



Faculty

International

- Professor Anthony McLean, Sydney
- Professor Stephen Huang, Sydney
- Dr Louise Cole, Sydney
- Professor Michel Slama, France
- Dr Gladys Kwan, Hong Kong
- Dr Cindy Tsui, Hong Kong

Indonesia

- Dr Rita Ibrahim, Jakarta

Organisers:

**Nepean Institute of Critical Care
Education & Research, Australia**

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Registration:

<http://www.niccer.org.au>

PIE

Practical Intermediate Echocardiography for Critical Care

Proudly sponsored by PHILIPS

Indonesia

Date: 30 Jun – 1 July 2020

Where: Jakarta, Indonesia

Cost: AUD600 (Indonesian residents only)

Introduction

PIE is a new transthoracic echocardiography (TTE) course targeted at more experienced or advanced practitioners. This course is particularly useful to:

- practitioners who are already performing basic level echo but would like to advance their skills and apply Doppler echo in their studies
- practitioners who are already performing Doppler echo but want to perfect their Doppler skills or want to learn more on assessments using proper Doppler measurements

The course objective is to equip practitioners with the skills to properly assess cardiac function and haemodynamics in patients who are critically ill. There is a well balance of didactic lectures and hands-on practice in this course. A new *focused assessment with instructor's feedbacks* session is incorporated in this course.

Course content

The course cover basic principles and clinical topics, with the emphasis on Doppler assessment. Topics* may include:

- Basics principles:
 - Image optimization in 2D echo
 - Revisiting anatomy and views in TTE
 - Principles of Doppler
 - Cardiac output measurement
 - Pulmonary artery pressure measurement
 - LV filling pressures inference
- Clinical topics:
 - Shock
 - Shortness of breath
 - Sepsis
 - Chest pain
 - Valvular assessments for critical care

**Note that not all topics are offered due to time limitation. Suitable topics will be decided by the local organizer in discussion with the PIE team.*

Who should attend?

Participants should have attended a basic level echo course, *e.g.* RACEplus, and have performed at least 30 basic level TTE studies.

Reference material (not included)

McLean, Huang & Hilton (eds) *Oxford Textbook of Advanced Critical Care Echocardiography*, Oxford University Press, Oxford, expected in in Feb 2020.



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Program

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Day 1

0900 Welcome and introduction

0910 Revising anatomy and TTE views

0945 Hands-on: Getting proper TTE views

1030 Morning break

1050 Lectures:

Doppler principles

Cardiac output measurement

Pulmonary artery pressure measurement

1200 Praying & Lunch

1300 Hands-on: CO and PASP measurements

1400 Tissue Doppler

1430 Hands-on: tissue Doppler

1530 Afternoon break

1550 Dynamic outflow obstruction

1615 Fluid responsiveness

1645 Q&A

1700 Finish

Day 2

0900 Assessing LV filling pressures

0930 Hands-on: LV filling pressures

1030 Morning break

1050 Continuity equation and applications

1115 Hands-on: Continuity equation

1200 Praying & Lunch

1300 Haemodynamic principles & pitfalls

1345 Echo in shock

1430 Echo in sepsis

1500 Afternoon break

1530 Focused assessments with feedbacks

1645 Q&A

1700 Finish