

CESIMAB-HD: best practices in hemodynamics

11 - 15 December 2023

Bucharest

"CC Iliescu" Emergency Institute for Cardiovascular Diseases
&
Simulation Center of the University of Medicine and Pharmacy
"Carol Davila"

with international attendees' participation

Organizer



With the support of:



Event management:



Scientific program

CESIMAB-HD: best practices in hemodynamics (PART I, II & III)

Coordinators: Prof. Dr. Șerban Bubenek, Dr. Cosmin Bălan

PART I

Monday, 11.12.2023

13:00 – 15:40 **Module 1 - Cardiovascular Physiology**

13:00 – 13:10 **Welcome & Ice-breaking Activity**
Speaker: Prof Dr. Șerban Bubenek

13:10 – 13:40 **Cardiovascular Physiology 1**
Guytonian Regulation of CO
Speaker: Dr. Cornel Robu

Determinants of Venous Return
Speaker: Dr. Cornel Robu

13:40 – 14:10 **Cardiovascular Physiology 2**
Role of Venous Return in Different Shock States
Speaker: Dr. Cosmin Bălan

Role of Venous Return in Shock Pharmacotherapy
Speaker: Dr. Cosmin Bălan

Monitoring Venous Return Determinants
Speaker: Dr. Cosmin Bălan

14:10 – 14:50 **Cardiovascular Physiology 3**
Energetics – Basics of Pressure-Volume Loops
Speaker:
Dr. Cosmin Bălan

Energetics in Disease
Speaker:
Dr. Cosmin Bălan

Monitoring Energetics at the Bedside
Speaker:
Dr. Cosmin Bălan

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Energetics as a Therapeutic Endpoint

Speaker:

Prof Dr. Șerban Bubenek

14:50 – 15:10 Coffee break

15:10 – 15:40 Cardiovascular Physiology 4

Heart-Lung Interaction during Spontaneous Breathing

Speaker: Dr. Cosmin Bălan

Heart-Lung Interaction during Mechanical Ventilation

Speaker: Dr. Cosmin Bălan

Applied Heart-Lung Interaction

Speaker: Dr. Cosmin Bălan

15:40 – 18:30 Module 2 - Flow Monitoring in Shock

15:40 – 16:20 Cardiac Output Monitoring

Calibrated Techniques

Speaker: Prof Dr. Șerban Bubenek

Non-calibrated Techniques

Speaker: Prof Dr. Șerban Bubenek

16:20 – 16:50 Transpulmonary Thermodilution Techniques

Parameters

Speaker: Prof Dr. Șerban Bubenek

Pitfalls and Caveats

Speaker: Prof Dr. Șerban Bubenek

16:50 – 17:10 Coffee break

17:10 – 17:40 Shock – part 1

Definition, Types and Recognition

Speaker: Dr. Liana Văleanu

Clinical Indices of Tissue Malperfusion

Speaker: Dr. Liana Văleanu

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Laboratory Indices of Tissue Malperfusion

Speaker: Dr. Liana Văleanu

Microcirculatory Monitoring

Speaker: Dr. Liana Văleanu

17:40 – 18:00 Shock – part 2

How to diagnose

Speaker: Prof Dr. Șerban Bubenek

How to treat

Speaker: Prof Dr. Șerban Bubenek

18:00 – 18:30 Wrap-up – Clinically Significant Bedside Messages

Speaker: Dr. Cosmin Bălan

Tuesday 12.11.2023

13:00 – 13:10 Module 3 - Functional Hemodynamic Monitoring

13:00 – 13:10 Review of Day 1

Speaker: Dr. Cosmin Bălan

13:10 – 13:40 Fluid Responsiveness

Definition & Monitoring Tools

Speaker: Prof Dr. Șerban Bubenek

13:40 – 14:10 Fluid Tolerance

Definition & Monitoring Tools

Speaker: Dr. Bianca Moroșanu

14:10 – 14:40 Fluid Therapy Fundamentals

Structured Approach to Fluid Therapy – R.O.S.E./S.O.S.D. concept

Speaker: Dr. Cosmin Bălan

Functional Hemodynamic Monitoring during Fluid Removal

Speaker: Dr. Cosmin Bălan

14:40 – 15:00 Coffee break

15:00 – 16:30 Module 4 - Specific Cardiocirculatory Scenarios

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15:00 – 15:30 **Cardiogenic Shock**
Cardiopulmonary Monitoring
Speaker: Dr. Liana Văleanu

Cardiopulmonary Therapy
Speaker: Dr. Liana Văleanu

15:30 – 16:00 **Septic Shock**
Cardiopulmonary Monitoring
Speaker: Dr. Cornel Robu

Cardiopulmonary Therapy
Speaker: Dr. Cornel Robu

16:00 – 16:30 **ARDS**
Cardiopulmonary Monitoring
Speaker: Dr. Liana Văleanu

Cardiopulmonary Therapy
Speaker: Dr. Liana Văleanu

16:30 – 16:50 **Coffee break**

16:50 – 17:20 **The Difficult to Wean Patient**
Structured Approach to Weaning Failure
Speaker: Dr. Cosmin Bălan

Cardiopulmonary Monitoring of Weaning-Induced Pulmonary Oedema
Speaker: Dr. Cosmin Bălan

Cardiopulmonary Therapy of Weaning-Induced Pulmonary Oedema
Speaker: Dr. Cosmin Bălan

17:20 – 18:00 **Mechanical Cardiocirculatory Support Hemodynamics**
Techniques & Monitoring
Speaker: Prof. Dr. Șerban Bubenek

18:00 – 18:30 **Wrap-up – Clinically Significant Bedside Messages**
Speaker: Dr. Cosmin Bălan

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PART II

Wednesday, 13.12.2023

13:00 – 13:10 Opening of CESIMUS - ULTRASONOGRAPHY IN THE CRITICALLY ILL

Speaker: Prof. Dr. Șerban Bubenek

13:10 – 14:10 Transthoracic Echo (TTE) – views, measurements and patterns

Speakers:

Prof. Dr. Șerban Bubenek

Dr. Cosmin Bălan

14:10 – 14:25 Fluid responsiveness/tolerance

Speakers:

Prof. Dr. Șerban Bubenek

Dr. Bianca Moroșanu

14:25 – 14:40 Diastolic (dys)function

Speakers:

Prof. Dr. Șerban Bubenek

Dr. Liana Văleanu

14:40 – 15:00 Coffee Break

15:00 – 16:30 Hands-on TTE, 4 stations, 2 human models and 2 Heart-Works

Trainers:

Prof. Dr. Șerban Bubenek

Dr. Cosmin Bălan

Dr. Liana Văleanu

Dr. Bianca Moroșanu

Dr. Cornel Robu

16:30 – 17:00 Clinical cases – oral presentations

Speakers:

Dr. Liana Văleanu

Dr. Cornel Robu

17:00 – 17:10 Coffee Break

17:10 – 18:10 Hands-on TTE, 4 stations, 2 human models and 2 Heart-Works

Trainers:

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18:10 – 18:50 Cardiac Interact
Speaker: Dr. Cosmin Bălan

Thursday, 14.12.2023

13:00 – 13:10 Review of Day 1 - CESIMUS - ULTRASONOGRAPHY IN THE CRITICALLY ILL
Speaker: Dr. Cosmin Bălan

13:10 – 14:10 Lung Ultrasound (LUS)
Speaker: Prof. Dr. Șerban Bubenek

14:10 – 14:30 Vascular Ultrasound (VUS)
Speaker:
Prof. Dr. Șerban Bubenek
Dr. Bianca Moroșanu

14:30 – 15:40 Hands-on TTE + LUS , 4 stations, 2 human models, 2 Heart-Works
Trainers:
Prof. Dr. Șerban Bubenek
Dr. Cosmin Bălan
Dr. Liana Văleanu
Dr. Bianca Moroșanu
Dr. Cornel Robu

15:40 – 16:00 Coffee break

16:00 – 17:00 Hands-on TTE + LUS, 4 stations, 2 human models, 2 Heart-Works
Trainers:
Prof. Dr. Șerban Bubenek
Dr. Cosmin Bălan
Dr. Liana Văleanu
Dr. Bianca Moroșanu
Dr. Cornel Robu

16:00 – 16:40 Heart & Lung Interact
Speaker: Dr. Cosmin Bălan

16:40 – 17:40 Hands-on TTE + LUS, 4 stations, 2 human models, 2 Heart-Works
Trainers:
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17:40 – 18:00 Coffee break

18:00 – 18:50 Hands-on VUS & other needling interventions DEMO

Trainers:

Prof. Dr. Șerban Bubenek

Dr. Cosmin Bălan

Dr. Liana Văleanu

Dr. Bianca Moroșanu

Dr. Cornel Robu

PART III

Friday, 15.12.2023

08:30 – 10:30 Simulator Cases (LAERDAL-SIM MAN 3G and laptop/on-screen) 1

Trainers:

Prof. Dr. Șerban Bubenek

Dr. Cosmin Bălan

Dr. Liana Văleanu

Dr. Bianca Moroșanu

Dr. Cornel Robu

10:30 – 11:00 Coffee break

11:00 – 13:00 Simulator Cases (LAERDAL-SIM MAN 3G and laptop/on-screen) 2

Trainers:

Prof. Dr. Șerban Bubenek

Dr. Cosmin Bălan

Dr. Liana Văleanu

Dr. Bianca Moroșanu

Dr. Cornel Robu

13:00 – 13:30 Self-Assessment Test in Hemodynamics and CESIMUS

Trainers:

Prof. Dr. Șerban Bubenek

Dr. Cosmin Bălan

Dr. Liana Văleanu

Dr. Bianca Moroșanu

Dr. Cornel Robu