



16TH INTERNATIONAL CONGRESS OF INTENSIVE CARE MEDICINE

Zagreb, 14.-15. 03. 2025.





ORGANISERS

Croatian Medical Council - www.hlz.hr

Croatian Society for Intensive Care Medicine - hdim.hlz.hr

Clinical department for anesthesiology, resuscitation and intensive care medicine, University hospital *Dubrava*, Zagreb, Croatia - www.kbd.hr

University of Zagreb, School of dental medicine - sfzg.unizg.hr

ORGANISING COMMITTEE

President: Jasminka Peršec

Members: Nikola Bradić, Tomislav Breitenfeld, Gordana Brozović, Stoja Erić, Edita Grbavac, Ivana Haršanji Drenanjčević, Vjeran Leventić, Irena Sokolović Jurinjak, Sanda Stojanović Stipić, Andrej Šribar

SCIENTIFIC COMMITTEE

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Members: Matthias Heringlake, Gordana Jovanović, Rihard Knafelj, Milica Lukić, Višnja Neseck Adam, Zdravka Poljaković - Skurić, Radmila Popović, Slavenka Štraus





16th INTERNATIONAL CONGRESS OF INTENSIVE CARE MEDICINE

Zagreb, 14.-15. 03. 2025.

Dear colleagues,

It is my great honor and pleasure to welcome you to the 16th International Congress of Intensive Care Medicine, which is held in Zagreb at the Sheraton Hotel from March 14th to 15th, 2025., and is organized by the Croatian Society of Intensive Care Medicine of the Croatian Medical Association.

The Croatian Society of Intensive Care Medicine has been maintaining the continuity of professional and scientific education for many years, always striving to bring new knowledge to its members, whose implementation has consistently contributed to the advancement of intensive care medicine.

The main topics of the congress are:

1. Artificial Intelligence in Intensive Care Medicine
2. End of Life Care in Intensive Care Units
3. State-of-the-art Mechanical Ventilation

Besides these main topics, we will strive to cover a wide range of important areas in intensive care medicine: updates in hemodynamic monitoring, sepsis and blood purification, infections in intensive care units, fluid replacement, coagulopathies, updates in analgesia and sedation and new strategies and opportunities in intensive care units.

In addition to invited lectures by top domestic and international experts, the Congress also features a special section for short oral presentations.

The official languages of the Congress are Croatian and English. The event will be accredited according to the regulations of the Croatian Medical Chamber. Participation in the congress is free of charge for residents.

We are honored that you have decided to grace this event with your participation so that we may contribute to better and stronger connections in intensive care medicine, as the exchange of knowledge and experience always leads to our ultimate common success.

We look forward to your participation in the Congress and cordially welcome you!

Congress chairwoman:

President of the Croatian Society for Intensive Care Medicine

Prof. Jasminka Peršec, MD, PhD





INVITED LECTURERS

Ball Lorenzo, MD, PhD, Asst. Prof., Department of surgical sciences and integrated diagnostics, University of Genova, **Italy**

Bandić Pavlović Daniela, MD, PhD, Assoc. Prof., Clinical department for anesthesiology, reanimatology, intensive care medicine and pain therapy, University Hospital Centre Zagreb, **Croatia**

Blažević Nikola, MD, Clinical department for neurology, University Hospital Center Zagreb, **Croatia**

Bradić Nikola, MD, Prim., Clinical department for anesthesiology, reanimatology and intensive care medicine, University Hospital *Dubrava*, Zagreb, **Croatia**

Breitenfeld Tomislav, MD, PhD, Prof., Clinical department for neurology, University Hospital Centre *Sestre Milosrdnice*, Zagreb, **Croatia**

Bojić Suzana, MD, PhD, Asst. Prof., Clinical department for anaesthesiology, intensive care medicine and pain therapy, Clinical Hospital Centre *Dr. D. Mišović Dedinje*, Belgrade, **Serbia**

Budišić Mislav, MD, Clinical department for neurology, University Hospital Centre *Sestre Milosrdnice*, Zagreb, **Croatia**

Crnjaković Miljenko, MD, PhD, Clinical department for neurology, University Hospital *Dubrava*, Zagreb, **Croatia**

Divjak Loredana, MD, Clinical department for anesthesiology, reanimatology, intensive care medicine and pain therapy, University Hospital Centre Zagreb, **Croatia**

Esquinas Antonio M., MD, PhD, FCCP, FNIV, President of international association, academy and college of NIV, Department of intensive care medicine, Hospital *Morales Meseguer*, Murcia, **Spain**

Gardiner Dale, MD, Department of intensive care medicine, Nottingham University Hospital NHS Trust, Nottingham, **UK**

Gurbeta Pokvić Lejla, MEE, PhD, Verlab research institute for biomedical engineering, medical devices and artificial intelligence, Sarajevo, **Bosnia and Herzegovina**

Haršanji Drenjančević Ivana, MD, PhD, Asst. Prof., Clinical department for anesthesiology, resuscitation, critical care and pain treatment, University Hospital Centre *Osijek*, **Croatia**


Heringlake Matthias, MD, PhD, Prof., Department for anesthesiology and intensive care medicine, Karlsburg Hospital, Karlsburg, **Germany**


Ivory Ben, MD, National education lead for organ donation, Department of intensive care and anaesthesia, Torbay and South Devon NHS Foundation Trust, Torquay, **UK**

Jerbić Bojan, PhD, Academic, FCA, University of Zagreb Faculty of mechanical engineering and naval architecture, Regional center of excellence for robotic technologies, RONNA Medical Ltd., Zagreb, **Croatia**

Jovanović Gordana, MD, PhD, Prof., Clinical department for anesthesiology, resuscitation, critical care and pain treatment, Clinical Center of Vojvodina, Novi Sad, **Serbia**

Kereš Tatjana, MD, PhD, Department of internal intensive care medicine, Clinical department for internal medicine, University Hospital *Dubrava*, Zagreb, **Croatia**





Knafelj Rihard, MD, PhD, Department of internal intensive care medicine, Clinical department for internal medicine, University Medical Centre Ljubljana, **Slovenia**

Kristek Gordana, MD, PhD, Asst. Prof., Clinical department for anesthesiology, resuscitation, critical care and pain treatment, University Hospital Centre Osijek, **Croatia**

Kvolik Slavica, MD, PhD, Prof., Clinical department for anesthesiology, resuscitation, critical care and pain treatment, University Hospital Centre Osijek, **Croatia**

Leventić Vjeran, MD, Clinical department for anesthesiology, resuscitation, critical care and pain treatment, University Hospital Centre Osijek, **Croatia**

Lukić Milica, MD, President of the Slovenian Society of Intensive Care Medicine, Department of internal intensive care medicine, Clinical department for internal medicine, University Medical Centre Ljubljana, **Slovenia**

Merc Vlasta, MD, Clinical department for anesthesiology, reanimatology and intensive care medicine, University Hospital *Dubrava*, Zagreb, **Croatia**

Merčep Iveta, MD, PhD, Prof., Clinical department of internal medicine, University Hospital Centre Zagreb, **Croatia**

Nesek Adam Višnja, MD, PhD, Prof., President of the Croatian Society of Emergency Medicine, Clinical department for anesthesiology, resuscitation and intensive care, Clinical Hospital *Sveti Duh*, Zagreb, **Croatia**

Ostović Helena, MD, PhD, Clinical department for anesthesiology, reanimatology and intensive care medicine, University Hospital *Dubrava*, Zagreb, **Croatia**

Peršec Jasminka, MD, PhD, Assoc. Prof., President of the Croatian Society for Intensive Care Medicine, Clinical department for anesthesiology, reanimatology and intensive care medicine, University Hospital *Dubrava*, Zagreb, **Croatia**

Poljaković - Skurić Zdravka, MD, PhD, Prof., President of the Croatian Neurological Society, Clinical department for neurology, University Hospital Center Zagreb, **Croatia**

Popović Radmila, MD, PhD, Assoc. Prof., Clinical department for anesthesiology and intensive care medicine, Clinical Center of Vojvodina, Novi Sad, **Serbia**


Roje Bedeković Marina, MD, PhD, Assoc. Prof., Clinical department for neurology, University Hospital Centre *Sestre Milosrdnice*, Zagreb, **Croatia**


Schultz Marcus, MD, PhD, Prof., Professor of Experimental Intensive Care, Faculty of Medicine, University of Amsterdam, **Netherlands**

Stojanović Stipić Sanda, MD, PhD, Asst. Prof., Clinical department for anesthesiology, reanimatology and intensive care medicine, University Hospital Centre Split, **Croatia**

Szułdrzynski Konstanty, MD, PhD, Prof., Clinical department for anesthesiology and intensive care medicine, Medical Institute Warsaw, **Poland**

Škiljić Sonja, MD, Clinical department for anesthesiology, resuscitation, critical care and pain treatment, University Hospital Centre Osijek, **Croatia**





Šribar Andrej, MD, PhD, Asst. Prof., Clinical department for anesthesiology, reanimatology and intensive care medicine, University Hospital *Dubrava*, Zagreb, **Croatia**

Štajduhar Andrija, MM, PhD, Asst. Prof., Department of medical statistics, epidemiology and medical informatics, Zagreb University School of Medicine, Zagreb, **Croatia**

Štraus Slavenka, MD, PhD, Prof., Clinical department for anesthesiology and reanimatology, Clinical Center of University of Sarajevo, **Bosnia and Herzegovina**

Tomić Mahečić Tina, MD, PhD, Clinical department for anesthesiology, reanimatology, intensive care medicine and pain therapy, University Hospital Centre Zagreb, **Croatia**


Unić Stojanović Dragana, MD, PhD, Asst. Prof., University of Belgrade School of Medicine, Institute for cardiovascular diseases *Dedinje*, Belgrade, **Serbia**

Utku Tughan, MD, B. Phil., Prof., President of the Turkish Society of Intensive Care, Department of anaesthesiology and reanimation, Yeditepe University, Istanbul, **Turkey**

Vrbanović Mijatović Vilena, MD, PhD, Asst. Prof., President of the Croatian Society for Regional Anesthesia and Analgesia, Clinical department for anesthesiology, reanimatology, intensive care medicine and pain therapy, University Hospital Centre Zagreb, **Croatia**

Vučić Marinko, MD, PhD, Asst. Prof., Department for anesthesiology, intensive care medicine and pain medicine, University Hospital Centre *Sestre Milosrdnice*, Zagreb, **Croatia**

Županić Sven, MD, Clinical department for neurology, University Hospital *Dubrava*, Zagreb, **Croatia**





PROGRAMME

Friday, 14.03.2025.

08⁰⁰ - 09⁰⁰ **Registration**

Grand Ballroom / Section A

09⁰⁰ - 09¹⁰ **Jasminka Peršec** Opening word
*Congress chair and
president of CroSICM*

Grand Ballroom / Section A

Session 1. State of the art mechanical ventilation

Moderators: Marcus Schultz, Konstanty Szułdrzynski

09¹⁰ - 09²⁵ **Marcus Schultz** Mechanical ventilation - State of the Art

09²⁵ - 09⁴⁰ **Rihard Knafelj** Weaning strategies in 2024 - what does evidence-based medicine have to say?

09⁴⁰ - 09⁵⁵ **Antonio M. Esquinas** Ventilatory approaches in weaning from mechanical ventilation - novel strategies in difficult weaning

09⁵⁵ - 10¹⁰ **Andrej Šribar** Right ventricle in ARDS- the lesser known collateral victim

10¹⁰ - 10²⁰ **Q&A**

GE HealthCare satellite symposium

10²⁰ - 10³⁵ **Konstanty Szułdrzynski** Lung Protective Ventilation in ICU

10³⁵ - 10⁵⁰ **Lorenzo Ball** Lung protective Ventilation in the OR

10⁵⁰ - 11⁰⁰ **Q&A**

Grand Ballroom / Section A


Session 2. Artificial intelligence in intensive care medicine

Moderators: Bojan Jerbić, Andrija Štajduhar

11⁰⁰ - 11¹⁵ **Bojan Jerbić** AI is Changing Medical Robotics

11¹⁵ - 11³⁰ **Marcus Schultz** Automated ventilation - Effective and Efficient?





11³⁰ - 11⁴⁵

Lejla Gurbeta Pokvić

How technology is helping save lives?

11⁴⁵ - 12⁰⁰

Andrija Štajduhar

Application of machine learning to improve outcomes in intensive care medicine

12⁰⁰ - 12¹⁵

Višnja Neseck Adam

Artificial Intelligence for Early Sepsis Detection: From Concept to Clinical Implementation

12¹⁵ - 12³⁰

Suzana Bojić

The Future of Pain Assessment in Critical Care: AI Technologies and Patient Outcomes

12³⁰ - 12⁴⁵

Q&A

12⁴⁵ - 13¹⁵

Coffee break

Grand Ballroom / Section A

Session 3. Advances in cardiac care in the ICU

Moderators: *Matthias Heringlake, Dragana Unić-Stojanović*

13¹⁵ - 13³⁰

Matthias Heringlake

Levosimendan in Cardiac Surgery - revisited

13³⁰ - 13⁴⁵

Nikola Bradić

Protective Hemodynamics in Critically Ill

13⁴⁵ - 14⁰⁰

Dragana Unić-Stojanović

Beta-blockers in sepsis: fact or myth?

14⁰⁰ - 14¹⁵

Jasminka Peršec

Early multimodal vasopressor strategy - which patient could benefit most?

14¹⁵ - 14³⁰

Q&A

14³⁰ - 15³⁰

Congress lunch

Grand Ballroom / Section A

Session 4. In the critically ill, complex problems need modern solutions

Moderators: *Milica Lukić, Tughan Utku*

15³⁰ - 15⁴⁵

Tughan Utku

Your acid-base world is as wide as the evaluation method you choose

15⁴⁵ - 16⁰⁰

Slavenka Štraus

Fluid management in critically ill patients

16⁰⁰ - 16¹⁵

Gordana Jovanović

Corticosteroids in sepsis and ARDS

16¹⁵ - 16³⁰

**Ivana Haršanji
Drenjančević**

Empiric antibiotics therapy in the ICU in the era of MDRO

16³⁰ - 16⁴⁵

Milica Lukić

Management of severe respiratory infections in critically ill immunocompromised patients

16⁴⁵ - 17⁰⁰

Alen Protić

Ultrasound guided invasive procedures in ICU

17⁰⁰ - 17¹⁵

Q&A



Grand Ballroom / Section A

Session 5.

Fresenius Kabi satellite symposium:

Snaga za život: utjecaj mišićne mase, snage i funkcije na klinički ishod kritično oboljelih

Strength for life: impact of muscle mass, strength and function on clinical outcomes in the critically ill

Moderator: *Jasminka Peršec*

17¹⁵ - 17²⁵

**Vilena Vrbanović
Mijatović**

Intensive care unit-acquired weakness

17²⁵ - 17³⁵

Loredana Divjak

Nutritional challenges in a long-stay ICU patient with sarcopenia

17³⁵ - 17⁴⁵

Q&A

Grand Ballroom / Section A

Session 6.

Preporuke za liječenje perioperacijskog krvarenja i koagulopatije

Guidelines for treatment of perioperative bleeding and coagulopathy

17⁴⁵ - 18¹⁵

Moderator: *Tina Tomić Mahečić*

Participants: Mirna Bobinac, Ivona Hanžek, Višnja Ikić, Dora Karmelić, Sonja Krofak, Milica Liker, Petar Martinović, Višnja Neseck Adam, Krešimir Reiner, Sanda Stojanović Stipičić, Vera Tomas

Oral presentations

Session A

Lecture hall Rovinj

Moderators: *Mileva Frankić, Tatjana Kereš*

15³⁰ - 15⁴⁰

Danijela Milenković

Strategies for bleeding management in patients receiving DOACs when no antidote is available - a case report

15⁴⁰ - 15⁵⁰

Miloš Kosorić

Foreign body aspiration in lower airways in early-onset parkinson's disease: A case report

15⁵⁰ - 16⁰⁰

Mileva Frankić

Nutrition in patients with CRRT

16⁰⁰ - 16¹⁰

Marcela Čučković

Ultrasound guided assessment of the diaphragm in predicting weaning success

16¹⁰ - 16²⁰

Ivan Vuksan

Efficacy of a novel abbreviated lung ultrasound protocol in critically ill patients: A comparative study with the Baciarello protocol

16²⁰ - 16³⁰

Ivan Bandić

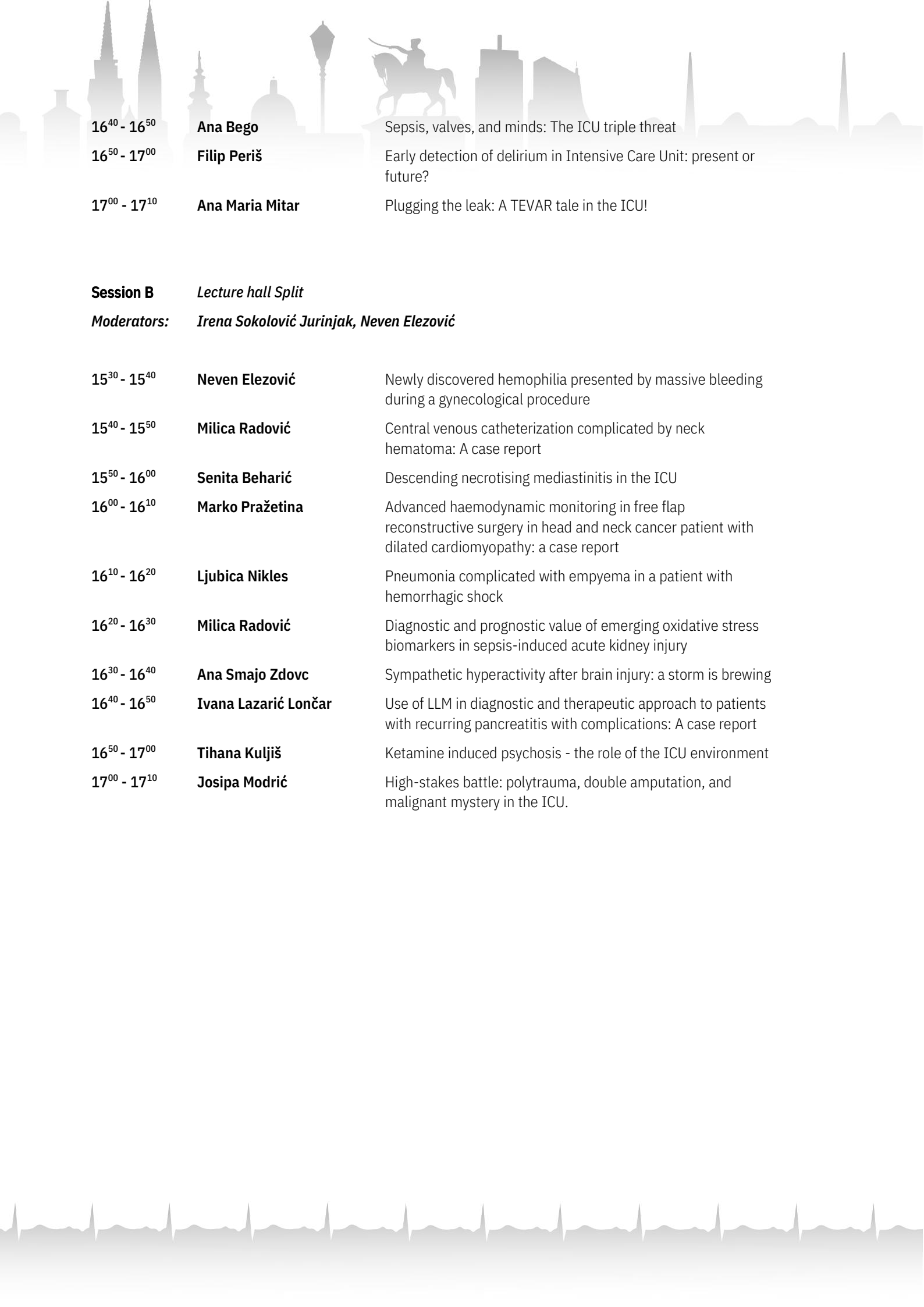
Conflicting strategies in management of an ARDS patient with airway leak - A case report

16³⁰ - 16⁴⁰

Jerko Vičić

Dilute me, confuse me!





16⁴⁰ - 16⁵⁰

Ana Bego

Sepsis, valves, and minds: The ICU triple threat

16⁵⁰ - 17⁰⁰

Filip Periš

Early detection of delirium in Intensive Care Unit: present or future?

17⁰⁰ - 17¹⁰

Ana Maria Mitar

Plugging the leak: A TEVAR tale in the ICU!

Session B

Lecture hall Split

Moderators:

Irena Sokolović Jurinjak, Neven Elezović

15³⁰ - 15⁴⁰

Neven Elezović

Newly discovered hemophilia presented by massive bleeding during a gynecological procedure

15⁴⁰ - 15⁵⁰

Milica Radović

Central venous catheterization complicated by neck hematoma: A case report

15⁵⁰ - 16⁰⁰

Senita Beharić

Descending necrotising mediastinitis in the ICU

16⁰⁰ - 16¹⁰

Marko Pražetina

Advanced haemodynamic monitoring in free flap reconstructive surgery in head and neck cancer patient with dilated cardiomyopathy: a case report

16¹⁰ - 16²⁰

Ljubica Nikles

Pneumonia complicated with empyema in a patient with hemorrhagic shock

16²⁰ - 16³⁰

Milica Radović

Diagnostic and prognostic value of emerging oxidative stress biomarkers in sepsis-induced acute kidney injury

16³⁰ - 16⁴⁰

Ana Smajo Zdovc

Sympathetic hyperactivity after brain injury: a storm is brewing

16⁴⁰ - 16⁵⁰

Ivana Lazarić Lončar

Use of LLM in diagnostic and therapeutic approach to patients with recurring pancreatitis with complications: A case report

16⁵⁰ - 17⁰⁰

Tihana Kuljiš

Ketamine induced psychosis - the role of the ICU environment

17⁰⁰ - 17¹⁰

Josipa Modrić

High-stakes battle: polytrauma, double amputation, and malignant mystery in the ICU.



Saturday, 15.03.2025.

Grand Ballroom / Section A

Session 7. End of life care in the ICU

Moderators: *Dale Gardiner, Vjeran Leventić*

09 ⁰⁰ - 09 ²⁰	Vlasta Merc & Vjeran Leventić	End-of-Life Care in Croatia: Where Are We, and What Do We Need To Learn?
09 ²⁰ - 10 ⁰⁰	Ben Ivory	Breaking Bad News as a Shakespearean Tragedy: A Structured Approach
10 ⁰⁰ - 10 ⁴⁰	Dale Gardiner	Moral Balance: Practical Ethical Decision Making
10 ⁴⁰ - 11 ¹⁰	Q&A	
11 ¹⁰ - 11 ⁴⁰	Coffee break	

Grand Ballroom / Section A

Session 8. What's new in neurocritical care


Moderators: *Zdravka Poljaković, Tomislav Breitenfeld*


11 ⁴⁰ - 11 ⁵⁵	Zdravka Poljaković - Skurić	Tenecteplase or alteplase in treatment of acute ischemic stroke?
11 ⁵⁵ - 12 ¹⁰	Mislav Budišić	Endovascular treatment of SAH related vasospasm
12 ¹⁰ - 12 ²⁵	Marina Roje Bedeković	MIS in ICH
12 ²⁵ - 12 ⁴⁰	Marinko Vučić	Anaesthetic procedures in neurointerventional procedurs
12 ⁴⁰ - 12 ⁵⁵	Miljenko Crnjaković	Brain ultrasound in the ICU
12 ⁵⁵ - 13 ¹⁰	Nikola Blažević	Clopidogrel vs ticagrelor as platelet antiaggregation therapy after carotid artery stenting
13 ¹⁰ - 13 ²⁵	Sven Županić	Status epilepticus in the ICU
13 ²⁵ - 13 ⁴⁰	Q&A	

Grand Ballroom / Section A

Providens satellite symposium

13 ⁴⁰ - 13 ⁵⁵	Jasminka Peršec	The silence of chaos: How to slow down time when seconds matter?
13 ⁵⁵ - 14 ⁰⁵	Q&A	





14⁰⁵ - 15⁰⁵

Congress lunch

Grand Ballroom / Section A

Session 9. Critically ill patient as a whole

Moderators: *Sanda Stojanović Stipić, Daniela Bandić Pavlović*

15 ⁰⁵ - 15 ²⁰	Sanda Stojanović Stipić	The ICU hangover: Battling weakness after critical illness
15 ²⁰ - 15 ³⁵	Iveta Merčep	Challenges and possibilities in treatment of complex MDR infections
15 ³⁵ - 15 ⁵⁰	Daniela Bandić Pavlović	Sepsis and personalized immunotherapy
15 ⁵⁰ - 16 ⁰⁵	Radmila Popović	Use of albumin in critically ill patients
16 ⁰⁵ - 16 ²⁰	Helena Ostović	Gastrointestinal dysfunction in critically ill patients
16 ²⁰ - 16 ³⁰	Q&A	

Lecture hall Split

Session 10. Controversies in intensive care medicine

Moderators: *Gordana Jovanović, Gordana Kristek*


15 ⁰⁵ - 15 ²⁰	Gordana Kristek	Inhaled heparin in the treatment of acute lung injury
15 ²⁰ - 15 ³⁵	Slavica Kvolik	Are there early warning signs for infection in surgical ICU patients?
15 ³⁵ - 15 ⁵⁰	Tatjana Kereš	End-of-life care in internal medicine ICU
15 ⁵⁰ - 16 ⁰⁵	Sonja Škiljić	Unfractionated heparin with N-acetylcysteine as an adjuvant inhalational therapy in the setting of acute respiratory distress syndrome- case report
16 ⁰⁵ - 16 ¹⁵	Q&A	


Oral presentations

Session C *Lecture hall Rovinj*

Moderators: *Nikola Bradić, Nina Novak Fumić*

11 ⁴⁰ - 11 ⁵⁰	Belma Kadić	Prolonged protective tracheostomy in hemodynamically unstable patients: A case report
11 ⁵⁰ - 12 ⁰⁰	Nina Vico Katanić	Management of early pulmonary embolism in following pelvic trauma patient: a case report





12⁰⁰ - 12¹⁰

Belma Kadić

Fat embolism syndrome

Session D

Lecture hall Split

Moderators:

Andrej Šribar, Stoja Erić

11⁴⁰ - 11⁵⁰

Juraj Havaš

Continuous renal replacement therapy with *Oxiris* filter in a septic shock patient

11⁵⁰ - 12⁰⁰

Enida Halvadžić

Role of vasopressin in recovery of renal function in a critically ill patient with acute renal failure and severe hyperkalemia: A case report

12⁰⁰ - 12¹⁰

Ivana Vuk

Case report of a patient with a rare set of complications of acute intermittent porphyria

12¹⁰ - 12²⁰

Tamara Murselović

End of life care - how do we cope with it?

Session E

Lecture hall Rovinj

Moderators:

Marko Pražetina, Edita Grbavac

15⁰⁵ - 15¹⁵

Iva Kedmenec

Neurological complications of chronic renal failure: A case report

15¹⁵ - 15²⁵

Filip Grabant

Acute respiratory failure caused by Legionnaires' disease - case report

15²⁵ - 15³⁵

Nemanja Radovanović

Concurrent *Trichosporon asahii* and Echinocandin-resistant *Candida glabrata* infections in a patient with Caroli Disease

15³⁵ - 15⁴⁵

Karlo Beljak

The 'forgotten' diagnosis: COVID-19 pneumonia in a patient with a malignant tumor of the tonsillopharyngeal region – a case report

15⁴⁵ - 15⁵⁵

Petra Čičak

Management of complications of abdominal aortic aneurysm surgery in the ICU

15⁵⁵ - 16⁰⁵

Mark Žižak

Refractory hypertension after severe preeclampsia and HELLP syndrome - a case of complex postpartum care

16⁰⁵ - 16¹⁵

Jakica Ana Živković

From aggressive treatment to palliative care - a case report of mesenteric ischemia in terminal phase of life

Grand Ballroom / Section A

16³⁰

Congress closing words

