



PIE

Practical Intermediate Echocardiography for Critical Care

Jakarta, Indonesia

Date: 13 – 14 July 2023

Where: Jakarta, Indonesia

Cost: AUD700 (Indonesian residents only)

Faculty

International

- Dr Anne-Marie Welsh, Sydney
- Dr Louise Cole, Sydney
- Professor Anthony McLean, Sydney
- Professor Stephen Huang, Sydney

Indonesia

- Dr Rita Ibrahim, Jakarta

Organisers:

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

Contact:

Dr Rita Ibrahim

Department Cardiology & Vascular Med
FKUI

National Cardiovascular Centre Harapan
Kita, Jakarta, Indonesia

ritzabrahim@gmail.com

Registration:

<http://www.niccer.asn.au> or contact Dr
Rita Ibrahim (ritzabrahim@gmail.com)

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 Feb 2020.



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Tentative 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 PAP measurements

1430 Tissue Doppler

1500 Afternoon break

1520 Hands-on: tissue Doppler

1615 Dynamic outflow obstruction

1630 Q&A

1700 Finish

Day 2

0900 Pitfalls in haemodynamic measurements

0940 Hands-on: Revision of CO, PASP and tissue Doppler

1030 Morning break

1045 Continuity equation and applications

- *Aortic stenosis*

- *Qp:Qs*

1115 Hands-on: Continuity equation

1200 Praying & Lunch

1300 Assessing LV diastolic function / filling pressures

1340 Hands-on: LV diastolic function (continue)

- *E/A, e', E/e', TR velocity or PASP, LAV*

1445 Echo in shock

1515 Afternoon break

1530 Echo in chest pain

1600 Echo in SOB

1630 Q&A

1700 Finish