

Critical Infection Colloquium 18-21 November 2014

Day 1 Real-world critical infection

Tuesday 18th Nov 2014

(SCCI 2014 – day 1 “Clinical day”: case-based sessions)

08:30 Registration*

09:00 Welcome

Session 1.1: All about Ebola

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| 09:10 | Ebola in West Africa: what went wrong and where are we headed? | Dale Fisher (NUH, Singapore) |
| 09:50 | The evolution of plagues and lethal pathogens | Edward Holmes (USyd, Sydney) |
| 10:30 | Infection control and personal protection | David Mitchell and Jo Tallon
(Westmead Hospital, Sydney) |
| 11:00 | Expert panel discussion/ Q & A | |

11:30 Morning tea

Session 1.2: Transplants, immunocompromised infection and infections in childhood

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| 12:00 | Infection in transplant patients | Nicole Gilroy (Westmead Hospital, Sydney) |
| 12:30 | Severe infections in children | David Isaacs (Westmead Hospital, Sydney) |

13:00 Lunch

Session 1.3: Clinical cases and panel discussion

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|-------|------------------------------------|--|
| 13:40 | Pneumonia: a case study in the ICU | Martin Cullen (Westmead Hospital, Sydney) |
| 14:10 | Meningitis scenario | Caitlin Keighley (Westmead Hospital, Sydney) |
| 14:40 | Severe septic shock | Thomas Solano (Westmead Hospital, Sydney) |

15:10 Afternoon tea

Session 1.4: Clinical cases and panel discussion

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|-------|----------------------------------|---|
| 15:30 | Case study: a returned traveller | Jen Kok (Westmead Hospital, Sydney) |
| 16:00 | GAS and necrotising fasciitis | Thomas Solano (Westmead Hospital, Sydney) |

16:30 Closing day 1

*coffee provided

NOTE: catering for this event is provided for registered participants.



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Day 2 Sepsis

Wednesday 19th Nov 2014

(SCCI 2014 – day 2 “Sepsis day”)

08:30 Registration*

09:00 Welcome

Session 2.1: Sepsis and shock

09:10	Goal-directed therapy in septic shock	Anna Holdgate	(Liverpool Hospital, Sydney)
09:50	Biomarkers in early sepsis	Stephen MacDonald	(Armadale Hospital, WA)
10:20	Bacterial load in acute sepsis	Shereen Shoma Mohsin	(WMI, Sydney)

10:40 Morning tea

Session 2.2: Antimicrobial resistance and panel discussion

11:10	The antimicrobial resistance burden	Tom Gottlieb	(Concord Hospital, Sydney)
11:40	Inflammation and septic shock	Simon Brown	(Royal Perth Hospital, WA)
12:10	Survival benefits and policy conflicts in early sepsis	Amith Shetty	(Westmead Hospital, Sydney)

12:40 Hypothetical and panel debate: “The antibiotic police meet the coroner”

Facilitator: Jon Iredell; Panel: Amith Shetty, Martin Cullen, Neil Woodford, Tom Gottlieb

13:10 Lunch

Session 2.3: Genetics and genomics for clinicians

14:00	The global spread of pathogenic clones	Neil Woodford	(Public Health England, UK)
14:40	“Next Gen Seq”- what it is and what it means to us	Grant Hill-Cawthorne	(MBI, Sydney)
15:10	Predicting resistance from the mobile gene pool	Andrew Ginn	(WMI, Sydney)

15:30 Afternoon tea

Session 2.4: “Bacterial lifestyles and infection”

16:00 – 16:45 Cynthia Whitchurch (UTS, Sydney)

*coffee provided

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Day 3 Antibiotic Resistance

Thursday 20th Nov 2014

“Fundamentals of antibiotic resistance: mechanisms; global dissemination patterns; system dynamics”

08:30 Registration*

09:00 Welcome

Session 3.1: Mechanisms and epidemiology

09:10 Mobile genetic elements and antibiotic resistance Sally Partridge (Westmead Hospital, Sydney)

09:40 The genetic epidemiology of antibiotic resistance Neil Woodford (Public Health England, UK)

10:20 Morning tea

Session 3.2: Mechanisms and epidemiology

10:50 The science of antimicrobial resistance testing (ART) John Turnidge (Uni of Adelaide, SA)

11:30 Antimicrobial resistance in the subcontinent Dilip Mathai (AIMSR, India)

12:10 The major enteric pathogens in South East Asia: the future of public health microbiology
Stephen Baker (Oxford Clin Res Unit HCMC, Vietnam)

12:50 Lunch

Session 3.3: Evolution

13:50 Trade-offs and adaptive strategies in multispecies communities
Ivana Gudelj (University of Exeter, UK)

14:30 Mechanisms of diversity in bacterial populations Thomas Ferenci (USyd, Sydney)

15:10 Afternoon tea

Session 3.4: Microbial Husbandry

15:40 Gut decontamination in the ICU Ian Seppelt (Nepean Hospital, Sydney)

16:20 Bacteriophage therapy: fighting fire with fire Anthony Smithyman (Amplphi & SPS, Sydney)

17:00 Closing day 3

*coffee provided

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Day 4 Antibiotic Resistance

Friday 21st Nov 2014

“The microbiome (Ecology and Genomics): clinical outlook and ecosystems”

08:30 Registration*

09:00 Welcome

Session 4.1: Dynamics

09:10 Antibiotic cycling and adaptive responses Robert Beardmore (University of Exeter, UK)

09:50 Understanding the dynamics of marine microbiome Ian Paulsen (MqUni, Sydney)

10:20 Morning tea

Session 4.2: Ecosystems

10:50 The human microbiome - antibiotic impact and its recovery Andrew Holmes (USyd, Sydney)

11:30 Understanding opportunism: *Clostridium difficile* Dena Lyras (Monash University, Vic)

12:10 The phageome and pathogen evolution Nicola Petty (UTS, Sydney)

12:50 Lunch

Session 4.3: Genomics and dynamics

13:50 Resistance genes and carriage Kathryn Holt (Uni of Melbourne, Vic)

14:30 Making connections: bioinformatic challenges and solutions Aaron Darling (UTS, Sydney)

15:10 Closing day 4

*coffee provided

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