



# SCCI 2019

Short Course in Critical Infection

5-6 September, Mater Hospital, South Brisbane



THE UNIVERSITY OF  
SYDNEY



# Message from the program committee

Welcome to the annual Short Course in Critical Infection (SCCI) 2019.

The program committee would like to acknowledge the Traditional Custodians of the land on which we stand and work and we pay our respect to the Aboriginal and Torres Strait Islander elders past, present and emerging.

Since its inception in 2012 by Professor Jon Iredell, the SCCI has provided a unique platform for learning, collaboration and exchange of ideas among infectious diseases clinicians, microbiologists, intensive care practitioners, emergency medicine clinicians and pharmacists in the area of critical infections.

We are excited that this is the first time the course is being held outside of Sydney. As with all previous SCCIs, we are privileged to have eminent clinicians and leading researchers to be our faculty this year. You may notice a definite Queensland flavour in this year's program and we would like to take this opportunity to thank all the speakers for their time and efforts over the next two days. We would also like to acknowledge those of you who travelled from afar to support this course.

It is our sincere hope that you find the course exciting, meaningful and relevant to your clinical practice. Your opinion will help us to improve the course and we would love to have your feedback after the course.

Program Committee:

Prof. Jon Iredell, A/Prof. Nai An Lai, A/Prof. Paul Griffin, Dr Pierre Janin

## Feedback

When you've completed the course please fill in the survey it takes less than 2 minutes, thank you.

Scan the QR code or

[www.surveymonkey.com/r/FXV29TV](http://www.surveymonkey.com/r/FXV29TV)



## Program Thursday 5<sup>th</sup> September 2019

<b>0745-0815</b>	<b>Registration</b>	
<b>0815-0830</b>	Welcome Address	Prof Jon Iredell A/Prof Nai An Lai
<b>Antimicrobial Resistance</b>		
<b>Chair: Prof Jon Iredell</b>		
<b>0830-0900</b>	Update on gram positive infection and MIC testing	Dr Andrew Henderson
<b>0900-0930</b>	Update on multi-resistant gram negative infection	A/Prof Paul Griffin
<b>0930-1000</b>	Global epidemiology of sepsis	Prof Bala Venkatesh
<b>1000-1030</b>	Septic shock reversal: Predictors, mechanisms and clinical significance	Prof Bala Venkatesh
<b>1030-1100</b>	Morning tea	
<b>Diagnostics</b>		
<b>Chair: A/Prof Nai An Lai</b>		
<b>1130-1200</b>	New microbial diagnostics – clinical metagenomics	Dr Sanmarie Schlebusch
<b>1200-1230</b>	Machine learning and AI decision support in sepsis	A/Prof Brent Richards
<b>1230-1300</b>	Rapid diagnostic tools in respiratory infection	A/Prof Benjamin Tang
<b>1300-1345</b>	Lunch	
<b>Immunocompromised Host, Infection Control and Immunotherapy</b>		
<b>Chair: Dr Pierre Janin</b>		
<b>1345-1415</b>	Invasive Fungal Infections	Prof Geoffrey Playford
<b>1415-1445</b>	Cellular therapy for opportunistic viral and fungal pathogens – State of the art	Dr Emily Blyth
<b>1445-1515</b>	What's in a cough: Implications for the care of patients with Influenza and MROs	Prof Scott Bell
<b>1515-1545</b>	Biologics and Infections: An Update	A/Prof Paul Griffin
<b>1545-1615</b>	Canapes and drinks	
<b>1615-1715</b>	Round table discussion - Chair: Dr Amod Karnik Topics: 1. Code Sepsis: Recognizing and Responding to Patients with Sepsis in the Hospital Wards – paradigm shift or shifting sand? 2. Time to antibiotics as a KPI in sepsis care and increasing use of broad spectrum antibiotic as empirical therapy – how do we find the balance?	Panel members: Dr Shane Townsend Prof Bala Venkatesh A/Prof Paul Griffin Prof Jon Iredell A/Prof Nai An Lai

## Program Friday 6<sup>th</sup> September 2019

### Therapeutics

Chair: Dr Shane Townsend

0800-0830	TDM for Beta Lactams – State of the art	Prof Jason Roberts
0830-0900	Dosing of antimicrobials in critically ill patients	Prof Jeff Lipman
0900-0930	Vancomycin dosing and therapeutic drug monitoring: Practical tips and conundrum	Dr Mandy Ng
0930-1000	Phage Therapy	Prof Jon Iredell
1000-1030	Morning tea	

### Interesting Bugs, Diseases and Syndromes

Chair: A/Prof Paul Griffin

1030-1100	Q fever and other significant zoonoses	A/Prof David Looke
1100-1130	Sepsis associated AKI	Prof Bala Venkatesh
1130-1200	Malaria – the essentials	Prof James McCarthy
1200-1230	Mycobacterial infections in the ICU	Dr Chris Coulter
1230-1315	Lunch	

### Cases

Chair: Dr Loki Johnk, Dr Ravi Pillai

1315-1335	Overwhelming Salmonella sepsis from intentional ingestion of a live Gecko	Dr Jennifer Gaffney
1335-1355	Diphtheria bacteraemia with endocarditis and intraocular haemorrhage in an IVDU	Dr Matt Ciantar
1355-1415	Ureaplasma Urealyticum infection presenting as Xanthogranulomatous Pyelonephritis and Perinephric Abscess in an Immunocompromised Patient	Dr Alexander Ga-Onn Ngoo
1415-1435	Disseminated BCG infection	Dr Jared Eisemann
1435-1455	Severe Acute Pancreatitis with Infected Necrosis	Dr Gary Foo
1455-1515	Severe Legionnaires' Disease requiring ECMO	Dr Heidi Vogelbusch
1515-1520	Closing Address	Prof Jon Iredell A/Prof Nai An Lai
1520-1545	Refreshments	

Speakers in order of appearance on following pages



**A/Prof Nai An Lai**

Director, Intensive Care Services, Mater Health  
Director of Clinical Governance, Surgical, Neurosurgery,  
Acute Care and Cancer Services, Mater Health  
Associate Professor, Griffith University



**Prof Jon Iredell**

Conjoint Professor of Medicine and Microbiology,  
University of Sydney  
Senior staff specialist, Infectious Diseases and  
Microbiology, Westmead Hospital and NSW Pathology



**Dr Andrew Henderson**

Infectious Disease Physician  
Princess Alexandra and QEII Jubilee Hospitals  
Lecturer and PhD candidate, Centre for Clinical  
Research, University of Queensland



**A/Prof Paul Griffin**

Infectious Diseases Physician and Clinical Microbiologist  
Director of Infectious Diseases, Mater Health Services  
Medical Director and Principal Investigator, Q-Pharm  
Conjoint Associate Professor, School of Medicine,  
University of Queensland





**Prof Bala Venkatesh**

Professor of Intensive Care, University of Queensland  
Director of Intensive Care, Wesley Hospital



**Dr Sanmarie Schlebusch**

Staff Specialist Microbiology/Clinical Microbiologist,  
Forensic & Scientific Services & Pathology Queensland;  
Senior lecturer and researcher, University of  
Queensland



**A/Prof Brent Richards**

Director of Critical Care Research and Medical Director  
of Innovation, Gold Coast Health



**A/Prof Benjamin Tang**

Department of Intensive Care Medicine, Nepean  
Clinical School, Faculty of Health Sciences,  
University of Sydney  
Centre for Immunology and Allergy Research,  
Westmead Institute for Medical Research



**Dr Pierre Janin**

Intensivist, Royal North Shore Hospital



**Prof Geoffrey Playford**

Director of Infection Management Services and  
Infectious Disease Physician  
Princess Alexandra Hospital  
Clinical Microbiologist, Pathology Queensland



**Dr Emily Blyth**

Ludwig Engel Fellow; Medicine, Westmead Clinical  
School; The Westmead Institute for Medical Research;  
Haematologist; Department of Haematology;  
Westmead Hospital - BMT Cell Therapies



**Prof Scott Bell**

Executive Director – Research, Metro North Hospital  
and Health Service; Senior Physician, The Prince Charles  
Hospital; Group Leader, QIMR Berghofer Medical  
Research Institute, Brisbane







**Prof Jason Roberts**

Professor of Medicine and Pharmacy,  
University of Queensland



**Prof Jeff Lipman**

Professor and Head, Anaesthesiology and Critical  
Care, The University of Queensland.  
Research Ambassador, Royal Brisbane and Women's  
Hospital.  
Scientific Consultant, Nimes University Hospital,  
University of Montpellier, Nimes, France.



**Dr Mandy Ng**

Pharmacist, Advanced (Infectious Diseases and  
Antimicrobial Stewardship), The Queen Elizabeth II  
Jubilee Hospital



**A/Prof David Looke**

Infectious Diseases Physician and Clinical Microbiologist  
Associate Professor, The University of Queensland



**Prof James McCarthy**

Senior Consultant Infectious Diseases, Royal Brisbane and Women's Hospital  
Lab Head Professor, Clinical Tropical Medicine, Queensland Institute of Medical Research  
Professor of Medicine, University of Queensland



**Dr Chris Coulter**

Director, Queensland Mycobacterium Reference Laboratory (QMRL) World Health Organization Collaborating Centre for Tuberculosis Bacteriology and Supranational Reference Laboratory, Central Laboratory, Pathology Queensland, Royal Brisbane and Women's Hospital



**Dr Loki Johnk**

Intensivist, Mater Health Services Brisbane



**Dr Ravi Pillai**

Intensivist, Mater Health Services Brisbane



**Dr Jennifer Gaffney**

Consultant Anaesthetist, The Mater and The Prince Charles Hospital



**Dr Matt Ciantar**

ICU PHO, The Queen Elizabeth II Jubilee Hospital



**Dr Jared Eisemann**

Infectious Diseases Physician Mater/Ipswich Hospital,  
Senior Lecturer University of Queensland



**Dr Gary Foo**

Fellow, General Surgery  
Mater Health Services Brisbane



**Dr Heidi Vogelbusch**  
CMO, Mater Springfield  
ICU, Sunnybank Private



**Dr Alexander Ga-Onn Ngoo**  
Senior House Officer at the Queensland Children's  
Hospital

**Notes;**

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**For more information**

**Critical Infection**

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