

PHRM90019 Transthoracic and Surface Ultrasound

Credit Points:	12.50
Level:	9 (Graduate/Postgraduate)
Dates & Locations:	2010, Parkville This subject commences in the following study period/s: Semester 1, Parkville - Taught on campus. Semester 2, Parkville - Taught on campus. Distance
Time Commitment:	Contact Hours: n/a Total Time Commitment: It is estimated that distance education students will be required to spend approximately 120 hours through a combination of studying course materials, reading nominated texts, journal review, practice worksheets, assessment assignments, and in identifying and integrating the information within their clinical practice.
Prerequisites:	Nil
Corequisites:	Nil
Recommended Background Knowledge:	Nil
Non Allowed Subjects:	Nil
Core Participation Requirements:	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: http://www.services.unimelb.edu.au/disability/
Contact:	Melbourne Consulting and Custom Programs Level 3, 442 Auburn Rd Hawthorn VIC 3122 Email: mccp.enquiries@mccp.unimelb.edu.au (mailto:mccp.enquiries@mccp.unimelb.edu.au)
Subject Overview:	This course is no longer taking new enrolments. The last intake into this program was Semester 2, 2009. This subject will teach basic rather than comprehensive echocardiography examination using the transthoracic and epivascular approaches. The focus will be on determining haemodynamic information using these approaches and their application in the perioperative environment. Subsections of the subject will include the different probe types, how to obtain the basic views, understanding of the limitations, basic haemodynamic quantitative measurements, and small and large vessel imaging. Illustrations of these applications will be provided via case scenarios in operating room or intensive care environments.
Objectives:	Subject Objectives: o on completion of this subject, students should; o understand how to obtain basic transthoracic echocardiography images o understand how to optimise images obtained during transthoracic echocardiography o understand different transducer types and their applications o understand how to attain quantitative information for haemodynamic assessment o how to perform epivascular imaging o how to measure flow in small blood vessels o how to identify nonvascular structures such as nerve bundles o how to perform epiaortic imaging, and understand how atheroma detection and its avoidance during cardiac surgery can reduce the risk of neurocognitive damage.

Assessment:	Open book multiple choice question exam 50 questions per subject (80%). Self assessment modules in the workbooks (20%). The University reserves the right to review these worksheets if there are any doubts about the authenticity of the students work, or to monitor student progress.
Prescribed Texts:	o Sidebotham D, Merry A, Legget M. Practical perioperative transoesophageal echocardiography. Butterwoth Heinemann.o George L and colleagues. West Mead anaesthetic department transoesophageal echocardiography training manual.
Recommended Texts:	o Other materials will be provided as a package of readings, PowerPoint presentations, case studies and assessment tasks
Breadth Options:	This subject is not available as a breadth subject.
Fees Information:	Subject EFTSL, Level, Discipline & Census Date, http://enrolment.unimelb.edu.au/fees
Generic Skills:	This subject encompasses particular generic skills. On completion of the subject, students should be able to: # Improve "thinking skills" when learning the different anatomical orientations of transthoracic versus transoesophageal echocardiography examinations. # Evaluate scientific literature to determine the value of new imaging modalities on influencing clinical outcome. # Develop an advanced understanding of the changing knowledge base in the specialist areas this subject encompasses.
Links to further information:	http://www.pharmacology.unimelb.edu.au/echocourse/
Related Course(s):	Postgraduate Diploma in Perioperative and Critical Care Echocardiography