

Faculty

- Anfernee Yim, HK
- Cindy Tsui, HK
- Eunise Ho, HK
- Frank Ko, HK
- Gladys Kwan, HK
- Tammy Ma, HK
- Anthony McLean, Sydney
- Iris Ting, Sydney
- Stephen Huang, Sydney
- Vijeth Bhat, Newcastle







Intensive Care Subcommittee, HKCEM

Adventist 港

Health 安 Hong Kong Adventist Hospital · Tsuen Wan 香港港安醫院 · 荃灣 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: 21 - 22 November 2024 Where: HK Adventist Hospital – Tsuen Wan, Hong Kong Cost: AUD1,700 (early bird) (*AUD2,000 after 20 October 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 assessments using proper Doppler measurements
- Practitioners who want to prepare for advanced critical care echocardiography qualifications (e.g. EDEC, DDU).

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:
 - Revisiting anatomy and views in TTE, and probe navigation
 - Principles of Doppler & tissue Doppler
 - Cardiac output measurements by Doppler
 - The Bernoulli's equation and assumptions
 - Pulmonary artery pressure estimations
 - Tissue Doppler and applications
 - Mean pressure gradient, pressure half-time, and their applications in valvular assessments
 - The continuity equation and its applications
 - Assessing LV filling pressures
 - Different types of dynamic LV outflow obstructions
 - Pitfalls of Doppler measurements
- Case studies on Doppler applications in various clinical scenarios.

*Decided by local organiser

Who should attend?

Participants who **attended a basic level echo course**, *e.g.* RACE*plus*. We recommend you should have **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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Program

Day 1	
	Welcome and introduction
0900	Probe navigation in TTE views
	Hands-on warm-up: Probe navigation in TTE views
1030	
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 and measurements
1415	Hands-on: PAP estimation and tissue Doppler
	Afternoon break
	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
0945	Hands-on:
	Revisiting CO, PASP and tissue Doppler
	Morning break
1045	5 1 11
	- 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
1440	Dynamic outflow obstruction
	Afternoon break
1530	Fun with Doppler quiz

- 1600 Case studies
- 1650 Q&A
- 1700 Finish