



ЗДРУЖЕНИЕ НА ЛЕКАРИ ПО АНЕСТЕЗИОЛОГИЈА,  
РЕАНИМАЦИЈА И ИНТЕНЗИВНО ЛЕКУВАЊЕ

# VII MACEDONIAN CONGRESS OF ANAESTHESIOLOGY, REANIMATION AND INTENSIVE CARE MEDICINE

04-07.04.2024, Ohrid, R.N. Macedonia



## PROGRAMME

THURSDAY / APRIL 04

09:00 - REGISTRATION (LEVEL 0)

### CONGRESS HALL: OHRID

11:30 – 17:00

**WORKSHOP  
PERIPHERAL BLOCKS**



FATMA SARICAOĞLU, ALPARLAN KUŞ, GÖZEN ÖKSÜZ,  
DERYA ÖZKAN, ISMET TOPÇU, YAVUZ GÜRKAN, JASMINKA NANCHEVA,  
ALEKSANDAR DIMITROVSKI

**Peripheral Nerve Blocks Workshop**  
Upper & Lower Extremity blocks  
Truncal & Abdominal Wall blocks

11.30-13.30 LECTURES  
13.30-14.30 LUNCH  
15.00-17.00 HANDS ON STATIONS

### OPENING CEREMONY 30 YEARS MSA/ZLARIL CONGRESS HALL: BILJANA

19:00 - 19:10 PRESIDENT OF MSA - ASSOC. PROF. VESNA DURNEV  
19:10 - 19:20 DEAN OF MEDICAL FACULTY PROF. - SVETOZAR ANTOVIC  
19:20 - 19:30 PRESIDENT OF DOCTOR CHAMBER OF MACEDONIA - PROF. KALINA STARDELOVA  
19:30 - 19:40 MAYOR OF OHRID - KIRIL PECAKOV  
19:40 - 20:00 PROF. JORDAN NOJKOV  
20:00 - 20:15 AWARD CEREMONY / PAST PRESIDENTS

20:30 – 23:00 - COCTAIL PARTY

RESTAURANT HOTEL METROPOL (LEVEL 0)

## CONGRESS HALL: BILJANA

**08:30 – 09:55 PERIOPERATIVE MEDICINE - SESSION 1**

CHAIRS: JASMINKA NANCEVA, ANDRIJAN KARTALOV

- 08:30-08:45 Andrijan Kartalov (MKD)  
**Vasopressor**
- 08:45-09:00 Marija Sholjakova (MKD)  
**UNKNOWN EFFECTS OF LIDOCAINE**
- 09:00-09:15 Biljana Kuzmanovska (MKD)  
**Perioperative temperature management**
- 09:15-09:30 Jasminka Nanceva (MKD)  
**Intrauterine fetal surgery and anaesthesia**
- 09:30-09:45 Atanas Sivevski (MKD)  
**Anaesthetic management for ERAS protocols**
- 09:45-09:55 **Discussion**

**09:55 - 10:25 SYMPOSIUM NOVO NORDISK FARMA**

Chairperson: Ana Daneva Markova MD, PhD

**NovoSeven in Treatment of severe postpartum haemorrhage**

Atanas Sivevski MD, PhD

Dafina Karadjova MD, PhD

University Clinic of Gynaecology and Obstetrics,  
Clinical Center "Mother Teresa" Skopje**10:25 - 11:20 PERIOPERATIVE / GERIATRICS -SESSION 2**

CHAIRS: BILJANA KUZMANOVSKA, IDIT MATOT

- 10:25-10:40 Idit Matot (ISR)  
**Perioperative pathway for the elderly patient**
- 10:40-10:55 Maja Sostaric (SLO)  
**The importance of prehabilitation program for the success of surgical treatment of the elderly**
- 10:55-11:10 Miodrag Milenovic (SRB)  
**Frailty as a risk predictor of perioperative morbidity and mortality**
- 11:10-11:20 **Discussion**

**11:20-11:50 SYMPOSIUM NUTRICIA - EVROPA LEK FARMA****Role of Enteral nutrition in Gut body cross talk**

Vesna Durnev MD, PhD

University Clinic of Anaesthesiology, reanimation and Intensive care,  
Clinical Center "Mother Teresa"

11:50-12:05 COFFEE BREAK

## CONGRESS HALL: LABINO

**08:30 – 09:55 AIRWAY - SESSION 1**

CHAIRS: SHIRGOVSKA BILJANA, TANJA GORANOVIC

- 08:30-08:45 Shirgovska Biljana (MKD)  
**Airway management at pediatric patients-guidelines and recommendations**
- 08:45-09:00 Tanja Goranovic – (CRO)  
**Airway management in head and neck pathology**
- 09:00-09:15 Renata Curic- (CRO)  
**Place for pediatric tracheotomy in airway management- anesthesiology point of view-our experience**
- 09:15-09:30 Paul Zilberman (ISR)  
**The use of LMA gastro in bariatric surgery**
- 09:30-09:45 Antigona Hasani (KOS)  
**Safe extubation in children after the shared airway surgeries**
- 09:45-09:55 **Discussion**

**10:25 – 11:20 PAEDIATRICS - SESSION 2**

CHAIRS: DUSICA SIMIC, ONUR OZLU

- 10:25-10:40 Dusica Simic (SRB)  
**Do we need relaxants for pediatric patient intubation?**
- 10:40-10:55 Marijana Karisik (MNE)  
**Pediatric airway management**
- 10:55-11:10 Ljubica Micunovic Derebanov (MKD)  
**Pediatric transfusion: what is new?**
- 11:10-11:20 **Discussion**
- 11:50-12:05 COFFEE BREAK

**12:05 - 13:30 THORACO-VASCULAR SURGERY - SESSION 3**

CHAIRS: VOJISLAVA NESKOVIC, MARIJA SRCEVA

- 12:05-12:20 Vojislava Neskovic (SRB)  
**Prehabilitation in thoracic surgery: Is it feasible**
- 12:20-12:35 Yavuz Gurkan (TUR)  
**Thoracic wall blocks**
- 12:35-12:50 Marija Srceva (MKD)  
**Vascular incoherence during vascular surgery and ICU and its effect on hemostasis and coagulation**
- 12:50-13:05 Vasil Papestiev (MKD)  
**ECMO**

## CONGRESS HALL: BILJANA

**12:05 - 13:25 CAREER, LEADERSHIP AND EDUCATION - SESSION 3****CHAIRS:** OLEGS SABELNIKOVS, VESNA DURNEV

- 12:05-12:25 Idit Matot (ISR)  
**Women anesthesiologists attitudes and reported barriers to career advancement in anesthesia**
- 12:25-12:45 Olegs Sabelnikovs (LAT)  
**The role of "EBA in harmonization of Anaesthesiology training in Europe**
- 12:45-13:00 Vesna Durnev (MKD)  
**Ultrasound in anaesthesiology training-present trends and future**
- 13:00-13:15 Aleksandra Gavrilovska Brzanov (MKD)  
**Building collaborative environment for workplace success**
- 13:15-13:25 Discussion

**13:30 – 14:15 SYMPOSIUM MEDIKOFARMACIJA****Dexmedetomidine – Clinical experiences**

Jasmina Markovic Bozic MD, PhD  
University Medical Centre Ljubljana

**14:15 -15:00 LUNCH****15:00 - 16:10 ERAS - SESSION 4****CHAIRS:** ATANAS SIVEVSKI, MEDHAT SHALABI

- 15:00 - 15:15 Medhat Shalabi (UK)  
**What is the real ERAS? Why it should be the Normal Standard of peri- operative care?**
- 15:15 - 15:30 Medhat Shalabi (UK)  
**The vital role of the Anesthetist in ERAS.**
- 15:30 -15:50 Thomas Hachenberg (GER)  
**Fast track in thoracic anesthesia**
- 15:50-16:05 Borislava Pujic (SRB)  
**ERAS for Cesarean Delivery- From Idea to Implementation**
- 16:05-16:10 Discussion

**16:10 – 16:40 SYMPOSIUM "ZAN MITREV" CLINIC****HAEMOFILTRATION**

Tanja Gramosli MD  
"Zan Mitrev" Clinic

**16:40-17-00 COFFEE BREAK**

## CONGRESS HALL: LABINO

13:05-13:20 Darko Andjusev (MKD)  
**One lung ventilation**

13:20-13:30 Discussion

**14:15 -15:00 LUNCH****15:00 - 16:20 THE CARDIAC PATIENT - SESSION 4****CHAIRS:** MARIJA VAVLUKIS, MARIJA STEVIC

- 15:00-15:20 Idit Matot (ISR)  
**Should we measure troponin in the postoperative period?**
- 15:20-15:40 Marija Vavlukis (MKD)  
**Various faces of elevated cardiac troponins-when cardiologist is needed?**
- 15:40-15:55 Maja Sostaric (SLO)  
**Perioperative preparation of cardiac patient for non-cardiac operation**
- 15:55-16:10 Saimir Kuci- (ALB)  
**Perioperative care of patients with valvular heart prosthesis that require non cardiac surgery**
- 16:10-16:20 Discussion

**16:50 -17:05 COFFEE BREAK****17:05-18:30 MISCELENOUS - SESSION 5****CHAIRS:** DAFINA KARADJOVA, TANJA TROIC

- 17:05-17:20 Tanja Troic (MKD)  
**Positive anesthetic allergy testing - what to do next**
- 17:20-17:35 Dafina Karadjova (MKD)  
**Complications in obstetric anaesthesia**
- 17:35-17:50 Albert Leshi (MKD)  
**TIVA-TCI**
- 17:50-18:05 Beti Kostadinovska (MKD)  
**ERAS Protocol in cardiac surgery**
- 18:05-18:20 Nadica Mehmedovic (MKD)  
**Mechanical circulatory support challenges in anesthesia**
- 18:20-18:30 Discussions

**FREE NIGHT**

FRIDAY / APRIL 05

SATURDAY / APRIL 06

CONGRESS HALL: BILJANA

CONGRESS HALL: LABINO

17:00-18:50 TRANSPLANTATION - SESSION 5

CHAIRS: MAJA MOJSOVA MIOVSKA, SVETOOZAR ANTOVIC

- 17:00-17:10 Maja Mojsova Mijovska (MKD)  
**National Transplant Coordinator**
- 17:10-17:25 Sasho Dohchev  
**Kidney transplant**
- 17:25-17:40 Beti Todorovska (MKD)  
**Liver transplantation –**
- 17:40-17:55 **follow up of transplanted patient**  
Aleksandar Trajanovski (MKD)  
**Bone Transplant**
- 17:55-18:10 Marjan Shokarovski (MKD)  
**Heart Transplant**
- 18:10-18:25 Biljana Andonovska (MKD)  
**Brain death donor transplantation**
- 18:25-18:40 **Discussions**

08:30 – 10:10 BAP - SESSION 6

CHAIRS: MERAL KANBAK, SHOSHOLCEVA MIRJANA

- 08:30-08:45 Ali Fuat Erdem (TUR)  
**The fresh gas flow should always be as low as possible for environmental sustainability**
- 08:45-09:00 Hulya Bilgin (TUR)  
**Basic principles of TCI**
- 09:00-09:15 Huiti Gentian (ALB)  
**Strange Complications**
- 09:15-09:30 Jasmina Jakupovic Smajic (BIH)  
**Challenges with obese patient**
- 09:30-09:45 Mirjana Shosholceva (MKD)  
**Artificial intelligence as a useful tool for personalized medicine: clinical applications in critical care settings**
- 09:45-10:00 Paul Zilberman (ISR)  
**Physiological changes in space flight**
- 10:00-10:10 **Discussion**

FREE NIGHT

CONGRESS HALL: OHRID

08:50-17:00 **WORKSHOP - POCUS**

FATE & Lung Ultrasound  
FAST & Gastric Ultrasound

IVAN VELICKOVIC, CRISTIAN ARZOLA, ANA SJAUS,  
JAVIER CUBILLOS

- 08:50-14.00 LECTURES  
14.00-15.00 LUNCH  
15.00-17.00 HANDS ON STATIONS



10:15 - 11:10 NEUROANAESTHESIA AND INTENSIVE CARE - SESSION 7

CHAIRS: FEYHAN OKTEN, ORHAN KANBAK, DAFINA KARADJOVA

- 10:15-10:30 Isil Ozkocak Turan (TUR)  
**Intracranial hemorrhages: Still dilemmas for the clinician**
- 10:30-10:45 Rudin Domi (ALB)  
**Pediatric neurosurgery anesthesia considerations**
- 10:45-11:00 Igor Lazic (SRB)  
**Awake brain surgery**
- 11:00-11:10 **Discussion**

12:00- 12:15 COFFEE BREAK

12:15-13:30 PAIN MANAGEMENT AND REGIONAL ANAESTHESIA I - SESSION 8

CHAIRS: KRENAR LILAJ, FATMA SARICAOGLY

- 12:15-12:30 Fatma Saricaogly (TUR)  
**Peripheral nerve blocks at adults and children**
- 12:30-12:45 Fatos Sada (ALB)  
**Evolving of thoracic spinal segmental anesthesia**
- 12:45-13:00 Emil Stoicovski (MKD)  
**Cervical blocks**

## CONGRESS HALL: BILJANA

**08:30 - 10:00 INTENSIVE MEDICINE I - SESSION 6**

CHAIRS: EDOARDO DE ROBERTIS, JASMINKA PERSEC

- 08:30-08:45 Edoardo de Robertis (ITA)  
**Future of Critical Care between artificial intelligence, augmented reality and passion/**
- 08:45-09:00 Jasminka Persec (CRO)  
**AI for hemodynamic optimization of patients in anesthesia and ICU**
- 09:00-09:15 Tughan Utku (TUR)  
**How did the perception of death change with the construction of intensive care units?**
- 09:15-09:30 Slavica Kvolik (CRO)  
**Discharge of the patient with polytrauma from the ICU**
- 09:30-09:45 Hristo Bozov (BUL)  
**Hyperbaric oxygenation**
- 09:45-10:00 **Discussion**

**10:00 - 11:15 SUSTAINABILITY AND SAFETY - SESSION 7**

CHAIRS: JANNICKE MELLIN OLSEN, BILJANA KUZMANOVSKA

- 10:00-10:20 Jannicke Mellin Olsen (NOR)  
**Safe medications safe anaesthesia**
- 10:20-10:40 Ole John Nielsen (DEN)  
**Do you understand our own personal impact on climate?**
- 10:40-11:00 Edoardo de Robertis (ITA)  
**Sustainability in Anesthesia and Intensive Care**
- 11:00-11:15 **Discussion**

**11:15 - 12:00 SYMPOSIUM OCTAPARMA****Use of human plasma concentrates in perioperative correction of coagulation parameters**

Dragana Unić Stojanović MD, PhD, Cardiovascular Institute – "Dedinje", Belgrade, Serbia

Dejan Marković MD, PhD, Medical Faculty University of Belgrade, Serbia

12:00-12:15 COFFEE BREAK

**12:15-13:25 INTENSIVE MEDICINE II - SESSION 8**

CHAIRS: MARKUS HUPPERTZ, VISNJA IVANCAN

- 12:15-12:30 Markus Huppertz (GER)  
**Antibiotic Stewardship / Antibiotic therapies in the ICU**

## CONGRESS HALL: LABINO

- 13:00-13:15 Aleksandar Dimitrovski (MKD)  
**Bilateral erector spinae block as a part of multimodal anesthesia for open spine fusion surgery**
- 13:15-13:30 **Discussion**

14:00-14:45 LUNCH

**14:45-15:55 PAIN MANAGEMENT AND REGIONAL ANAESTHESIA II - SESSION 9**

CHAIRS: PREDRAG STEVANOVIC, ALEKSANDAR DIMITROVSKI

- 14:45-15:00 Predrag Stevanovic (SER)  
**EPIDUROLISIS (Percutaneous epidural neuroplasty with FOR A-B catheter**
- 15:00-15:15 Markus Huppertz (GER)  
**Evidence on nerve damage and prevention strategies**
- 15:15-15:30 Sanem Cakar (TUR)  
**Application of regional anaesthesia techniques in ER and trauma patients**
- 15:30-15:45 Margarita Lovac Cepujnoska (MKD)  
**Clinical use of Patient Controlled Analgesia for Acute Postoperative Pain**
- 15:45-15:55 **Discussion**

**16:00-16:45 SYMPOSIUM VIATRIS****The role of Fraxiparine in thromboprophylaxis in orthopedic surgery**

Aleksandar Dimitrovski MD

**The role of Arixtra in the prevention of VTE in surgery**

Anita Kokareva MD

University Clinic of Anaesthesiology, reanimation and Intensive care, Clinical Center "Mother Teresa"

16:45-17:00 COFFEE BREAK

**17:00-18:40 SURGEON PERSPECTIVE - SESSION 10**

CHAIRS: ILIR HASANI, ALEKSANDAR CAPAREVSKI

- 17:00-17:15 Nikola Jankulovski (MKD)  
**Abdominal compartment syndrome**
- 17:15-17:30 Jordan Savevski (MKD)  
**How to avoid early postoperative complications in polytrauma patients with orthopaedic trauma**

CONGRESS HALL: BILJANA

- 12:30-12:45 Visnja Ivancan (CRO)  
**Sedation in ICU**
- 12:45-13:00 Ivan Palibrk (SRB)  
**Nutrition of the critically ill**
- 13:00-13:15 Hulya Basar (TUR)  
**Lung protective strategies in mechanical ventilation**
- 13:15-13:25 Discussion

**13:30 -14:00 SYMPOSIUM ALKALOID KONS DOOEL**

**"PiCCO: Get the Complete Picture" - Advanced Patient Monitoring**

Lecturer : Arthur van der Deijl

**"Safe and easy Low-flow anaesthesia"**

Lecturer: Panagiotis Psycharis

14:00 -14:45 LUNCH

**14:45 -16:10 ULTRASOUND PERSPECTIVE - SESSION 9**

**CHAIRS:** ATANAS SIVEVSKI, NADA PEJICIC

- 14:45-15:00 Ivan Velickovic (USA)  
**POCUS and Preeclampsia**
- 15:00-15:15 Nada Pejicic (SRB)  
**Abnormal findings in POCUS**
- 15:15-15:35 Igor Filipovski (MKD)  
**Ultrasound-Guided Percutaneous Cryoneurolysis for the treatment of Chronic and Acute Pain, -Presentation of the International Society for Ultrasound Guided Cryoneurolysis**
- 15:35-15:50 Filip Naumovski (MKD)  
**Echocardiographic insights of weaning failure: prediction & perspective**
- 15:50-16:00 Discussion

**17:15-18:45 MISCELENOUS - SESSION 10**

**CHAIRS:** VANJA TRAJKOVSKA, ALEKSANDRA PETRUSHEVA

- 17:15-17:30 Biljana Eftimova (MKD)  
**Environmental sustainability in anaesthesia and intensive care**
- 17:30-17:45 Vanja Trajkovska (MKD)  
**Ventilator associated pneumonia**
- 17:45-18:00 Aleksandra Petrusheva (MKD)  
**Efficacy of preemptive multimodal opioid free analgesia in kidney transplant recipients**
- 18:00-18:15 Marina Temelkovska Stevanovska (MKD)  
**Psychological and social influence of idiopathic scoliosis on adolescents and their caregivers**
- 18:15-18:30 Darko Sazdov (MKD)  
**Noninvasive tests for fluid responsiveness**
- 18:30-18:45 Discussions

CONGRESS HALL: LABINO

- 17:30-17:45 Aleksandar Caparevski (MKD)  
**Surgical and anaesthesiological consideration in posterior fossa surgery**
- 17:45-18:00 Ilir Hasani (MKD)  
**Endoscopic lumbar spine surgery- Local vs. general anaesthesia**
- 18:00-18:15 Risto Colancevski (MKD)  
**FLAIL chest - Surgical management**
- 18:15-18:30 Sofija Pejкова (MKD)  
**WALANT- Surgery: A game changer in anesthesia and bridging the gap between safety, efficiency and patient comfort**
- 18:30-18:40 Discussions

CONGRESS HALL: OHRID

**08:30-14:00 WORKSHOP - POCUS**

FATE & Lung Ultrasound  
FAST & Gastric Ultrasound

IVAN VELICKOVIC, CRISTIAN ARZOLA, ANA SJAUS,  
JAVIER CUBILLOS

08:50-14:00 LECTURES

14:00-15:00 LUNCH

15:00-17:00 HANDS ON STATIONS



CONGRESS HALL: BILJANA

**08:30 - 10:00 POSTER ABSTRACT SESSION**

10:00-10:15 Discussion

**10:15 - 11:15 POSTER ABSTRACT SESSION**

11:15-11:30 Discussion

**11:30 -12:00 CLOSING OF THE CONGRESS**

## AGENDA

12:00 – 17:00

## REGIONAL ANAESTHESIA - WORKSHOP - PERIPHERAL BLOCKS

LECTURES: FATMA SARICAĞLU, ALPARLAN KUŞ, GÖZEN ÖKSÜZ,  
DERYA ÖZKAN, ISMET TOPÇU, YAVUZ GÜRKAN, JASMINKA NANCHEVA, ALEKSANDAR DIMITROVSKI



## 09.30 - 11:00 REGISTRATION

- 11:30-12:00 Upper extremity blocks (Interscalene, Supraclavicular, Infraclavicular, Axillar)  
 12:00-12:30 Lower extremity blocks (Femoral, Sciatic, Adductor, Peng, Popliteal)  
 12:30-13:00 Abdomen Blocks Tap, Rectus, Ilioinguinal  
 13:00-13.30 Thruncal Blocks (ESP, Paravertebral, QLB)

13.30-14.30 Lunch break

Live models practition

Model 1: Upper extremity blocks (Interscalene, Supraclavicular, Infraclavicular, Axiller) - İsmet, Topçu Yavuz Gürkan

Model 2: Lower extremity blocks (femoral, sciatic, adductor, peng, popliteal) - Derya Özkan

Model 3: Abdomen Blocks Tap, rectus, ilioinguinal - Fatma Sarıcaoğlu

Model 4: Thruncal Blocks (ESP, paravertebral QLB) - Alparlan Kuş, Gözen öksüz

	14:45-15:15	15:15-15:45	15:45-16:15	16:15-16:45
Group 1	Model 1	Model 2	Model 3	Model 4
Group2	Model 2	Model 3	Model 4	Model 1
Group 3	Model 3	Model 4	Model 1	Model 2
Group4	Model 4	Model 1	Model 2	Model 3





## AGENDA



08:50-17:00

### WORKSHOP - POCUS

FATE & Lung Ultrasound  
FAST & Gastric Ultrasound

IVAN VELICKOVIC, CRISTIAN ARZOLA, ANA SJAUS, JAVIER CUBILLOS

### Program Day 1

- 8.50 - 09.00    Opening remarks - Ivan Velickovic
- 9.00 - 09.30    Introduction to FATE (focused assessed transthoracic echocardiography) -  
Why is FATE so essential for every anesthesiologist - Ana Sjaus
- 09.30- 09.45    Highlights to HOT 1 - Ana Sjaus
- 09.45- 11.00    HOT 1: Knobology, FATE views, FATE card page 1, IVC
- 11.00 - 11.15    Highlights to HOT 2 - Ana Sjaus
- 11.15 - 12.15    HOT 2: Repetition of HOT 1; M-mode in pos 2, MAPSE/TAPSE
- 12.15 - 12.45    Caffe break
- 12.45- 13.00    Highlights to HOT 3 - Ivan Velickovic
- 13.00- 14.00    HOT 3 - Knobology, Repetition HOT 1,2; HOT 3: M-mode in pos 3, parasternal long axis view
- 14.00-15.00    Lunch break
- 15.00-15.15    Highlights to HOT 4 – Javier Cubillos
- 15.15 -17.00    HOT 4: Certification test and scenario training, discussion, evaluation

### Scenario:

CASE 1: Ana Sjaus

CASE 2: Ivan Velickovic

CASE 3: Cristian Arzola

CASE 4: Javier Cubillos

\* HOT = Hands-on training



SATURDAY / APRIL 06

CONGRESS HALL:OHRID



## AGENDA



08:30-14:00

### WORKSHOP - POCUS

FATE & Lung Ultrasound  
FAST & Gastric Ultrasound

IVAN VELICKOVIC, CRISTIAN ARZOLA, ANA SJAUS, JAVIER CUBILLOS

### Program Day 2

- 08.30- 09.00 Introduction to Gastric Ultrasound -Why is Gastric US so essential for every anesthesiologist, Cristian Arzola
- 09.00- 09.30 Introduction to FAST (Focused assessment with sonography in trauma) - Why is FAST so essential for every anesthesiologist, Javier Cubillos
- 09.30-10.45 HOT 1: Gastric Ultrasound + FAST
- 10.45 -11.00 Coffee break
- 11.00 -11.30 Introduction to Lung Ultrasound – Javier Cubillos
- 11.30 -12.45 HOT 2: Lung Ultrasound
- 12.45 -14.00 HOT 3: Case scenarios - Ana Sjaus, Cristian Arzola, Javier Cubillos

\* participant in each group is given 3 minutes to perform exam and interpret best images.  
Scenario revisited with diagnoses and real life images.

15.00-17.00

### COURSE

ADVANCED ARTERIAL BLOOD GAS COURSE

Prof. Dr. Tuğhan Utku

Yeditepe University Koşuyolu Hospital



- 15.00-15.30 Evolution of the acid base concept, conceptual overview
- 15.30-16.00 Alternative Interpretation of Acid-Base - Physicochemical Approach
- 16.00-17.00 ABG Interactive section