

Program



ESICM LIVES Physiology 2026

4.-6. června 2026

Hotel Duo, Prague, Czech Republic

Záštita



European Society of Intensive Care Medicine (ESICM)
Česká společnost intenzivní medicíny



Organizační výbor

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Partneři a vystavovatelé

bioMérieux CZ s.r.o.	1	TECOM ANALYTICAL SYSTEMS CS, spol. s r.o.	2
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Detailní program k dispozici pouze online

QR kód na Vaší jmenovce

Program, objednané služby a instrukce naleznete po naskenování QR kódu na Vaší jmenovce.

Webové stránky akce

Oficální stránky akce na www.mhconsulting.cz.

QR kód níže

Program naleznete po naskenování QR kódu níže:



Pátek

05. 06. 2026

													19:00	20:00	21:00	22:00	23:00							
06:00		7:00	8:00		9:00		10:00		11:00		12:00		13:00		14:00		15:00		16:00		17:00		18:00	
 Hall Prague 1st floor			Physiolog.. 08:00 - 08:30	Arthur C. .. 08:30 - 09:00	Shock 09:00 - 10:30	Coffee bre.. 10:30 - 11:00	Case challenge 11:00 - 13:00		Lunch break 13:00 - 14:00	Autoregulation of organ perfusion aka wh.. 14:00 - 15:30		Microcirculation 15:30 - 17:00	Coffee bre.. 17:00 - 17:30	Abdominal .. 17:30 - 18:00	Abdominal compartment syndrome: Cas.. 18:00 - 19:15									
 Registration de ... 1st floor		Registration 07:30 - 17:00																						
Coffee Break		Oběd	Ústní sdělení	Hlavní sdělení	Panel		Registrace firem a účastníků																	

06. 06. 2026

06:00		7:00	8:00		9:00		10:00		11:00		12:00		13:00		14:00		15:00		16:00		17:00		18:00		19:00		20:00		21:00		22:00		23:00	
📍 Hall Prague 1st floor			Physiolog.. 08:00 - 08:30		Claude Bernard Keynote Lecture.. 08:30 - 09:15		Trauma and life - threatening haemorrha.. 09:15 - 10:45		Coffe e bre.. 10:45 - 11:15		Case challenge - Trauma 11:15 - 13:15		Lunch break 13:15 - 14:15		Neurophysiology in action 14:15 - 15:45		How human body works on extracorporeal l.. 15:45 - 17:15		Closing Re.. 17:15 - 17:45															
Coffee Break			Oběd		Jiné		Ústní sdělení		Hlavní sdělení		Panel																							

12:00-12:30	 PHYSIOLOGY ESPRESSO 📍 Hall Prague 1st floor Ústní sdělení Mlček M.	
	FUNDAMENTALS OF RESPIRATORY PHYSIOLOGY Doorduyn J.	30 min
12:45-13:00	 OFFICIAL OPENING AND WELCOME 📍 Hall Prague 1st floor Jiné	
	OFFICIAL OPENING AND WELCOME Duška F., Wendon J., Balík M.	15 min
13:00-13:45	 LUCIANO GATTINONI MEMORIAL LECTURE 📍 Hall Prague 1st floor Ústní sdělení	
	EEP, PRONING, PRELOAD AND AFTERLOAD Piquilloud L.	45 min
13:45-14:15	 COFFEE BREAK 📍 Hall Prague 1st floor Coffee Break	

14:15-15:45



TESTCHEST CASE CHALLENGE

📍 Hall Prague 1st floor | Ústní sdělení
Piquilloud L., Horáková L.

PATIENT WITH RESTRICTIVE LUNG DISEASE AND RAPID SHALLOW BREATHING PATTERN

Horáková L.

LUNG RECRUITMENT – MECHANISMS AND BENEFITS

Laffey J.

LUNG RECRUITMENT – GAS METHODS VS. PV CURVE VS. IMAGING-DRIVEN?

Mlček M.

LUNG REST AND LIMITATIONS OF THE OPEN LUNG CONCEPT

Balík M.

WRAP-UP: WHAT DO I TAKE HOME

Piquilloud L.

15:45-17:00



WORK OF BREATHING , DIAPHRAGM AND SOME PHYSICS FOR ICU

📍 Hall Prague 1st floor | Ústní sdělení
Piquilloud L., Horáková L.

THE BASICS: WORK OF BREATHING IN HEALTH AND DISEASE

Mlček M.

15 min

VENTILATOR-INDUCED DIAPHRAGM DYSFUNCTION

Doorduyn J.

15 min

RESPIRATORY DRIVE – MECHANISMS, MEASUREMENTS AND CONSEQUENCES

Laffey J.

15 min

NEBULISATION THERAPY DURING INVASIVE VENTILATION: PHYSICS VS REALITY

Piquilloud L.

15 min

WRAP-UP: WHAT DO I TAKE HOME

Giosa L.

15 min

17:00-17:30	☀️ BREAK 📍 Hall Prague 1st floor Volno	
17:30-19:00	📖 ICU LESSONS FROM EXTREMES OF PHYSIOLOGY 📍 Hall Prague 1st floor Ústní sdělení Piquilloud L., Monnet X.	
	PHYSIOLOGY ON MOUNT EVEREST Khosravi M.	15 min
	SURVIVAL IN AVALANCHES – PHYSIOLOGY OF UNAIDED BREATHING TO SNOW Rauch S.	15 min
	PHYSIOLOGY OF EXTREME PRESSURES: FROM DEEP SEE DIVING TO SPACE Horáková L.	15 min
	PHYSIOLOGY OF ACCIDENTAL HYPOTHERMIA Balík M.	15 min
	WRAP-UP: WHAT DO I TAKE HOME Piquilloud L.	15 min

19:00-20:00



E-POSTER PRESENTATIONS BOOTH B
Hall Prague 1st floor | Posterová sekce

Rota (5min each)

SODIUM BICARBONATE FOR HOSPITALIZED PATIENTS WITH METABOLIC ACIDOSIS: A SYSTEMATIC REVIEW AND META-ANALYSIS OF RANDOMIZED CONTROLLED TRIALS vignarajah m., Vaillancourt J., Fansolato S.	1
HAEMODYNAMIC-ENERGETIC MECHANISM OF SUDDEN CARDIAC DEATH IN SEVERE AORTIC STENOSIS: A MODELLING STUDY Dvouletý M.	2
THE PHYSICOCHEMICAL THEORY OF GAS BUBBLE FORMATION-TRIGGERED MICROCIRCULATORY DYSFUNCTION IN THE CRITICALLY ILL WITH SUPPORTING EVIDENCE FROM RETROSPECTIVE OBSERVATIONAL STUDY. Grad I.	3
BEYOND PULMONARY EMBOLISM: RIGHT VENTRICULAR FAILURE AND CARDIAC ARREST IN DECOMPENSATED PORTOPULMONARY HYPERTENSION Leong S.	4
LIRAGLUTIDE MODULATES THE HYPOTHALAMIC LIPID PROFILE, IMPROVES MITOCHONDRIAL RESPIRATION, AND ATTENUATES HYPOTHALAMIC NEUROINFLAMMATION IN OBESE MICE Cardoso G.	5
EVALUATION OF BIOELECTRICAL IMPEDANCE MEASUREMENTS IN THE PREOPERATIVE AND POSTOPERATIVE PERIODS IN PATIENTS UNDERGOING TRANSURETHRAL RESECTION SURGERY Akkurt R.	6
MEASURED EXTRACELLULAR VS STANDARD BASE-EXCESS DURING ACUTE HYPERCAPNIA IN PIGS Halamík J.	7
PREDICTING THE IMPACT OF MECHANICAL VENTILATION ON CENTRAL VENOUS PRESSURE I. Karageorgiev	8
RESCUING THE FAILING CIRCULATION VIA HUMORAL RESET: TOTAL PLASMA EXCHANGE IN REFRACTORY POST-CARDIOPULMONARY BYPASS MIXED SHOCK. A CASE SERIES. Iacob A.	9
MORTALITY OUTCOMES OF TARGETED TEMPERATURE MANAGEMENT IN SPECIFIC PATIENT SUBGROUPS AFTER CARDIAC ARREST Caires Gomes da Silva T.	10

19:00-20:00		E-POSTER PRESENTATIONS BOOTH A 📍 Hall Prague 1st floor Posterová sekce	
		Rota (5min each)	
		HOW CAN TEE HELP IN CARDIAC ARREST ? CASE CHALLENGE, PHYSIOLOGY AND LITERATURE REVIEW Higny J.	1
		PHYSIOLOGY AT THE EDGE: SEPTIC SHOCK IN BIVAD-SUPPORTED PATIENTS. WHAT HAPPENS TO SHOCK PHYSIOLOGY WHEN THE HEART IS NO LONGER THE PUMP? Pampulova L., Georgiev S.	2
		HYPONATREMIA AND FLUID SHIFTS IN DIABETIC HYPERGLYCEMIA; SECONDARY ANALYSIS OF A PROSPECTIVE CLINICAL TRIAL Svensson R.	3
		PATIENT-SPECIFIC IN SILICO LUNG MODELLING: SIMULATING THE EFFECT OF A SEVERE LUNG INJURY ON ALVEOLAR RECRUITMENT Dunphy R.	4
		ACUTE-ONSET, DIFFICULT TO MANAGE POST-HYPOXIC MYOCLONUS: HOW FAR CAN WE GO WITH ANTIEPILEPTICS?A CASE REPORT Gkiouliava A.	6
		IMMEDIATE RENAL RESPONSE TO SEVERE ACUTE HYPERCAPNIA IN PIGS: URINARY SID AND NET ACID EXCRETION Bolnberger A.	7
		CARDIAC CONDUCTION DISTURBANCES FOLLOWING HIGH-DOSE ANTIEPILEPTIC THERAPY FOR REFRACTORY STATUS EPILEPTICUS: A CASE REPORT. Gkiouliava A.	10
		DOES PROTECTIVE MECHANICAL VENTILATION PROTECT THE BRAIN? R. Petrova	11
		A DISTINCT PHENOTYPE OF CRITICAL ILLNESS? CLINICAL PROFILE AND OUTCOMES OF HEMATOLOGICAL PATIENTS ADMITTED TO THE ICU Drumond M.	12
		HEALTH IMPACTS OF MICRO- AND NANOPLASTICS IN HUMANS: SYSTEMATIC REVIEW OF IN VIVO EVIDENCE Ho A.	13
20:00-21:00		NETWORKING EVENT – WELCOME DRINK 📍 Hall Prague 1st floor Jiné	

Čtvrtek

04. 06. 2026

Hall Prague



Registration desk

09:45-15:45



REGISTRATION

Registration desk 1st floor | Registrace firem a účastníků

Pátek

05. 06. 2026

📍 Hall Prague

Registration desk

08:00-08:30



PHYSIOLOGY ESPRESSO

📍 Hall Prague 1st floor | Ústní sdělení
Balík M.

BEDSIDE CARDIOCIRCULATORY PHYSIOLOGY

Monnet X.

30 min

08:30-09:00



ARTHUR C. GUYTON KEYNOTE LECTURE

📍 Hall Prague 1st floor | Hlavní sdělení
Hamzaoui O., Balík M.

PRINCIPLES OF GUYTONIAN HAEMODYNAMICS: THE LEGACY OF ONE OF PHYSIOLOGY'S GREATEST MINDS

Takala J.

30 min

Pátek

05. 06. 2026

📍 Hall Prague

Registration desk

09:00-10:30



SHOCK

📍 Hall Prague 1st floor | Ústní sdělení
Hamzaoui O., Balík M.

CAUSES, STAGES AND COMPENSATORY RESPONSES IN SHOCK

Teboul J.

15 min

DYNAMIC INDICATORS OF PRELOAD RESPONSIVENESS UNDER VARIABLE STROKE AND RESPIRATORY VOLUMES

Monnet X.

15 min

STRESS-RELATED MYOCARDIAL DYSFUNCTION

Chew M.

15 min

THE DIFFICULT ONE: RV FAILURE

Balík M.

15 min

RATE, RHYTHM AND OUTPUT

Havránek Š.

15 min

WHITE BOARD WRAP-UP

Hamzaoui O.

15 min

10:30-11:00



COFFEE BREAK

📍 Hall Prague 1st floor | Coffee Break

11:00-13:00



CASE CHALLENGE

📍 Hall Prague 1st floor | Panel

Balík M., Jiroutková K., Chew M., Hamzaoui O., Monnet X., Teboul J., Bělohávek J., Havránek Š.

Panellists: JL Teboul, M. Chew, J. Bělohávek, X. Monnet, O. Hamzaoui, S. Havránek

LOW FLOW STAGE: MANAGEMENT OF CARDIOGENIC SHOCK: BEYOND REVASCULARISATION

Monnet X.

LOW FLOW STAGE: WHAT CARDIAC INDEX IS THE INDICATOR OF SHOCK REFRACTORINESS (D-E STAGE SCAI) AND SHOULD TRIGGER VA-ECMO

Bělohávek J.

LOW FLOW STAGE: IMPACT OF CANNULA TYPE AND POSITIONING

Balík M.

VASOPLEGIA: REFRACTORY VASOPLEGIA – PLANS A, B, C

Teboul J.

VASOPLEGIA: MECHANISMS AND SIDE EFFECTS / IMPACT OF VASOCONSTRICTORS, INCL. ON HEART AND PULMONARY VASCULATURE

Hamzaoui O.

ARRHYTHMIC STORM: DECATECHOLAMINISATION

Chew M.

ARRHYTHMIC STORM: CHOICE OF ANTIARRHYTHMICS AND HOW ECHO CAN HELP

Balík M.

ARRHYTHMIC STORM: EXTERNAL CARDIAC PACING – ALSO FOR LV?

Havránek Š.

ARRHYTHMIC STORM: WHITE BOARD WRAP-UP: WHAT DID I LEARN FROM THIS CASE

Teboul J.

Pátek

05. 06. 2026

📍 Hall Prague

Registration desk

13:00-14:00



LUNCH BREAK

📍 Hall Prague 1st floor | Oběd

14:00-15:30



AUTOREGULATION OF ORGAN PERFUSION AKA WHICH MAP IS RIGHT?

📍 Hall Prague 1st floor | Ústní sdělení

Ince C., Laffey J.

REGULATION OF TISSUE PERFUSION AND OXYGENATION

Ince C.

15 min

AUTOREGULATION OF CEREBRAL PERFUSION

Newcombe V.

15 min

CORONARY BLOOD FLOW AND IMPLICATIONS FOR MANAGEMENTS OF MI

Bělohávek J.

15 min

TUBULOGLOMERULAR FEEDBACK AND IMPLICATION FOR AKI MANAGEMENT

Ostermann M.

15 min

FIRST VICTIMS OF SHOCK? REGULATION OF GUT AND LIVER PERFUSION

Wendon J.

15 min

WHITE BOARD WRAP-UP

Khosravi M.

15 min

Pátek

05. 06. 2026

📍 Hall Prague

Registration desk

15:30-17:00



MICROCIRCULATION

📍 Hall Prague 1st floor | Ústní sdělení
Ince C., Laffey J.

OXYGEN INTAKE BY THE CELLS AND CONTROVERSIES OF OXYGEN EXTRACTION DEFICIT IN SEPSIS
Takala J.

15 min

HOW TO MONITOR TISSUE PERFUSION AT BEDSIDE?
Hamzaoui O.

15 min

WHAT TARGET SHOULD WE USE FOR RESUSCITATION AT THE BED SIDE?
Teboul J.

15 min

VASCULAR PERMEABILITY AND FLUID KINETICS
Hahn R.

15 min

SORRY WE MADE A MISTAKE, PLEASE GIVE US BACK STARCHES!
Ince C.

15 min

WRAP-UP: WHAT DO I TAKE HOME
Duška F.

15 min

17:00-17:30



COFFEE BREAK

📍 Hall Prague 1st floor | Coffee Break

17:30-18:00



ABDOMINAL COMPARTMENT SYNDROME: OPENING LECTURES

📍 Hall Prague 1st floor | Ústní sdělení

THIRD-SPACING EFFECT OF FLUIDS
Hahn R.

15 min

INTRA-ABDOMINAL PRESSURE – INTRODUCING THE CONCEPT, MEASUREMENT, DEFINITIONS, PRINCIPLES OF MANAGEMENT
Malbrain M.

15 min

18:00-19:15



ABDOMINAL COMPARTMENT SYNDROME: CASE CHALLENGE

📍 Hall Prague 1st floor | Panel

CASE PRESENTATION - SLIDO: IAH OR ACS?

Le Roy A.

CONSEQUENCES OF IAH ON LUNG MECHANICS AND GAS EXCHANGE – IMPLICATION ON MANAGEMENT/VENTILATOR SETTING

Piquilloud L.

SLIDO: VENTILATOR SETTING – EXPERTS' COMMENT ASSESSING FLUID NEED AND PRELOAD RESPONSIVENESS IN IAH

Monnet X.

BACK TO CASE – AUDIENCE IS SHOWN RESULTS OF TESTS RECOMMENDED BY X. MONNET AND VOTE ON FLUIDS. THEY ARE ALSO GIVEN A CHOICE. EXPERTS DO NOT COMMENT IN THIS CASE AND WE GO STRAIGHT FOR THE NEXT LECTURE. FLUID MANAGEMENT IN ACS

Caironi P.

SAME QUESTION ON FLUID CHOICE. ARE THE RESULTS ANY DIFFERENT? EXPERTS COMMENT. CONSEQUENCES OF IAH ON RENAL FUNCTION

Ostermann M.

SLIDO: TAP OR NOT TO TAP, DECOMPRESSION

.

WRAP-UP: MY TAKE HOME MESSAGES

Wendon J.

Pátek

05. 06. 2026

Hall Prague  Registration desk

07:30-17:00



REGISTRATION

 Registration desk 1st floor | Registrace firem a účastníků

Sobota

06. 06. 2026

📍 Hall Prague

08:00-08:30



PHYSIOLOGY ESPRESSO

📍 Hall Prague 1st floor | Ústní sdělení
Duška F.

ESSENTIALS OF PHYSIOLOGY-BASED FLUID MANAGEMENT

Malbrain M.

30 min

08:30-09:15



CLAUDE BERNARD KEYNOTE LECTURE

📍 Hall Prague 1st floor | Hlavní sdělení
Laffey J., Wendon J.

THE CELL-BASED MODEL OF COAGULATION: FROM BENCH CONCEPT TO BEDSIDE IN CRITICAL CARE

Juffermans N.

45 min

09:15-10:45



TRAUMA AND LIFE - THREATENING HAEMORRHAGE

📍 Hall Prague 1st floor | Ústní sdělení
Laffey J., Wendon J.

HAEMODYNAMIC TARGETS, STRESSED AND UNSTRESSED VOLUMES AND THE CONTROVERSY OF VASOPRESSOR USE IN HAEMORRHAGIC SHOCK

Teboul J.

20 min

HAEMOSTATIC RESUSCITATION

Čundrle I.

20 min

INFLAMMATORY RESPONSE IN TRAUMA

Juffermans N.

20 min

DISCUSSION, WHITE BOARD WRAP-UP + FILLING THE GAPS

Wendon J.

30 min

Sobota

06. 06. 2026

📍 Hall Prague

10:45-11:15



COFFEE BREAK

📍 Hall Prague 1st floor | Coffee Break

11:15-13:15



CASE CHALLENGE - TRAUMA

📍 Hall Prague 1st floor | Panel
Galarza Barrachina L., Le Roy A.

CASE CHALLENGE - TRAUMA

Newcombe V., Caironi P., Juffermans N., Malbrain M., Duška F.

120 min

13:15-14:15



LUNCH BREAK

📍 Hall Prague 1st floor | Oběd

Sobota

06. 06. 2026

📍 Hall Prague

14:15-15:45



NEUROPHYSIOLOGY IN ACTION

📍 Hall Prague 1st floor | Ústní sdělení
Galarza Barrachina L., Newcombe V.

PATHOPHYSIOLOGY OF SUBARACHNOID HAEMORRHAGE?

Galarza Barrachina L.

15 min

BRAIN IN ACUTE LIVER FAILURE

Wendon J.

15 min

STATUS EPILEPTICUS: CHANNELS, RECEPTORS AND DRUGS WE USE

Newcombe V.

15 min

WHAT IS EXACTLY HYPOXIC MYOCLONUS?

Horáková L.

15 min

DISCUSSION, WHITE BOARD WRAP-UP + FILLING THE GAPS

Duška F.

30 min

Sobota

06. 06. 2026

📍 Hall Prague

15:45-17:15



HOW HUMAN BODY WORKS ON EXTRACORPOREAL LIFE SUPPORT

📍 Hall Prague 1st floor | Ústní sdělení

Teboul J., Jiroutková K.

PHYSIOLOGY ON VV ECMO

Giosa L.

20 min

PHYSIOLOGY ON VA ECMO

Mlček M.

20 min

AWAKE ECMO AND PRACTICAL TROUBLESHOOTING ON VV ECMO

Balík M.

20 min

PRACTICAL TROUBLESHOOTING (E.G. HYPOXIA AND HYPERCAPNIA) VA ECMO

Bělohávek J.

20 min

WRAP-UP: WHAT DO I TAKE HOME

Teboul J.

10 min

17:15-17:45



CLOSING REMARKS / BEST POSTER AWARDED

📍 Hall Prague 1st floor | Jiné

Wendon J., Duška F., Balík M.

GUIDELINES, PHYSIOLOGY AND THE PATIENT IN FRONT OF YOU

Wendon J.

15 min

BEST POSTER AWARD AND CLOSING REMARKS

Duška F.

15 min

Platinový partner



Vystavovatel



Děkujeme všem zúčastněným firmám za podporu této akce