2025 Australian eHealth Research Colloquium

Tuesday 25th March 2025

RBWH Education Centre, Block 1, Royal Brisbane and Women's Hospital, Herston QLD 4029

PROGRAM

Time zone for this event is AEST

08:30	**Registration, tea & coffee**

09:00 | *Welcome and introduction*
David Hansen, CEO, Australian e-Health Research Centre, CSIRO

9:10 | *Acknowledgement of country*
Henry Nona, Cultural Capability Officer, Metro North Health

SESSION 1: *Chair: Richard Royle, Chair, Australian e-Health Research Centre*

09:15 | *Automated wearable ultrasound imaging solution*
Maria Antico, Australian e-Health Research Centre, CSIRO

09:25 | *Australia's aged care data landscape: Gaps, opportunities and challenges*
Liesel Higgins, Australian e-Health Research Centre, CSIRO

09:35 | *Aus CVD Risk-i: Integrating cardiovascular risk calculation into GP systems using FHIR*
John Grimes, Australian e-Health Research Centre, CSIRO

09:45 | *Modelling the pathways to vaccine success: understanding the drivers of induced immunity in SARS-CoV-2 and influenza*
Laurence Wilson, Australian e-Health Research Centre, CSIRO

09:55 | *Modelling hospital demand and the prevalence of pathogens from climate variations for NCRA*
Rajiv Jayasena, Australian e-Health Research Centre, CSIRO

10:05 | *Kara-Care: An interoperable digital yarning tool to enhance Aboriginal health service delivery in the Pilbara region, WA*
Jana Vignarajan, Australian e-Health Research Centre, CSIRO
Leanne Pilkington, Aboriginal Health Team, Child and Adolescent Community Health, Child Adolescent Health Service, WA

10:15 | *SuPAFlow: Study to analyse patient flow in Queensland hospitals*
Angie Nguyen Vu, General Manager and Research Manager, Emergency Medicine Foundation

10:30	**Morning refreshments, poster displays and demonstrations**

11:00   *Low variation care: ieMR PowerPlans*
         Tanya Kelly, Deputy Director General for eHealth Queensland

11:15   *Digital public health*
         Brett Sutton, CSIRO Health and Biosecurity

11:30   *Bridging innovation to impact: Why QMS is the key to SaMD translation*
         Yan Chia, Australian e-Health Research Centre
         Jason Dowling, Australian e-Health Research Centre

11:45   *A day in the life of an Australian medicines terminology concept*
         Sarah Kong, Australian e-Health Research Centre, CSIRO

12:00   *Collaboration showcase: AEHRC and Herston Infectious Diseases Institute*

         Chair: Jason Roberts, Interim Director, Herston Infectious Diseases Institute and Director, UQ Centre for Clinical Research

1. *Design thinking in action: an innovative digital antibiogram (i-gram) tool to enhance antibiotic stewardship actions*
   Yukiko Ezure, Research Officer, School of Public Health, University of Queensland

2. *Development and clinical integration of a novel precision dosing software application to improve antimicrobial dosing in critically ill patients*
   Amy Legg, Clinical Pharmacist, Royal Brisbane and Women's Hospital and Clinical Researcher, UQ Centre for Clinical Research

3. *Infection control platform: Infection control real time data analysis and outcome simulation*
   Hamed Hassanzadeh, Australian e-Health Research Centre

4. Predicting CLABSI: *Catheter associated bloodstream infection in critically ill adults*
   Jessica Rahman, Australian e-Health Research Centre

5. *The 3000 Genomes project: Using machine learning and artificial intelligence for robust culture independent susceptibility testing*
   Patrick Harris, Infectious Disease Physician, Medical Microbiologist and NHMRC Emerging Leader (EL2) Fellow at the University of Queensland Centre for Clinical Research

6. *Wastewater-based epidemiology for viral pathogen surveillance*
   Jatinder Sidhu, Senior Research Scientist, Coastal Microbiology and Biogeochemistry, Environment Research Unit, CSIRO

13:00   **Lunch, poster displays and demonstrations**

SESSION 3:   *Chair: Marlien Varnfield, Australian e-Health Research Centre*

13:45   *Why implementation science matters in digital health: A case study*
         Alana Delaforce, Australian e-Health Research Centre, CSIRO

14:00   *To be announced*

14:15   *Considerations and evidence for genetic epistasis in complex disease*
         Letitia Sng, Australian e-Health Research Centre, CSIRO

14:30   *Using AI to improve PET quantification*
         Pierrick Bourgeat, Australian e-Health Research Centre, CSIRO

14:45   *AI for automated clinical coding*
         Hoa Ngo, Australian e-Health Research Centre, CSIRO

15:00   *Bayesian spatiotemporal forecasting and mapping of antimicrobial resistant infection in northern Australia*
         Aminath Shausan, Australian e-Health Research Centre, CSIRO

15:15   **Wine & cheese, poster displays and demonstrations**

16:30   **Close and a celebratory drink**