

# FOUNDATION SEMINAR IN INFECTIOUS DISEASES

## Foundation Seminar in Infectious Diseases

### Preliminary program

Self-paced learning package: *from Friday 10 May 2024*

Topic and presenter	Learning objectives
<p><b>Principles of infectious diseases</b></p> <p><i>Dr Natasha Holmes, Infectious Diseases and Antibiotic Allergy Physician, Austin Health, Melbourne, Vic</i></p>	<ul style="list-style-type: none"> <li>• Describe the Physician's approach to clinical assessment including clinical investigations commonly undertaken</li> <li>• Discuss principles of good antimicrobial prescribing</li> <li>• Discuss the clinical monitoring required for patients on antimicrobial treatment and the clinical approach to antimicrobial failure</li> </ul>
<p><b>Principles of microbiology</b></p> <p><i>Dr Shelanah Fernando, Infectious Diseases Staff Specialist and Microbiologist, Concord Hospital, Sydney, NSW</i></p>	<ul style="list-style-type: none"> <li>• Discuss the role of the microbiology laboratory in the management of infectious diseases, antimicrobial prescribing and infection control</li> <li>• Interpret a typical laboratory report</li> <li>• Discuss important Gram-positive and Gram-negative organisms in hospital</li> </ul>
<p><b>Principles of Antimicrobial Stewardship</b></p> <p><i>Chin-Yen Yeo, Senior Pharmacist (Antimicrobial Stewardship), Concord Hospital, Antimicrobial Resistance Commission, International Pharmaceutical Federation (FIP)</i></p>	<ul style="list-style-type: none"> <li>• Discuss principles of antimicrobial stewardship (AMS)</li> <li>• Identify IV to oral switch criteria</li> <li>• List examples of AMS interventions that can be applied in daily practice</li> </ul>
<p><b>Introduction to PK/PD</b></p> <p><i>Gene Chai, PhD candidate, University of Queensland, Brisbane, Qld</i></p>	<ul style="list-style-type: none"> <li>• Describe the major pharmacokinetic (PK) and pharmacodynamic (PD) parameters of commonly used antimicrobials</li> <li>• Apply PK/PD principles in order to optimize antimicrobial dosing and minimize toxicity in an individual patient</li> </ul>
<p><b>Therapeutic drug monitoring in practice</b></p> <p><i>Cindy Lau, Antimicrobial Stewardship Pharmacist, St Vincent's Hospital Sydney, Sydney, NSW</i></p>	<ul style="list-style-type: none"> <li>• Identify the practical issues surrounding TDM of antimicrobials, including the role for pharmacists</li> </ul>

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<p><b>Management of respiratory infections</b></p> <p><i>Dr Pam Konecny, Senior Staff Specialist Infectious Diseases, St George Hospital, Sydney, NSW</i></p>	<ul style="list-style-type: none"> <li>• Describe the signs, symptoms, pathophysiology and principles of management of community acquired pneumonia (CAP) and hospital acquired pneumonia (HAP)</li> <li>• Identify risk factors for HAP caused by multi-drug resistant gram-negative organisms</li> <li>• Compare tools available for the assessment of severity of CAP, e.g. PSI, SMART-COP, CORB</li> <li>• Describe the appropriate antimicrobial management for treatment and prophylaxis of influenza</li> </ul>
<p><b>Sepsis</b></p> <p><i>Professor Karin Thursky, Associate Director Health Services Research and Implementation Science, Peter MacCallum Cancer Centre, Melbourne, Vic; Director, National Centre for Antimicrobial Stewardship, Melbourne, Vic</i></p> <p><i>Dr Courtney Ierano, Infectious Diseases Advanced Training Resident, Alfred Health, Melbourne, Vic; PhD Fellow, National Centre for Antimicrobial Stewardship (NCAS), Melbourne, Vic</i></p>	<ul style="list-style-type: none"> <li>• Explain the definitions of sepsis and recognize the key clinical signs of sepsis</li> <li>• Describe the key principles in the management of sepsis including empirical antimicrobial therapy and fluids and monitoring requirements</li> <li>• Identify common sources of sepsis and high risk populations</li> <li>• Recognise the benefits of implementing a hospital sepsis pathway</li> </ul>
<p><b>Management of urinary tract infections</b></p> <p><i>Matthew Rawlins, Senior Pharmacist, Antimicrobial Stewardship, Fiona Stanley Hospital, Perth, WA</i></p>	<ul style="list-style-type: none"> <li>• Describe the signs, symptoms, pathophysiology and principles of management of uncomplicated and complicated urinary tract infections (UTIs)</li> <li>• Describe empiric treatment including dose and duration of therapy based on local and national guidelines</li> <li>• Identify risk factors for UTIs caused by multi-drug resistant gram-negative organisms</li> <li>• Discuss the role of prophylaxis for prevention of UTIs</li> </ul>
<p><b>Skin and soft tissue infections</b></p> <p><i>Amy Legg, Antimicrobial Stewardship Pharmacist, Top End Health Service, Darwin, NT, and PhD candidate, Menzies School of Health Research, Darwin, NT</i></p>	<ul style="list-style-type: none"> <li>• Describe the underlying risk factors and pathophysiology and evidence-based empiric management of cellulitis</li> <li>• Describe the management of skin and soft tissue infections (SSTIs) in the following specialty populations: intravenous drug users, diabetic patients, wounds with water exposure</li> <li>• Discuss the management of recurrent staphylococcal infection, including decolonization</li> <li>• Describe the rationale and principles for the route of administration, timing and duration for surgical antimicrobial prophylaxis</li> </ul>

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Live virtual seminar: *Saturday 22 June 2024*

Time (AEST)	Session
0920-0930	Online login and registration available
0930-0940	Welcome and introductions
0940-1030	Review of online learning content and Q&A
1030-1130	Case session 1: Vancomycin and therapeutic drug monitoring
1130-1200	Break
1200-1315	Case session 2: Respiratory / sepsis infections
1315-1415	Case session 3: Skin and soft tissue infections
1415-1445	Break
1445-1600	Case session 4: Urinary tract infections
1600-1630	Final Q&A, seminar summary and close
1630	Seminar close