

Digital Health in Australia

Opportunities and Challenges

Advancing Trauma Management Through Data

Date: Monday 18th March 1pm-5.30pm
Venue: P419, Gardens Point Campus, QUT

OVERVIEW OF SEMINAR: The breadth and depth of available electronic data in the digital health era as well as the technological advancements in data integration/interoperability have opened up new opportunities to significantly increase the sources of rich clinical data informing healthcare management and research. However, there are considerable complexities when applying digital health solutions to specific clinical contexts which still need to be addressed. The Queensland trauma system is a case in point, requiring a modern, integrated, coordinated and highly automated information solution to meet the strategic and operational needs of contemporary emergency health service providers and trauma clinicians. The aim of this seminar is to present international, national and state perspectives on digital health developments, describe the unique data/information needs within the trauma context, outline the key digital health challenges which need to be addressed, and discuss a range of informatics/technological solutions.

AGENDA

Topic	Proposed Presenter	Time
Welcome and overview	Michael Schuetz	1-1.10
SETTING THE SCENE		
Queensland's digital health roadmap	Keith McNeil	1.10-1.25
Australia's digital health developments	David Bunker	1.25-1.40
European perspectives on digital health	Erwin Boettinger	1.40-1.55
Digital Health CRC Roadmap	Tim Shaw	1.55-2.05
Queensland Digital Academy	Clair Sullivan	2.05-2.15
Digital hospitals and trauma data collection	Andrew Staib	2.15-2.25
Discussion		2.25-2.45
<i>Afternoon tea</i>		2.45-3.15
CHALLENGES AND OPPORTUNITIES		
The Qld Trauma Data Warehouse: Progress and challenges	Kirsten Vallmuur/Alison Kelly	3.15-3.30
Trauma data and interoperability challenges and opportunities	David Hansen	3.30-3.45
Privacy-preserving analytics in trauma	Moe Wynn/Arthur Hofstede	3.45-4.00
Outcome measurement tools	Erwin Boettinger	4.00-4.15
61 medical project: Innovation pathway for Medical Devices	Michael Schuetz	4.15-4.30
PANEL DISCUSSION		
Panel members: Erwin Boettinger, Keith McNeil, Michael Schuetz, David Bunker, Clair Sullivan, Andrew Staib, Tim Shaw		4.30-5.15

Speaker Biographies

PROF MICHAEL SCHEUTZ	Prof Schuetz is the Director of the Jamieson Trauma Institute and is a practicing orthopaedic surgeon and research leader in the field of trauma care and orthopaedic trauma research. Professor Schuetz's research interests lies in the fields of orthopaedic trauma surgery, trauma system management, traumatology, fracture healing and implant development. He has published more than 200 peer-reviewed publications.
PROF KEITH McNEIL	Prof McNeil is Chief Clinical Information Officer for Queensland Health, with responsibility for the digital transformation of Queensland's hospitals including the implementation and optimisation of the iEMR. This parallels his recent role as CCIO for the NHS where he was responsible for system wide digital transformation
DR DAVID BUNKER	Dr Bunker has been at the forefront of health system digitisation for over a decade. He is currently leading Queensland Health's genomics program, a collaboration between the department, the hospital and health services and university and research institutes. Prior to this David was a senior executive in the national eHealth program with responsibility for Strategy & Architecture, Clinical Informatics, Cybersecurity, Standards and the program's innovation platform.
PROF ERWIN BOETTINGER	Professor Erwin Bottinger is Director of the Digital Health Centre at the Hasso-Plattner-Institute, and Professor and Chair for Digital Health and Personalised Medicine at the joint Digital Engineering Faculty of Hasso-Plattner-Institute and University Potsdam, Germany. Between 2015 and 2017, he served as CEO of the Berlin Institute of Health (BIH), where he crafted its visionary new strategy 'Personalised Medicine - Advanced Therapies'. In his prior role as founding director of The Charles Bronfman Institute for Personalised Medicine, Prof. Böttinger pioneered groundbreaking implementations of personalised medicine and digital health in clinical practice.
PROF TIM SHAW	Prof Shaw is the Director of Research and Workforce Capacity at Digital Health CRC. He is the inaugural Prof of eHealth and Director of Research in Implementation Science and eHealth Group (RISe) at the University of Sydney. His research focus is on the impact of technology on healthcare and translation of evidence into practice. Over the last 5 years he has been CI on over 20 grants/consultancies totaling over \$12M.
ASSOC PROF CLAIR SULLIVAN	A/Prof Sullivan is the Chief Digital Health Officer at Metro North Hospital and Health Service. Clair is an Endocrinologist and a Medical Informatician. Her research interests include clinical informatics and digital health at the University of Queensland. A/Prof Sullivan has significant expertise in clinical informatics and quality improvement and she sits on several national advisory boards for clinical informatics and digital health.
DR ANDREW STAIB	Andrew Staib is an Emergency Physician and Medical Informatician. His clinical appointment is as the Deputy Director of the Emergency Department at the Princess Alexandra Hospital. He is Medical Lead for Digital Health Improvement in Queensland and Co-Director Healthcare Innovation and Transformation Excellence Collaboration (HITEC). He is also Co-Chair of the Statewide Network for Digital Healthcare Improvement and Co-chair of the Queensland Emergency Department Strategic Advisory Panel.
ASSOC PROF KIRSTEN VALLMUUR	A/Prof Vallmuur is a MAIC Principal Research Fellow in the Jamieson Trauma Institute under a joint appointment with QUT. She has expertise in injury surveillance systems, trauma data linkage, and injury classifications and is working with Qld Health to facilitate the establishment of the Statewide Trauma Data Warehouse and is conducting research using linked trauma data to examine the burden, treatment, costs and outcomes of trauma in Queensland.
ALISON KELLY	Alison Kelly is the Project Manager for the Clinical Intelligence System project within the Office of the Chief Clinical Information Officer, Clinical Excellence Division, Queensland Department of Health.
DR DAVID HANSEN	David Hansen is CEO of the Australian e-Health Research Centre, CSIRO's Digital Health Research program and a joint venture with Queensland Health. David leads a research program of over 90 scientists and engineers tackling the challenges of the healthcare system across Data, Diagnosis and Services. David is also the Chair of the Health Informatics Society of Australia (HISA).
ASSOC PROF MOE WYNN	Assoc Prof Wynn is the Discipline Leader of the Business Process Management Discipline, in the School of Information Systems. Dr Wynn holds a PhD in the area of workflow management from Queensland University of Technology (2007). She made significant research contributions in the areas of formal execution semantics of process models, process verification and process mining over the past ten years. Her current research focuses on data quality, process mining and robotic process automation.
PROF ARTHUR HOFSTEDE	Arthur ter Hofstede is a professor in the Science and Engineering Faculty and Head of the Information Systems School. From 2010-2018 he also was a Professor at Eindhoven University of Technology in the Netherlands. His research area is conceptual, formal, and technological foundations of Business Process Automation as well as Process Mining, specifically data quality, comparative performance analysis, process risk analysis, and visualisation.