

Advanced Diagnostics and Physiological Monitoring in Critical Care Symposium 2021

6-7 August 2021 • Brisbane Convention & Exhibition Centre

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FRIDAY

6th August 2021

8:00 AM to 10:30 AM	Symposium Opening Plenary Session Session Chairs: Loki Johnk, Sadie Callahan 8.00am - Welcome and Housekeeping Associate Professor Nai An Lai, Symposium Convenor 2021 8.15am - Plenary: COVID-19: Challenges and Triumphs in Resource Limited Settings Professor Bala Venkatesh, University of Queensland and the George Institute for Global Health 9.00am - Plenary: Septic Acute Kidney Injury – Pathophysiology and Diagnostics 2021 Professor Rinaldo Bellomo, The University of Melbourne 9.45am - Plenary: Detecting SARS-CoV-2: Rapid Evolution of Diagnostic Techniques in a Respiratory Pandemic Dr Ian Gassiep, Mater Health
10:30 AM to 11:00 AM	Morning Tea
11:00 AM to 12:30 PM	Thematic Session 1: Respiratory Diagnostics and Monitoring in the 21st Century Session Chairs: Anne Leditschke, Sarah Chaseling 11.00am - The Mechanical Ventilator as a Diagnostic and Monitoring Tool Associate Professor Nai An Lai, Mater Health 11.30am - Lung/Thoracic Ultrasound as a Diagnostic and Monitoring Tool in Critical Care Dr Kylie Baker, Ipswich General Hospital 12.00pm - Inspiratory Muscle Assessment and Training in Critical Care Dr Bernie Bissett, University of Canberra
12:30 PM to 1:30 PM	Lunch

<p>1:30 PM to 3:00 PM</p>	<p>Thematic Session 2: Micronutrients, Molecular Diagnostics and Therapeutic Drug Monitoring</p> <p>Session Chairs: Tara Morrison, Andras Nyikovics, Daijana Martens</p> <p>1.30pm - The VITAMINS Trial and the Future of Vitamin C in Intensive Care Professor Rinaldo Bellomo, The University of Melbourne</p> <p>2.00pm - The Next Generation of Molecular Diagnostics: Whole Genome Sequencing, Amplicon Panels and Metagenomics Professor Amy Jennison, Queensland Department of Health</p> <p>2.30pm - Therapeutic Drug Monitoring in Critical Care Dr Mohd Hafiz Abdul Aziz, University of Queensland</p>
<p>3:00 PM to 3:30 PM</p>	<p>Afternoon Tea</p>
<p>3:30 PM to 5:00 PM</p>	<p>Thematic Session 3: Diagnosing and Monitoring Deterioration in the Hospital</p> <p>Session Chairs: Mandy Ng, Nai An Lai</p> <p>3.30pm - Using Big Data to optimise MET Activation and Utilisation Dr Victoria Campbell, CEQ/PSQIS</p> <p>4.00pm - ICU Perioperative Morbidity and Mortality - Past, Present and Future Dr Adrian Langley, Mater Health</p> <p>4.30pm - Machine Learning and Artificial Intelligence in Critical Care Professor Brent Richards, Griffith University and Gold Coast University Hospital</p>

SATURDAY

7th August 2021

<p>8:00 AM to 10:30 AM</p>	<p>Symposium Opening Day Two Session Chairs: Loki Jonk, Sadie Callahan</p> <p>8.00am - Welcome Day 2 & Housekeeping Associate Professor Nai An Lai, Symposium Convenor 2021</p> <p>8.15am - Plenary: Vascular Devices Associated Infections Professor Claire Rickard, University of Queensland and Griffith University</p> <p>9.00am - Plenary: Pulmonary Electrical Impedance Tomography and Perfusion Monitoring Professor John Fraser, Director of the Critical Care Research Group, The Prince Charles Hospital</p> <p>9.45am - Plenary: Diagnosis and Measurement of Frailty and its Relevance in Critical Care and Perioperative Medicine Professor Ruth Hubbard, The University of Queensland</p>
<p>10:30 AM to 11:00 AM</p>	<p>Morning Tea</p>
<p>11:00 AM to 12:30 PM</p>	<p>Thematic Session 4: Haemodynamic and Cardiovascular Monitoring Session Chairs: Amod Karnik, Kim Briskey</p> <p>11.00am - Diagnosing and Monitoring Right Heart Dysfunction Associate Professor David Sturgess, Surgical, Treatment and Rehabilitation Service (STARS) and University of Queensland</p> <p>11.30am - Haemodynamic Monitoring and Goal Directed Therapy in the Operating Theatre Associate Professor Laurence Weinberg, Austin Health and University of Melbourne</p> <p>12.00pm - Predicting pressure responsiveness to fluids and vasopressor requirement – is dynamic arterial elastance (Eadyn) the answer? Associate Professor Nai An Lai, Mater Health</p>
<p>12:30 PM to 1:30 PM</p>	<p>Lunch</p>
<p>1:30 PM to 3:00 PM</p>	<p>Thematic Session 5: Monitoring Oxygenation, Metabolic and Renal Function Session Chairs: Ra'eesa Doola, Peter Scott</p> <p>1.30pm - Monitoring Oxygenation Through the Ages Professor Bala Venkatesh, University of Queensland and the George Institute for Global Health</p> <p>2.00pm - An Update on Critical Care Nephrology Dr Richard Baer, Mater Health</p> <p>2.30pm - Metabolic Monitoring in Critical Care – Clinical Applications of Indirect Calorimetry Professor Andrea Marshall, Griffith University</p>
<p>3:00 PM to 3:30 PM</p>	<p>Afternoon Tea</p>

<p>3:30 PM to 5:00 PM</p>	<p>Thematic Session 6: Brain, Muscle and Physiological Reserve</p> <p>Session Chairs: Felicity Prebble and Adrian Langley</p> <p>3.30pm - Delirium in Critical Care Associate Professor Anne Leditschke, Mater Health and University of Queensland</p> <p>4.00pm - EEG as a Diagnostic and Monitoring Tool in Critical Care Associate Professor Sasha Dionisio, Princess Alexandra Hospital and University of Queensland</p> <p>4.30pm - Pre-operative Risk Stratification and Prehabilitation Professor Bernhard Riedel, Peter MacCallum Cancer Centre and University of Melbourne</p>
<p>5:00 PM to 5:15 PM</p>	<p>Closing Address - Associate Professor Nai An Lai</p>

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