



12TH INTERNATIONAL CONGRESS OF HEMODYNAMIC MONITORING

UNIVERSITY HOSPITAL DUBRAVA
ZAGREB, 20.-21. SEPTEMBER 2019.

Under auspices of President of Croatia and Ministry of Health



<http://hdim.hlz.hr>
<http://www.kbd.hr>

ORGANISERS

Organisers:

- Croatian Society for Intensive Care Medicine - <http://hdim.hlz.hr>
- Clinical Department for Anesthesiology and Intensive Care Medicine, University Hospital Dubrava, Zagreb, Croatia - <http://www.kbd.hr>
- University of Zagreb, School of Dental Medicine - <http://sfzq.unizg.hr>

Organising committee:

President: Jasminka Peršec

Members: Tomislav Breitenfeld, Gordana Brozović, Mirjana Lončarić Katušin, Selma Pernar, Marija Santini, Ivančica Škarić, Andrej Šribar

Scientific committee:

Bruno Baršić (Croatia), Ashraf Dahaba (Austria), Amato De Monte (Italy), Janos Gal (Hungary), Mathias Heringlake (Germany), Rihard Knafelj (Slovenia), Diana Milanović (UK), Vlatka Sotošek (Croatia), Kai Zacharowski (Germany)

Invited speakers:

Flavio Bassi (IT), Juan Ignacio Cuerda (ES), Ashraf Dahaba (AT), Amato De Monte (IT), Janos Fazakas (HU), Janos Gal (HU), Matthias Heringlake (DE), Nevena Kalezić (SR), Amela Katica Mulalić (BA), Rihard Knafelj (SI), Diana Milanović (UK), Thomas Scheeren (NL), Maja Šurbatović (SR), Kai Zacharowski (DE)

Invited speakers (Croatia):

Bruno Baršić, Matija Jurjević, Krešimir Oremuš, Jasminka Peršec, Vlatka Sotošek, Zrinka Šafarić Oremuš, Mladen Širanović, Andrej Šribar

Dear Colleagues, Guests and Friends,

On behalf of the Croatian Society of Intensive Care Medicine it is my great pleasure and honour to welcome you to 12th International Congress of Hemodynamic Monitoring in University Hospital Dubrava, in Zagreb, Croatia, September 20–21, 2019.

The scientific programme is intended for anaesthesiologists, intensivists and other physicians interested in broad field of intensive care medicine.

Papers of invited speakers and oral presentations will be published in the Journal of Croatian Medical Association.

The Congress was organized by the Clinical Department of Anesthesiology, Reanimatology and Intensive Care Medicine University Hospital Dubrava, Zagreb and Croatian Society of Intensive Care Medicine as a part of European Society of Intensive Care Medicine under the auspices of the Croatian President and Croatian Ministry of Health.

Intensive care medicine is a rapidly developing field of medicine, and practicing physicians need to keep up with all the advances brought by new technologies. That's why the mission of this congress is to provide all the specialists and enthusiasts new insights in the current state of the art treatments, technologies and drugs.

In addition to education on current research in intensive care medicine through conferences and publications, we need to promote education for medical students, residents and health professionals.

The industrial exhibition is an opportunity for you to network and to keep up-to-date with the latest pharmacological and technological developments. Each sponsor company is a supporter of the Congress and we would like to thank them all for their commitment and contribution by visiting the exhibition.

We sincerely hope that you will enjoy both, the educational value of the programme and the unique atmosphere of charming City of Zagreb.

We are looking forward to greeting you personally in Zagreb.

Assistant Professor Jasminka Peršec, MD, PhD

Congress President

President of CroSICM

SPEAKERS:

- **Bruno Baršić**, M.D., Ph.D. Prof., University of Zagreb, Infectologist and Intensivist, Department of neuroinfectology, Clinic for Infective Diseases "Fran Mihaljević", **Zagreb, Croatia**
- **Flavio Bassi** M.D., Director of the Anesthesiology and ICU 2°, Department of Anesthesia and Reanimation, Azienda Ospedaliero Universitaria, S. M. Misericordia, **Udine, Italy**
- **Juan Ignacio Cuerda**, Dräger Marketing Manager Region Europe Monitoring & IT, **Madrid, Spain**
- **Ashraf Dahaba**, M.D., Ph.D., Prof. of Anesthesiology, Medical University of Graz, Austria, Adjunct Prof., The Fourth First Military Medical University, Xi'an, China, Adjunct Prof., Zhe Jiang University, Hang Zhou, China and Consultant of Anaesthesia, General Medical Council, United Kingdom, **Graz, Austria**
- **Amato De Monte**, M.D., Ph.D. Prof., Head of Department of Anesthesia and Reanimation, Azienda Ospedaliero Universitaria, S. M. Misericordia, **Udine, Italy**
- **János Fazakas**, M.D., Ph.D. Prof. of Anesthesiology and Intensive Care Medicine, Semmelweis University Clinic Of Transplantation And Surgery, **Budapest, Hungary**
- **János Gal**, M.D., Ph.D. Prof., Head of Department of Anesthesiology and Intensive Therapy, Semmelweis University Budapest, President of Hungarian Society of Anaesthesiology and Intensive Therapy, **Budapest, Hungary**
- **Matthias Heringlake**, M.D., Ph.D. Prof. of Anesthesiology, Deputy Director Cardiac Anesthesia, Dept. of Anesthesiology, University of **Lübeck, Germany**
- **Matija Jurjević**, M.D., Department of Anesthesiology, Reanimatology and Intensive Care Medicine, County hospital „Dr. Josip Benčević“, **Slavonski Brod, Croatia**
- **Nevena Kalezić** M.D., Ph. D., Prof. of Anesthesiology and Intensive Care Medicine, Head of Department at Center of Anesthesiology and Resuscitation, Clinical Center of Serbia, School of Medicine, **Belgrade, Serbia**
- **Amela Katica–Mulalić**, M.D., Prim., Head of Clinical department of Anesthesiology and Intensive Care Medicine, University Hospital Center Sarajevo, **Sarajevo, Bosnia And Herzegovina**
- **Rihard Knafelj**, M.D., Ph. D., University of Ljubljana, School of Medicine, Department of Internal Intensive Medicine, University Clinical Center Ljubljana, **Ljubljana, Slovenia**
- **Diana Milanović** M.D., Anesthesiologist and Intensive Care Medicine specialist, East Kent Hospitals University NHS Foundation Trust, **Canterbury, United Kingdom**

- **Krešimir Oremuš**, M.D., EDRA, Special Hospital for Orthopedic Surgery „Akromion” Krapinske toplice, **Croatia**
- **Jasminka Peršec**, M.D., Ph.D., Prim., Asst. Prof., University of Zagreb, School of Dental Medicine, Head of Clinical Department of Anesthesiology and Intensive Care Medicine, University Hospital Dubrava, **Zagreb, Croatia**
- **Thomas W. L. Scheeren**, M.D., Ph. D., Prof. of Anesthesiology and Intensive Care Medicine, Faculty of Medical Sciences, University of Groningen School of Medicine, **Groningen, Netherlands**
- **Vlatka Sotošek**, M.D., Ph. D., Prof., Department of Anesthesiology and Intensive Care Medicine, Department of Immunology, University Hospital Centre Rijeka, University of Rijeka School of Medicine, **Rijeka, Croatia**
- **Zrinka Šafarić-Oremuš**, M.D., Prim., Clinical Department of Anesthesiology and Intensive Care Medicine, University Hospital Dubrava, **Zagreb, Croatia**
- **Mladen Širanović**, M.D., Prim., Department of Anesthesiology and Intensive Care Medicine, Head of Intensive Care Medicine Department, University Hospital Center “Sisters of Mercy”, **Zagreb, Croatia**
- **Andrej Šribar**, M.D., Ph.D., University of Zagreb, School of Dental Medicine, Clinical Department of Anesthesiology and Intensive Care Medicine, University Hospital Dubrava, **Zagreb, Croatia**
- **Maja Šurbatović**, M.D., Ph. D., Prof. of Anesthesiology and Intensive Care Medicine, Head of Department at Military Medical Academy, School of Medicine, **Belgrade, Serbia**
- **Kai Zacharowski** M.D., Ph. D., Prof., ML FRCA, Director and Clinical Head of Department of Anesthesiology, Intensive Care Medicine and Pain Therapy, University Hospital Frankfurt, Vice-president of European Society of Anesthesiology, **Frankfurt, Germany**

Scientific programme

Friday, 20th September 2019.

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| 08:00 – 09:00 | Registration | |
| 09:00 – 09:30 | Welcome word | |
| | Minister of Health | Prof. Milan Kujundžić, MD, PhD |
| | UH Dubrava Manager | Asst. Prof. Srećko Marušić, MD, PhD |
| | President of CroSICM | |
| | Head of Department | Asst. Prof. Jasminka Peršec, MD, PhD |

Chairpersons: Ashraf Dahaba, Amato De Monte

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|---------------|------------------------|--|
| 09:30 – 09:50 | Maja Šurbatović | <i>Vasoplegia in focus: why should we pay attention to it?</i> |
| 09:50 – 10:10 | Amato De Monte | <i>Ozone insufflation as an alternative to antibiotic treatment in soft tissue infection</i> |
| 10:10 – 10:30 | Janos Fazakas | <i>Hemoabsorption in acute liver failure</i> |
| 10:30 – 10:50 | Ashraf Dahaba | <i>Mindray 3-directional NMT Module (a new generation "Tri-axial" neuromuscular monitor) versus the Relaxometer Mechanomyograph and versus the TOF-Watch SX acceleromyograph. Does new mean better or just more expensive?</i> |
| 10:50 – 11:00 | <i>Discussion</i> | |

Chairpersons: Bruno Baršić, Nevena Kalezić

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|---------------|-----------------------|--|
| 11:00 – 11:20 | Bruno Baršić | <i>Izvantjelesno odstranjenje CO₂</i> |
| 11:20 – 11:40 | Flavio Bassi | <i>The Heart Team or TAVI TEAM: new horizons for cardioanesthesiologists</i> |
| 11:40 – 12:00 | Nevena Kalezić | <i>Haemodynamic alterations during pheochromocytoma surgery</i> |
| 12:00 – 12:10 | <i>Discussion</i> | |
| 12:10 – 12:30 | Coffee break | |

Edwards Lifesciences Hemosphere® session – sponsored by BORMIAMED

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| 12:30 – 14:00 | Thomas W. L. Scheeren Vedran Brajković, Andrej Šribar | <i>Predicting hypotension</i> <i>Edwards Hemosphere®</i> <i>VolumeView / FloTrac Simulation</i> |
| 14:00 – 15:00 | Lunch break | |

Chairpersons: *Janos Gal, Kai Zacharowski*

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| 15:00 – 15:20 | Janos Gal | <i>Back to the basics: CVP, a revalidated puzzle of haemodynamic monitoring</i> |
| 15:20 – 15:40 | Kai Zacharowski | <i>Novel insights into Patient Blood Management</i> |
| 15:40 – 16:00 | Matija Jurjević | <i>Weaning from mechanical ventilation, a respiratory but a hemodynamic problem as well</i> |
| 16:00 – 16:20 | Kai Zacharowski | <i>My perspective (ESA) regarding European Intensive Care Medicine</i> |
| 16:20 – 16:30 | <i>Discussion</i> | |

Saturday, 21st September 2019.

Chairpersons: *Mathias Heringlake, Vlatka Sotošek*

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| 09:00 – 09:20 | Mathias Heringlake | <i>Diagnosis and treatment of right ventricular failure in the cardiac surgical patient</i> |
| 09:20 – 09:40 | Amela Katica – Mulalić | <i>Neuromišična stimulacija nervus frenikusa kod pacijenata na respiratoru</i> |
| 09:40 – 10:00 | Vlatka Sotošek | <i>Hemodinamske promjene u bolesnika sa sepsom</i> |
| 10:00 – 10:10 | <i>Discussion</i> | |
| 10:10 – 10:30 | Coffee Break | |

Chairpersons: *Rihard Knafelj, Diana Milanović*

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|---------------|----------------------------|--|
| 10:30 – 10:50 | Jasminka Peršec | <i>Delirium in the ICU – what can we do differently?</i> |
| 10:50 – 11:10 | Diana Milanović | <i>Anaesthesia for Robotic Surgery</i> |
| 11:10 – 11:30 | Rihard Knafelj | <i>Hemodinamske promjene u mehaničkoj ventilaciji</i> |
| 11:30 – 11:50 | Juan Ignacio Cuerda | <i>Vision of Connected Technologies in Acute Care</i> |
| 11:50 – 12:00 | <i>Discussion</i> | |

Anesthesia / ICU workshops

- 12:00 – 13:00 **Mladen Širanović**
Ultrasound in the ICU
- 12:00 – 13:00 **Andrej Šribar**
EIT guided PEEP assessment – Dräger Pulmovista 500
- 13:00 – 14:00 **Zrinka Šafarić Oremuš**
Echocardiographic assessment of ICU patients
- 13:00 – 14:00 **Krešimir Oremuš**
Ultrasound guided upper extremity peripheral nerve blocks
- 14:00 – 15:00 **Lunch break**

Chairpersons: *Zrinka Šafarić Oremuš, Andrej Šribar*

15:00 – 15:30 *Oral presentation session*