Digital Health Week 2025

4 — 6 February

Weaving the digital fabric of health

Tuesday 4th February – Day 1
Hosted by The University of Sydney

10:00 – 10:30 AEDT	**MORNING TEA AND DAY 1 REGISTRATION** *(Sydney University Campus Attendees Only)*
10:30am – 11:00am AEDT **In-person at the University of Sydney*** *Livestream available for session for online attendees.*	**Welcome to Digital Health Week 2025** **Session Chair:** Anna Janssen **Acknowledgment of Country:** Reakeeta Smallwood **Welcoming Addresses to Digital Health Week:** - Professor Carolyn Day (University of Sydney) - Dr Petra Avramovic and Dr Anna Janssen (DHW25 Co-Chairs) **In-person Livestreaming Venue:** Julie Wu Lecture Theatre 321, Susan Wakil Health Building, Western Ave, Central Sydney (Patyegarang) Precinct, The University of Sydney, Camperdown, NSW, 2050

11:00am – 12:00pm AEDT **Online*** ***Livestream available at Sydney University Camperdown Campus)*	**Abstract presentation sessions**	
	Stream 1.1: Equitable and Accessible Digital Health: Co-Design, Telehealth, and Community-Based Innovation **Stream chair:** Ali Gholamrezaei **In-person Livestreaming Venue:** Seminar Room 401/204, Susan Wakil Health Building, Western	**Stream 1.2: Digital Health for Better Care: Designing, Developing, and Evaluating Digital Health Interventions** **Stream chair:** Michael Liem **In-person Livestreaming Venue:** Lecture Theatre 207, Susan Wakil Health Building,

	Ave, Central Sydney (Patyegarang) Precinct, The University of Sydney, Camperdown, NSW, 2050	Western Ave, Central Sydney (Patyegarang) Precinct, The University of Sydney, Camperdown, NSW, 2050
11:00am	**Jing Hern Kevin Poh** Upskilling Consumers for the Digital Health Era: A Content Analysis of Resources for Consumer Representative Training.	**Getiye Kibret** Establishing a Digital Health Foundation: Leveraging Data to Enhance Diagnostic Excellence, Safety, and Value
11:10am	**Lily Davidson** Designing and optimising a parent-based digital intervention to improve the health of socio-economically disadvantaged adolescents in Australia.	**Carine Chan** Effectiveness of online pain management programs on improving pain self-efficacy and kinesiophobia: a systematic review and meta-analysis
11:20am	**Hye Jin Kim** Applying Telehealth to Community-Based Rehabilitation in South Korea beyond COVID-19 pandemic: A Framework, Pilot Trial, and Key Considerations.	**Jack Wilson** Ecological momentary assessments to measure substance use and associated behaviours: A systematic review.
11:30am	**Ashlea Hambleton** A real-world feasibility trial embedding telehealth-delivered treatment solutions for adolescent Anorexia Nervosa in rural health services	**Lauren Gardner** A cluster randomised controlled trial of a school-based digital health intervention to prevent e-cigarette use: The OurFutures Vaping Program
11:40am	**Jane Miskovic-Wheatley** livED: A Co-designing a digital platform for varied format data collection from people with lived experiences of eating disorders	**Heilok Cheng** Evaluating a multi-behavioural home-based intervention for reducing depressive symptoms in postnatal women: the Food, Move, Sleep (FOMOS) for postnatal mental health randomised controlled trial protocol
11:50am		**Ana Paula Carvalho-e-Silva** Design and Developing the Whiplash Navigator as a Digital Resource for Insurance Personnel
12:00pm – 12:59pm AEDT	**BREAK**	
	Lunch *(Sydney University Campus Attendees)* *Please join us for a light lunch at The University of Sydney Patyegarang Precinct.* **Venue:** Level 4 Foyer, Susan Wakil Health Building, Western Ave, Central Sydney (Patyegarang) Precinct, The University of Sydney, Camperdown, NSW, 2050	
1:00pm – 1:59pm AEDT **Online*** ******Livestream available at Sydney University Camperdown Campus*	**ePoster showcase sessions**	
	Stream 1.1: Design, Development, and Testing of Digital Health Interventions **Stream chair:** Petra Avramovic **In-person Livestreaming Venue:** Seminar Room 401/204, Susan Wakil Health Building, Western Ave, Central Sydney (Patyegarang) Precinct, The University of Sydney, Camperdown, NSW, 2050	**Stream 1.2: Solution Implementation and Digital Transformation** **Stream chair:** Achini Adikari **In-person Livestreaming Venue:** Lecture Theatre 207, Susan Wakil Health Building, Western Ave, Central Sydney (Patyegarang) Precinct, The University of Sydney, Camperdown, NSW, 2050

- **1:05 pm |** Nelson Hernandez: 'Development of a web-based intervention for carers of people with aphasia'
- **1:09 pm |** Carina Choy: 'Co-design of a Conversational Artificial Intelligence Program to Support Self-management in Heart Failure Patients'
- **1:13 pm |** Dara Sampson: 'DAP+: Supporting the psychological well-being of people with diabetes'
- **1:17 pm |** James Rule: 'Systematic review of Retinal Photography Screening for Diabetic Retinopathy in First Nations Communities'
- **1:21 pm |** Lauren Church: 'Traditional and digital oral health education within cardiac rehabilitation clinics: A protocol to improve oral and cardiovascular health'

- **1:05 pm |** Elise Evans: 'Factors impacting the implementation of a patient portal in a dental hospital: The implementers' perspective'
- **1:09 pm |** Sagda Osman: 'The emerging and potential unintended consequences of telehealth in rural Australia: A qualitative analysis of stakeholders' views'
- **1:13 pm |** Min Jiat Teng: 'Physiotherapy-led virtual fracture clinics: Patient and clinician views on different models of care for simple fractures'
- **1:17 pm |** Tanisha Ahuja: 'Addressing health equity: insights from data analysis and collaboration'
- **1:21 pm |** Timothy (Sin Hung) Yu:'Adoption and utility of AI digital scribes in clinical practice – a scoping review'

2:00pm – 2:59pm AEDT **In-person at the University of Sydney*** **Livestream available for session for online attendees.*	**Keynote session**
	Digital Health and underserved cohorts **Keynote Speaker:** Adjunct Associate Professor Richard Taggart **Panel:** Richard Taggart, Corinne Caillaud, Julie Ayre, Matt Roger, Talat Uppal **Format:** Keynote presentation followed by panel discussion **Session chair:** Tim Shaw **In-person Livestreaming Venue:** Julie Wu Lecture Theatre 321, Susan Wakil Health Building, Western Ave, Central Sydney (Patyegarang) Precinct, The University of Sydney, Camperdown, NSW, 2050
3:00pm – 4:00pm AEDT **In-person at the University of Sydney**	**Networking event**
	Venue: Level 4 Foyer, Susan Wakil Health Building, Western Ave, Central Sydney (Patyegarang) Precinct, The University of Sydney, Camperdown, NSW, 2050

Wednesday 5ᵗʰ February – Day 2
Hosted by Macquarie University and Hunter Medical Research Institute

11:00am – 12:00pm AEDT **Online**	**Abstract presentation sessions**		
	Stream 2.1: Immersive Intelligence: Harnessing AI and VR for Improved Health and Wellbeing **Stream chair:** Tushar Prasad	**Stream 2.2: Mobilising Health: Leveraging mHealth for Person-Centered, Contextualised Care** **Stream chair:** Louise Thornton	**Stream 2.3: From Simulation to Real-World Impact: Implementing Digital Inno vations for Transformative Healthcare**

11:00am	**Yang Wang** Applying large language models to AI safety: identifying and monitoring patient safety events associated with AI-enabled medical devices	**Duy Trinh-Hoang** Examining the challenges of capitalising on mHealth's potential to deliver locally-aligned person-centred MDR-TB care in Vietnam: A qualitative study	**David Lyell** Using simulated clinical decision-making to evaluate the benefits of AI tools.
11:10am	**Kirishnni Prabagar** Enhancing Mental Health Support with AI-Driven Emotion-Embedded Knowledge Graphs	**Adina Abdullah** Development of a mobile healthcare application with a high-resolution air quality forecast as an early warning system among patients with asthma.	**Jane Rich** Patient and Staff perspectives: the eCliPSE implementation trial across NSW.
11:20am	**Jodie Mills** Speech and Language Therapists, perspectives of Virtual Reality as a clinical tool for autism: a cross-sectional survey.	**Edwina Lamborn** The HealthTalk Connect App: A co-designed communication support tool for people with communication disabilities	**Sandra Warburton** Feasibility testing of a 360o Virtual Reality simulation experience to improve the personal safety of clinicians working in the community.
11:30am	**Rita Hitching** Treatment may be virtual, but the impact is real. Targeting insomnia with VR mindfulness.	**Rebecca Chen** Co-Designing and Evaluating an mHealth Intervention for Early Childhood Caries: A Multidisciplinary Approach Using Behavioural Theory	**Ann Appuhamy** From Concept to Practice: A Scoping Review of the Application of Digital Health Literacy Interventions for Enhancing Healthcare Access and Outcomes Among Higher Education Students.
11:40am	**David Bui** Virtual Reality Surgical Skills Simulation in Trauma and Orthopaedic Surgery: State-wide pilot program.	**Sarah Brown** Effectiveness of a pulmonary rehabilitation (m-PRTM) program using mobile health (mHealth) technologies in people with chronic lung disease.	**Judith Thomas** Understanding long COVID in general practice- collaboration is the key to enabling data insights.
11:50am	**Ponsuge Chathurani Sigera** Implementation of a virtual hospital model of care for low back pain (Back@Home).		**Rik Dawson** Telephysiotherapy intervention increased mobility and reduced falls in aged care: the effects and costs from the TOP UP Study
12:00pm – 12:59pm	**BREAK**		
	Virtual Lunchtime Networking (hosted by HMRI)		
	Join other Digital Health Week attendees and experts and industry representatives with expertise in areas like digital health interventions for young people, new approaches like VR, implementation and human computer interaction! **Gathertown Access:** https://app.gather.town/app/W5XSFkUan95VIgXe/DHW25%20networking		

1:00pm – 1:59pm AEDT **Online**	**ePoster showcase sessions**

Stream 2.1: Social Media and Web-based Interventions Stream chair: Petra Avramovic	Stream 2.2: Technology and the Health Workforce Stream chair: Urooj Raza Khan
• **1:05 pm |** Robert Garruccio: 'Mastering Facebook ads: an effective, cost-efficient method to recruit study participants' • **1:09 pm |** Clare Corliss: 'Will teenagers pick up the phone? Evaluation of a new model for providing brief interventions and support to adolescents' • **1:17 pm |** Tessa Copp: 'Qualitative evaluation of an online decision support tool for couples with unexplained infertility' • **1:21 pm |** Jodie Mills: 'Alexa, can you help me to speak more clearly?' • **1:25 pm |** Poorna Fernando: Empowering Health Administrators with Data-Driven Insights: Free and open-source Decision Dashboard	• **1:05 pm |** Trond Roed Petterson: 'ssessing the use of activity trackers in clinical practice: A survey of cardiac rehabilitation clinicians from Australia, Brazil, and Canada' • **1:09 pm |** Muhammad Amir: 'Economic evaluation of clinical pharmacy service using integrated health system in tertiary care hospital' • **1:13 pm |** Shakir Karim: 'An Analysis of Patient-sharing Provider Network in New South Wales (NSW), Australian Healthcare Industry Using Administrative Claim Data' • **1:17 pm |** Asara Senaratne: Anomaly Detection for Prolongation of Health' • **1:21 pm |** Eleanor Clapham: 'Home blood pressure measurements are not performed according to guidelines and standardized education is urgently needed'

2:00pm – 2:59pm AEDT **Online**	**Plenary session**
	Leveraging GenAI safely and responsibly in healthcare **Keynote Speaker:** Professor Farah Magrabi **Panel:** Farah Magrabi, Yves Saint James Aquino, David Navarro, Hamed Akhlaghi **Format:** Keynote presentation followed by panel discussion **Session chair:** Sam Freeman

3:00pm – 6:00pm **In-person at Western Sydney (Baludarri) Precinct*** **Livestream available for session for online attendees.*	**Networking afternoon tea (Westmead Applied Research Centre)**
	Session Opening: Professor Clara Chow **Presenter Showcase** - A/Prof Liliana Laranjo: My Intelligent Cardiac Assistant - Ms Aileen Zeng: Conversational HeAlth supporT for Atrial Fibrillation Self-management - Ms Zoe Rock: Partnering RemoTe monitoring of Implanted Cardiac devices with Intelligent PATient Engagement - Dr Myron Godinho: CARDIOvascular support for patients after discharge - Dr Melissa Brunner: What the tech? Using digital health to support participation, inclusion, and wellbeing - Dr Sophie Brassel: Using immersive virtual reality in rehabilitation for cognitive-communication disorders following traumatic brain injury **Panel Discussion:** 'The Future of Digital Health'

- Panel: Prof Clara Chow, Prof Leanne Togher and Prof Tim Shaw
- Chair: A/Prof Liliana Laranjo

Networking *(in-person attendees)*

Venue: Level 6 Block K, Western Sydney (Baludarri) Precinct, Westmead Hospital, 176 Hawkesbury Road, Westmead, NSW, 2145

Thursday 6ᵗʰ February – Day 3
Hosted by La Trobe University

10:30am – 11:30am (AEDT) Online	Oral presentation session		
	Stream 3.1: Guiding Better Decisions: User Centered Technology to Empower Digital Health Consumers **Stream chair:** Steph Kershaw	**Stream 3.2: Empowering the Healthcare Workforce: AI Tools for Safer, Smarter, and More Efficient Care** **Stream chair:** Anna Janssen	**Stream 3.3: Leveraging NLP, LLMs, and Social Media Data for Better Health Outcomes** **Stream chair:** Tessa Copp
10:30am	**Christopher Preston** Designing and implementing a digital diabetes assessment tool and dashboard for use in specialist outpatient clinics using a codesign approach	**Lars Weber** Integrating AI Video Analytics to Enhance Patient Care and Staff Safety in Hospitals	**Jacques Raubenheimer** Trends are about more than timelines: Using Natural Language Processing to examine change over time in the most common Google searches related to semaglutide
10:40am	**Eleanor Clapham** Appropriateness of online resources for home blood pressure measurement: alignment with guideline recommendations, readability, and end-user involvement.	**John Pierce** Communication Connect: AI-Enhanced Self-Management for Communication Disability from Stroke and Traumatic Brain Injury	**Alice Graham** The Impact of Healthcare Information About Endometriosis on Social Media on Women's Medical Decision Making
10:50am	**Daniel Rogers** Facilitating practice change using a 360-degree co-designed digital approach with GPs to access timely, evidence-based	**Tihana Divnic-Resnik** AI and Digital Dentistry: Engaging Students for Future-Ready Dental Practice	**Claire Hudson** Randomised Trail to Test the Effects of a Short Video Intervention on Digital Health Literacy Skills.
11:00am	**Jessica Nikolovski** A 'SWIFT' approach: Clinician insights on the use of electronic patient-reported outcome measures in nephrology	**Sam Freeman** Safe and responsible AI in health services	**Brooke Nickel** Social media posts on Instagram and TikTok about medical tests with potential for overdiagnosis
11:10am	**Jenna Smith** Informing older women about the rationale for cessation of breast cancer screening invitations: A randomised trial of women aged 70-74 years in Australia	**Putu Irma Wulandari** AI malignancy scores and its correlation with case difficulty in mammograms with confirmed cancer cases	**Brooke Nickel** Concordance between ChatGPT and the United States Preventive Service Task Force (USPSTF) recommendations on
11:20 am	**Jolyn Hersch** Developing an online dynamic consent platform to support	**Hayley Thomson** Using an AI scribe in private practice enhances patient-clinician	**Julie Ayre**

	personalised, accessible and informed consent for genomic testing in oncology	interactions and reduces administrative burden	Prevalence of ChatGPT use in a nationally representative Australian community sample
11:30am – 11:40am (AEDT)	**BREAK**		

11:40am – 12:30pm (AEDT) **Online**	**ePoster showcase sessions**	
	Stream 3.1: Artificial Intelligence, Virtual Reality, and Digital Disruption **Stream chair:** Petra Avramovic	**Stream 3.2: Technology and the Health Workforce** **Stream chair:** Yangama Jokwiro
	11:45 am | Amir Fahimipour: 'The use of artificial intelligence (AI) and machine learning (ML) is transforming the prediction of mandibular bone growth' **11:49 am |** Mostafa Shahin: 'AI-Driven Speech Therapy Tool for Assisting Clinicians in Diagnosis and Therapy' **11:53 am |** Helen Badge: 'The feasibility of an automated artificial intelligence system to use voice and speech in detecting large vessel occlusion stroke' **11:57 am |** Nuwan Pallewela: 'Profiling Speech Abilities of People with Communication Disabilities Using AI' **12:01 pm |** Carter Sun: 'A Systematic Review and Meta-analysis of AI-assisted Methods to Improve the Diagnosis of Autism' **12:05 |** Imke Tammen: 'Comparative digital health: AI integrating information about inherited diseases in non-laboratory animals into the Mondo Disease Ontology.'	**11:45 am |** Aileen Zeng: 'Equity lens on implementation of digital patient decision support tools for atrial fibrillation (AF) treatment: A systematic review' **11:49 am |** Siyu Wang: 'Evaluating Health Equity in Australian Telehealth Policies: A Desktop Review' **11:53 am |** Jenna Bartyn: 'eHealth Literacy and Technology Proficiency of RPA Virtual Hospital (rpavirtual) patients' **11:57 am |** Jordon Mathers-Jones: 'Strong & Deadly Futures: Online alcohol and drug prevention for youth, co-designed with Aboriginal and Torres Strait Islander communities' **12:01 pm |** Lauren Church: 'Traditional and digital oral health education within cardiac rehabilitation clinics: A protocol to improve oral and cardiovascular health' **12:05pm |** Josielli Comachio: 'How can fraudulent responses be identified and counteracted in online recruitment for health research? Insights from a scoping review'

12:30pm – 11:30pm (AEDT)	**BREAK**
	Lunch *(La Trobe University Campus Attendees)*
	Please join us for a light lunch at the La Trobe Digital Innovation Hub. **Venue:** La Trobe Digital Innovation Hub

1:30pm – 2:59pm	**Plenary session**

In-person at La Trobe University* **Livestream available for session for online attendees*	*Story of a Victorian virtual emergency department* **Keynote Speaker:** Dr Loren Sher **Panel 'Digital Health education and career pathways':** James Boyd, Loren Sher, John Mellor, Samantha Tudor **Format:** Keynote presentation followed by panel discussion **Session chair:** Urooj Raza Khan **In-person Livestreaming Venue:** La Trobe Digital Innovation Hub
	Closing remarks and Award of best ePosters and Presentation Prizes **Session Chair:** Petra Avramovic and Anna Janssen
3pm – 4pm **In-person at La Trobe University**	**Networking event**
	Venue: La Trobe Digital Innovation Hub

Stay tuned for Digital Health Week 2026!

Accessibility note: For the three plenary sessions closed captioning will be provided on Zoom. Please contact digital.health-week@sydney.edu.au if you need additional accessibility support.