



CONCEPT NOTE FOR PLENARY SESSION

14th Priorities 2024 Conference

Plenary Session 1

The 14th Priorities Conference
Millennium Hilton
Bangkok, Thailand

Title: From Data to Action: Leveraging AI and RWE for Informed Priority Setting

Date: 8th May 2024

Time: 9.30 – 10.45 AM

Session coordinators: Miss Picharee Karunayawong, Miss Chayapat Rachatan

Background:

Real-World Evidence (RWE) and Artificial Intelligence (AI) have been around for over decades, serving as valuable tools for prioritization support. Still today, they remain prominent topics of discussion at numerous conferences and platforms. Debates continue on issues such as whether RWE and AI are here to stay or are they just trendy items and whether their pros outweigh their cons (i.e., what are the tradeoffs) including can they truly help with prioritization and how, and what are things to watch out for in RWE and AI if our society will rely on them more and more.

In this plenary, we hope to settle these debates once and for all. The session aims to provide a comprehensive overview of the advantages and disadvantages of RWE, followed by illuminating case studies showcasing its role in bolstering the policy-making process. Our exploration of RWE will culminate in a forward-looking discussion, pondering its enduring presence, potential pitfalls, and strategies for fostering its advancement. We will then seamlessly transition to a similar examination of AI, dissecting its pros and cons before delving into real-world examples of how AI has empowered the decision-making process. As we wrap up the discussion on AI, we'll contemplate its future trajectory – are they here to stay, what to watch out for, and how can we support AI moving forward responsibly.

Objective:

- To summarize the pros and cons of RWE and AI
- To learn more about case studies where RWE and AI have been used to support prioritization in healthcare system
- To discuss future directions of RWE and AI

Expected output/outcome:

- Raising awareness of using RWE and AI in priority setting
- Increasing understanding of pros and cons of both RWE and AI
- Learning more about RWE and AI implementation in healthcare industry through case studies

Format:



- Presentation and open discussion (Q&A session)

Agenda:

Timeline overview

Time	Focus area	Speaker(s)
09:30 – 09:40 AM	Context setting	Assoc. Prof. Dr. Wanrudee Isaranuwachai
09:40 – 09:50 AM	Exploring the potential of RWE in policymaking: Case studies from Taiwan	Dr. Jasmine Pwu
09:50 – 10:00 AM	RWE – Some challenges and opportunities	Prof. Jeffrey S Hoch
10:00 – 10:10 AM	Enabling Public Healthcare With AI	Dr. Adapa Karthik
10:10 – 10:20 AM	The use of AI in healthcare	Asst. Prof. Dr. Chen Wenjia
10:20 – 10:45 AM	Panel discussion and Q&A	All

Speakers:

1) Dr. Jasmine Pwu	
	<p>Dr. Jasmin Pwu is the current CEO of the Data Science Center at Fu-Jen Catholic University. She specializes in epidemiology with a focus on large database analysis, as well as decision analysis and cost-effectiveness analysis. She is one of the pioneering researchers in healthcare decision analytic modeling in Taiwan. Pioneering developer of Taiwan's HTA system. Creator of the National Hepatitis C Program under the Ministry of Health and Welfare (MOHW).</p>
2) Asst. Prof. Dr. Chen Wenjia	
	<p>Heterogeneity in phenotypes and multi-morbidity are common challenges in the management of chronic diseases. Dr Chen and her colleagues are interested in addressing the complexity of care and treatment in chronic diseases to ensure the sustainability of our healthcare system. Big health data such as electronic health records enable us to thoroughly investigate the complete picture of chronic conditions, health services use, medication pattern and outcomes of each individual in the population.</p> <p>Dr Chen's research program aims to apply big data analytics to generate cutting-edge evidence to support personalized, 'systems' care of chronic disease and multi-morbidity. She integrates principles of health economics, statistics, and health policy, and uses knowledge translation to empower policy and clinical decision making.</p>

3) Professor Jeffrey S Hoch



Jeffrey Hoch received his PhD in health economics from the Johns Hopkins School of Public Health. He is a Professor and Chief of the Division of Health Policy and Management, Department of Public Health Sciences, and he is the Associate Director of the Center for Healthcare Policy and Research at the University of California at Davis. Professor Hoch teaches courses in health economics and studies value in healthcare. He has contributed more than 200 peer-reviewed articles to scientific literature. An award-winning educator, Professor Hoch has taught Economic Evaluation classes worldwide, giving over 250 invited presentations in 15 countries.

4) Adapa Karthik



Dr Karthik Adapa is the Regional Adviser, Digital Health, World Health Organization- South East Asia Regional Office (WHO-SEARO). Dr Adapa is a physician-scientist and his work broadly focuses on designing, developing, implementing, validating, and evaluating digital health interventions. Dr. Adapa uses methods from human factors engineering, implementation science, and artificial intelligence based on his training in internal medicine, public health, public policy, and digital health. At WHO-SEARO, Dr. Adapa provides strategic advice to member countries on the digital transformation of health systems and supports member countries in exploiting opportunities provided by digital technologies and use of big data while safeguarding privacy, security and confidentiality.

Moderator:

Assoc. Prof. Dr. Wanrudee Isaranuwachai



Dr. Wanrudee Isaranuwachai is a Program Leader and Senior Researcher of the Health Intervention and Technology Assessment Program (HITAP), Thailand. She is also an Affiliated Scientist at St. Michael's Hospital, and an Associate Professor at the Institute of Health Policy, Management and Evaluation, University of Toronto, in Canada.

Her research focuses on how to apply health economics and health technology assessment (HTA) in the real-world setting as well as how to advance methods in economic evaluation (EE). She has experience conducting EEs using various methods with specific interest in the potential of big data in health economics and HTA to support evidence generation and policy-making process.

She has collaborated with researchers, health professionals, and policymakers in various areas to help communicate the value of health initiatives using EE. She has contributed to the training on HTA to support health systems in many countries. Dr. Wanrudee is dedicated to the creation and use of evidence in healthcare decision making.