

Faculty

- Stephen Huang, Sydney
- Dr Markus Renner
- Dr Chris Walker
- Other senior trainees

Organizer



https:// niccer.asn.au

Contact:

Local organiser

Dr Markus Renner Dunedin Hospital NZ

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Conference secretary

Ms Lisa Deaman secretary@niccer.asn.au

Registration:

https:// niccer.asn.au

PIE

Practical Intermediate Echocardiography for Critical Care

Dunedin, NZ

Date: 12 – 13 October 2024

Where: Hunter Centre, Dunedin, NZ

Cost: AUD1,600 (early bird, before 12 September 2024) AUD1,800 (on or after 12 September 2024)

Introduction

PIE is a new transthoracic echocardiography (TTE) course targeting 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 principles of assessments in 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, and aims to fill the "gap" between basic and advanced critical care echo.

Course content

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

- · Basics principles:
 - o Revisiting anatomy and views in TTE: probe navigation
 - Principles of Doppler
 - o Cardiac output measurement
 - Pulmonary artery pressure estimation
 - o Mean pressure gradient and pressure half-time
 - LV filling pressures inference
- Clinical topics or cases:
 - Shock
 - o Shortness of breath
 - o Cardiac arrest
 - 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?

To maximize the learning process, we recommend participants

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

(Note: we do not ask participants to submit any proofs)

Reference material (optional)

McLean, Huang & Hilton (eds) Oxford Textbook of Advanced Critical Care Echocardiography, Oxford University Press, Oxford.



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Tentative program

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0845 Welcome and introduction

0900 Probe navigation in TTE views

0930 Hands-on warm-up: Probe navigation in TTE views

1030 Morning break

1050 Lectures:

Doppler principles

Cardiac output measurement

1145 Hands-on: Colour Doppler and CO measurements

1245 Lunch

1330 Lectures:

Pulmonary artery pressure estimation

Tissue Doppler principles

1415 Hands-on: PAP estimation and tissue Doppler

1515 Afternoon break

1530 Mean PG and pressure half-time

1600 Hands-on: mean PG and PHT

1645 Q&A

1700 Finish

Day 2

0900 Pitfalls in haemodynamic measurements

0940 Hands-on:

Revisiting CO, PASP and tissue Doppler

1030 Morning break

1045 Continuity equation and applications

- aortic stenosis: effective orifice area

- regurgitation volume / fraction

Septal defects: Qp:Qs

1115 Hands-on: Continuity equation

1215 Lunch

1300 Assessing LV filling pressures

1330 Hands-on: LV filling pressures

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

1430 Dynamic outflow obstruction

1500 Afternoon break

1520 Special topics / Case studies

1645 Q&A

1700 Finish