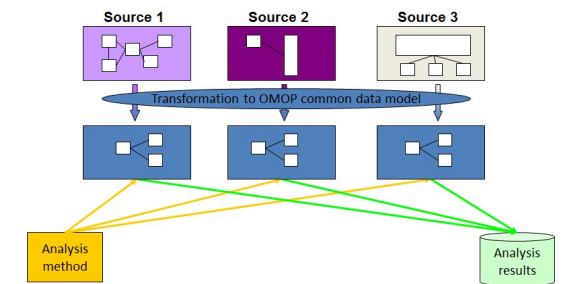
- UNSW ePBRN
 - **18 general practices** and hospitals in an integrated health neighbourhood in South Western Sydney
- Victoria
 - 3 GP systems (**120 practices**, several million patients)
 - Medical Director, Best Practice and Zedmed
 - Outcome Health (1,000 GP surgeries)
- NPS MedicineWise **MedicineInsight database**
 - 700+ general practice information systems from all over Australia

SECONDARY CARE EMR

- Hospital EMR warehouses
 - **CERNER2OMOP**: Maps CERNER EMR data into OMOP (customized to SLHD and SESLHD). Contact Blanca Gallego Luxan
 - CaVa: Maps oncology data into OMOP oncology extension (MOSAIQ and ARIA) (customized to SWSLHD) Contact Timothy Churches
 - Victorian Comprehensive Cancer Centre Data Hub (Extensive Victorian hospital and GP coverage)
 - Proposed CERNER based EMR
 - Queensland Health – all public hospitals
 - Austin Health
 - Western Health
 - Provisional: Peter MacCallum Cancer Centre

ADMINISTRATIVE CLAIMS

- Pharmaceutical Benefits Scheme 10% Sample dispensed medicines
- Department of Veterans' Affairs Claims Data
 - National Department of Veterans' Affairs administrative health claims





OHDSI translation at UniSA



- Successfully converted PBS10 to the OHDSI/OMOP CDM
 - Version 5.3.1
 - Clinical OMOP CDM tables:
 - Person, Obs_Period, Drug_Exposure, Drug_Era, Death
 - Atlas set up in the locked down computing environment
- Stats:
 - Data period: March 2005 – July 2020 inclusive
 - ~ 3 million people (~10% of Aus population)
 - ~ 300 million records
 - 95%++ conversion of drug records to standardised drug concepts



OHDSI Network Collaboration



- Ongoing work from OHDSI COVID-19 **study-a-thon**
- UNSW contributed flu data 2012-2019 for two COVID-19 studies related to predictive modelling.
- One study is published <https://medinform.jmir.org/2021/4/e21547> and other under review with BMC Research Methodology.
- OHDSI APAC **research study** on hypertension
 - A Comprehensive Comparative Effectiveness and Safety Study of the Second Antihypertensive Agent after Monotherapy at scale using the OHDSI AP Network
- EUMAEUS
 - large-scale evaluations of methods for vaccine safety to help us understand how these methods will perform when applied to COVID-19 vaccines
- Others?



Data Quality



- Extend OHDSI CDM-based data quality assessments
 - “White bandicoot” tool
- Mapping Australia’s metadata and ontologies for national health & welfare metadata standards
 - Sustainable conformance to data quality and interoperability standards



Please join us for the start of the 2021 ODHSI Australia Webinar Series

- Presented by Dr Tim Churches, Georgie Kennedy and Nasreen Kadaan:
 - “*CaVa: Populating the OMOP oncology extension directly from clinical data*”
 - A description of the implementation of the OMOP CDM from a cancer clinical information system.
 - Thursday 29th April at 2pm AEST
-



Collaboration with AI Singapore on Federated Learning



AI SINGAPORE

Four Key Pillars



AI Research

Invest in deep capabilities to catch the next wave of scientific innovations and breakthroughs.



AI Technology

Address major challenges that affect our economy and society thereby promoting bold ideas and the application of innovative AI technologies



AI Innovation

Broaden the use and adoption of AI in Singapore and groom local AI talents to support industry growth



AI Makerspace

Provide a platform and suite of AI tools, APIs and pre-built solutions (BRICKS), training, consulting and engineering services for Startups and SMEs to jumpstart their AI journey



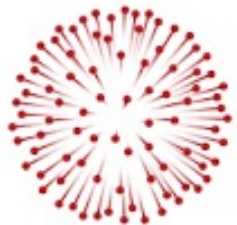
Collaboration with AI Singapore on Federated Learning



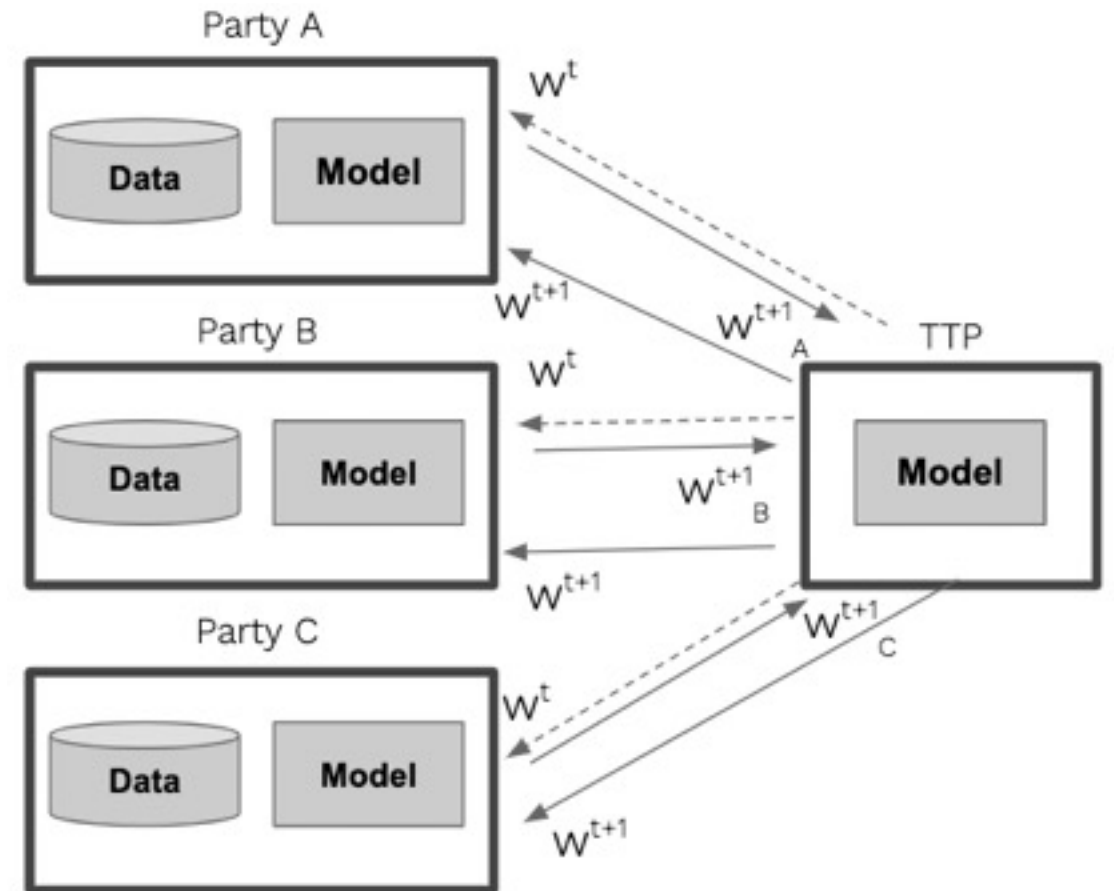
Dr Jianshu Weng
Project Lead, AI SG



AI SINGAPORE



Smart Nation
S I N G A P O R E





SG Healthcare AI Datathon and EXPO

10-18 July 2021



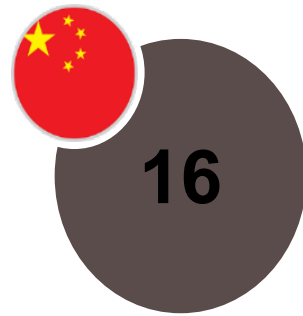
www.nus-datathon.com



- Attracted 1000+ physicians and data science around the world



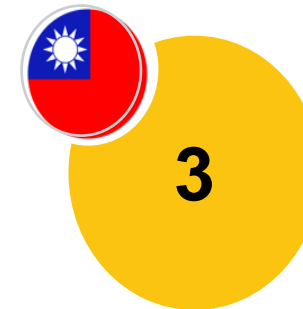
Singapore



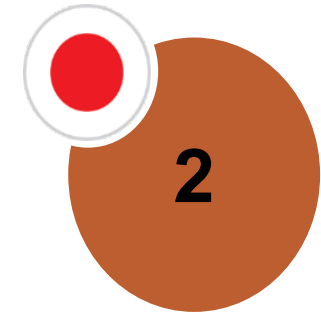
Mainland
China



Australia



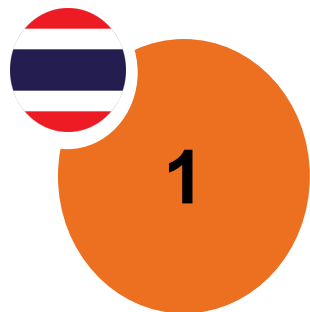
Taiwan



Japan



South Korea



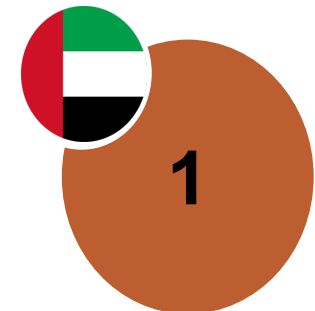
Thailand



United States



Russia



UAE