

# NEW APPROACHES TO ANTIBIOTIC RESISTANCE AND INFECTION CONTROL IN CRITICAL CARE

Friday 27 April 2007

Westmead Education & Conference Centre,  
Westmead Hospital

9am – 4.15pm

This one-day symposium is designed for all those who deal with bacterial infection in the critically ill.

The first session will provide an overview of sepsis (including nutritional and other aspects of managing sepsis and septic shock), new antibiotics, an ABC of antibiotic resistance and ICU microbiology. This is designed as an update which should appeal to intensivists, advanced trainees facing examinations and microbiology / infectious diseases practitioners dealing with critical care.

The speakers in the following sessions include active researchers who will introduce promising new systems and approaches to the difficult area of sepsis in the critically ill. We will be focusing on rapid diagnostics, antibiotic resistance, and new approaches to old problems.

## Programme

08.30 – 09.00 Registration / coffee

### Session 1: ICU infection from the ground up

09.00 **How bacteria think - understanding antibiotic resistance and antibiotic avoidance**

*Jon Iredell, CIDM*

09.30 **New Antibiotics**

*David Mitchell, CIDM*

10.00 **Feed a fever, starve a cold: nutrition in critical care**

*Michael O'Leary, Intensive Care, St George Hospital, Sydney*

10.30 **The modern approach to sepsis and shock**

*Tom Solano, Intensive Care and Infectious Diseases, Prince of Wales Hospital, Sydney*

11.00 – 11.30 Morning tea

### Session 2: Novel diagnostics in the critically ill

11.30 **Magnetic resonance spectroscopy (MRS) for non-invasive diagnosis**

*Tania Sorrell, CIDM Infectious Diseases*

12.00 **Multiplex tandem polymerase chain reaction (MT-PCR)**

*Keith Stanley, University of New South Wales / Corbett Research*

12.30 **Pathology informatics**

*Vitali Sintchenko, CIDM Public Health*

1.00 **Measuring infection and infection control**

*John Gallagher, Intensive Care, Westmead Hospital*

1.30 – 2.30 Lunch / poster session

### Session 3: Highly resistant infection

2.30 **Managing and monitoring highly resistant infection in ICU**

*Denis Spelman, Alfred Hospital, Melbourne*

3.00 **The genetic epidemiology of *Staph. aureus***

*Lyn Gilbert, CIDM Public Health*

3.30 **A new approach to an old problem: ion channel inhibitors as antibiotics**

*June Treerat, University of Technology, Sydney*

3.50 **Phage therapy**

*Tony Smithyman, CellLabs, Sydney*

4.15 Close

