



ESICM
LIVES FORUM
UTRECHT
22-24 JUNE

For physicians, nurses, and other
allied healthcare professionals



The Intensive Connection

nvic
**nederlandse
vereniging voor
intensive care**



ACKNOWLEDGMENTS

ESICM & NVIC would like to wholeheartedly thank the following LIVES Forum Utrecht Sponsor:



ESICM & NVIC would like to wholeheartedly thank the following companies who support the three workshops:



Medical**Simulator**
INNOVACIÓN EN EDUCACIÓN

Thu 22 Jun
10:00 - 10:45

Welcome & registration workshops guests

Break

Thu 22 Jun
10:45 - 14:15

Haemodynamic Monitoring (upon pre-registration)

Case-Based Workshop

Moderator : X. Monnet (Le Kremlin-Bicêtre, France)

Director : X. Monnet (Le Kremlin-Bicêtre, France)

Objectives:

- Interpret TTE/TEE findings
- Understand the role of TTE/TEE in haemodynamic monitoring
- Describe haemodynamic monitoring with central venous pressure, the pulmonary artery catheter, transpulmonary thermodilution, bioreactance and volume clamp methods
- Remind the means for assessing tissue oxygenation and to discuss their drawbacks and advantages
- Discuss the practical use of different haemodynamic variables during clinical cases

10:45

Echo is all what I need!

A. Mekontso Dessap (Créteil, France)

11:05

Transpulmonary thermodilution or the pulmonary artery catheter?

X. Monnet (Le Kremlin-Bicêtre, France)

11:25

Q&A

11:35

Clinical assessment

G. Hernandez (Santiago, Chile)

11:45

Microcirculation

V. Edul (La Plata, Argentina)

12:05

Q&A

12:15

LUNCH BREAK

12:45

Clinical case: septic shock and ARDS

V. Edul (La Plata, Argentina), G. Hernandez (Santiago, Chile), M. Pinsky (Pittsburgh, United States of America), A. Mekontso Dessap (Créteil, France), S. Magder (Montreal, Canada)

Thu 22 Jun
10:45 - 14:15

ECMO (upon pre-registration)

Workshop

Instructors : M.V. Antonini (Cesena, Italy), J. Riera del Brio (Barcelona, Spain), A. Engstrom (Amsterdam, Netherlands), J. Hermens (Utrecht, Netherlands), D. De Backer (Braine-l'Alleud, Belgium), D. Donker (Utrecht, Netherlands)
Directors : M.V. Antonini (Cesena, Italy), J. Riera del Brio (Barcelona, Spain)

Objectives:

- V-V ECMO support management:
- 1. Indicate V-V ECMO in ARDS
 - 2. Indicate the adequate V-V cannulation strategy: double lumen vs single lumen
 - 3. Adjust blood and gas flow
 - 4. Identify and manage recirculation
 - 5. Identify and manage drainage insufficiency
 - 6. Wean the patient
- V-A ECMO support management:
- 1. Indicate V-A ECMO and ECPR in cardiogenic shock/cardiac arrest
 - 2. Indicate the adequate V-A cannulation strategy
 - 3. Adjust blood and gas flow
 - 4. Titrate drugs during support
 - 5. Indicate left ventricle unloading
 - 6. Identify and solve differential hypoxia
 - 7. Wean the patient

10:45

Welcome and introduction

10:55

Simulation on V-V ECMO and V-A ECMO

12:25

LUNCH BREAK

12:55

Simulation on V-V ECMO and V-A ECMO

Thu 22 Jun
10:45 - 14:15

ARDS from controlled ventilation to liberation (upon pre-registration)

Workshop

Instructors : K. Vaporidi (Heraklion, Greece), L. Rose (London, United Kingdom), A. Jonkman (Rotterdam, Netherlands), M. Schultz (Amsterdam, Netherlands)
Directors : L. Piquilloud (Lausanne, Switzerland), G. Grasselli (Milan, Italy)

Objectives:

- Assess ventilated patients with ARDS
- Set and optimise ventilation and optimise ventilation
- Interpret the meaning of chest wall and lung mechanics
- Recognise mechanical variables variables associated with outcome
- Safely manage the transition from conventional to assisted ventilation
- Assess recruitability and PEEP setting
- Personalise ventilation based on mechanics and Radiology
- Assess drive and effort in assisted ventilation
- Titrate sedation and support based on respiratory effort

10:45 **Welcome and introduction**

10:50 **Clinical case debate part I**

12:15 **LUNCH BREAK**

12:45 **Clinical case debate part II**

14:10 **Wrap up**

Thu 22 Jun
14:00 - 14:45

Welcome & registration conference guests

Break

Thu 22 Jun
14:45 - 14:50

Welcome & opening

Thematic Session

Speakers : I. Van der Horst (Maastricht, Netherlands), M. Cecconi (Milan, Italy), J. De Waele (Gent, Belgium)

Thu 22 Jun
14:50 - 16:10

Cardio-respiratory function: pathophysiological basis

Thematic Session

Moderators : V. Edul (La Plata, Argentina), G. Hernandez (Santiago, Chile)

14:50 **Mechanisms of hypoxaemia and hypercapnia: role of haemodynamics in shunt and deadspace**

M. Antonelli (Rome, Italy)

15:10 **Hypoxaemia in COVID-19: "is this ARDS that I see before me?"**
G. Grasselli (Milan, Italy)

15:30 **VILI: a vascular injury?**
N. Juffermans (Amsterdam, Netherlands)

15:50 **Venous return during mechanical ventilation**
S. Magder (Montreal, Canada)

Thu 22 Jun
16:10 - 16:28

e-Poster Session 1

Abstracts

Moderator : M. Schultz (Amsterdam, Netherlands)

16:10 **Fluid bronchogram, Does it really mean what we think it means? A case series of thirteen patients in which lung ultrasound showed a blood flow patterns on the known 'fluid bronchogram sign'**
M. Abdulhaleem Hamada (Winchester, United Kingdom)

Theme

Acute respiratory failure and mechanical ventilation

16:16 **Clinical readiness of virtual patient models for individualised mechanical ventilation: a systematic literature review**
R.S.P. Warnaar (Enschede, Netherlands)

Theme

Acute respiratory failure and mechanical ventilation

16:22 **Effect of High Protein Normo-caloric Nutrition on Skeletal Muscle Wasting in Critically ill Mechanical Ventilated Patients: A Randomized Double-Blind Study**
R.R. Bikash (New Delhi, India)

Theme

Acute respiratory failure and mechanical ventilation

Thu 22 Jun
16:10 - 16:40

Coffee break

Break

Thu 22 Jun
16:40 - 17:20

Fluid restriction in septic shock: good or bad option?

Debate

Moderators : L. Derde (Utrecht, Netherlands), I. Van der Horst (Maastricht, Netherlands)

16:40 **Fluid restriction in septic shock: good or bad option?**
M. Ostermann (London, United Kingdom), X. Monnet (Le Kremlin-Bicêtre, France), M. Cecconi (Milan, Italy)

Thu 22 Jun
17:20 - 18:00

Lung protective ventilation strategies and targets

Debate

Moderators : A. Vieillard-Baron (Boulogne-Billancourt, France), L. Piquilloud (Lausanne, Switzerland)

17:20 **Lung protective ventilation strategies and targets**
N. Juffermans (Amsterdam, Netherlands), M. Schultz (Amsterdam, Netherlands), M. Antonelli (Rome, Italy)

Friday 23 June

Fri 23 Jun
08:30 - 09:00

Welcome & registration conference guests

Break

Fri 23 Jun
09:00 - 10:40

Managing hypoxaemic respiratory failure

Thematic Session

Moderators : M. Ostermann (London, United Kingdom), A. Girbes (Amsterdam, Netherlands)

09:00 **Respiratory effort during non-invasive support: pulmonary and cardiovascular effects**
G. Grasselli (Milan, Italy)

09:20 **Patient-ventilator synchronisation and cardiac dysfunction**
K. Vaporidi (Heraklion, Greece)

09:40 **Does automation improve lung protection?**
M. Schultz (Amsterdam, Netherlands)

10:00 **Setting the ventilatory support to reduce the haemodynamic impact in ARDS**
A. Vieillard-Baron (Boulogne-Billancourt, France)

10:20 **Heart and lung interactions: don't forget the abdomen!**
J. De Waele (Gent, Belgium)

Fri 23 Jun
10:40 - 11:04

e-Poster Session 2

Abstracts

Moderator : S. Magder (Montreal, Canada)

10:40 **The effect of continuous magnesium administration on QTc interval in critically ill patients: a retrospective observational cohort study**
C. van Ginkel (Amsterdam, Netherlands)

Theme

Cardiovascular issues in ICU

10:46 **Long-term physical and mental health outcomes of critically ill covid-19 patients: A national cohort study from Malta**
N. Grech (Msida, Malta)

Theme

Acute respiratory failure and mechanical ventilation

10:52 **Neuropsychiatric sequelae do not depend on ECMO support nor on levels of consciousness during ECMO support**
L. Pladet (Utrecht, Netherlands)

Theme

Cardiovascular issues in ICU

10:58 **Ultrasound-based exploration of vasculature response to cuff-based perturbation**
A. Barbagini (Eindhoven, Netherlands)

Theme

Cardiovascular issues in ICU

Fri 23 Jun
10:40 - 11:10

Coffee break

Break

Fri 23 Jun
11:10 - 12:30

Extracorporeal support in respiratory and cardiac failure: the challenge

Thematic Session

Moderators : J. Kesecioglu (Utrecht, Netherlands), M. Ostermann (London, United Kingdom)

11:10 **ECMO in ARDS: gas exchange and haemodynamic effects**
A. Combes (Paris, France)

11:30 **Extracorporeal support in moderate and severe ARDS**
J. Riera del Brio (Barcelona, Spain)

11:50 **Regional oxygenation during VA-ECMO**
A. Combes (Paris, France)

12:10 **Extracorporeal CPR for cardiac arrest**
M. Van De Poll (Maastricht, Netherlands)

Fri 23 Jun
12:30 - 13:50

Lunch break
Break

Fri 23 Jun
13:50 - 15:30

Cardio-respiratory crosstalk in specific conditions
Thematic Session

Moderators : A. Jonkman (Rotterdam, Netherlands), A. Mekontso Dessap (Créteil, France)

13:50 **Cardiovascular complications resulting from weaning: what is the evidence?**
L. Rose (London, United Kingdom)

14:10 **Management of patients with pulmonary hypertension**
M. Pinsky (Pittsburgh, United States of America)

14:30 **Pulmonary and systemic haemodynamics in acute asthma**
S. Magder (Montreal, Canada)

14:50 **Oesophageal pressure or vascular pressure to assess inspiratory effort?**
L. Piquilloud (Lausanne, Switzerland)

15:10 **Mechanical support for high risk pulmonary embolism**
D. Donker (Utrecht, Netherlands)

Fri 23 Jun
15:30 - 16:50

Fluids and vasopressors
Thematic Session

Moderators : K. Vaporidi (Heraklion, Greece), M. Schultz (Amsterdam, Netherlands)

15:30 **The consequences of fluid accumulation in ARDS**
M. Ostermann (London, United Kingdom)

15:50 **How to reduce the fluid balance in ARDS?**

D. De Backer (Braine-l'Alleud, Belgium)

16:10 **Early norepinephrine administration to reduce the fluid balance in septic shock**

J.L. Teboul (Le Kremlin-Bicêtre, France)

16:30 **Fluid therapy and the microcirculation**

V. Edul (La Plata, Argentina)

Fri 23 Jun
16:50 - 17:08

e-Poster Session Best Abstracts

Abstracts

Moderator : J. De Waele (Gent, Belgium)

16:50 **A computational platform for virtual patient trials of fluid responsiveness prediction in septic shock phenotypes**

M.P. Mulder (Enschede, Netherlands)

Theme

Cardiovascular issues in ICU

16:56 **Diagnostic accuracy of ROX HR index- in predicting HFNC outcome in adult patients with hypoxic respiratory failure – prospective observational study**

R. Shameem (Thiruvananthapuram, India)

Theme

Acute respiratory failure and mechanical ventilation

17:02 **Cardiac dysfunction after brain death supported with VA-ECMO as a bridge to myocardial recovery. Can we increase effective heart donation?**

Á. Barranco de Santiago (Barcelona, Spain)

Theme

Cardiovascular issues in ICU

Fri 23 Jun
16:50 - 17:20

Coffee break

Break

Fri 23 Jun
17:20 - 18:00

Revisiting "optimal PEEP": heart and lung at a crossroad

Debate

Moderators : A. Vieillard-Baron (Boulogne-Billancourt, France), M. Schultz (Amsterdam, Netherlands)

17:20 **Revisiting "optimal PEEP": heart and lung at a crossroad**
A. Jonkman (Rotterdam, Netherlands), G. Grasselli (Milan, Italy), A. Mekontso Dessap (Créteil, France)

Fri 23 Jun
18:00 - 18:40

What is the optimal haemodynamic monitoring for ARDS patients?

Debate

Moderators : V. Edul (La Plata, Argentina), I. Van der Horst (Maastricht, Netherlands)

18:00 **What is the optimal haemodynamic monitoring for ARDS patients?**
G. Hernandez (Santiago, Chile), A. Vieillard-Baron (Boulogne-Billancourt, France), X. Monnet (Le Kremlin-Bicêtre, France)

Fri 23 Jun
18:40 - 18:45

Break

Break

Fri 23 Jun
18:45 - 19:30

Forty-three dimensions of Intensive Care Medicine: evolution & enterprise

Keynote Lecture

18:45 **Forty-three dimensions of Intensive Care Medicine: evolution & enterprise**
J. Kesecioglu (Utrecht, Netherlands)

Fri 23 Jun
19:30 - 21:30

Cocktail party

Networking

Saturday 24 June

Sat 24 Jun
08:30 - 09:00

Welcome & registration conference guests

Break

Sat 24 Jun
09:00 - 10:20

Advanced cardio-respiratory monitoring

Thematic Session

Moderators : L. Derde (Utrecht, Netherlands), P. de Feiter (Rotterdam, Netherlands)

09:00 **Heart-lung interactions: the pathophysiological basis**
M. Pinsky (Pittsburgh, United States of America)

09:20 **Monitoring of heart-lung interactions: how I use echocardiography**
A. Mekontso Dessap (Créteil, France)

09:40 **Monitoring of heart-lung interactions: how I use advanced haemodynamic monitoring**
D. De Backer (Braine-l'Alleud, Belgium)

10:00 **How ventilation helps assessing fluid responsiveness**
X. Monnet (Le Kremlin-Bicêtre, France)

Sat 24 Jun
10:20 - 10:50

Coffee break

Break

Sat 24 Jun
10:50 - 11:30

Recruitment manoeuvre in ARDS: what are the costs?

Debate

Moderators : A. Jonkman (Rotterdam, Netherlands), M. Schultz (Amsterdam, Netherlands)

10:50 **Recruitment manoeuvre in ARDS: what are the costs?**
K. Vaporidi (Heraklion, Greece), D. Donker (Utrecht, Netherlands), J. Kesecioglu (Utrecht, Netherlands)

Sat 24 Jun
11:30 - 12:10

Should we use balanced solution for all patients?

Debate

Moderators : N. Juffermans (Amsterdam, Netherlands), L. Derde (Utrecht, Netherlands)

11:30 **Should we use balanced solution for all patients?**
V. Edul (La Plata, Argentina), A. Girbes (Amsterdam, Netherlands), G. Hernandez (Santiago, Chile)

Sat 24 Jun
12:10 - 12:15

Closing

Thematic Session

Speakers : I. Van der Horst (Maastricht, Netherlands), J. De Waele (Gent, Belgium)