

ORGANISERS

Croatian Medical Council - hlz.hr Croatian Society for Intensive Care Medicine - hdim.hlz.hr Clinical Department for Anesthesiology and Intensive Care Medicine, University Hospital Dubrava, Zagreb, Croatia - kbd.hr University of Zagreb School of Dental Medicine - sfzg.unizg.hr

ORGANISING COMMITTEE:

President: Jasminka Peršec

Members: Tomislav Breitenfeld, Andrej Šribar, Gordana Brozović, Sanda Stipić Stojanović, Stoja Erić, Edita Grbavac, Ivana Haršanji Drenjančević, Nataša Gocić Perić,

Vlasta Merc, Nikola Bradić, Ivan Bandić

SCIENTIFIC COMMITTEE:

President: Jasminka Peršec

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Dear colleagues,

It is my great honor and pleasure to invite you to the 15th International Congress of Intensive Care Medicine, which will be held in Zagreb, Sheraton Hotel, from April 12th to 13th, 2024, organized by the Croatian Society for Intensive Care Medicine of the Croatian Medical Association. The Croatian Society for Intensive Care Medicine has been maintaining the continuity of professional and scientific education for many years, striving to bring new knowledge to its members, the implementation of which has always contributed to the progress of intensive care medicine.

With this year's thematic units, we want to cover as many important areas of intensive care medicine as possible: new possibilities in hemodynamic monitoring, mechanical ventilation, sepsis and blood purification, coagulopathy and infections in the intensive care unit, volume replacement, invasive procedures in the intensive care unit, new strategies and possibilities in the intensive care unit.

In addition to invited lectures by top domestic and foreign experts, there will be a special section for short oral presentations as part of the Congress. All "in extenso" papers will be published in the supplement of the "Liječnički Vjesnik" (online edition).

The official languages of the Congress: Croatian and English. The meeting will be accredited according to the Rules of the Croatian Medical Chamber. Residents are allowed to participate in the Congress without a registration fee.

I invite all of you to enhance this meeting by your participation so that we can contribute to better and stronger networking in intensive care medicine, because the exchange of knowledge and experience always leads us to the final joint success.

Additional information about the Congress is available on the official website of the Croatian Society for Intensive Care Medicine – http://hdim.hlz.hr.

We look forward to your participation in the work of the Congress and we cordially expect you!

Head of the organizing committee President of the Croatian Society for Intensive Care Medicine prof. Jasminka Peršec, MD, PhD

INVITED LECTURERS:

Davor Barić, MD, PhD, Prim., Department for Cardiac and Transplant Surgery, University Hospital Dubrava, Zagreb, Croatia

Jan Benes, MD, PhD, Assoc. Prof., Department for Anesthesiology, Intensive Medicine and Resuscitation, University Hospital Plzen, Pilsen, Czech Republic

Nikola Bradić, MD, Prim., Clinical Department for Anesthesiology, Reanimatology and Intensive Care Medicine, University Hospital Dubrava, Zagreb, Croatia

Tomislav Breitenfeld, MD, PhD, Prof., Clinical Department for Neurology, University Hospital Centre Sestre Milosrdnice, Zagreb, Croatia

Hrvoje Budišić, MD, Clinical Department for Neurology, University Hospital Centre Sestre Milosrdnice, Zagreb, Croatia

Miljenko Crnjaković, MD, PhD, Department for Neurology, University Hospital Dubrava, Zagreb, Croatia

Vesna Durnev, MD, PhD, Assoc. Prof., President of Macedonian Society of Anaesthesiologists and Intensive Care Medicine, Department for Neurosurgical Intensive Care Unit, University Clinic for Anaesthesia, Reanimation and Intensive Care, Clinical Centre Mother Teresa Skopje, Republic of North Macedonia

Żeljka Gavranović, MD, Department for Anesthesiology, Intensive Care Medicine and Pain Medicine, University Hospital Centre Sestre Milosrdnice, Zagreb, Croatia

Sandro Glumac, MD, PhD, Asst. Prof., Clinical Department for Anesthesiology, Reanimatology and Intensive Care Medicine, University Hospital Centre Split, Croatia

Nataša Gocić Perić, MD, Clinical Center of Vojvodina, Novi Sad, Serbia

Oliver Grottke, MD, PhD, MPH, Asst. Prof., University Clinic RWTH Aachen, Germany

Ivana Haršanji Drenjančević, MD, PhD, Asst. Prof., Clinical Department for Anesthesiology, Reanimatology and Intensive Care Medicine, University Hospital Centre Osijek, Croatia

Matthias Heringlake, MD, PhD, Prof., Director of the Department for Anesthesiology and Intensive Care Medicine, Karlsburg Hospital, Karlsburg, Germany

Radmilo Janković, MD, PhD, Prof., President of Serbian Association of Anaesthesiologists and Intensivists, Clinical Department for Anesthesia and Intensive Therapy, Clinical Centre Niš, Serbia

Gordana Jovanović, MD, PhD, Prof., Clinical Center of Vojvodina, Novi Sad, Serbia

Armin Kalenka, MD, PhD, Asst. Prof., Clinical Department for Anesthesiology, University Hospital Heidelberg, Germany

Rihard Knafelj, MD, PhD, Department of Internal Intensive Care Medicine, University Medical Centre Ljubljana, Slovenia

Gordana Kristek, MD, PhD, Asst. Prof., Clinical Department for Anesthesiology, Reanimatology and Intensive Care Medicine, University Hospital Centre Osijek, Croatia

Vjeran Leventić, MD, Clinical Department for Anesthesiology, Reanimatology and Intensive Care Medicine, University Hospital Centre Osijek, Croatia

Danijel Lovrić, MD, PhD, Prim., Clinical Department for Cardiovascular Medicine, University Hospital Centre Zagreb, Croatia

Milica Lukić, MD, President of Slovenian Society of Intensive Care Medicine, Department of Internal Intensive Care Medicine, University Medical Centre Ljubljana, Slovenia

Vlasta Merc, MD, Clinical Department for Anesthesiology, Reanimatology and Intensive Care Medicine, University Hospital Dubrava, Zagreb, Croatia

Mate Moguš, MD, Clinical Department for Anesthesiology, Reanimatology, Intensive Care Medicine and Pain Therapy, University Hospital Centre Zagreb, Croatia

Zsolt Molnar, MD, PhD, Prof., University Department for Anaesthesiology and Intensive Therapy Centre for Translation Medicine, Semmelweis University, Budapest, Hungary

Višnja Nesek Adam, MD, PhD, Assoc. Prof., President of the Croatian Society of Emergency Medicine, Clinical Department for Anesthesiology, Resuscitation and Intensive Care, Clinical Hospital Sveti Duh, Zagreb, Croatia

Axel Nierhaus, MD, Department for Intensive Care, University Medical Centre Hamburg, Germany

Helena Ostović, MD, Clinical Department for Anesthesiology, Reanimatology and Intensive Care Medicine, University Hospital Dubrava, Zagreb, Croatia

Marin Pavlov, MD, PhD, Asst. Prof., Department for Cardiovascular Medicine, University Hospital Dubrava, Zagreb, Croatia

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Marko Pražetina, MD, Clinical Department for Anesthesiology, Reanimatology and Intensive Care Medicine, University Hospital Dubrava, Zagreb, Croatia

Vedran Premužić, MD, PhD, Clinical Department for Internal Medicine, University Hospital Centre Zagreb, Croatia

Marija Santini, **MD**, **PhD**, President of the Croatian Society for Infectious Diseases, University Hospital for Infectious Diseases "Dr. Fran Mihaljević", Zagreb, Croatia

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

Sonja Škiljić, MD, Clinical Department for Anesthesiology, Reanimatology and Intensive Care Medicine, University Hospital Centre Osijek, Croatia

Jasmina Smajić, MD, PhD, Assoc. Prof., President of the Federation BiH Society of Anaesthesiology and Intensive Care Medicine, University Hospital Centre Tuzla, Bosnia and Hercegovina

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Marinko Vučić, MD, PhD, Asst. Prof., Department for Anesthesiology, Intensive Care Medicine and Pain Medicine, University Hospital Centre Sestre Milosrdnice, Zagreb, Croatia

Sven Županić, MD, Department for Neurology, University Hospital Dubrava, Zagreb, Croatia

PROGRAMME

FRIDAY, April 12th 2024

| 08.00-09.00 | Registration |
|-------------|---|
| 09.00-09.20 | Jasminka Peršec, President of CroSICM - Opening of the Congress Welcome word |
| Session 1 | Grand Ballroom / Section A |
| | What's new in treatment of septic patients? |
| Moderators: | Zsolt Molnar, Milica Lukić |
| 09.20-09.35 | Vesna Durnev Emerging role of the gut-body crosstalk in sepsis |
| 09.35-09.50 | Vlatka Sotošek The effect of fluid therapy on endothelial dysfunction in critically ill patients |
| 09.50-10.05 | Zsolt Molnar Influence of hemoadsorption on microcirulation and vascular protection |
| 10.05-10.20 | Milica Lukić Nutritional support in critically ill patients with sepsis and septic shock |
| 10.20-10.35 | Marija Santini Do we have a therapeutic solution for Gram negative MDR |
| 10.35-10.45 | pathogens? Discussion |
| Session 2 | Grand Ballroom / Section A |
| | State of the art mechanical ventilation |
| Moderators: | Marcus Schultz, Armin Kalenka |
| 10.45-11.00 | Marcus Schultz The (real) benefits of automated ventilation |
| 11.00-11.15 | Armin Kalenka Mechanical ventilation: standard protocols or better individualized? |
| 11.15-11.30 | Marcus Schultz Is high PEEP good, or bad? |
| 11.30-11.45 | Andrej Šribar There is no "perfect" PEEP – but can EIT help us get close enough? |
| 11.45-11.55 | Discussion |

| 11.55-12.25 | Coffee break |
|-------------|---|
| Session 3 | Grand Ballroom / Section A |
| | Hemodynamics |
| Moderators: | Jan Benes, Predrag Stevanović |
| 12.25-12.40 | |
| 12.40-12.55 | Vasopressors and inotropes in sepsis Jan Benes Prediction of hypotension in the ICU |
| 12.55-13.10 | Predrag Stevanović Perioperative hemodynamic optimization - Goal-directed therapy (GDT) |
| 13.10-13.25 | Nikola Bradić Anesthetic management of patients with MCS in Noncardiac |
| 13.25-13.40 | Surgery Davor Barić Pleodless Cardina Surgery |
| 13.40-13.50 | Bloodless Cardiac Surgery Discussion |
| 13.50-14.50 | Lunch break |
| Session 4 | Grand Ballroom / Section A |
| | ICU from a different perspective |
| Moderators: | Jasmina Smajić, Višnja Nesek Adam |
| 14.50-15.05 | Predrag Stevanović Artificial intelligence powered Mixed Reality Technology in Healthcare and Education - presentation of three years of |
| 15.05-15.20 | experience Vilena Vrbanović Mijatović The Hidden Danger: Understanding Negative Pressure |
| 15.20-15.35 | Pulmonary Edema Višnja Nesek Adam Non-thyroidal illness syndrome - a physiological adaptation |
| 15.35-15.50 | or a therapeutic target? Jasmina Smajić Fiberoptic bronchoscopy during percutaneous tracheostomy: yes or no? |
| 15.50-16.00 | Discussion |

| Session 5 | Grand Ballroom / Section A When heart could use a little help |
|-------------|---|
| Moderators: | Marin Pavlov, Danijel Lovrić |
| 16.00-16.15 | Danijel Lovrić Short-term mechanical circulatory support for cardiogenic shock – Impella Combined is better? - ECPELLA |
| 16.15-16.30 | Marin Pavlov • Pulmonary embolism beyond Heparin • Short-term mechanical circulatory support for cardiogenic shock - VA ECMO |
| 16.30-16.45 | Mate Moguš Hemodynamic management of patients with cardiogenic shock during veno-arterial extracorporeal membrane oxygenation |
| 16.45-16.55 | Discussion |
| Session 6 | Grand Ballroom / Section A |
| | Keep calm and don't get up - ICU sedation |
| Moderators: | Rihard Knafelj, Ivana Haršanji Drenanjčević |
| 16.55-17.10 | Radmila Popović Central nervous system infections in neurosurgical critically ill patients – 5-year experience of Clinical Center of Vojvodina |
| 17.10-17.25 | Ívana Haršanji Drenjančević |
| 17.25-17.40 | ICU sedation strategies in patients with traumatic brain injury Rihard Knafelj ICU sedation with volatile anesthetics – an example of good clinical practice |
| 17.40-17.50 | Discussion |

ORAL PRESENTATIONS

| Session 1 | Lecture hall Opatija / Pula |
|-------------|--|
| Moderators: | Nikola Bradić, Edina Pajt |
| 16.00-16.10 | Polona Gams End of Life Decision Making and Palliative Care in a Surgical Intensive Care Unit |
| 16.10-16.20 | Nikola Vuković Incidence of upper gastrointestinal tract bleeding in patients receiving DOAC |
| 16.20-16.30 | Živa Macura 364 days of addressing heart failure, liver failure, vasoplegia and associated pathologies in a 46-year old woman with a congenital |
| 16.30-16.40 | heart defect: a case report Miloš Milenković Incidence of myocardial infarction in patients with acute gastrointestinal bleeding |
| 16.40-16.50 | Bojana Radanović |
| 16.50-17.00 | Role of CO ₂ gap in hemodynamic monitoring in the ICU Edina Pajt |
| 17.00-17.10 | Intraoperative cardiac arrest – case report Amela Katica Mulalić Mechanical ventilation induced diaphragmic dysfunction |
| 17.10-17.20 | Ana Marija Antunović Procalcitonin - prognostic biomarker in panceratitis |
| 17.20-17.30 | Sadija Lušija Treatment of necrotizing pancreatitis - case report |
| 17.30-17.40 | Maša Kontić Clinical cases and presence of comorbidities in non-surgical |
| 17.40-17.50 | patients in the ICU Violeta Anđelić |
| 17.50-18.00 | Diferentiation syndrome – treatment challenges in the ICU Aleksandar Božić |
| 18.00-18.10 | Acute intoxication – our experience Marcela Čučković |
| 18.10-18.20 | The influence of anesthesia on surgical stress response Azra Mukanović Alihodžić The grap systic by mothermic pages report |
| 18.20-18.30 | Therapeutic hypothermia – case report Edin Gadžo Hospital acquired infections and antimicrobial resistance in the ICU |
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SATURDAY, April 13th 2024

| Session 7 | Grand Ballroom / Section A |
|-------------|---|
| | The light at the end of the tunnel – End of life dilemmas |
| Moderators: | Vlasta Merc, Željka Gavranović |
| 09.00-09.15 | Nataša Gocić Perić |
| 09.15-09.30 | End of life care - problems and possible solutions Vjeran Leventić |
| 09.30-09.45 | The struggle to let go: realities of death in the ICU Vlasta Merc |
| 09.45-10.00 | End of Life Care: out and about Željka Gavranović |
| | End of life care in the ICU - International practices |
| 10.00-10.10 | Discussion |
| Session 8 | Grand Ballroom / Section A |
| | Coagulation and fluid resuscitation |
| Moderators: | Gordana Jovanović, Oliver Grottke |
| 10.10-10.25 | Gordana Jovanović Volume optimization and deresuscitation models in a critically ill |
| 10.25-10.40 | patient Oliver Grottke Comprehensive approach to bleeding management |
| 10.40-10.55 | Sandro Glumac |
| 10.55-11.10 | Massive obstetric hemorrhage Marko Pražetina Effect of machine learning-guided haemodynamic optimization on postoperative free flap perfusion in reconstructive maxillofacial |
| 11.10-11.25 | surgery: A study protocol and preliminary results Tina Tomić Mahečić Coagulation disorders in Intensive Care Unit |
| 11.25-11.35 | Discussion |
| 11.35-11.55 | Coffee break |

| Session 9 | Grand Ballroom / Section A |
|-------------|--|
| | When technology takes over |
| Moderators: | Matthias Heringlake, Vedran Premužić |
| 11.55-12.10 | Matthias Heringlake Intra-aortic counterpulsation in cardiogenic shock and cardiac surgery - Revisited |
| 12.10-12.25 | Vedran Premužić Hemoadsorption modalities in sepsis |
| 12.25-12.40 | Axel Nierhaus Role of Ig-M enriched immunoglobulins in the management of sepsis |
| 12.40-12.55 | Sonja Škiljić Blood purification in sepsis – indications and patient selection |
| 12.55-13.10 | Sanda Stipić Stojanović Future of extracorporeal blood purification to treat sepsis – wher why and how? |
| 13.10-13.25 | Gordana Kristek UHC Osijek experience in blood purification of septic surgical patients |
| 13.25-13.40 | Helena Ostović Biomarkers in the intensive care setting |
| 13.40-13.50 | Discussion |
| 13.50-14.50 | Lunch break |
| Session 10 | Grand Ballroom / Section A |
| | Everything we do, we do for the brain |
| Moderators: | Tomislav Breitenfeld, Miljenko Crnjaković |
| 14.50-15.05 | Dmitar Vlahović Aneurysmatic subarachnoid hemorrhage viewed from neurocritical care perspective |
| 15.05-15.20 | Miljenko Crnjaković Intracranial pressure, more than a number |
| 15.20-15.35 | Hrvoje Budišić Possibilities of neurointerventional procedures in acute ischemic |
| 15.35-15.50 | stroke – our experience Marinko Vučić, Tomislav Breitenfeld Anesthetic procedures in neurointerventional procedures – pros and cons? |
| 15.50-16.05 | Sven Županić Do we need EEG in the ICU |
| 16.05-16.15 | Discussion |

Lecture Hall Opatija / Pula

15.00-15.30 **Jasminka Peršec, Marko Pražetina, Robert Majstorović Hemosphere workshop**

ORAL PRESENTATIONS

| Session 2 | Lecture hall Opatija / Pula |
|-------------|--|
| Moderators: | Nina Novak Fumić, Tatjana Kereš |
| 12.00-12.10 | Neven Elezović Effect of NSAID and opioids in the perinatal period |
| 12.10-12.20 | Mileva Frankić |
| 12.20-12.30 | Multi drug resistant bacteria in the intensive care unit Dubravka Kocen Intensivieta (aposthosiologista outside the operating theater |
| 12.30-12.40 | Intensivists/anesthesiologists outside the operating theater Nataša Tomić |
| 12.40-12.50 | Optimization of antibiotic dosing – can we do better? Branislava Jorović |
| 12.50-13.00 | Hypopituitarism in a patient with traumatic brain injury Tanja Horvat |
| 13.00-13.10 | Massive obstetric hemorrhage - case report Jelena Isaković |
| | Achalasia complicated with bilateral pneumonia and sepsis, Case Report |
| 13.10-13.20 | Nina Novak Fumić Acute hemorrhage in a patient with Von Willenbrandt disease |
| 13.20-13.30 | Tatjana Kereš ECCO2R in COPD exacerbation |
| 13.30-13.40 | Ermina Selimović Mujčić Prognostic value of elevated troponin levels after cardiac surgery |
| 13.40-13.50 | Ana Smajo Septic Shock with Multiple Organ Dysfunction Syndrome: A Case Report |
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| Session 3 | Lecture hall Opatija / Pula |
|-------------|---|
| Moderators: | Dubravka Bartolek Hamp, Petar Martinović |
| 15.45-15.55 | Anamarija Goleš Timing the Percutaneous Tracheostomy. A Comparative Analysis of COVID vs. Non-COVID ICU Cases - Insights from a Single-Center Retrospective Study |
| 15.55-16.05 | Dubravka Bartolek Hamp Life-threatening complications after rapid volume replacement through the central vein in a polytraumatised patient |
| 16.05-16.15 | Sanja Berić Toxic shock syndrome after elective gastric surgery |
| 16.15-16.25 | Petar Martinović Radiofrequent thermocoagulation in treatment of trigeminal neuralgia |
| 16.25-16.35 | Nikolina Schatzl Association between nutritional status and frailty syndrome |
| 16.35-16.45 | Tamara Murselović Albumins, the gray zone of indications |
| 16.45-16.55 | Ana Jadrijević Štefek Light at the end of the tunnel – comparison of calprotectin and CRP in sepsis |
| 16.55-17.05 | Gala Božac Septic shock in a patient with acute monoblastic leukemia – case report |
| 17.05-17.15 | Ivan Gospić Remimazolam sedation for TAVI – our experience at UH Dubrava |
| 17.15-17.25 | Lea Gvozdanović Alcoholic ketoacidosisucase report |
| 17.25-17.35 | Mirela Dobrić Delayed presentation of subclavian artery pseudoaneurysm after polytrauma with left clavicle and brachial plexus injury |
| 17.35-17.45 | Mark Žižak Acute abdomen after splenic embolization due to immune thrombocytopenia |

| Session 4 | Grand Ballroom A |
|-------------|--|
| Moderators: | Nataša Gocić Perić, Andrej Šribar |
| 16.25-16.35 | Grgur Prižmić Guillain-Barré syndrome and COVID-19 – a case report |
| 16.35-16.45 | Amra Mešić Vasopressor therapy in septic shock |
| 16.45-16.55 | Anita Lukić Can surgical drainage tubes present a problem in the ICU and be |
| 16.55-17.05 | fatal fot the patient? A case report. Marija Draguljić Svaguša |
| | Ischemic colitis after aneurysmatic rupture of abdominal aorta |
| 17.05-17.15 | Ivan Bandić Ketamine analgosedation in ICU |
| 17.15-17.25 | Antonia Bulić Miljak |
| | Perioperative treatment for emergency cesarean section and intensive care of parturient with severe peripartum |
| 17.25-17.35 | cardiomyopathy Filip Grabant |
| 17.35-17.45 | Airway management in obese patients - case report Iva Kurjaković |
| 11.00 11.40 | Bleeding management in a patient with massive gastrointestinal hemorrhage - a case report |
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