



1st SSMC Masterclass in Haemodynamics

Scan to register



30-31 May 2026



Auditorium, Level 3, Administration Building,
Sheikh Shakhbout Medical City, Abu Dhabi, United Arab Emirates



For more information, contact: info@nclworld.academy.

1st SSMC Masterclass in Haemodynamics



Dr. Maris Dubniks



Dr. Ali Al Shidi

Haemodynamics

Dear Colleagues,

Welcome to the first SSMC Masterclass in Haemodynamics. This programme was created with a clear goal: to bring together clinicians who manage the most critically ill patients and give them a space to deepen their understanding of cardiovascular physiology, refine their approach to haemodynamic monitoring, and sharpen decision-making in shock and circulatory failure.

Throughout the day, you'll engage with experts who live and breathe this field – through focused lectures, practical workshops, and real clinical cases that reflect the challenges we face at the bedside. Our aim is simple: to translate physiology into practice and strengthen the way we care for unstable patients.

We're glad to have you with us for this inaugural edition and look forward to the discussions, insights, and collaboration it will spark.

Thank you for being part of this first edition.

A handwritten signature in white ink, appearing to read 'Maris Dubniks'.

Dr. Maris Dubniks

Director, Haemodynamics Masterclass
Critical Care Consultant
Sheikh Shakhbout Medical City
Abu Dhabi, UAE

A handwritten signature in white ink, appearing to read 'Ali Al Shidi'.

Dr. Ali Al Shidi

Director, Haemodynamics Masterclass
Department Chair, Critical Care
Critical Care Consultant
Sheikh Shakhbout Medical City
Abu Dhabi, UAE

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Learning Objectives

- Comprehensive review of applied cardiovascular physiology, current concepts in haemodynamic monitoring, and the clinical management of patients with circulatory failure and shock.

Target Audience

- Critical care physicians
- Cardiologists
- Emergency physicians
- Fellows in critical care, cardiology, and emergency medicine

Organising Committee



Dr. Ali Al Shidi

Director, Haemodynamics Masterclass
Department Chair, Critical Care
Critical Care Consultant
Sheikh Shakhbout Medical City
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Dr. Maris Dubniks

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Dr. Julieta Hidalgo

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Dr. Usaama Sheikh

Critical Care Consultant
Sheikh Shakhbout Medical City
Abu Dhabi, UAE

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Scientific Committee



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Dr. Maris Dubniks

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Critical Care Consultant
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Dr. Antonio Messina

Professor at Humanitas
University
Chair of the Section of
Cardiovascular Dynamics, ESICM
Humanitas Research Hospital,
Milan, Italy



Dr. Yasser Sakr

Critical Care Consultant
Sheikh Shakhbout Medical City
Abu Dhabi, UAE



Dr. Khurram Khan

Critical Care Consultant
Sheikh Shakhbout Medical City
Abu Dhabi, UAE



Dr. Jihad Mallat

Professor of Medicine
Section Head Med/Surg ICU,
Critical Care Division
Cleveland Clinic Abu Dhabi, Abu
Dhabi, UAE



Dr. Fayez Al Shamsi

Assistant Professor
Consultant in Internal & Critical Care Medicine
United Arab Emirates University
Al Ain, UAE



Dr. Ahmed Taha

Clinical Assistant Professor,
Cleveland Clinic Lerner College of Medicine,
Case Western Reserve University
Cardiac Intensive Care - Institute of Critical Care
Cleveland Clinic Abu Dhabi, UAE

1st SSMC Masterclass in Haemodynamics



| Timing GST/UST | Saturday, 30 May 2026 | |
|--------------------|---|-------------------|
| DAY 1 | | |
| 7:30 - 8 a.m. | Registration | |
| SESSION 1 | | |
| 8 - 8:20 a.m. | Welcome and opening of the course | |
| 8:20 - 8:40 a.m. | Shock: classification, definition and epidemiology | Dr. Maris Dubniks |
| 8:40 - 9 a.m. | Shock physiology: CO, DO ₂ /VO ₂ , SvO ₂ . | |
| 9 - 9:20 a.m. | Lactate and pCO ₂ gap | Dr. Jihad Mallat |
| 9:20 - 9:40 a.m. | Blood pressure and tissue perfusion | Dr. Ahmed Taha |
| 9:40 - 10 a.m. | Microcirculation in shock | Dr. Yasser Sakr |
| 10 - 10:10 a.m. | Discussion | |
| 10:10 - 10:30 a.m. | COFFEE BREAK | |
| SESSION 2 | | |
| 10:30 - 10:50 a.m. | How to assess microcirculation on shock | Dr. Yasser Sakr |
| 10:50 - 11:10 a.m. | Starling and Guyton - MSFP and venous return | Dr. Maris Dubniks |
| 11:10 - 11:30 a.m. | Heart-lung interactions | Dr. Jihad Mallat |

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|-------------------------|---|---------------------|
| 11:30 - 11:50 a.m. | Kinetics of fluid bolus: where do fluids go? | Dr. Usaama Sheikh |
| 11:50 a.m. - 12:10 p.m. | Current concepts in fluid therapy: what do guidelines tell? | Dr. Fayez Al Shamsi |
| 12:10 - 12:30 a.m. | Fluid responsiveness: which test is the best? | Dr. Jihad Mallat |
| 12:30 - 12:40 a.m. | Discussion | |
| 12:40 - 1:30 p.m. | LUNCH BREAK | |
| SESSION 3 | | |
| 1:30 - 1:50 p.m. | Fluid challenge | Dr. Maris Dubniks |
| 1:50 - 2:10 p.m. | Fluid tolerance and venous congestion | Dr. Khurram Khan |
| 2:10 - 2:30 p.m. | Fluid overload, de-escalation and fluid removal | Dr. Fayez Al Shamsi |
| 2:30 - 2:50 p.m. | Vasopressors: when, which and how much? | Dr. Maris Dubniks |
| 2:50 - 3:10 p.m. | Inotropes: when, which and how much? | |
| 3:10 - 3:30 p.m. | Blood pressure: monitoring and targets | Dr. Fayez Al Shamsi |
| 3:30 - 3:40 p.m. | Discussion | |
| 3:40 - 4 p.m. | COFFEE BREAK | |

SESSION 4

| | | |
|------------------|--|---------------------|
| 4 - 4:20 p.m. | Cardiac output monitoring: why and when? | Dr. Maris Dubniks |
| 4:20 - 4:40 p.m. | Transpulmonary thermodilution and pulse contour analysis | Dr. Jihad Mallat |
| 4:40 - 5 p.m. | Pulmonary artery catheter | Dr. Hadi Skouri |
| 5 - 5:40 p.m. | Integral management of patient with shock | Dr. Antonio Messina |
| 5:40 - 5:50 p.m. | Discussion | |
| 5:50 p.m. | End of Day 1 | |

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| Timing GST/UST | Sunday, 31 May 2026 | |
|----------------------|---|-------------------|
| DAY 2 | | |
| 7:30 - 8 a.m. | Registration | |
| SESSION 5 | | |
| 8 - 8:20 a.m. | RV dysfunction in ARDS and sepsis | Dr. Ahmed Taha |
| 8:20 - 8:40 a.m. | RV dysfunction in cardiac critical care | |
| 8:40 - 9 a.m. | Cardiogenic shock - Cardiologists view | Dr. Hadi Skouri |
| 9 - 9:20 a.m. | Cardiogenic shock - Intensivists view | Dr. Maris Dubniks |
| 9:20 - 9:40 a.m. | Cardiogenic shock - when we go for ECMO? | Dr. Ahmed Taha |
| 9:40 - 10 a.m. | Pitfalls in haemodynamic management | Dr. Ali Al Shidi |
| 10 - 10:10 a.m. | Discussion | |
| 10:10 - 10:30 a.m. | COFFEE BREAK | |
| SESSION 6 | | |
| 10:30 - 11:10 a.m. | Undifferentiated shock: how ECHO can help? | Dr. Khurram Khan |
| 11:10 - 11:30 a.m. | Haemodynamic optimisation: understanding the evidence | Dr. Yasser Sakr |

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|-------------------------|--|--------------------------------------|
| 11:30 - 11:40 a.m. | Discussion | |
| 11:40 a.m. - 12:40 p.m. | Group A | Group B |
| | Simulation - Interactive case - Septic shock | Workshop - Fluid tolerance and VEXUS |
| | | Dr. Khurram Khan |
| 12:40 - 1:30 p.m. | LUNCH BREAK | |
| SESSION 7 | | |
| 1:30 - 2:30 p.m. | Group B | Group A |
| | Simulation - Interactive case - Septic shock | Workshop - Fluid responsiveness B |
| | | Dr. Jihad Mallat |
| 1:30 - 2:30 p.m. | Group A | Group B |
| | Simulation - Interactive case - Multifactorial shock | Workshop - Fluid responsiveness B |
| | | Dr. Jihad Mallat |
| 3:40 - 4 p.m. | COFFEE BREAK | |
| SESSION 8 | | |
| 4 - 5 p.m. | Group B | Group A |
| | Simulation - Interactive case - Multifactorial shock | Workshop - Fluid tolerance and VEXUS |
| | | Dr. Khurram Khan |
| 5 p.m. | Closing Remarks | |

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FACULTY

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Dr. Antonio Messina

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Chair of the Section of Cardiovascular Dynamics,
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Dr. Hadi Skouri

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Abu Dhabi, UAE



1st SSMC Masterclass in haemodynamics

This masterclass is designed to strengthen clinicians' understanding of cardiovascular physiology and enhance their ability to apply haemodynamic principles in the management of circulatory failure and shock. Through focused lectures, workshops, and case-based discussions, the program supports evidence-based decision-making and promotes improved patient outcomes in critical care practice.

Accreditation: The Masterclass will be accredited by



For further details please feel free to contact us :
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