



Extension Seminar in Critical Care

Preliminary program

This seminar will be delivered by a combination of a self-paced learning package (staged release from Friday 30 June 2023) and a live virtual seminar on Saturday 12 August 2023

Self-paced learning package: available from Friday 30 Jun 2023

Topic and presenter	Learning objectives
<p>Cardiac</p> <p>Dr Sebastien Haiart, Senior ICCU Registrar, Flinders Medical Centre, Adelaide, SA</p>	<ul style="list-style-type: none"> Classify the aetiology and causes of acute heart failure/cardiogenic shock Describe the pharmacology of common treatment therapies of acute heart failure/cardiogenic shock Explain the monitoring parameters for acute heart failure patients and the effects commonly used pharmacological agents may have on these
<p>Neurology</p> <p>Dr James Anstey, ICU Consultant, Royal Melbourne Hospital, Melbourne, Vic</p>	<ul style="list-style-type: none"> Explain the assessment of a critical care patient with head injury Describe pharmacological and non-pharmacological management options for patients with Traumatic Brain Injury Identify complications of these management options
<p>Trauma</p> <p>Dr Brett Sampson, Intensive Care Specialist, Flinders Medical Centre; Medical Retrieval Consultant, MedSTAR Retrieval Service, Adelaide, SA</p>	<ul style="list-style-type: none"> Summarise the role of each commonly used agent during intubation Identify the key pharmaceutical aspects of the resuscitation of a trauma patient Describe the aetiology of trauma related coagulation complications
<p>Liver</p> <p>Dr Russell Laver, Intensive Care Specialist, Flinders Medical Centre, Adelaide, SA</p>	<ul style="list-style-type: none"> Identify the common ICU complications of chronic liver disease Describe the treatment of the various sequelae of liver failure Explain the management of immediate post-transplant liver patients in the ICU
<p>Pharmacy Practice</p> <p>Rachel Fyfe, Senior Intensive Care Pharmacist & Critical Care Team Lead, Barwon Health, Geelong, Vic</p>	<ul style="list-style-type: none"> Define the role of a critical care pharmacist within a critical care team Identify the domains of care within an ICU a critical care pharmacist is responsible for Summarise simple pharmacist led initiatives to improve patient care within an ICU
<p>Haematology</p> <p>Lucy Arno, Clinical Pharmacist (ICU), Royal Melbourne Hospital, Melbourne, Vic</p>	<ul style="list-style-type: none"> Differentiate between the diagnostic criteria for HIT and the treatment options available Describe the common complications of bone marrow transplant patients Identify the core aspects of a basic treatment regime of a bone marrow transplant patient
<p>Aboriginal care</p> <p>Danny Tsai, BPharm(Hons) GDCLinPharm PhD, Senior Research Fellow, FHMRI, Flinders University</p>	<ul style="list-style-type: none"> Describe the interethnic differences in pharmacokinetics of an Aboriginal and Torres Strait Islander population Identify cultural aware practices when providing care to Aboriginal and Torres Strait Islander patients

	<ul style="list-style-type: none"> Identify available resources for optimising care provided to Aboriginal and Torres Strait Islanders
<p>Environmental aspects</p> <p>Kerrienne Huynh</p>	<ul style="list-style-type: none"> Summarise the impact of healthcare on the environment Describe interventions pharmacists can use to reduce the environmental impact of healthcare Identify opportunities to increase the sustainability of an ICU pharmacy service
<p>ECMO overview and PK considerations</p> <p>Associate Professor Jayesh Dhanani - ICU Specialist</p>	<ul style="list-style-type: none"> Describe the indications for ECMO and the associated cannulation methods Contrast the pharmacokinetic changes in a patient undergoing ECMO therapy with a non-ECMO patient Identify the practical dosing strategies for commonly used medications in patients receiving ECMO therapy
<p>Post op analgesia and pain</p> <p>Dr. Stuart McKnown FANZCA, MMed, MBBS, BMus VMO Anaesthetist Canberra Hospital</p>	<ul style="list-style-type: none"> Describe the common non-oral or IV routes of analgesia administration such as epidural or specific nerve blocks such as erector spinae blocks Explain the pharmacokinetic considerations in post operative patients Identify the advantages and disadvantages regarding the use of common post operative analgesic agents
<p>Organ donation</p> <p>Jess Rivers Organ Donor Co-ordinator, SA Adelaide SA</p>	<ul style="list-style-type: none"> Describe the process of, as well as pathways available for organ donation in Australia Explain the rationale for pharmacological supports utilised in organ donation



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All times listed are in AEDT

Live virtual seminar: Saturday 12 August 2023

Time (AEST)	Session
0920-0930	Online login available
0930-0940	Welcome, introduction, housekeeping
0940-1025	Review of self-paced learning package content with open Q&A
1025-1100	Advanced infection management
1100-1145	Sustainability in ICU
1145-1200	Break
1200-1210	Case study introduction
1210-1320	Case study 1
1320-1350	Break
1350-1505	Case study 2
1505-1515	Break
1515-1605	Pharmacy Practice case studies
1605-1645	Group presentation/discussion
1645-1700	Closing question time