



**OHDSI**  
OBSERVATIONAL HEALTH DATA SCIENCES AND INFORMATICS



## OHDSI OMOP

(Observational Health Data Sciences and Informatics – Observational Medical Outcomes Partnership)

### Melbourne Symposium

The OHDSI Common Data Model in Australia – Understanding and Leveraging EMR data for Clinical and Population Audit and Research

#### Session Program

Day 1: Wednesday 18<sup>th</sup> October 2023, 08:30-16:00

Day 2: Thursday 19<sup>th</sup> October 2023, 08:30-16:30

Time	DAY 1 Session Name	Speaker	Notes
8.00am	Registration		Tea / Coffee
9.00am	Event begins Welcome to Country Introduction and Venue Explanation / Safety	Graeme Hart	
9.05am	Introduction to OHDSI – Why are we here?	Graeme Hart	(10 mins)
9.20am	An Open Science system that builds trust, confidence and addresses the needs of regulators, clinicians, ethics committees and consumers	Doug Boyle	(30 mins)
9.50am	An Overview of OHDSI international collaboration		(30 mins)
10.20am	Overview of Australian OHDSI OMOP sites <ul style="list-style-type: none"> <li>• Uni SA</li> <li>• Qld Health Experience</li> <li>• UNI NSW / RPA Experience</li> <li>• Austin Health</li> <li>• PATRON GP</li> <li>• Royal Childrens</li> <li>• Peter McCallum</li> <li>• Western</li> <li>• VCCC Emergency and Admissions data</li> </ul>	<ul style="list-style-type: none"> <li>• Jack Janetzki</li> <li>• Rejie Philips</li> <li>• Angus Ritchie</li> <li>• Claire Holt</li> <li>• Roger Ward</li> <li>• Ezra Fass</li> <li>• Ashley Ng</li> <li>• Rejie Philips</li> <li>• David Ormiston Smith</li> </ul>	9 x 5 mins (45 mins)
11.00am	Morning tea		(30 mins)
11.30am	How Does OMOP work? <ul style="list-style-type: none"> <li>• CDM</li> <li>• Terminologies</li> <li>• Toolsets</li> </ul>	Rejie Philips	

Time	DAY 1 Session Name	Speaker	Notes
	<ul style="list-style-type: none"> <li>• Limitations of OHDSI data – quality considerations and responses</li> <li>• Conversion of EMR and other digital assets to OMOP</li> <li>• Analysis Tools</li> <li>• Educational Resources</li> </ul>		(30 mins)
11:45	<ul style="list-style-type: none"> <li>• Limitations of OHDSI data – quality considerations and responses</li> <li>• Examples of research and other outputs of OHDSI collaborators</li> </ul>	Dougie Boyle	
12.00pm	<p>What Does EMR data mean for existing Public Health Data repositories and Public Health Research?</p> <p>Advantages brought by CDM for Statewide Research - Linked data to overcome data gaps</p>	VAHI representative	(30 mins)
12.30pm	What Does EMR / OMOP data mean for Clinical Quality Registries?	Stroke Registry – Monique Kilkenny	(30 mins)
1.00pm	What Does EMR / OMOP data mean for Drug and Device surveillance and Pharma studies	Jim Buttery	(30 mins)
1.30pm	Lunch		(1 hour)
2.30pm	<p>How Does OHDSI change the risk profile / access requirements for cohort research?</p> <ul style="list-style-type: none"> <li>• Overview of Ethics and Data Governance Issues</li> <li>• How Do Melbourne Health Services approach data access and governance for EMR based audit and research</li> <li>• A view from Peter McCallum</li> <li>• A view from Austin</li> <li>• A view from Royal Childrens</li> <li>• Consumers View</li> <li>• How can we improve the access to data in a low-risk environment?</li> <li>• What are the risks that do need to be managed?</li> <li>• Data Governance</li> <li>• Roadblocks</li> </ul>	<p>PANEL</p> <p>Douglas Boyle Ash Ng Gareth Jones Sebastian Dubrovsky Heidi Gaulke Jo Hickman (consumer rep) Graeme Hart Doug Boyle</p>	(45 mins)
3.50pm	Closing remarks	Graeme Hart	
4.00pm	Event ends (day one)		

Time	Day 2 Session Name	Speaker	Notes
8.00am	Registration		Tea / Coffee
9.00am	Event begins Acknowledgement of Country Introduction and Venue Explanation / Safety	Graeme Hart	
9.10am	Break Outs – Simplification and standardisation of HREC approvals for OHDSI based projects– <ul style="list-style-type: none"> <li>• Knowledge Gaps in HRE committees and data governance ?</li> <li>• Process – how could OMOP practice be different?</li> <li>• Application Requirements - how could OMOP practice be different?</li> <li>• Study Types <ol style="list-style-type: none"> <li>1. Cohort Discovery – Research planning</li> <li>2. Simple local Audit</li> <li>3. Outcome</li> <li>4. Prediction</li> </ol> </li> <li>• Institutional</li> <li>• Multisite</li> <li>• Linked multisite</li> </ul>	Graeme Hart Jim Buttery	
11.00am	Morning tea		(30 mins)
11.30am	Simplification and standardisation of clinician access via ATLAS / R Studio	Jack Janetzki	(30 mins)
12.00pm	Establishing a Victorian Community of practice for EMR Data driven research	Discussion Graeme Hart Jack Janetzki	
1.00pm	Lunch		(1 hour)
2.00pm	A pilot multicentre study using local OMOP data	Group Discussion	
4.15pm	Closing remarks	Graeme Hart	
4.30pm	Event ends		