

## MEDI90058 Applications of Echocardiography

<b>Credit Points:</b>	12.5
<b>Level:</b>	9 (Graduate/Postgraduate)
<b>Dates &amp; Locations:</b>	2015, Hawthorn This subject commences in the following study period/s: Semester 1, Hawthorn - Taught online/distance. Semester 2, Hawthorn - Taught online/distance. This subject will be taught off-campus (online) Course materials will be distributed via mail to students. Administration is via e-mail. The course is 1 semester full-time or 2 semesters part-time via distance education. A semester duration is 12 weeks. For students completing full-time there will be four subjects per semester, and for part-time, two subjects per semester. Subjects must be taken in sequence.
<b>Time Commitment:</b>	Contact Hours: Off Campus, Online Total Time Commitment: 170 hours per 12.5 credit point subject
<b>Prerequisites:</b>	To enrol in this subject, you must be admitted in Post Graduate Diploma in Clinical Ultrasound. This subject is not available for students admitted in any other courses.
<b>Corequisites:</b>	None
<b>Recommended Background Knowledge:</b>	None
<b>Non Allowed Subjects:</b>	None
<b>Core Participation Requirements:</b>	For the purposes of considering requests for Reasonable Adjustments under the Disability Standards for Education (Cwth 2005), and Students Experiencing Academic Disadvantage Policy, academic requirements for this subject are articulated in the Subject Description, Subject Objectives, Generic Skills and Assessment Requirements of this entry. The University is dedicated to provide support to those with special requirements. Further details on the disability support scheme can be found at the Disability Liaison Unit website: <a href="http://www.services.unimelb.edu.au/disability/">http://www.services.unimelb.edu.au/disability/</a>
<b>Coordinator:</b>	Prof Colin Royse
<b>Contact:</b>	The University of Melbourne Faculty of Medicine, Dentistry and Health Sciences. Ultrasound Education Group Department of Surgery Level 6 Centre for Medical Research The Royal Melbourne Hospital Parkville, VIC 3050 <b>E: <a href="mailto:support@heartweb.com">support@heartweb.com</a> (mailto:support@heartweb.com)</b> T: +61 3 8344 5673 Website : <b><a href="http://www.heartweb.com.au">www.heartweb.com.au</a> (www.heartweb.com.au)</b>
<b>Subject Overview:</b>	This subject will identify the role of ultrasound and specific clinical situations relevant to perioperative and critical care practice. Topics include:

	<ol style="list-style-type: none"> <li>1 Clinical Applications- Persistent Hypotension</li> <li>2 clinical applications-Acute Pulmonary Oedema</li> <li>3 High-Speed Deceleration Injury</li> <li>4 Unexplained Sepsis</li> <li>5 Stroke</li> <li>6 Echocardiography for Cardiac Transplant Surgery</li> <li>7 pericardial Tamponade</li> <li>8 Epi-aortic Echocardiography</li> </ol>
<b>Learning Outcomes:</b>	<p>The completion of the subject, students should:</p> <ol style="list-style-type: none"> <li>1 Understand multiple clinical applications such as persistent hypotension, acute pulmonary oedema, high-speed deceleration injury, and unexplained sepsis.</li> <li>2 Understand echocardiography cardiac transplant surgery</li> <li>3 Understand pericardial tamponade</li> <li>4 Understand the effects of ventilation on echocardiography</li> <li>5 Complete 20 case reviews.</li> </ol>
<b>Assessment:</b>	<p>1. 80% of assessment: one open- book multiple-choice examination consisting of 50 questions which are likely to include case study diagnoses and image interpretation and measurement. Students will have 1 week to complete the examination during the assessment period at the end of each semester. 2. 20% of assessment: completion of self assessment modules at the end of each tutorial, progressively through the semester. These are completed in the workbooks issued to students and it is a requirement that these workbooks are signed and returned for assessment.</p>
<b>Prescribed Texts:</b>	Royse C, Donnan G, Royse A. Pocket Guide to Perioperative and Critical Care Echocardiography. 2006; McGraw-Hills
<b>Recommended Texts:</b>	Other materials will be provided as a package of readings, PowerPoint presentations and case studies.
<b>Breadth Options:</b>	This subject is not available as a breadth subject.
<b>Fees Information:</b>	Subject EFTSL, Level, Discipline & Census Date, <a href="http://enrolment.unimelb.edu.au/fees">http://enrolment.unimelb.edu.au/fees</a>
<b>Generic Skills:</b>	<ul style="list-style-type: none"> <li># Enhance time utilisation</li> <li># Improve written skills and problem solving skill</li> </ul> <p>All students are expected to have access to a computer that can operate a Windows platform or simulation.</p>
<b>Links to further information:</b>	<a href="http://www.heartweb.com.au">http://www.heartweb.com.au</a>
<b>Notes:</b>	<p>This subject is available to Part-time and full-time students.</p> <p>This subject is not available to Commonwealth Supported students.</p> <p>This subject is not available as breadth.</p> <p>Administration is via e-mail.</p>
<b>Related Course(s):</b>	<p>Graduate Diploma in Clinical Ultrasound</p> <p>Master of Clinical Ultrasound</p> <p>Postgraduate Diploma in Clinical Ultrasound</p>