

## Foundation Seminar in Critical Care

### Preliminary program

**Self-paced learning package:** available from 5 July 2024

The self-paced learning package comprises approximately 6.5 hours of learning materials. The self-paced learning package materials must be completed prior to attending the live virtual seminar.

**Knowledge gained from topics below within self-paced learning package will be directly used in case sessions on the day.**

Topic	Learning Objectives
<p><b>Introduction to intensive care</b></p> <p><b>Rachel Fyfe</b>, <i>ICU Pharmacist Barwon Health, Vic</i></p>	<ul style="list-style-type: none"> <li>Identify common reasons for patient admission to an intensive care unit (ICU)</li> <li>Describe the levels of ICUs, including specialty units</li> <li>Summarise the role of the pharmacist within the ICU multi-disciplinary team</li> </ul>
<p><b>Overview of shock and fluid management</b></p> <p><b>Simon Potts</b>, <i>Senior Pharmacist, Intensive and Critical Care Unit, Flinders Medical Centre, Adelaide, SA</i></p>	<ul style="list-style-type: none"> <li>Define shock</li> <li>Describe the main different types of shock</li> <li>Summarise the impact of each type of shock on the pharmacokinetics and pharmacodynamics of commonly used drugs in ICU'</li> <li>Compare and contrast the colloid and crystalloid fluid therapy used in critically ill patients</li> </ul>
<p><b>Vasopressors &amp; Inotropes</b></p> <p><b>Gráinne Hughes</b>, <i>ICU Pharmacist, Canberra Health Services, Canberra, ACT</i></p>	<ul style="list-style-type: none"> <li>Describe the relevant physiology involved in shock</li> <li>Compare and contrast the most common vasoactive and inotropic medications used in critically ill patients</li> <li>Describe the simple monitoring parameters used in critically ill patients</li> <li>Identify and understand the impact on pharmacotherapy of commonly used machines that provide life support to patients in an ICU</li> </ul>
<p><b>IV Drug Compatibility and Central Access</b></p> <p><b>Simon Potts</b>, <i>Senior Pharmacist, Intensive and Critical Care Unit, Flinders Medical Centre, Adelaide, SA</i></p>	<ul style="list-style-type: none"> <li>Describe the various types of central lines commonly used in critically ill patients</li> <li>Compare and contrast the difference between physical and pharmaceutical drug compatibility</li> <li>Identify key resources available to guide decision making in drug compatibility</li> </ul>
<p><b>Sedation</b></p> <p><b>Melissa Ankravs</b>, <i>Senior ICU Pharmacist and Critical Care Team Leader, Royal Melbourne Hospital   Honorary Senior Fellow, Department of Critical Care, Melbourne Medical School, University of Melbourne</i></p>	<ul style="list-style-type: none"> <li>Identify indications for sedation in ICU</li> <li>Outline classes of sedative agents used in ICU</li> <li>Explain the term and role of 'sedation holidays'</li> <li>Correlate between sedative agents and delirium</li> <li>Identify strategies for preventing and managing pain in ICU</li> <li>Distinguish between hyper- and hypo- active delirium</li> </ul>

	<ul style="list-style-type: none"> <li>• Describe the management of hyperactive delirium and agitation</li> <li>• Describe the management of opioid and benzodiazepine withdrawal following admission to ICU</li> </ul>
<p><b>Management of the critically unwell paediatric patient in a non-specialty paediatric centre</b></p> <p><b>Rachel Fyfe</b>, <i>ICU Pharmacist Barwon Health, Vic</i></p>	<ul style="list-style-type: none"> <li>• Explain the assessment of a child in critical care including pain and analgesia scales</li> <li>• Describe age related changes in pharmacokinetic/pharmacodynamics</li> <li>• Outline medication safety considerations for paediatric patients in critical care</li> <li>• Outline fluid management in critically unwell paediatric patients</li> </ul>
<p><b>AKI and RRT</b></p> <p><b>Michele Cree</b>, <i>Pharmacist Lead - Critical Care, Children's Health Queensland Hospital and Health Service, Queensland Children's Hospital, Brisbane, Qld</i></p>	<ul style="list-style-type: none"> <li>• Identify causes of acute kidney injury (AKI) in ICU patients</li> <li>• Identify indications for use of renal replacement therapies (RRTs)</li> <li>• Explain the mechanism of actions for modes of RRTs</li> <li>• Describe the role anticoagulating circuits in RRTs</li> <li>• Describe the impact of RRTs and AKI on medication dosing</li> <li>• Identify resources to assist in medication dosing for patients on modes of RRTs or experiencing AKI</li> <li>• Identify key monitoring parameters for pharmacists for patients on modes of RRTs or experiencing AKI</li> </ul>

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Live virtual seminar - All times listed are in AEST

Please note program times are subject to change until the program has been finalised.

Saturday 17<sup>th</sup> August 2024

Time (AEST)	Session
0920-0930	Online login available
0930-0940	<b>Welcome, introduction, housekeeping</b> <b>Simon Potts</b> , Senior Pharmacist, Intensive Care Unit, Flinders Medical Centre, Adelaide SA
0940-1000	<b>Recap of self-paced learning package content</b> <b>Simon Potts</b> , Senior Pharmacist, Intensive Care Unit, Flinders Medical Centre, Adelaide SA
1000-1045	<b>Patient transition: In/out of ICU</b> <b>Lucy Arno</b> , ICU Clinical Pharmacist, The Royal Melbourne Hospital, Melbourne Vic
1045-1145	<b>Introduction to ICU Pharmacokinetics</b> <b>Rachel Fyfe</b> , ICU Clinical Pharmacist, Barwon Health, Geelong Vic
1145-1200	Break
1200-1245	<b>Self-care in the ICU</b> <b>Karlee Johnston</b> , Lecturer, Pharmacology, ANU Medical School, Canberra, ACT
1245-1400	<b>Case Session 1: In &amp; out of the ICU</b> <b>Led By: Simon Potts</b> , Senior Pharmacist, Intensive Care Unit, Flinders Medical Centre, Adelaide SA
1400-1430	Lunch Break
1430-1545	<b>Case Session 2: In &amp; out of the ICU continued</b> <b>Led By: Simon Potts</b> , Senior Pharmacist, Intensive Care Unit, Flinders Medical Centre, Adelaide SA
1545-1600	Break
1600-1700	<b>Case Session 3: Clinical snapshots</b> <b>Led By: Simon Potts</b> , Senior Pharmacist, Intensive Care Unit, Flinders Medical Centre, Adelaide SA
1700-1715	Wrap up/final discussions
1715	Close of live virtual seminar

Please note: presentation recordings from the live virtual seminar will not be available.