

FOUNDATION SEMINAR IN INFECTIOUS DISEASES

Foundation Seminar in Infectious Diseases

Program

Self-paced learning package: from Friday 5 May 2023

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

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<p>Management of respiratory infections</p> <p><i>Dr Pam Konecny, Senior Staff Specialist Infectious Diseases, St George Hospital, Sydney, NSW</i></p>	<ul style="list-style-type: none"> • Describe the signs, symptoms, pathophysiology and principles of management of community acquired pneumonia (CAP) and hospital acquired pneumonia (HAP) • Identify risk factors for HAP caused by multi-drug resistant gram-negative organisms • Compare tools available for the assessment of severity of CAP, e.g. PSI, SMART-COP, CORB • Describe the appropriate antimicrobial management for treatment and prophylaxis of influenza
<p>Sepsis</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"> • Explain the definitions of sepsis and recognize the key clinical signs of sepsis • Describe the key principles in the management of sepsis including empirical antimicrobial therapy and fluids and monitoring requirements • Identify common sources of sepsis and high risk populations • Recognise the benefits of implementing a hospital sepsis pathway
<p>Management of urinary tract infections</p> <p><i>Matthew Rawlins, Senior Pharmacist, Antimicrobial Stewardship, Fiona Stanley Hospital, Perth, WA</i></p>	<ul style="list-style-type: none"> • Describe the signs, symptoms, pathophysiology and principles of management of uncomplicated and complicated urinary tract infections (UTIs) • Describe empiric treatment including dose and duration of therapy based on local and national guidelines • Identify risk factors for UTIs caused by multi-drug resistant gram-negative organisms • Discuss the role of prophylaxis for prevention of UTIs
<p>Skin and soft tissue infections</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"> • Describe the underlying risk factors and pathophysiology and evidence-based empiric management of cellulitis • Describe the management of skin and soft tissue infections (SSTIs) in the following specialty populations: intravenous drug users, diabetic patients, wounds with water exposure • Discuss the management of recurrent staphylococcal infection, including decolonization • Describe the rationale and principles for the route of administration, timing and duration for surgical antimicrobial prophylaxis

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Preliminary program

Live virtual seminar: Saturday 17 June 2023

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	<p>Case session 1: Respiratory / sepsis infections</p> <p>Charles Palmer, Advanced Training Resident in Infectious Disease at Alfred Health, Melbourne, Vic</p> <p>Tutors: Sarah Risdale, Charles Palmer, Melissa Faehrmann, Rachael Leng, Misha Devchand, Alison Duncan, Sonia Koning, Chin-Yen Yeo, Kate Morton</p>
1130-1200	Break
1200-1315	<p>Case session 2: Vancomycin and therapeutic drug monitoring</p> <p>Melissa Faehrmann, BPharm, ACT Branch Chair at SHPA, Antimicrobial Stewardship Pharmacist at Canberra Health Services, Canberra, ACT</p> <p>Tutors: Melissa Faehrmann, Sarah Risdale, Charles Palmer, Rachael Leng, Misha Devchand, Alison Duncan, Sonia Koning, Chin-Yen Yeo, Kate Morton</p>
1315-1415	<p>Case session 3: Skin and soft tissue infections</p> <p>Rachael Leng, BPharm (Hons), MSc Clinical Pharmacy, Antimicrobial Stewardship & Sepsis Pharmacist at Alfred Health, Melbourne, Vic</p> <p>Tutors: Rachael Leng, Sarah Risdale, Charles Palmer, Melissa Faehrmann, Misha Devchand, Alison Duncan, Sonia Koning, Chin-Yen Yeo, Kate Morton</p>
1415-1445	Break

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1445-1600	<p>Case session 4: Urinary tract infections</p> <p>Misha Devchand, BPharm, GardCert Pharm, MSc in Clinical Pharmacy, Project Lead & Subject Matter Expert at Safer Care Victoria, ID & AMS Pharmacist at Austin Health, Melbourne, Vic</p> <p>Tutors: Misha Devchand, Sarah Risdale, Charles Palmer, Melissa Faehrmann, Rachael Leng, Alison Duncan, Sonia Koning, Chin-Yen Yeo, Kate Morton</p>
1600-1630	<p>Final Q&A, seminar summary and close</p>
1630	<p>Seminar close</p>