



National University
Heart Centre
Singapore

NUHCS CARDIAC CRITICAL CARE MASTERCLASS

DAY 1

4TH APRIL 2025
(FRIDAY)

DAY 2

5TH APRIL 2025
(SATURDAY)

 **VENUE: NUHS TOWER BLOCK LEVEL 1, AUDITORIUM
1E KENT RIDGE ROAD, SINGAPORE 119228**

 **SGT 0900 - 1800**
REGISTRATION STARTS AT 0800

We invite you to the inaugural NUHCS Cardiac Critical Care Masterclass, designed for medical professionals seeking to elevate their expertise in the management of critically ill patients.

With a focus on cardiac emergencies, this comprehensive programme offers an in-depth exploration of foundational and advanced intensive care techniques, emphasising the multidisciplinary management of complex clinical scenarios including critical care nephrology, mechanical ventilation, and end-of life cases. Gain invaluable insights into the assessment, monitoring, and treatment of acute cardiac conditions, including cardiogenic shock, myocardial infarction, acute heart failure, cardiac arrest, and associated acute complications.

Through a blend of case discussions, evidence-based guidelines, and hands-on demonstrations, this masterclass is an exceptional avenue for specialists, intensivists, critical care nurses, allied health professionals, and medical officers to enhance their capacity in delivering exemplary care in high-stakes emergencies – all in making a significant impact to the lives of cardiac critical care patients.



www.nuhcs.com.sg



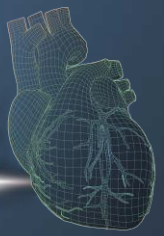
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in   : NUHCS



For any enquiries,
contact us at nuhcs@nuhs.edu.sg



Day One, 4 April 2025 (Friday)

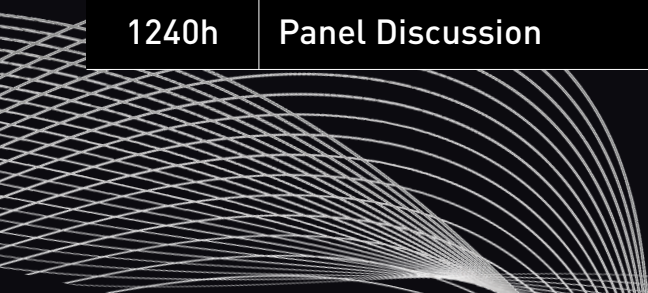
0800h	Registration, Networking & Refreshments
0900h	Welcome Speech by A/Prof James Yip, Executive Director, NUHCS
0915h	Opening Address by Dr Anand Ambhore, Course Director

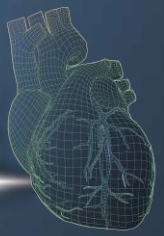
SESSION 1: CARDIAC EMERGENCIES

0920h	CHIP Procedures and Peri-Procedure Intensive Care Management
0940h	Electrical Storm – What Are My Options?
1000h	Paradigm Shift in Management of Acute Pulmonary Embolism
1020h	Mechanical Complications of AMI – A Surgeons' Perspective
1040h	Panel Discussion
1100h	Break

SESSION 2: CARADIOGENIC SHOCK

1120h	Overview of Cardiogenic Shock – Definitions and Classifications
1140h	Overview of Invasive Haemodynamics
1200h	Non-invasive Monitoring of Haemodynamics
1220h	Medical Therapy for Cardiogenic Shock – Role of Intravenous Vasoactive Agents
1240h	Panel Discussion





Day One, 4 April 2025 (Friday)

LUNCH AND HANDS-ON SESSIONS

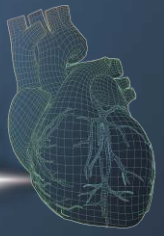
1300h	<ul style="list-style-type: none"> • cVAD • VA-ECMO Priming • Ultrafiltration 	<ul style="list-style-type: none"> • POCUS/Pericardiocentesis • IABP • Chest Tube Management
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SESSION 3: MECHANICAL CIRCULATORY SUPPORT

1400h	MCS Devices in Cardiogenic Shock – Tools in Our Shed
1420h	Overview of VA-ECMO – Indications and Complications
1440h	Introduction to the Catheter-based VAD (cVAD)
1500h	Echocardiography in Patients on MCS
1520h	Panel Discussion
1540h	Break

SESSION 4: MULTI-SYSTEM MANAGEMENT IN THE CORONARY CARE UNIT 1

1600h	The Medicine and Ethics of Medical Futility
1620h	Management of Physiological Difficult Airway in Critically-ill Patients
1640h	Diuresis and Mechanical Fluid Removal in the CCU
1700h	Critical Care Nephrology – A Primer for the Cardiac Intensivist
1720h	Nutrition for a CCU Patient
1740h	Panel Discussion
1800h	End of Day One



Day Two, 5 April 2025 (Saturday)

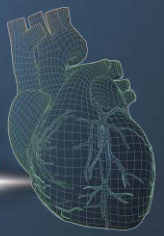
0800h **Registration, Networking & Refreshments**

SESSION 5: CARDIAC ARREST

0900h	Out-of-Hospital Collapse and Cardiac Arrest in Singapore
0920h	Targeted Temperature Management in Cardiac Arrest
0940h	Neuromonitoring/Neuroprognostication in Cardiac Arrest
1000h	The Role of E-CPR in 2025
1020h	Panel Discussion
1040h	Break

SESSION 6: MULTI-SYSTEM MANAGEMENT IN THE CORONARY CARE UNIT 2

1100h	Coagulation and Bleeding Disorders in the Cardiac Intensive Care Patient
1120h	Antibiotic Stewardship in the Cardiothoracic ICU (CTICU)
1140h	Drug Dosing Considerations in Extracorporeal Circuits
1200h	Role of Early Mobilisation in Cardiac Intensive Care Patients
1220h	Panel Discussion
1240h	Lunch and Booth Visitation



Day Two, 5 April 2025 (Saturday)

BREAKOUT SESSIONS:

1340h	Nurse-Led Spontaneous Breathing Trials and Extubation
1335h	Nursing Consideration in VA-ECMO
1410h	Nursing a Patient on cVAD
1425h	Nurse-led Compassionate Removal of Mechanical Ventilation in Cardiac Intensive Care
1440h	Panel Discussion

SESSION 7: END-OF-LIFE CARE AND ORGAN DONATION

1500h	End-of-Life and Bereavement Services in Cardiac Intensive Care
1520h	Brain Death Assessment and Organ Procurement in the CCU
1540h	Management of Brain-dead Donor in the Intensive Care Unit
1600h	Psychological and Social Support for Families Dealing with End-of-life and Organ Donation
1620h	Panel Discussion
1640h	Closing Statement by Course Director
1700h	End of Event, Networking Session

Click [here](https://for.sg) for pricing & registration:



<https://for.sg/nuhcs2025>