

Faculty

- Dr Anfernee Yim. HK
- Professor Stephen Huang, Sydney
- Other senior trainers from Australia and HK

Organisers:

- Nepean Institute of Critical Care Education & Research, Australia
- Intensive Care Subcommittee, HKCEM
- Clinical Training Center, HKAH -TW

Contact:

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

Registration: https:// niccer.asn.au

PIE

Practical Intermediate Echocardiography for Critical Care Hong Kong

Date: 22 – 23 November 2023 Where: HK Advventist Hospital – Tsuen Wan, Hong Kong Cost: AUD1,550

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, 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
 - Cardiac output measurement
 - o Pulmonary artery pressure estimation
 - Mean pressure gradient and pressure half-time
 - LV filling pressures inference
- Clinical topics:
 - o 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?

Participants should have **attended a basic level echo course**, *e.g.* RACE*plus*, 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.



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Hong Kong

Program

Day 1	
0900	Welcome and introduction
0915	Probe navigation in TTE views
0945	Hands-on warm-up: Probe navigation in TTE views
1030	Morning break
1050	Lectures:
	Doppler principles
	Cardiac output measurement
1145	
-	Lunch
1330	
	Pulmonary artery pressure estimation
	Tissue Doppler principles
1415	Hands-on: PAP estimation and tissue Doppler
1515	Afternoon break
1530	
1600	Hands-on: mean PG and PHT
1645	
1700	Finish
Day 2	
0900	Pitfalls in haemodynamic measurements
0940	Hands-on:
	Revisiting CO, PASP and tissue Doppler
1030	5
1045	Continuity equation and applications
	- aortic stenosis: effective orifice area
	- regurgitation volume / fraction
	- Septal defects: Qp:Qs
	Hands-on: Continuity equation
-	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
- 1515 Echo in shock
- 1545 Echo in cardiac arrest
- 1630 Q&A
- 1700 Finish