



THE UNIVERSITY OF  
MELBOURNE

Mobile Learning Unit  
Melbourne Medical School

# 2019 Ultrasound Workshops and Courses

- **iHeartScan & iHeartScan Advanced - Live-Model Workshops**
- **Focused Ultrasound Simulator Education - Simulator Courses**
- **Graduate Courses in Clinical Ultrasound - Online Study**

These courses provide a great overview and knowledge base in clinical ultrasound and the workshops and simulator courses offer practical skills in performing Focused Cardiac Ultrasound (FCU) in TTE and TOE, ultrasound for peri-arrest, ultrasound for lung and ultrasound-guided vascular access. These innovative teaching programs have proven to be highly effective in teaching basic competence in diagnostic point of care ultrasound.

## Designed For

Anaesthetists, Intensive Care, Emergency Department Physicians and Surgeons who wish to learn how to use Point-of-Care (POC) transthoracic, transoesophageal and ultrasound guidance techniques.

## Pre-Reading Materials

All workshop pre-reading is delivered online and includes interactive tutorials and online cases to practise interpretation. Workshop materials can be accessed online, or downloaded to iPad, Android or Windows devices. Allow 20 hours of study time prior to attending the workshop.

## Accreditation

CPD Credits are available.



## Convenience

Study on iOS, Android and Windows devices or on web



## Reinforcement

Online tutorial assessments and case studies



## Recognition

Certificate of Completion issued upon course completion.

 For more information, visit [medicine.unimelb.edu.au/mlu](http://medicine.unimelb.edu.au/mlu)



# iHeartScan Workshops

The iHeartScan workshop series is designed for Anaesthetists, Intensive Care, Emergency Department Physicians and Surgeons who wish to learn how to use Point of Care (POC) transthoracic ultrasound guidance techniques.

## iHeartScan (Haemodynamic Echocardiography Assessment in Real Time)

This two-day workshop will provide hands-on training in transthoracic echocardiography.

### Core learning areas

- Basic transthoracic imaging
- Haemodynamic state assessment including the measurement of cardiac output
- Basic assessment of valves using 2D and colour flow Doppler imaging
- iHeartScan examination
- iHeartScan reporting and examples

 20 Case Studies  5 Tutorials

 30 Hours Study Course Fee: \$1540

## NEWLY REVISED

## iHeartScan Advanced

This two-day workshop will provide advanced training in transthoracic echocardiography.

### Core learning areas

- Left and right ventricular function quantification
- Valve stenosis and regurgitation quantification
- Pulmonary artery and right atrial pressure estimation
- Lung ultrasound
- Supervised scanning of normal models
- Interactive group assessment of pathology cases: haemodynamic calculation and reporting

 20 Case Studies  7 Tutorials

 30 Hours Study Course Fee: \$1540

## Time Frame

Each course provides 20 – 30 hours of learning time, with most students reaching completion in 1 – 2 months.

## CPD Activity

Accredited with ACEM, ANZCA, ASUM, CICM and RACGP\* for you to claim CPD points.

\*iHeartScan is also accredited with RACGP Category 1.

## iHeartScan & Advanced Workshops





Date	Workshop	Location
30 & 31 March	iHeartScan	Melbourne
18 & 19 May	iHeartScan	Melbourne
10 & 11 August	iHeartScan Advanced	Melbourne
7 & 8 September	iHeartScan	Perth
19 & 20 October	iHeartScan	Melbourne
23 & 24 November	iHeartScan	Melbourne

# Simulator Workshops

The FUSE courses include eLearning, 3 hour workshop and 1 month access to high fidelity ultrasound simulator for self-directed practice with realistic simulated pathology cases. The following courses are available:

## FCU Transthoracic Echocardiography (FCU TTE)

Learn practical skills in transthoracic echocardiography. Reinforced learning on both normal and pathological cases.

-  30 Case Studies (pre & post workshop)
-  8 Tutorials  20 Hours Study
-  3 hr Workshop Course Fee: \$330





## Advanced Transthoracic Echocardiography Course (TTE)

Participants will advance their point of care transthoracic echocardiography (TTE) skills to include quantification of valvular and ventricular function and estimation of pulmonary hypertension.

-  20 Case Studies (pre & post workshop)
-  8 Tutorials  30 Hours Study
-  3 hr Workshop Course Fee: \$330





## FCU Transoesophageal Echocardiography (FCU TOE)

The best way to obtain practical and interpretive skill in transoesophageal echocardiography. Learn how to insert, manipulate the probe and make rapid assessment of shock including valvular assessment.

-  30 Case Studies (pre & post workshop)
-  8 Tutorials  20 Hours Study
-  3 hr Workshop Course Fee: \$330


## Advanced Transoesophageal Echocardiography (TOE)

Reach a new level of understanding of TOE including quantification of valvular and ventricular function and pulmonary hypertension including colour, spectral and tissue Doppler.

-  30 Case Studies (pre & post workshop)
-  8 Tutorials  20 Hours Study
-  3 hr Workshop Course Fee: \$330

## FCU Peri-Arrest

Learn systematic diagnosis of conditions that cause peri-arrest and cardiac arrest, including ultrasound of the heart, lung and abdomen. Prior basic training in focused cardiac ultrasound (transthoracic echocardiography) is a pre-requisite, e.g. FCU TTE or iHeartScan.

-  30 Case Studies (pre & post workshop)
-  8 Tutorials  20 Hours Study
-  3 hr Workshop Course Fee: \$330



## FUSE Lung and Gastric Ultrasound

Learn to perform and interpret point-of-care surface ultrasound diagnosis of common significant lung pathology including normal, pneumothorax, pleural effusion, consolidation, atelectasis, pulmonary oedema, empyema, pulmonary embolus, ultrasound-guided drainage of pleural effusion and COPD.

-  30 Case Studies (pre & post workshop)
-  8 Tutorials  20 Hours Study
-  3 hr Workshop Course Fee: \$330

## FUSE Vascular Access

Learn how to improve success and reduce complications of venous and arterial cannulation using real-time guidance with ultrasound. The course covers ultrasound-guided cannulation of central and peripheral veins (internal jugular, subclavian, femoral, PICC) and arteries (femoral, brachial and radial).

-  30 Case Studies (pre & post workshop)
-  8 Tutorials  20 Hours Study
-  3 hr Workshop Course Fee: \$330

Simulator Workshops		
FCU TTE and Advanced		
11 Feb	FCU TTE	Melbourne
29 April	FCU TTE ANZCAASM	KL Malaysia
15 May	FCU TTE Advanced	Melbourne
1 July	FCU TTE	Melbourne
4 Sept	FCU TTE Advanced	Melbourne
FCU TOE		
18 March	FCU TOE	Melbourne
29 April	FCU TOE ANZCA ASM	KL Malaysia
19 June	FCU TOE Advanced	Melbourne
21 September	FCU TOE ANZCA ASM	Sydney
23 October	FCU TOE Advanced	Melbourne
FUSE Lung and Gastric		
24 July	Lung and Gastric	Melbourne
19 August	Lung and Gastric	Melbourne
FCU Peri-Arrest		
6 March	Peri Arrest	Melbourne
7 August	Peri Arrest	Melbourne
21 September	Peri Arrest ASA ASM	Sydney
FUSE Vascular Access		
3 April	Vascular	Melbourne
29 April	Vascular ANZCA ASM	KL Malaysia
13 November	Vascular	Melbourne



# Course details

## Graduate Courses in Clinical Ultrasound

These three award courses are offered to medical professionals who wish to obtain further expertise in medical ultrasound for clinical practice. All graduate courses are delivered online and require no contact hours. Course materials can be accessed online or downloaded to iPad, Android or Windows devices.

The three-stage course starts with:

### 1. Graduate Certificate in Clinical Ultrasound (GCertClinUS)

Provides a solid foundation for basic transthoracic echocardiography and surface-ultrasound uses such as vessel access, nerve blocks and trauma ultrasound.

Subject 1: MEDI90049 – Principles of Ultrasound and iHeartScan (12.5 points)

Subject 2: MEDI90054 – Ultrasound Guided Procedures (12.5 points)

Subject 3: MEDI90050 – Doppler Echocardiography (12.5 points)

Subject 4: MEDI90051 – Ventricular Function (12.5 points)

### 2. Graduate Diploma in Clinical Ultrasound (GDipClinUS)

Provides diagnostic level of knowledge with the addition of transoesophageal echocardiography.

Subject 1: MEDI90056 – Advanced Anatomy and Doppler Analysis (12.5 points)

Subject 2: MEDI90057 – Advanced Valve and Aortic Pathology (12.5 points)

Subject 3: MEDI90058 – Applications of Echocardiography (12.5 points)

Subject 4: MEDI90059 – Advanced Echocardiography Interpretation (12.5 points)

### 3. Master of Clinical Ultrasound (MClInUS)

Provides an advanced knowledge-base in echocardiography and focuses on congenital, obstetrics, medical conditions, 3D echocardiography and new technologies, advanced case studies practicum, research methods and ultrasound literature.

Subject 1: MEDI90046 – 3-D Echocardiography and New Technologies (12.5 points)

Subject 2: MEDI90083 – Research Methods and Ultrasound Literature (12.5 points)

Subject 3: MEDI90047 – Congenital, Obstetric and Medical Conditions (12.5 points)

Subject 4: MEDI90048 – Advanced Case Studies and Practicum (12.5 points)

### Course Duration

Each course is offered part-time (2 subjects) over two semesters or full-time (4 subjects) over one semester.

### Study Time

Part Time 10 – 12 hours per week  
Full time 20 – 24 hours per week

### Basic TTE Training

The Basic TTE online course has been designed to provide a thorough knowledge base in Basic Transthoracic Echocardiography. Offers 7 tutorials, 50 basic TTE case studies and access to 30 log books to record clinical cases (optional). At the end of the course you will receive a completion certificate and statement of activities including all completed tutorials and case studies.

### Sponsored By:

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## Get in touch

▶ [medicine.unimelb.edu.au/mlu](http://medicine.unimelb.edu.au/mlu)

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🖥 For more information, visit [medicine.unimelb.edu.au/mlu](http://medicine.unimelb.edu.au/mlu)



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