



APAC Community Call

European and APAC Symposium Recap

August 17, 2023



Agenda

- OHDSI News
 - Global Symposium: Registrations & Agenda
 - Global Symposium: 2023 Titan Awards
 - Global Symposium: OHDSI Got Talent!
- India Chapter Mid-Year Update by Swetha Kiran
- European Symposium Recap by Chungsoo Kim
- APAC Symposium Recap by Nicole Pratt and Sujeong Eom



Global Symposium: Registrations & Agenda

- Registrations are now open at <https://www.eventbrite.com/e/544413795317!>



Friday, October 20

2023 OHDSI GLOBAL SYMPOSIUM

THE 2023 OHDSI SYMPOSIUM WILL TAKE PLACE OCT. 20-22 AT THE HILTON EAST BRUNSWICK HOTEL AND EXEC. MEETING CENTER IN EAST BRUNSWICK, NJ, USA.

\$500

Get tickets



Global Symposium: Registrations & Agenda

	Friday, Oct. 20	Saturday, Oct. 21	Sunday, Oct. 22
7:00 am	Registration/Lite Breakfast	Lite Breakfast	Lite Breakfast
8:00 am	Welcome to OHDSI2023!	Intro to OHDSI Tutorial & OHDSI Workgroup Activities	OHDSI collaborative workshop: HowOften (part 2)
9:00 am	State of the Community		
10:00 am	Community Networking		
11:00	Plenary Session		
12:00 pm	Buffet Lunch	Buffet Lunch + Collaborator Showcase: Posters & Demos	Buffet Lunch + Collaborator Showcase: Posters & Demos
1:00 pm	Panel: Network Studies	OHDSI collaborative workshop: HowOften (part 1)	OHDSI workgroup activities
2:00 pm	Collaborator Showcase: Posters & Demos		
3:00 pm	Collaborator Showcase: Lightning Talks		
4:00 pm	Collaborator Showcase: Posters & Demos		
5:00 pm	Closing Talk & Titan Awards	Free time	We'll see you again in 2024!
6:00 pm	Networking Reception		
7:00 pm	OHDSI Got Talent!		

** this agenda is tentative and subject to change*



Global Symposium: 2023 Titan Awards

- About the OHDSI Titan Awards: <https://www.ohdsi.org/titan-awards/>
- Nominations are due Saturday, September 16, 9 a.m. Korea time
 - Nomination form: <https://bit.ly/2023TitanNominations>

Below are the awards and their descriptions:

1. **Titan Award for Data Standards** - to recognize extraordinary contributions by an individual, organization, or team in development or evaluation in community data standards, including OMOP common data model and standardized vocabularies
2. **Titan Award for Methodological Research** - to recognize extraordinary contributions by an individual, organization, or team in development or evaluation in analytical methods for clinical characterization, population-level effect estimation, or patient-level prediction
3. **Titan Award for Open-Source Development** - to recognize extraordinary contributions by an individual in design, development, testing, and deployment of open-source software to enable observational analyses
4. **Titan Award for Clinical Application** - to recognize extraordinary contributions by an individual, organization, or team in generating clinical evidence that improves health by informing better health decisions and better care
5. **Titan Award for Community Collaboration** - to recognize an individual for their collaborative spirit in helping their fellow community members reach their goals
6. **Titan Award for Community Leadership** - to recognize an individual for their leadership in advancing the OHDSI mission
7. **Titan Award for Community Support** - to recognize an individual, team, or organization for their contributions to ensuring the sustainability of the OHDSI community



Global Symposium: OHDSI Got Talent!

- First ever OHDSI talent show will take place at this year's global symposium!
- Submissions are due Saturday, September 23, 9 a.m. Korea time
 - Submission form: https://docs.google.com/forms/d/e/1FAIpQLScxU6bNAXCmbphmNOGUfUEqf-SIRnHHi_CZBtXLjped_QAbtA/viewform

2023 OHDSI GOT TALENT SUBMISSION FORM

The success of the OHDSI community rests entirely in the talents of our collaborators. As we have learned, that talent extends well beyond excellence in open community data standards, methodological research, open-source analytic development, and clinical applications.

At the OHDSI Global Symposium on Friday, October 20, at 7:00pmET, we will be holding our first ever 'OHDSI Got Talent' event.

As with the popular television series, we will have a series of contestants perform 4-6 minute routines to showcase their talent, and a panel of judges will share their thoughts on what they have seen. The OHDSI community will vote for their favorite and we will crown a winner!

Do you sing or play a musical instrument? Do you dance? Can you do magic or comedy? Do you have some other unique skill that you can demonstrate in 6 minutes or less? We want to see it!

If you are interested in participating, please fill out the form below. The deadline to submit this form is 8pm ET on Friday, September 22; you will be notified of your acceptance by Friday, September 29.



OHDSI
OBSERVATIONAL HEALTH DATA SCIENCES AND INFORMATICS

OHDSI India Chapter

From Raw Data to Reliable Evidence

Agenda

- OHDSI India Chapter Workgroups & Community Call
- On Going Project - Breast Cancer Study
- OHDSI India Chapter Development Initiatives
- Action plan
- Follow OHDSI India Chapter

OHDSI India Chapter Workgroups & Community Call

OHDSI Training and Upskilling WG Updates

- Create a robust RWD/RWE regional training infrastructure and Ensure regional upskilling and education to support OMOP data standards and tools
- Current Focus: To find Where India Stands in terms of Data standards for healthcare

Upcoming WGs

Data Partners WG

- Few hospitals and diagnostics are identified as potential data partners and the team is currently working on collaboration opportunities

Indian data OMOP Feasibility analysis

- Data Partners - JSS AHER Data
- Feasibility of Mapping JSS Breast cancer patient data to the OMOP Common Data Model

Community Call

- Timings: Monthly 2nd Thursday
- Knowledge sharing with OHDSI Collaborators

On Going Project - Breast Cancer Study

OHDSI India Chapter Initiative:

- GVW, JSS AHER Mysore & Janssen together has initiated a pathfinder project on Breast Cancer data.

Challenge:

- Various formats of discharge summaries specific to breast cancer cases.
- The data in the data partner's platform is fragmented and not integrated.
- The data is in Text format in discharge summaries.
- Lacks a Standardized coding system.

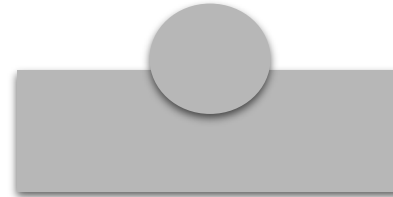
Solutions:

- Python scripts are being executed for data extraction and converting the data to readable format.
- Working on NLP Techniques to enhance data extraction and linking the extracted data to OMOP Concepts.

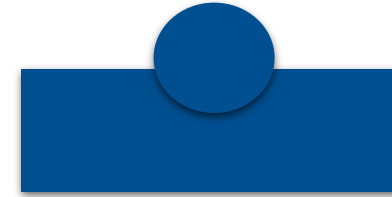
OHDSI India Chapter Development Initiatives



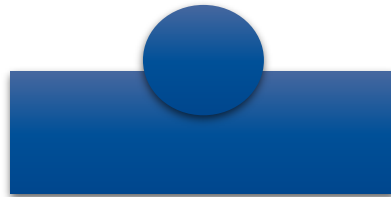
University: JSS (Data Partner)
Study: Breast Cancer



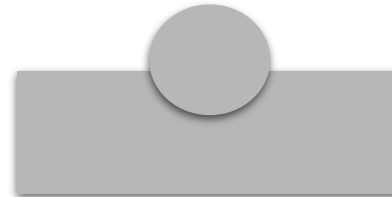
Company: Health Parliament
Exploring Opportunities for New Studies



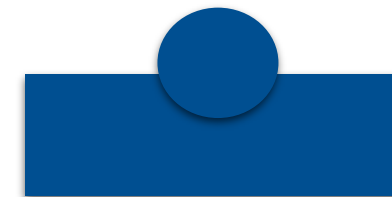
University: Ashoka
Exploring Opportunities for Performing new studies



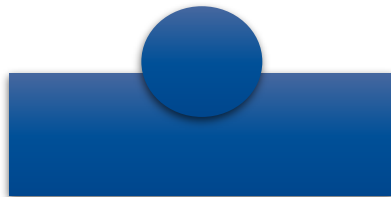
Company: Bayer (Pareen)
Exploring Opportunities for collaboration



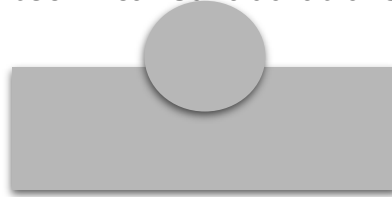
Company : L & T
Exploring Opportunities for technical Collaborations



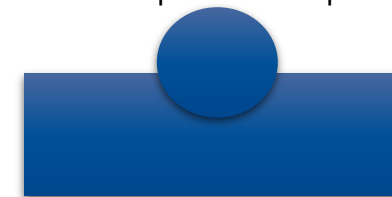
University: MS Ramaiah
Exploring Opportunities for data partnership



Hospital: NHS Lancashire Teaching Hospitals Exploring Opportunities to perform network studies
OHDSI India Initiatives



Company: GVW
Key OHDSI India Initiators



Company : Janssen
Study: Breast Cancer
Exploring opportunities for Network Studies

Action plan

Complete Breast cancer data OMOP conversion

Initiate the corresponding publication

Expand and strengthen the active community

Engage two additional data partners

Follow OHDSI India Chapter



Reach us at





OHDSI
OBSERVATIONAL HEALTH DATA SCIENCES AND INFORMATICS

Thank You

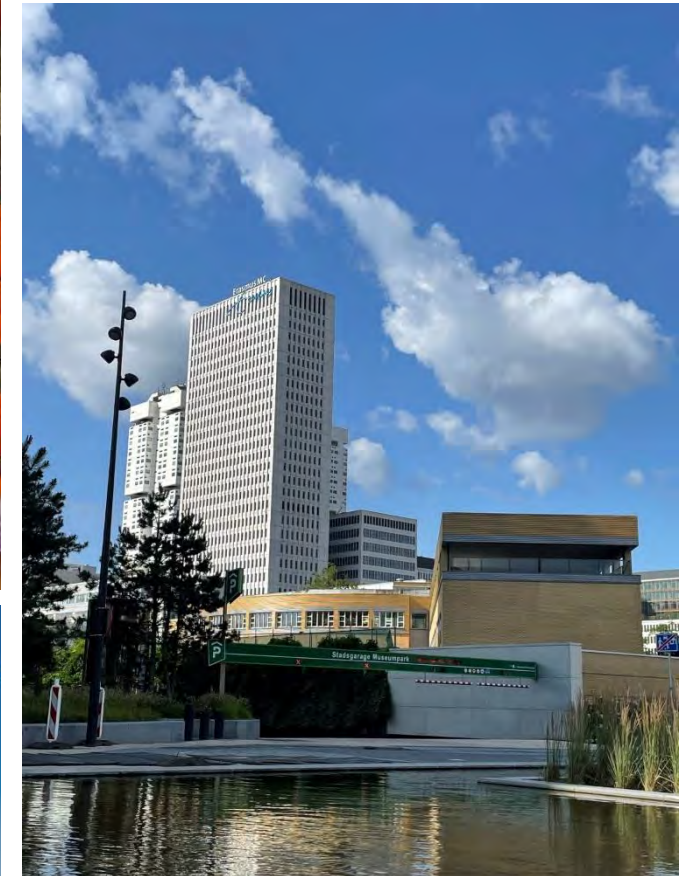


23' European OHDSI sympo recap

Chungsoo Kim, Pharm D, PhD Candidate
Dept of Biomedical Informatics, Ajou University



European OHDSI symposium





European OHDSI 2023, Erasmus MC, July 1st

Pre-workshop: Phenotyping





European OHDSI 2023, Erasmus MC, July 2nd

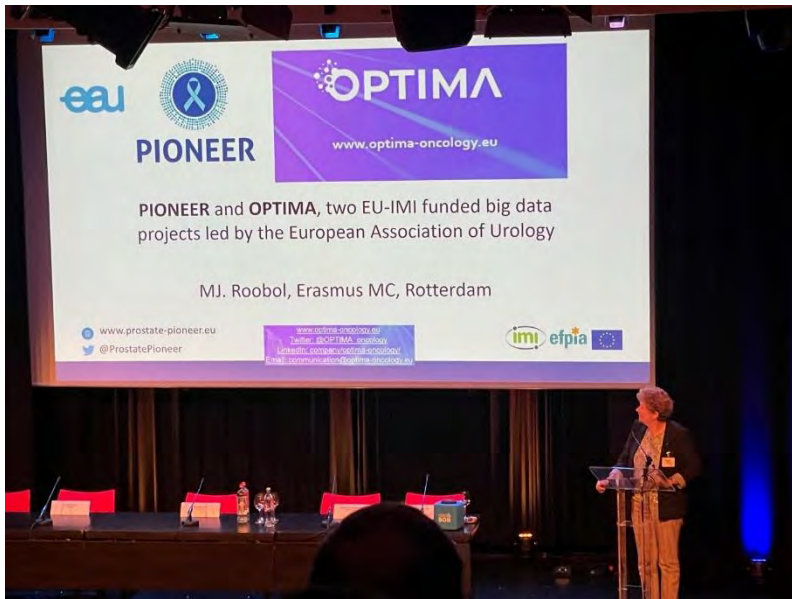
Pre-workshop: Oncology WG





European OHDSI 2023, SS Rotterdam, July 3rd

Main Symposium



PIONEER & OPTIMA
Solid cancer



HONEUR
Heamatologic cancer



EURACAN
Rare cancer



European OHDSI 2023, SS Rotterdam, July 3rd

Cancer data standardization


Different data coding systems

Tumor grade

- 1 FNCLCC score
 - Differentiation grade
 - Mitotic count
 - Necrosis
- 2 Tumor grade
 - Differentiation grade

3 July 2023 EURACAN – Data Harmonization 90

Working with Disease Specific Datasets



Focus on deep clinical data:

- Specific variables that are often not available as structured data:
 - Regimens across different lines of treatment
 - Response / Minimal Residual Disease
 - Staging
 - Information on lesions (#, size, ..)
 - Cytogenetic risk factors
 - Reason for stopping a regimen
- Important variables can often be in text -> manual curation

HONEUR Janssen 104



European OHDSI 2023, SS Rotterdam, July 3rd

Analytic infrastructure

From registry data to federated learning network

OMOP-CDM → Node → Server → User Interface → Researchers

Choose analysis

Analysis results

Analysis script

VANTAGE

'Grouped' analysis of different data sources as if data is stored locally

3 July 2023

EURACAN – Data Harmonization

96

From feasibility to result – technical flow

Data Catalogue → Atlas → Study Catalogue

Identify relevant Data sources → Perform a feasibility Query → Formulate Research Study

Study Script(s)

Local Execution

Feder8 Storage Service

Interactive Application (plotly | Dash)

Aside the technical flow, the governance aspect includes an HONEUR board, forum and study Working group

HONEUR

janssen



European OHDSI 2023, SS Rotterdam, July 3rd

Study-a-thon

Studyathon 1 - A

PIONEER

Results : The most common comorbidities were hypertension (35-73%), obesity (9.2-54%) and type 2 diabetes (11-28%). The rate of PCa-related symptomatic progression ranged between 2.6-6.2%.

a. Age group: <55 y.o.

b. Age group: 55-60 y.o.

c. Age group: >60 y.o.

www.prostate-pioneer.eu @ProstatePioneer

Studyathon 1 - A

PIONEER

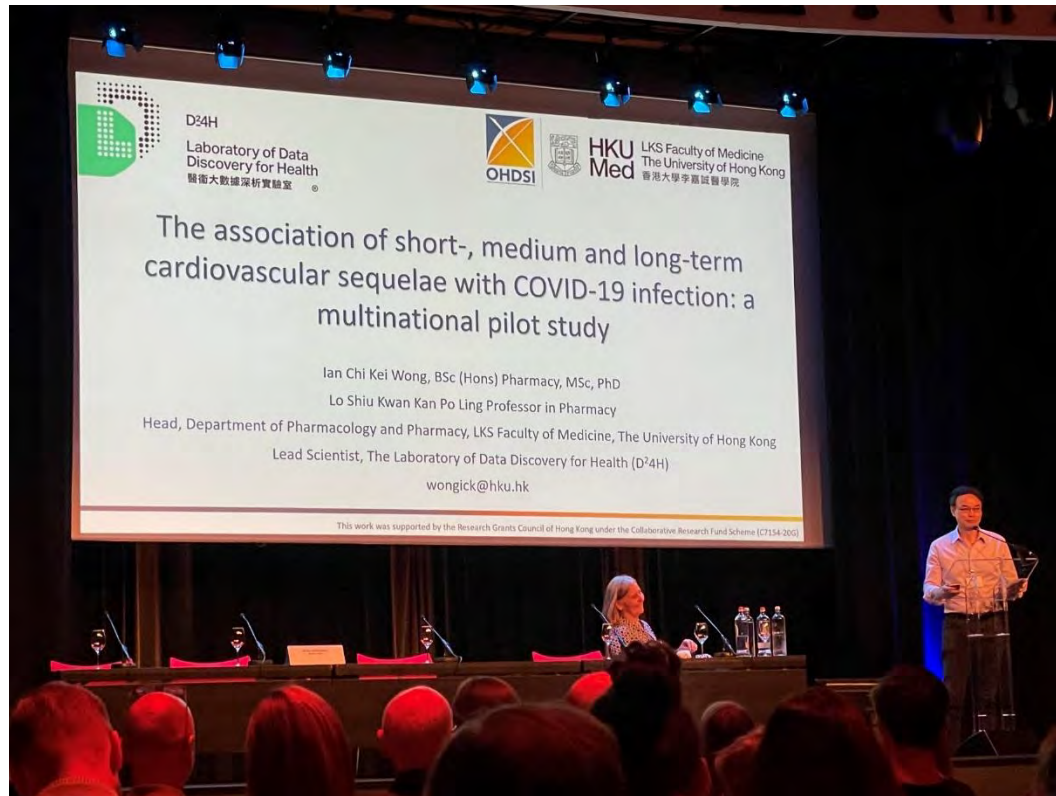
Results : The probability of being free from both palliative and curative treatments decreased during follow-up.

www.prostate-pioneer.eu @ProstatePioneer



European OHDSI 2023, SS Rotterdam, July 3rd

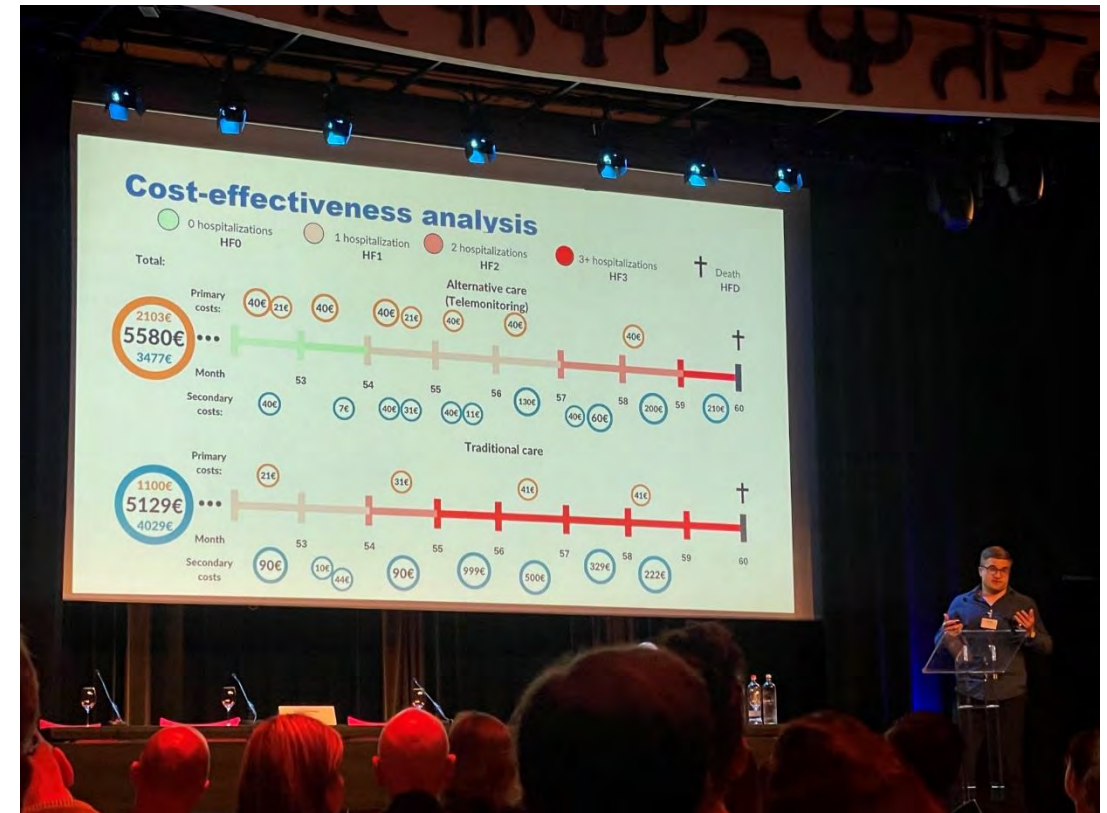
Rapid fire session – PASC study





European OHDSI 2023, SS Rotterdam, July 3rd

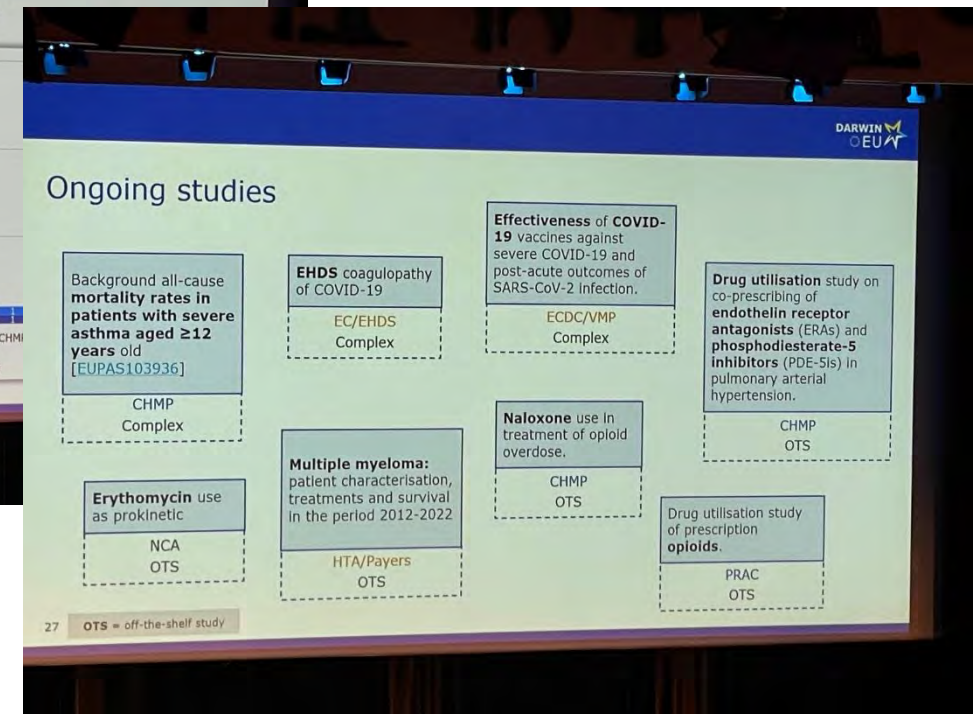
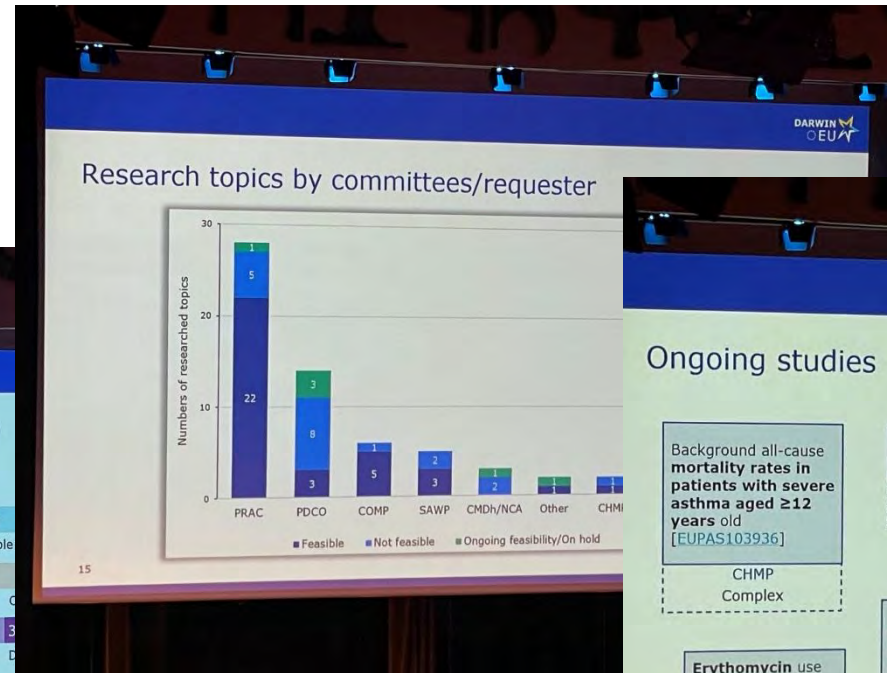
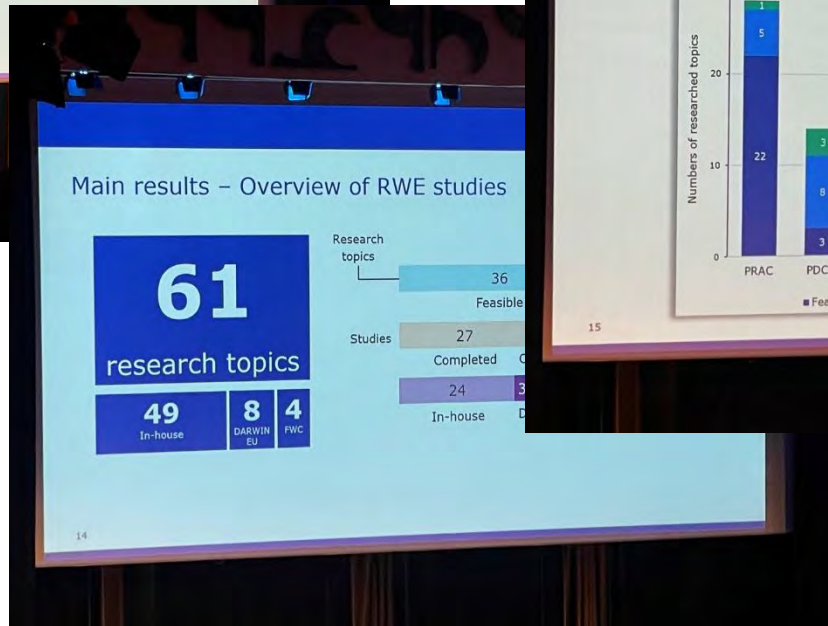
Rapid fire session – Cost effectiveness study





European OHDSI 2023, SS Rotterdam, July 3rd

DARWIN EU – EMA driven studies

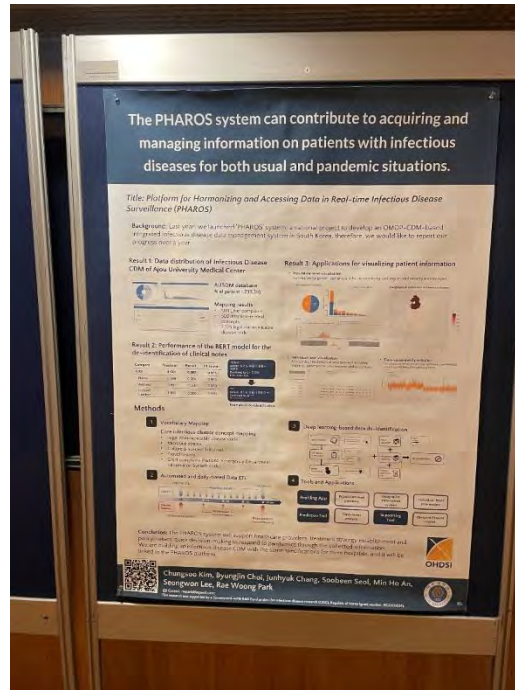




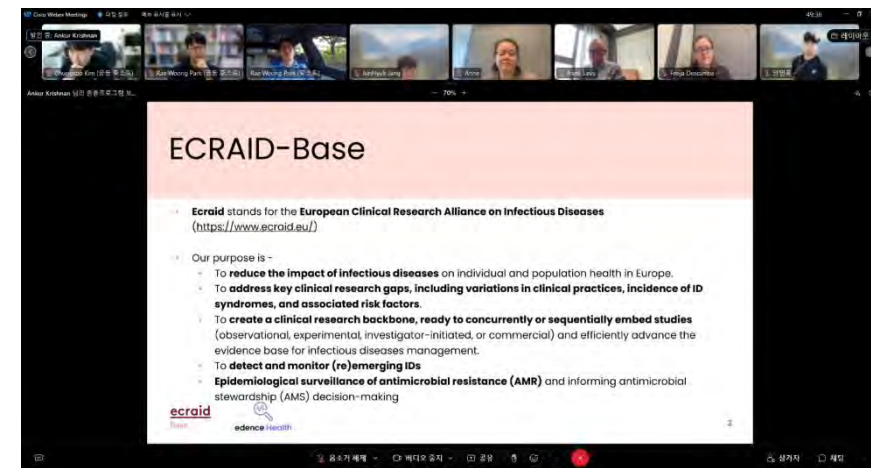
European OHDSI 2023, SS Rotterdam, July 3rd

Initiate a new collaboration

Poster session



**PHAROS
(Infectious disease
platform project)**





European OHDSI 2023, SS Rotterdam, July 3rd



Closing event





Summary

- Focusing on cancer research using OMOP-CDM
 - Standardization of disease-specific data
 - Building infrastructure for a federated data network
 - DARWIN EU
 - Activating the national nodes / SMEs
-

**2023
OHDSI
APAC
SYMPOSIUM
SYDNEY, AUSTRALIA**



A collaborative recipe
for generating reliable
real world evidence

Reflections

Nicole Pratt

*University of South Australia
OHDSI Australia Chapter Lead*



**2023
OHDSI
APAC
SYMPOSIUM**
SYDNEY, AUSTRALIA

A collaborative recipe
for generating reliable
real world evidence

📅 13th & 14th July, 2023

The Galleries,
John Niland Scientia Building,
UNIVERSITY OF NEW SOUTH WALES
Gate 11 Library Walk
Kensington Campus
KENSINGTON NSW 2052

Registration at:
www.ohdsi.org/2023apacsymposium/

University of South Australia | Quality Use of Medicines and Pharmacy Research Centre | UNSW | Medicines Intelligence CREM

- **Two-day in-person event**
 - Symposium Day 1: Main Conference
 - Symposium Day 2: Tutorials + Oncology Workgroup discussions
- **110 attendees**
 - 58% Aus (*All Aus regions represented excl. NT*)
 - 42% international
 - 32% APAC (Korea, Taiwan, Japan, Singapore, Hong Kong, China)
 - 10% Other (US, UK & Sweden)
- **Diverse participant representation**
 - Academics, clinicians, students, regulators, industry, not-for-profit (Minderoo Foundation), OHDSI devotees & one consumer!
- **Eight Symposium sessions including**
 - 30 speakers
 - 12 speaker presentations including,
 - 7 lightning talks representing Asia-Pacific
 - 2 panel discussions
 - 6 tutorial presentations
 - **1 (Oncology) workgroup brain-storm session**
 - 21 poster presentations
- **One phenomenal APAC Steering Committee – thanks all!**
- ... and AI-generated beer!



Sponsors



University of South Australia | Quality Use of Medicines and Pharmacy Research Centre

UNSW SYDNEY

Medicines Intelligence
CRE

ARDC IQVIA

Australian Research Data Commons

A recipe for
generating
reliable real-
world
evidence that
can guide
clinical
practice,
shape health
policies, and
ultimately
improve
patient
outcomes

Ingredients:

High-quality data (that captures the full spectrum of healthcare experiences)

Instructions:

- STEP 1: Collaborate
 - Bring together researchers, clinicians, data scientists, and policymakers from diverse backgrounds to pool expertise, harmonize methodologies, and overcome the challenges inherent in analyzing real-world data.
- STEP 2: Standardize
 - Use the OMOP Common Data Model, to harmonizing disparate data sources, ensuring interoperability, and enabling large-scale analyses.
- STEP 3: Spice with innovation
 - Implement cutting-edge best practice techniques that uncover hidden patterns and generate novel insights
- STEP 4: Report
 - Report all results, data sources used, analytical techniques, assumptions and biases to accelerate the translation of evidence into practice
- STEP 5: Consume!

Session 1: OHDSI, an artisanal approach to crafting real-world evidence

Engineering an open science system that builds trust, confidence and addresses the needs of decision makers, clinicians and consumers



Patrick Ryan

OHDSI
OPERATIONAL HEALTH DATA SCIENCE AND BIOMEDICINE
Australia 2023

A question to ask yourself throughout the day

If you had:

- an open community of international, multi-disciplinary, cross-stakeholder collaborators
- an open community data standard used by >400 databases around the world
- established and evaluated scientific best practices that can ensure reliable evidence
- a suite of open source tools capable of supporting the entire journey from data to evidence

What would you do?

```
graph LR; subgraph OHDSI_Data_partner_n; SD[(Source data)] -- ETL --> OMOP_CDM[(OMOP CDM)]; OMOP_CDM <--> OHDSI_tools[OHDSI tools]; end; SD --> SSR[Standardized summary statistics results repository]; SSR -- Collaborative Interpretation --> ED[Evidence dissemination];
```

The diagram illustrates the data pipeline. It starts with 'Source data' in a cylinder, which is processed via 'ETL' into 'OMOP CDM' in a cylinder. 'OMOP CDM' is connected to 'OHDSI tools' in a box. The 'OHDSI Data partner n' label is above this section. An arrow points from 'Source data' to 'Standardized summary statistics results repository' in a box. From there, an arrow labeled 'Collaborative Interpretation' points to 'Evidence dissemination' in a box. The word 'Education' is partially visible on the right side of the slide.

Session 1: OHDSI, an artisanal approach to crafting real-world evidence

What has OHDSI done?

Most Common Drug Disease Pairs in Observational Studies Published in PubMed (2015-2021)



Asieh Golozar



A question to ask yourself throughout the day

If you had:

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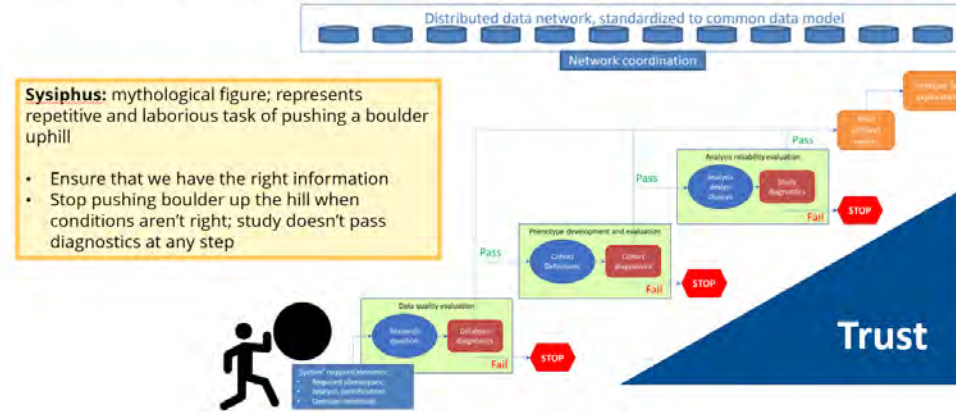
- Autoimmune Diseases
- Rare diseases
- ...

Session 2: A step-by-step recipe for RWE: the OHDSI Save-Our-Sisyphus Challenge

How do we build trust in real-world evidence?



- Open science system to build trust and confidence:

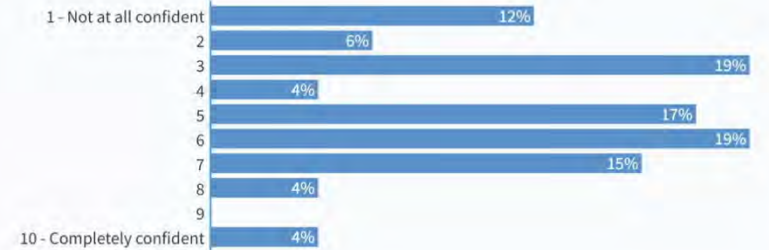


Jack Janetzki

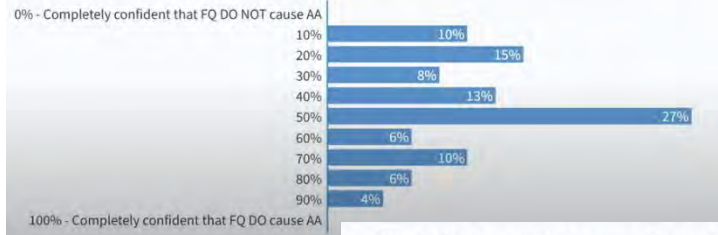
How confident are you that fluoroquinolones cause aortic aneurysm or dissection?



How confident are you that the prior evidence is reliable and can be trusted?



How confident are you that fluoroquinolones cause aortic aneurysm?



“Nice normal distribution 50/50”

Given this new information, how confident are you that fluoroquinolones cause aortic aneurysm?



1 database: “still tremendous uncertainty”

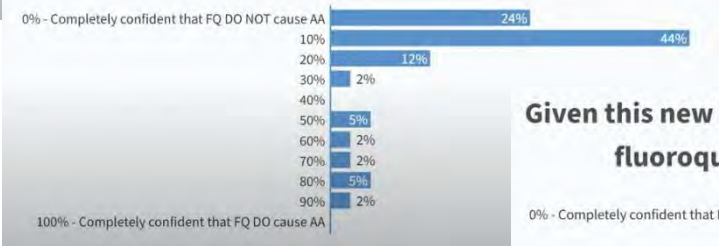
“95% of studies we read are a single persons study in a single database”

Given this new information, how confident are you that fluoroquinolones cause aortic aneurysm?



2 databases: “one slightly underpowered, one more powered but not suggestive of increased risk – distribution has shifted...”

Given this new information, how confident are you that fluoroquinolones cause aortic aneurysm?



Meta-analysis: “substantial shift” “collectively showing you consistent evidence of no effect....”

Given this new information, how confident are you that fluoroquinolones cause aortic aneurysm?



Study diagnostics: A (short) checklist

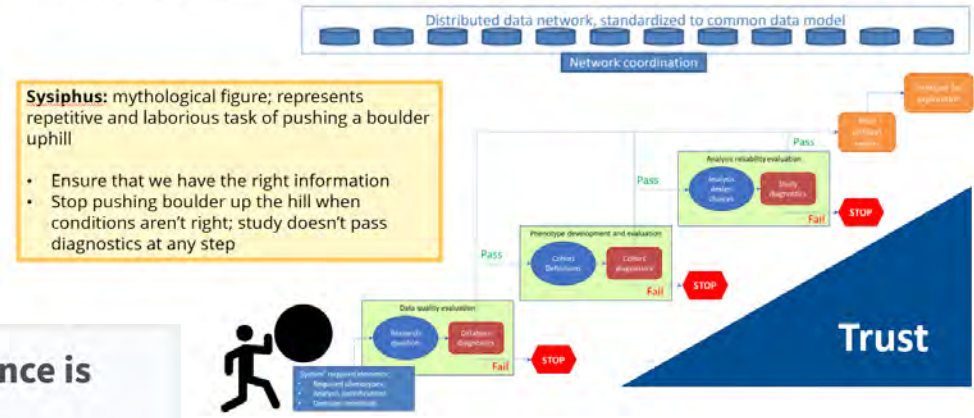
- Statistical power: minimum detectable relative risk
- Target-comparator similarity: empirical equipoise
- Between-person confounding: covariate balance
- Generalizability: attrition fraction
- Residual bias: expected absolute systematic error
- Other design/analysis-specific checks:
 - SCCS: time trends, pre-exposure outcomes, etc.
 - Prediction: PROBAST criteria

How confident are you that the new OHDSI evidence is reliable and can be trusted?

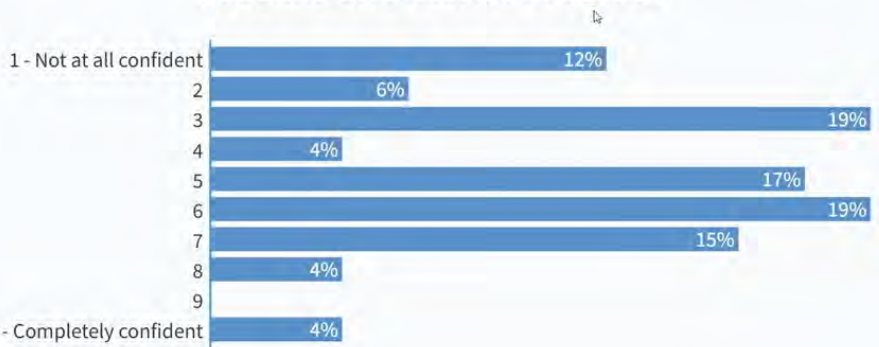


How do we build trust in real-world evidence?

- Open science system to build trust and confidence:



How confident are you that the prior evidence is reliable and can be trusted?



We need everyone at the table to not only consume the evidence but also to set the menu!



How can OHDSI help *[you]* by generating evidence for the *questions that matter* to *[you]*?

What else can OHDSI do to *build trust* that the evidence we provide is reliable and can be used in decision making?

How can OHDSI *improve understanding* about real world evidence we produce so that it can be used in decision making?



New OHDSI Work Group Proposed: Knowledge Translation

Collaborator Showcase: 35 Posters!



Session 3: Too many cooks is never enough: collaborative data harmonization to improve patient care



FHIR-> OMOP



OMOP + FHIR Engagement Opportunities



- **OHDSI Weekly Community Call:** each Tuesday, 11 am EASTERN, US
 - July 18, Vulcan: An HL7 FHIR Accelerator Transforming Clinical & Translational Research
 - <https://ohdsi.org/community-calls/>
- **OHDSI Global Symposium:** Oct. 20-22, East Brunswick, New Jersey,
 - OMOP + FHIR Connectathon: 8a-5p, Sunday, October 22
 - <https://ohdsi.org/ohdsi2023/>
- **OHDSI OMOP + FHIR Working Group Main Calls**
 - Mondays (weekly) 6-7 pm EASTERN US (via MS Teams)
 - <https://www.ohdsi.org/upcoming-working-group-calls/>
 - Use established FHIR IG Profiles (IPA, or IPS / US Core)
 - Project report /white paper
 - Environmental scan: breadth of prior work discovered
 - IG Profile overlap/ gap analysis
 - Iterative Connectathon Engagement
 - Validate & Refine SME-curated maps

OMOP/FHIR – Overcoming challenges through collaboration


Grahame Grieve



Session 3: Too much harm

collaborative data care

practical
application
chemotherapy dose monitoring

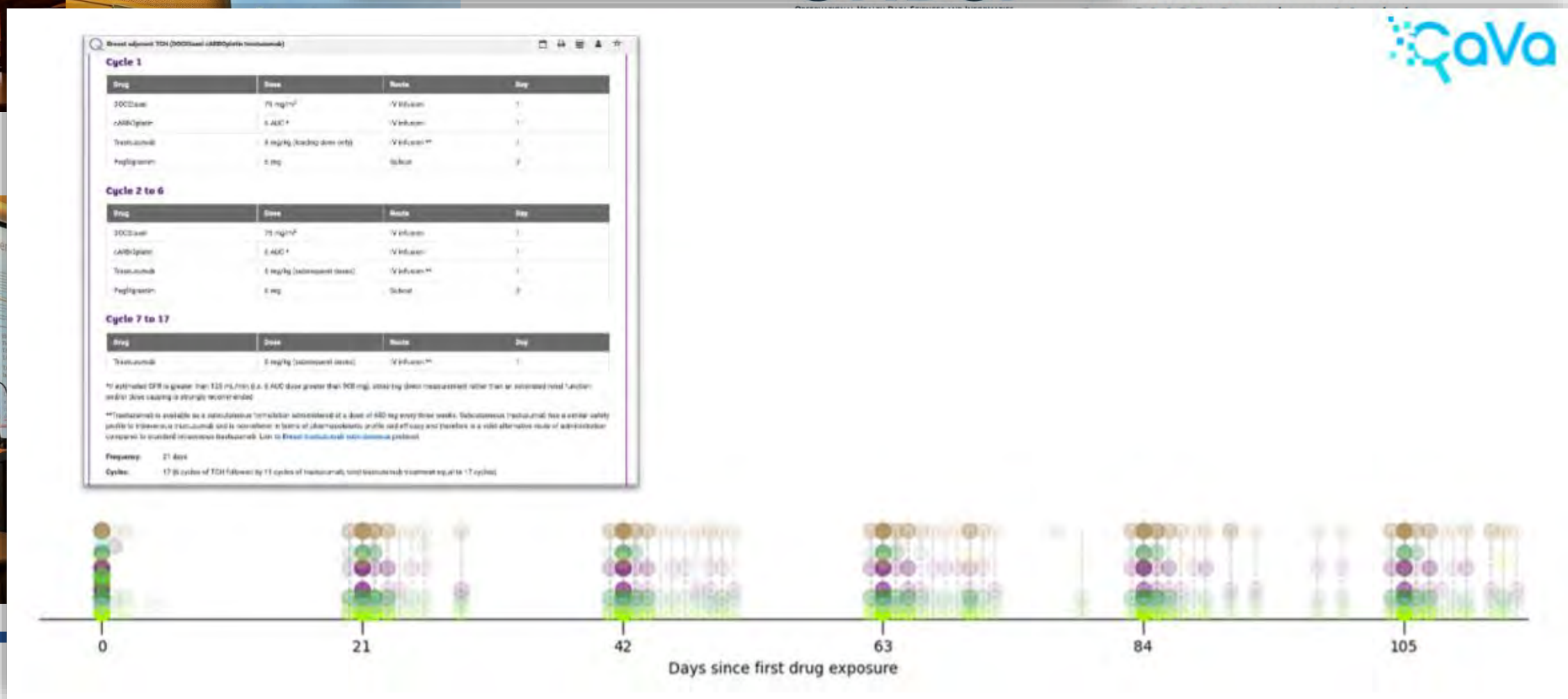


Maridulu Budyari Gumal
Working together for good health and wellbeing



Our aim is to provide a foundation for representing cancer data at the levels of granularity and abstraction required to support observational cancer research

Oncology Network



Oncology Module
of oncology research
Genetic Modifiers
Individual Level (standard OMOP)
Treatment with distinct clinical meaning

Session 4: A smorgasbord of health data insights from across the APAC region





Agency for Science, Technology and Research SINGAPORE

GUSTO DATA VAULT: LAYING THE FOUNDATIONS FOR AN OPEN SCIENCE SYSTEM WITH OMOP DATA CATALOGUE

Cindy Ho
Singapore
Date:

Internationalization Efforts for Real-World Evidence Creation at Core Hospitals for Clinical Research in Japan

National Cancer Center Hospital East
Yoshihiro Aoyagi
13th July 2023



The association of short-, medium and long-term cardiovascular sequelae with COVID-19 infection: a multinational pilot study

Ivan Chun Hang Lam, MPharm
Department of Pharmacology and Pharmacy, LKS Faculty of Medicine, The University of Hong Kong




Establishment of Evidence Sharing Network Through Common Data Model for Chinese Clinical Research: an Overview

Presenter: Meng Zhang, Sanbao Chai, Zilin Long, Tianmou Liu, Xiaowei Chen, Zuoxiang Liu, Mui Van Zandt, Jing Li, Chao Li, Yexiang Sun, Peng Shen, Hongbo Lin, Siyan Zhan, Feng Sun, Lei Liu



Successes and Challenges of a Multi-State EMR to OMOP Conversion Project in Australia


Roger Ward, Christine Mary Hallinan, Dougie Boyle



Comparative Risk for Neuropsychiatric Events in Leukotriene Receptor Antagonists versus Inhaled Corticosteroids in Children with Asthma


Subin Kim^{1,2}, Chang Hoon Han³, Jaehyeong Cho^{1,2}, Kyung Won Kim^{2,3}, Seng Chan You^{1,2}

¹Department of Biomedical Systems Informatics, Yonsei University College of Medicine
²Institute for Innovation in Digital Healthcare, Yonsei University
³Department of Pediatrics, Yonsei University College of Medicine



Lightning talk Prediction of Dementia incidence among patients with Type 2 Diabetes

Presenter: PHAN THANH-PHUC, MBA, Ph.D. candidate



Session 4: APAC Regional Chapters

Panel Discussion: We have the ingredients – now let's generate the evidence!



**2023
OHDSI
APAC
SYMPOSIUM
SYDNEY, AUSTRALIA**



A collaborative recipe
for generating reliable
real world evidence

Closing Session

Nicole Pratt & Patrick Ryan

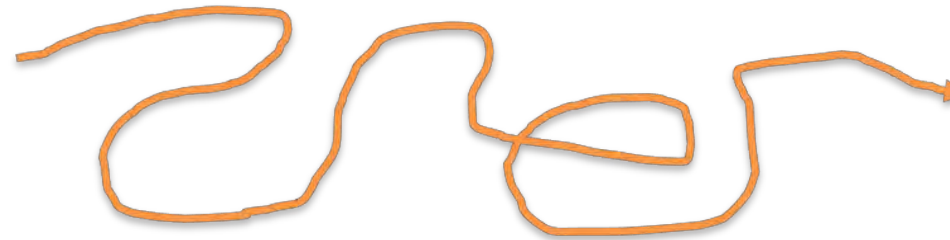
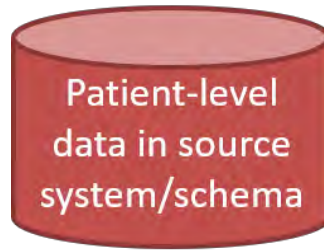
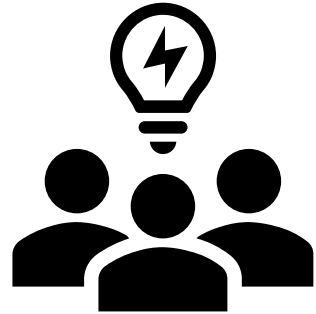
**The beer brewing
process:**

A metaphor that encapsulates
our journey together in our
pursuit of real-world evidence.



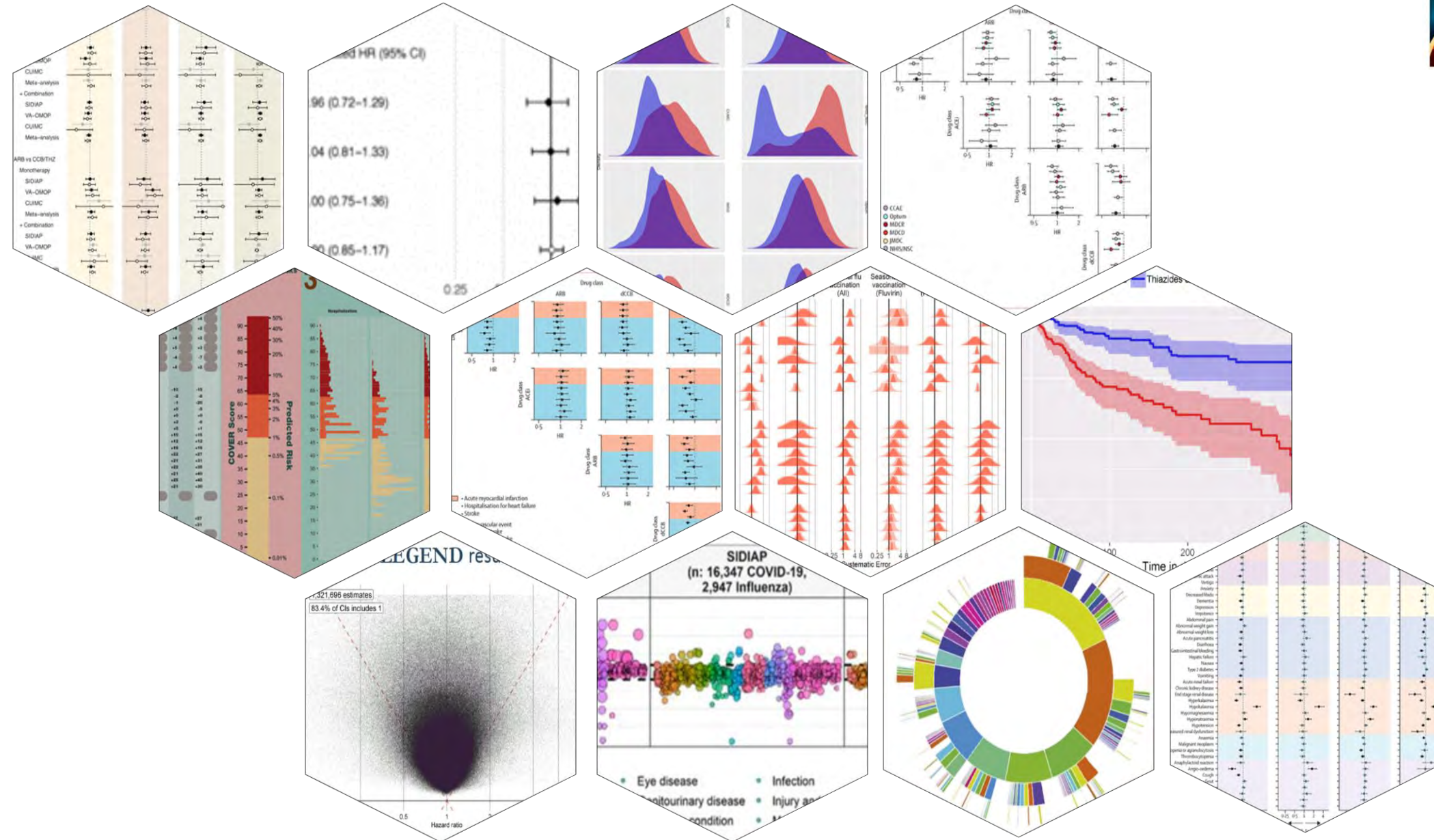
Different types of observational data:

- **Populations**
 - Pediatric vs. elderly
 - Socioeconomic disparities
- **Care setting**
 - Inpatient vs. outpatient
 - Primary vs. secondary care
- **Data capture process**
 - Administrative claims
 - Electronic health records
 - Clinical registries
- **Health system**
 - Insured vs. uninsured
 - Country policies



Types of evidence desired:

- **Clinical characterization**
 - Clinical trial feasibility
 - Treatment utilization
 - Disease natural history
 - Quality improvement
- **Population-level effect estimation**
 - Safety surveillance
 - Comparative effectiveness
- **Patient-level prediction**
 - Precision medicine
 - Disease interception



Our ingredients are data

Our craft is science

Our brew is evidence





Tutorial: The OHDSI Save-our-Sisyphus Challenge Journey



Time	Schedule Day 2 (Tutorial) A step-by-step recipe for RWE	Moderator
Morning Session 1	Welcome and Overview of the Day	Nicole Pratt
	The OMOP CDM, vocabularies and ETL process	
09:00-09:30	- Overview of the OMOP CDM and vocabularies (Lecture)	Global: Mui Van Zandt
09:30-10:00	- The ETL process (Lecture)	Global: Mui Van Zandt
10:00-10:20	- Live demo of a dataset translation (with focus on PBS data)	APAC: Song Gyeol
10:20-10:40	Break	
Morning Session 2	Using OHDSI Tools to generate evidence (the Fluroquinolone SOS Challenge study process)	
10:40-11:00	- How to define a clinical question as an OHDSI study (Lecture)	Global: Patrick Ryan
11:00-11:45	- Defining cohorts and phenotypes using ATLAS (Lecture)	APAC: Seng Chan You
11:45-12:30	- Cohort hands-on in ATLAS	APAC: Seng Chan You
12:30-13:30	Break	
Afternoon Session 1	Research study in depth (analytic study design and execution)	
13:30-14:30	- Overview of OHDSI modules (characterization, estimation, prediction) (Lecture)	Global: Patick Ryan
14:30-15:00	- Live demo of execution of a module (preferably characterization and/or cohort diagnostics)	APAC: Thanh-Phuc Phan (TMU)
15:00-15:20	Break	
Afternoon Session 2	Research study in depth (interpretation)	
15:20-17:20	Clinical interpretation and study diagnostics - Exploration of results in OHDSI analysis viewer	Global: Matijn Scheumie APAC: Nicole Pratt
15:20-17:20	Technical hands-on access to Strategus results database	Global: Marc Suchad APAC: Jack



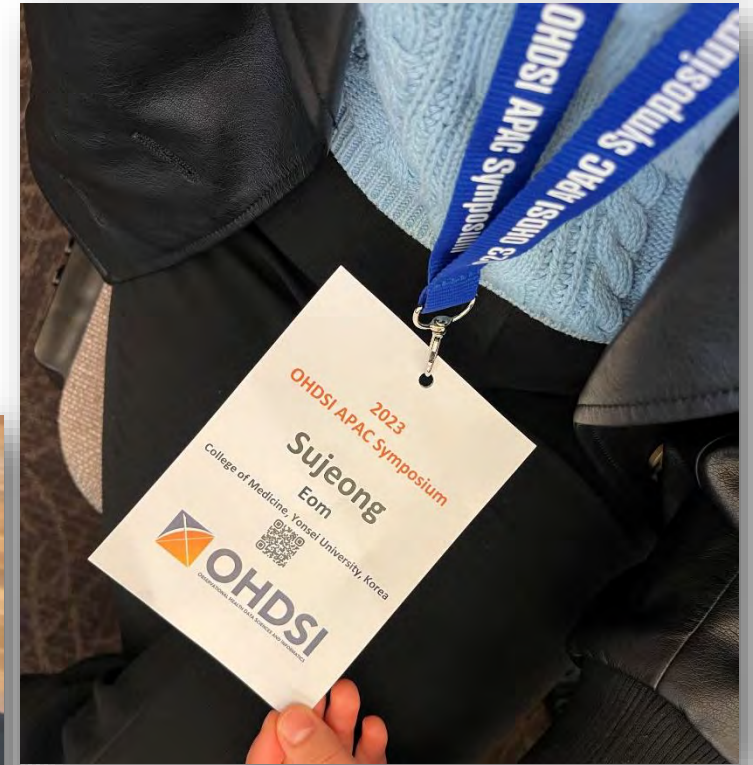
OHDSI-APAC Community Call

Recap: 23' OHDSI-APAC Symposium

Sujeong Eom, graduate student
Dept of Biomedical Informatics, Yonsei University



Registration



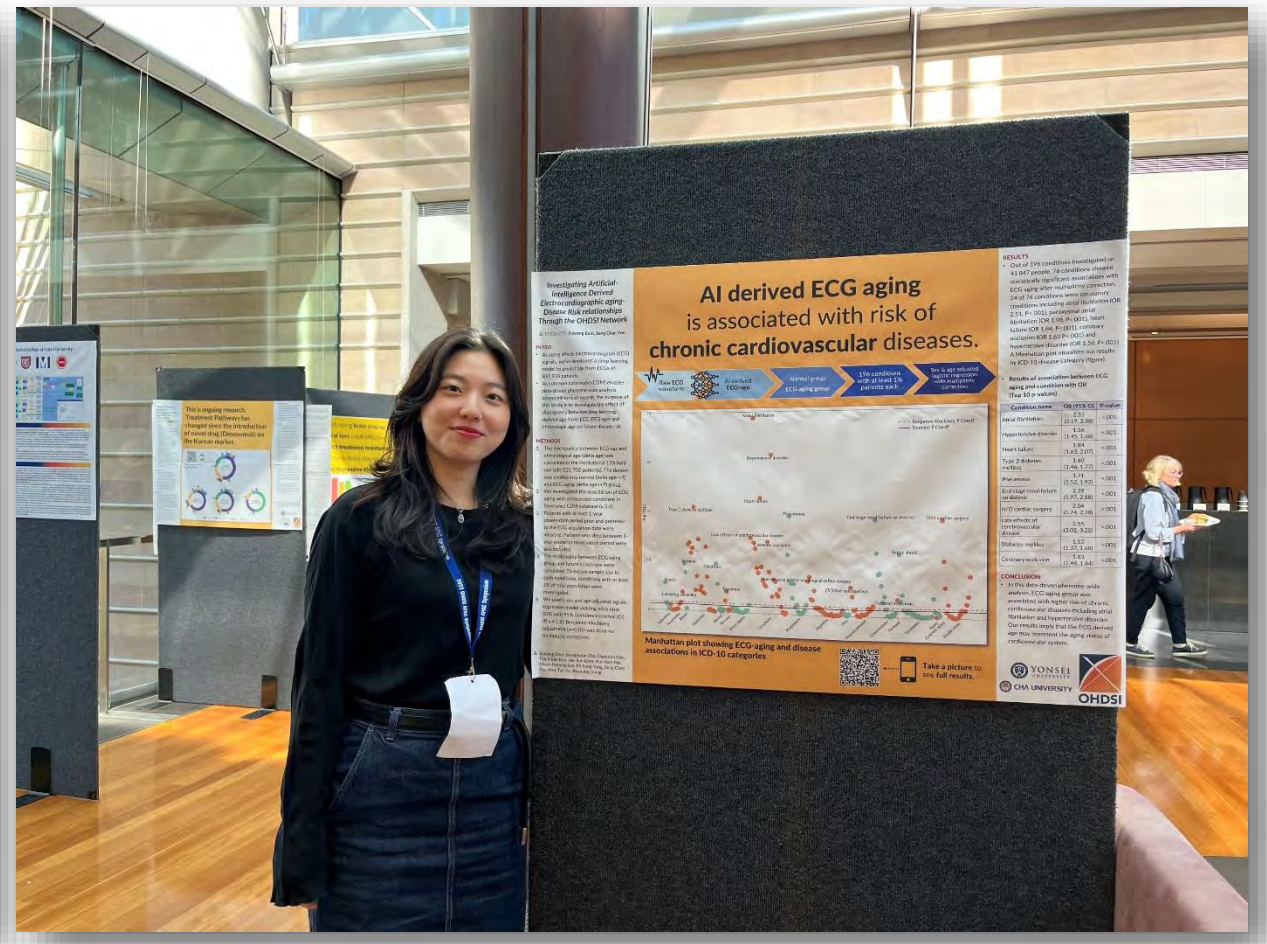
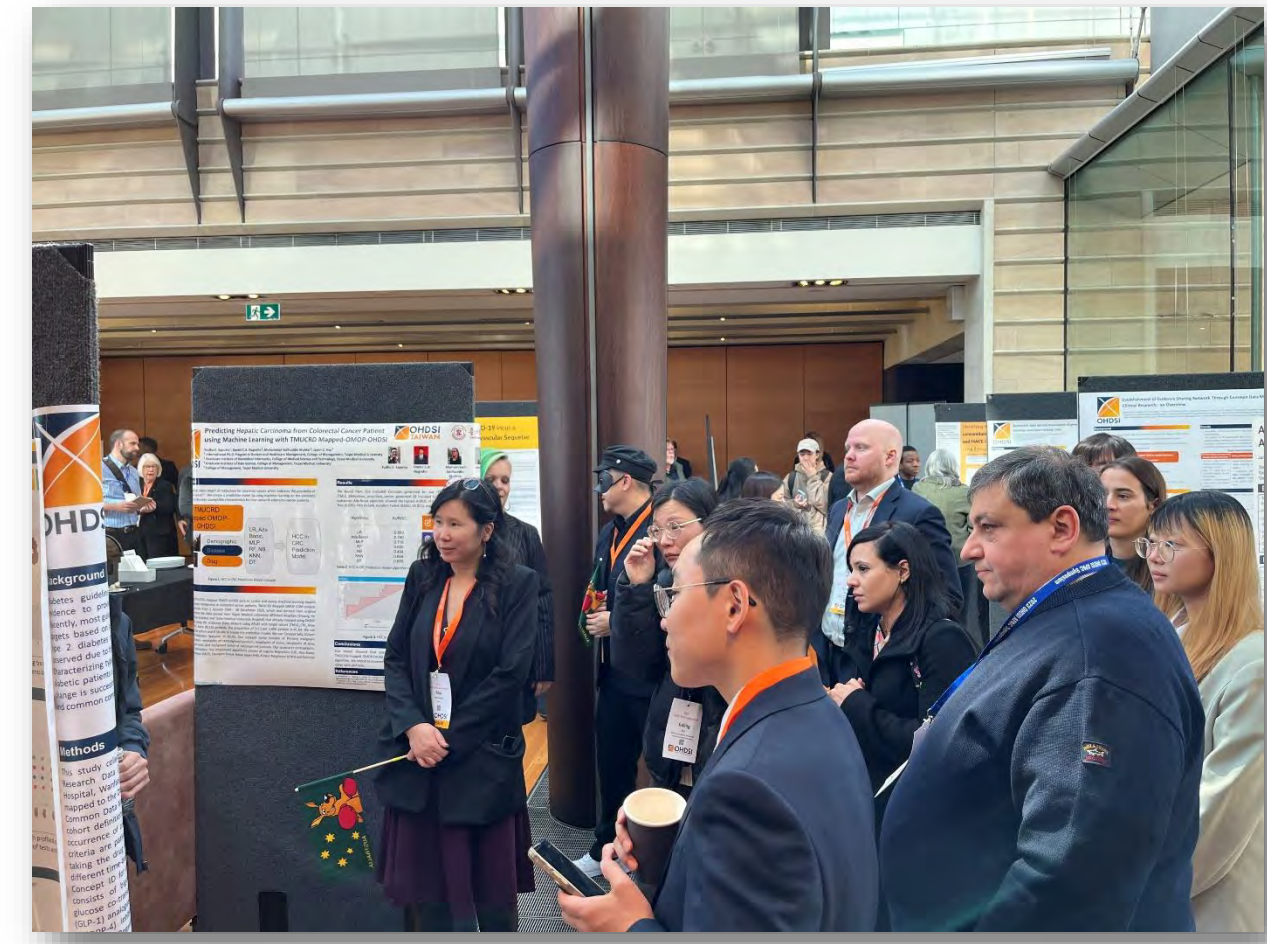


Welcome session





Poster presentation





Day 1 Sessions





Networking reception





Day 2 Tutorials





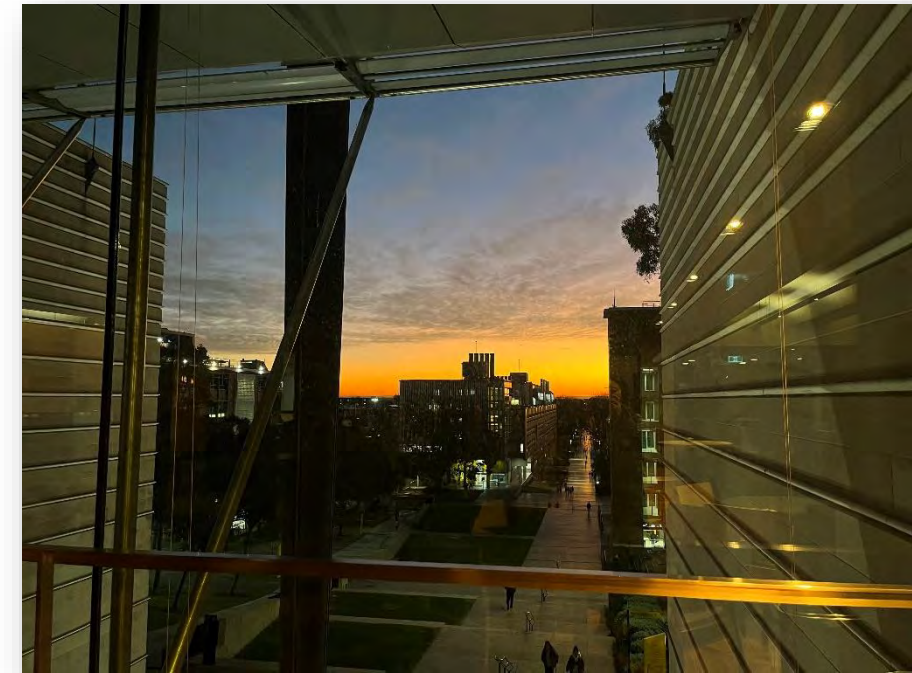


Fabulous lunch





Beautiful campus





Korean hearts!





See you next time in Singapore!





Thank you!