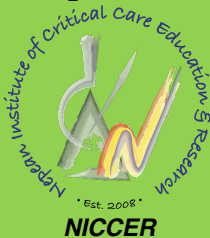




Faculty

- Anthony McLean, Sydney
- Geoff McCracken, Hamilton
- Iris Ting, Sydney
- Keren Mowbray, Sydney
- Pranesh Jogla, Hamilton
- Stephen Huang, Sydney

Organisers



Local organiser

Dr Marek Nalos
ICU Director
Waikato Hospital, Hamilton, NZ

Contact:

Conference secretary
Ms Lisa Deaman
secretary@niccer.asn.au

Registration:

[https:// niccer.asn.au](https://niccer.asn.au)

PIE

Practical Intermediate Echocardiography for Critical Care *Rotorua, NZ*

Date: 20-21 February 2027

Where: Rotorua Novotel, Hamilton, NZ

Cost: AUD1,700 (early bird) (AUD1,900 from 20 January 2027)

Introduction

PIE is a new transthoracic echocardiography (TTE) course targeting at more experienced or advanced critical care practitioners, and is particularly useful to those:

- who are already performing basic level echo but would like to apply Doppler echo for cardiac and haemodynamic assessments in day-to-day practice
- who are already performing Doppler echo but want to perfect their Doppler skills (do proper Doppler measurements)
- who want to prepare for advanced critical care echocardiography qualifications (e.g. EDEC, DDU).

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

This 2-days course covers basic principles and physiology of Doppler assessment in common clinical situations. Topics may include:

- Basics principles:
 - Principles of Doppler & tissue Doppler
 - Cardiac output measurements by Doppler
 - Pulmonary artery pressure estimations
 - Valvular assessments
 - The continuity equation and its applications
 - Assessing LV function
 - Assessing LV filling pressures
 - Dynamic LV outflow obstructions
 - Pitfalls of Doppler measurements
- Case studies on Doppler applications in various clinical scenarios.

Any prerequisites?

We recommend participants should have

- **attended a basic level echo course**, e.g. RACEplus.
- **performed at least 30 basic level TTE studies** or are comfortable in getting the standard TTE views.

Reference material (not included)

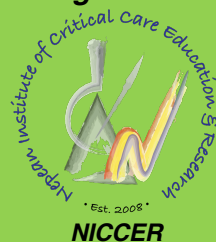
McLean, Huang & Hilton (eds) Oxford Textbook of Advanced Critical Care Echocardiography, Oxford University Press, Oxford.



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PIE

Practical Intermediate Echocardiography for Critical Care

Tentative program

Day 1

- 0845 Welcome and introduction
0900 Probe navigation in TTE views
0930 Hands-on task 1 Warm-up: Probe navigation in TTE views
1030 **Morning break**
1045 Doppler principles
1115 Cardiac output measurement
1145 Hands-on task 2: Colour Doppler and CO measurements
1245 **Lunch**
1330 Pulmonary artery pressure estimation
1415 Hands-on task 3: PAP estimation
1515 **Afternoon break**
1530 Mean PG and pressure half-time
1600 Hands-on task 4: mean PG and PHT
1645 Q & A
1700 Finish

Day 2

- 0900 Pitfalls in haemodynamic measurements
0945 Hands-on:
Revisiting CO, PAP
1030 **Morning break**
1045 Continuity equation and applications
- Valvular stenosis: effective orifice area
- Regurgitation volume / fraction
1115 Hands-on task 5: Continuity equation
1200 **Lunch**
1240 Tissue Doppler principles and measurements
1300 Assessing ventricular function by Doppler
1330 Hands-on task 6: TDI and Doppler in LV systolic function
- S' , MPI , dP/dt
1415 Assessing LV filling pressures
1500 **Afternoon break**
1515 Hands-on task 7: LV filling pressures
- E/A , e' , E/e'
- LAV
- $IVRT$ & $T_{E-e'}$
1615 Dynamic outflow obstruction
1645 Conclusion
1700 Finish