



**33<sup>RD</sup> ANNUAL  
CONGRESS**  

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**6-9 DECEMBER**

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For physicians, nurses, and other  
allied healthcare professionals

## Diagnostic work-up of AKI in ICU

Thematic Session

- To review the role of traditional investigations in diagnosis of AKI
- To appreciate the pros and cons of different anticoagulations of RRT

### Urine dipstick

E. Hoste (Ghent, Belgium)

### Renal biopsy

O. Joannes-Boyau (Pessac, France)

### AKI biomarkers

M. Meersch (Münster, Germany)

### Imaging techniques

T. Rimmelé (Lyon, France)

### Continuous GFR measurement

M. Joannidis (Innsbruck, Austria)

Organizer:  
Acute Kidney Injury

## AKI in specific patient cohorts

Thematic Session

- To appreciate the different causes & diagnostic challenges of AKI in different patient cohorts
- To learn management priorities in AKI in different patient cohorts
- To appreciate the short and long-term complications of AKI in specific cohorts

### AKI in cardiac surgery patients

M. Meersch (Münster, Germany)

### AKI in cancer patients

M. Ostermann (London, United Kingdom)

### AKI in liver patients

M. McPhail (London, United Kingdom)

### AKI in trauma patients

A. Schneider (Lausanne, Switzerland)

### AKI during pregnancy

K. Lane (London, United Kingdom)

### AKI survivors

E. Hoste (Ghent, Belgium)

Organizer:

Acute Kidney Injury

## Weaning: the controversies

Thematic Session

- Understand the different approaches to wean
- Learn how to individualize therapy
- Be aware of the complications and outcomes

### **New weaning classification. Clinical implications**

T. Pham (Le Kremlin-Bicêtre, France)

### **Spontaneous beathing trials: which method?**

C. Subira (Madrid, Spain, Spain)

### **Should the patients have a rest before extubation?**

M.D.M. Fernandez (Terrassa, Spain)

### **Post-extubation respiratory failure: prevention and treatment.**

A. de Jong (Montpellier, France)

### **Dedicated weaning facilities**

A. Jubran (Chicago, United States of America)

Organizer:

Acute Respiratory Failure

## Personalised PEEP in ARDS

Thematic Session

- Review the different methods to titrate PEEP
- Understand the caveats of different approaches
- Learn how to titrate PEEP at the bedside

### Recruitment maneuvers and PEEP adjustment

L. Amado-Rodriguez (Oviedo, Spain)

### Assessing recruitment at the bedside

L. Brochard (Toronto, Canada)

### Adjustment using airway pressures

S. Sahetya (Baltimore, United States of America)

### Using electric impedance tomography

F. Suarez Sipmann (Madrid, Spain)

### Using transpulmonary pressure

C. Guérin (Lyon, France)

### Using thoracic CT scan

L. Gattinoni (Göttingen, Germany)

Organizer:

Acute Respiratory Failure

## The hypercapnic patient

Thematic Session

- Learn the physiological mechanisms of hypercapnia
- Provide a physiologically rooted therapeutic support

### Therapeutic options in hypercapnic ARDS and COPD

L. Piquilloud (Lausanne, Switzerland)

Organizer:

Acute Respiratory Failure

## Challenges in perioperative medicine

Thematic Session

### How to perform haemodynamic monitoring in surgical patients

M. Habicher (Giessen, Germany)

### Perioperative blood pressure management: what is the optimal blood pressure?

D. Sessler (Cleveland, United States of America)

### Is it pressure or flow that matters?

T. Scheeren (Groningen, Netherlands)

### Perioperative goal-directed therapy: what is the evidence?

B. Saugel (Hamburg, Germany)

### Myocardial injury after non-cardiac surgery: only troponitis?

M. Chew (Linköping, Sweden)

### Haemodynamic management of patients with hypertrophic cardiomyopathy in the ICU

B. Cholley (Paris, France)

Organizer:  
Cardiovascular Dynamics

Partner:  
Perioperative Care

## Haemodynamic monitoring in the ICU

Thematic Session

- To get an update in new developments in hemodynamic monitoring

### **Are less invasive devices reliable?**

T. Scheeren (Groningen, Netherlands)

### **I prefer transpulmonary thermodilution**

X. Monnet (Le Kremlin Bicêtre, France)

### **I still use the PA catheter**

D. De Backer (Brussels, Belgium)

### **I need only echocardiography**

A. Vieillard-Baron (Boulogne-Billancourt, France)

### **How I predict fluid responsiveness**

S. Myatra (Mumbai, India)

### **Cardiovascular monitoring in patients with abdominal hypertension**

M. Malbrain (Jette, Belgium)

Organizer:

Cardiovascular Dynamics



## Is the PCO<sub>2</sub> gap a surrogate for assessing microcirculation?

Thematic Session

- Controversial topic within monitoring in sepsis

### Presentation

A. Dubin (Buenos Aires, Argentina)

Organizer:

Cardiovascular Dynamics

## Do the right thing - Fundamentals of the ethical approach

Thematic Session

- Understand ethical reasoning in daily clinical practice

### **The basic principles**

A. Michalsen (Konstanz, Germany)

### **Cultural differences**

V. Metaxa (London, United Kingdom)

### **Multidisciplinary ICU team - who decides?**

J. Latour (Plymouth, United Kingdom)

### **Economics as health care driver?**

J.R. Curtis (Seattle, United States of America)

### **Conflicts in Intensive Care**

J. Takala (Bern, Switzerland)

Organizer:

Ethics

## Research in ethics - What's new

Thematic Session

- Learn about recent developments and research results

### **Worldwide end-of-life practices - the Ethicus II study**

C.L. Sprung (Jerusalem, Israel)

### **Current knowledge on disproportionate care**

D. Benoit (Ghent, Belgium)

### **The ESICM Sytematic review of palliative care in the ICU**

V. Metaxa (London, United Kingdom)

### **Novel communication strategies in the ICU**

E. Azoulay (Paris, France)

### **Advance Care planning in the ICU**

J.R. Curtis (Seattle, United States of America)

Organizer:

Ethics

## Good palliative care or assisted dying?

Thematic Session

- Learn about potentially inappropriate care and its effects on patient care and clinician well-being

### What I would never do

C.L. Sprung (Jerusalem, Israel)

### What I would never do

V. Metaxa (London, United Kingdom)

Organizer:

Ethics

## Muscle weakness and atrophy - A continuing challenge

Thematic Session

- Muscle weakness occurs frequently in ICU patients
- Muscle weakness is associated with poor outcome (prolonged LOS, mortality)
- If you do not measure it you will not intervene (AKI and weakness)

### Muscle strength as a proxy for frailty

H. Flaatten (Bergen, Norway)

### Can we measure muscle wasting in the ICU (ultrasound)

Z.A. Puthuchery (London, United Kingdom)

### Muscle wasting and the eGFR - a bad marriage?

M. Ostermann (London, United Kingdom)

### Muscle weakness and (long-term) outcome

G. Van den Berghe (Leuven, Belgium)

### Can we prevent muscle wasting by nutrition or exercise? (the NEXIS trial)

P.F. Laterre (Brussels, Belgium)

Organizer:

Health Services Research & Outcome

## Elderly frail patients on the ICU - Now what?

Thematic Session

- Elderly patients are often frail and have more comorbidities
- The outcome of elderly ICU patients is dependent on their prior health status
- Future perspectives for research and guidelines are discussed

### Illness trajectories in elderly patients

N. Lone (Edinburgh, United Kingdom)

### Immunosenescence and sepsis in the elderly

H. Vallet (Paris, France)

### More than one week on the ICU - Whats predicts outcome in elderly patients?

M. Kerckhoffs (Utrecht, Netherlands)

### Do elderly patients need other guidelines?

H. Flaatten (Bergen, Norway)

### The most forgotten victim - The second victim!

B. Guidet (Paris, France)

Organizer:

Health Services Research & Outcome

## A very frail patient in the Emergency Department - Should we admit him/her to the ICU?

Thematic Session

- What is the outcome of ICU treatment in very frail patients?
- Can we predict outcomes before ICU admission?
- What are the consequences of denying admission to frail patients?

### **Comprehensive assessment of frailty (in young and old) is laborious - Or not?**

M. Kerckhoffs (Utrecht, Netherlands)

### **What tools have we got to decide to admit or refuse a frail patient?**

B. Guidet (Paris, France)

Organizer:

Health Services Research & Outcome

## Non influenza respiratory viral infections

Thematic Session

- Epidemiology of virus in the ICU
- Interpretation of identification of virus in the airways
- Impact of viral airway identification on outcomes

### Community-acquired respiratory viruses

P. Ramirez (València, Spain)

### Cytomegalovirus infection in immunocompetent critically ill patients

L. Bos (Amsterdam, Netherlands)

### Emergent virus (SARS-CoV, MERS-CoV)

Y. Arabi (Riyadh, Saudi Arabia)

### Varicella-zoster virus pneumonia (in unvaccinated patients)

J. Schouten (Nijmegen, Netherlands)

### Diagnosis and interpretation of viral infections in ICU

C. Roger (Nîmes, France)

Organizer:

Infection



## Antibiotic Stewardship Programme in the ICU - Think locally act globally

Thematic Session

- Design and implementation of ASP in an ICU
- How to use information technologies in ASP
- How to evaluate the success/failure of ASP

### How to design a ASP - from bottom to top

T. Lisboa (Porto Alegre, Brazil)

### How to involve stakeholders in an institutional ASP

J. Schouten (Nijmegen, Netherlands)

### Infection vs colonisation - impact of new diagnostic technologies in ASP

A. Conway Morris (Cambridge, United Kingdom)

### Information technologies and communication in ASP

P. Pova (Lisbon, Portugal)

### What are the factors behind the success or failure of an ASP?

L. De Bus (Gent, Belgium)

### How to evaluate the results of an ASP

P. Depuydt (Ghent, France)

Organizer:

Infection

## How do I manage an outbreak of XDR/PDR pathogens in my ICU?

Thematic Session

- Management of XDR/PDR outbreak in countries with high and low prevalence of MDR
- Impact of screening and isolation policies
- Impact of decolonization

### How do I manage an outbreak in an area of high prevalence of MDR pathogens?

P. Ramirez (València, Spain)

### How do I manage an outbreak in an area of low prevalence of MDR pathogens?

L. Derde (Utrecht, Netherlands)

Organizer:

Infection

## Acid / base electrolytes

Thematic Session

- Update coagulation knowledge
- Update anticoagulant options
- Focus on liver failure

### **Stewart's approach: let's try to understand it!**

L. Gattinoni (Göttingen, Germany)

### **Stewart's approach: let's apply it now in clinical practice**

F. Duska (Prague, Czech Republic)

### **Intravenous fluids and acid base derangements**

P. Elbers (Amsterdam, Netherlands)

### **Effects of diuretics on acid base and electrolytes**

P. Caironi (Turin, Italy)

### **Impact of GI disorders on acid base status**

A. Reintam Blaser (Tartu, Estonia)

Organizer:

Metabolism, Endocrinology & Nutrition

## Metabolic challenges

Thematic Session

- Provide metabolic and nutritional strategies in specific conditions

### **Ketogenic diets in brain injury**

M. Oddo (Lausanne, Switzerland)

### **Ketogenic diets in general ICU patients**

Z.A. Puthuchery (London, United Kingdom)

### **Nutritional support in GI failure**

A. Reintam Blaser (Tartu, Estonia)

### **Nutritional strategy in elderly patient**

M. Berger (Lausanne, Switzerland)

### **Insulin resistance and ICU acquired diabetes mellitus**

K. Möller (Copenhagen, Denmark)

### **Scoring intestinal failure**

J. Starkopf (Tartu, Estonia)

Organizer:

Metabolism, Endocrinology & Nutrition

## Can nutrition therapy reduce morbi-mortality in the ICU?

Thematic Session

- Identify aspects that impact on outcome

### Which endpoints might be affected by nutrition?

P. Singer (Petah Tiqva, Israel)

### How does nutrition therapy influence morbi-mortality?

C. Ichai (Nice, France)

Organizer:

Metabolism, Endocrinology & Nutrition

## Targeted treatments for brain trauma

Thematic Session

- What are therapeutic goals in TBI?

### **TBI management in European ICU's: lessons from Center-TBI**

N. Stocchetti (Milan, Italy)

### **Temperature management in TBI: beyond fever control?**

P. Bouzat (Grenoble, France)

### **Sedatives for neuroprotection in severe TBI**

J. Horn (Amsterdam, Netherlands)

### **Individualised cerebral perfusion pressure: results from Cogitate**

M. Aries (Maastricht, Netherlands)

### **Coagulopathy in brain trauma: how to assess and manage?**

N. Juffermans (Amsterdam, Netherlands)

### **Treatment escalation for intracranial hypertension in traumatic brain injury**

M. van der Jagt (Rotterdam, Netherlands)

Organizer:

Neuro-Intensive Care

## Early prognosticators in comatose patients

Thematic Session

- What are early prognosticators in comatose patients?
- Point to the danger of self-fulfilling prophecies
- Learn about possible future therapies

### Outcome prediction in coma: the danger of self-fulfilling prophecies

V. McCredie (Toronto, Canada)

### Clinical assessment of the comatose patient in the ICU: early signs that may predict outcome

R. Helbok (Innsbruck, Austria)

### EEG in unresponsive patients

J. Claassen (Columbus, United States of America)

### Blood biomarkers: are they helpful ?

R. Sonnevile (Paris, France)

### Pharmacotherapy in coma: can we wake them up?

E. Zanier (Milano, Italy)

### Curing coma: an impossible dream?

C. Hemphill (San Francisco, United States of America)

Organizer:

Neuro-Intensive Care

## Fueling the injured brain

Thematic Session

### Type and timing of nutrition: does the brain care?

G. Van den Berghe (Leuven, Belgium)

### Feeding the injured brain: present and future

M. Oddo (Lausanne, Switzerland)

Organizer:

Neuro-Intensive Care

## The whistle blower

Thematic Session

- To manage the consequences of healthcare and create a safe space

### Speaking out - Risk or duty?

N. Efstathiou (Birmingham, United Kingdom)

### Creating the culture - Who and how?

J. Latour (Plymouth, United Kingdom)

Organizer:

Nurses and Allied Healthcare Professionals



## The unpopular patient

Thematic Session

- To discuss and stimulate awareness on hidden topics in ICU healthcare
- To reveal hidden issues
- Which includes the long stay, obese, alcohol, drugs, social issues, difficult family, difficult behaviour, prisoner

### **Ethical issues with the unpopular patient, test your own prejudice**

J. Benbenishty (Jerusalem, Israel)

### **Any disease in alcohol and drug addicts; keep up smiling**

K. Iliopoulou (London, United Kingdom)

### **Maintaining professionalism with difficult patients and families**

N. Kentish-Barnes (Paris, France)

### **Dealing with the long-stay patient, an individual and team challenge**

M. Van Mol (Rotterdam, Netherlands)

### **How to take care of a guarded criminal, is it an ethical issue?**

A.S. Debue (Paris, France)

Organizer:

Nurses and Allied Healthcare Professionals

## Blood transfusions 2.0

Thematic Session

- Pathophysiological consequences of transfusions
- New clinical approaches to optimize transfusions
- Revised and new indications for transfusions

### **Macro- and micro-haemodynamic effects of erythrocytes as indication trigger**

A.P.J. Vlaar (Amsterdam, Netherlands)

### **Which patients should still receive RBC transfusions, and why?**

N. Juffermans (Amsterdam, Netherlands)

### **Whole blood transfusions or components?**

I. Jammer (Bergen, Norway)

### **Blood substitutes**

J. Bakker (Rotterdam, Netherlands)

### **Coagulation updates and news from cardiac surgery?**

A. Vonk (Amsterdam, Netherlands)

Organizer:  
Perioperative Care

## Pre-operative assessment of frail patients

Thematic Session

- Pre-operative assessment of frail patients
- Post-operative risks for patients with frailty
- Preventive measures to avoid adverse post-operative outcomes

### How to handle frail patients perioperatively

B. Creagh-Brown (Guildford, United Kingdom)

Organizer:

Perioperative Care

## Enhancing recovery or fast tracking the ICU

Thematic Session

- Perioperative care is changing and consequently Perioperative ICU care has to change, too
- Risk and change of perspectives of the ICU within ERAS pathways
- Resulting of possibilities to improve ICU care

### Enhanced recovery after surgery - rationale

T. Abbott (London, United Kingdom)

### Rationale of frequent analysis of implementation rates in the OR and ICU

A. Feldheiser (Essen, Germany)

### Early rehabilitation for ICU patients to enhance recovery

E. Corner (London, United Kingdom)

### What happens to an ICU in times of ERAS

Y.L. Nguyen (Paris, France)

### Is a benefit of postop ICU shown

M. Chew (Linköping, Sweden)

### Future role of the ICU for perioperative patients

J. Whittle (London, United Kingdom)

Organizer:

Perioperative Care

## The endothelium in sepsis

Thematic Session

- Describe the role of endothelium and endothelial functions affected by sepsis.
- Assess vasoregulation, barrier function, inflammation, and hemostasis

### Activation of endothelium: basic mechanisms

N. Juffermans (Amsterdam, Netherlands)

### Endothelial biomarkers

R. Ferrer Roca (Barcelona, Spain)

### Endothelial functions affected by sepsis

M. Leone (Marseille, France)

### Endothelium as a therapeutic target

B.G. Chousterman (Paris, France)

Organizer:

Systemic Inflammation and Sepsis

## Early detection and prognostication of sepsis

Thematic Session

- Proposal of different tools to improve early diagnosis and risk stratification

### **Are organ dysfunction scores useful in sepsis diagnosis?**

M. Shankar-Hari (London, United Kingdom)

### **Biomarkers: how to use them?**

P. Ramirez (València, Spain)

### **Automatic systems (E-alert): is there a role for AI?**

M. Komorowski (London, United Kingdom)

### **Innovation in molecular microbiological tests?**

L. Lechuga (Barcelona, Spain)

### **Surveillance of MDR: friend or foe**

M. Leone (Marseille, France)

### **Immunomonitoring**

M. Girardis (Modena, Italy)

Organizer:

Systemic Inflammation and Sepsis

## Identification and management of sepsis in frail patients

Thematic Session

- Describe the clinical parameters, biomarkers and scores used to identify and treat frail patients with sepsis
- Describe how advanced age and comorbidities alter immune response in sepsis

### Frail patients: who are they?

B. Guidet (Paris, France)

### How I manage my frail patients with sepsis?

S. Einav (Jerusalem, Israel)

Organizer:

Systemic Inflammation and Sepsis

## Controversies in haemorrhagic shock

Thematic Session

- To identify the best practice in emergency hemorrhagic shock and hemostasis
- To discuss the most debated interventions in the management of bleeding patients

### **When should we transfuse platelets in trauma patients?**

S. Hamada (Paris, France)

### **When and who to give fibrinogen?**

N. Juffermans (Amsterdam, Netherlands)

### **Plasma of factor concentrates in trauma patients**

M. Dünser (Linz, Austria)

Organizer:

Trauma and Emergency Medicine



## Update on Advanced Life Support

Thematic Session

- Provide update on important ALS interventions, based on results of recent studies

### **Airway management**

J. Nolan (Bath, United Kingdom)

### **Adrenaline in cardiac arrest: an update**

T. Olasveengen (Oslo, Norway)

### **Can we predict defibrillation success during cardiac arrest?**

G. Ristagno (Milan, Italy)

### **Heart-lung interactions during CPR**

A. Vieillard-Baron (Boulogne-Billancourt, France)

### **Airway closure during cardiac arrest**

D.L. Grieco (Roma, Italy)

### **Gas exchange, metabolic rate and cardiac output interactions**

J. Takala (Bern, Switzerland)

Organizers:

Trauma and Emergency Medicine    Cardiovascular Dynamics    Acute Respiratory Failure

## How do I manage the thromboprophylaxis of my trauma patient?

Thematic Session

- When to give thromboprophylaxis to severe trauma patients?
- What thromboprophylaxis to give to severe trauma patients?

### Why do I need thromboprophylaxis for trauma patients?

M. Dünser (Linz, Austria)

Organizer:

Trauma and Emergency Medicine

## Joint with ERC - After cardiac arrest

Thematic Session

- What are the main objectives and strategies of post-resuscitation care?
- To understand the objectives of ventilatory and circulatory management after CA
- To identify the priorities in post-resuscitation care

### **Cardiac arrest centres: do they make a difference?**

J. Nolan (Bath, United Kingdom)

### **Coronary reperfusion strategies**

G. Ristagno (Milan, Italy)

### **How to optimise cerebral perfusion**

M. Skrifvars (Helsinki, Finland)

### **Targeted temperature management - Where do we stand?**

T. Olasveengen (Oslo, Norway)

Organizer:

Trauma and Emergency Medicine

## ICM Year in Review 1

Thematic Session

### News from ICM on ECMO

A. Combes (Paris, France)

### News from ICM on Sepsis

M. Shankar-Hari (London, United Kingdom)

### News from ICM on Ventilation

A. de Jong (Montpellier, France)

Organizer:

Research

## ICM Year in Review 2

Thematic Session

### News from ICM on Infections

I. Martin-Loeches (Dublin, Ireland)

### News from ICM on Ultrasounds

P. Mayo (New York, United States of America)

### News from ICM on Neuro

G. Meyfroidt (Leuven, Belgium)

Organizer:

Research

## ICM Experimental 2 - The lung: an immuno-metabolic organ

Thematic Session

### Can volatile organic compounds differentiate ALI phenotypes?

L. Bos (Amsterdam, Netherlands)

### Is programmed cell death a therapeutic target?

B. Patel (London, United Kingdom)

Organizer:

Research

## ICM Experimental 1 - A 2020 view of lung mechanics

Thematic Session

### Mechanical power: from the mathematical model to the bedside

T. Barnes (London, United Kingdom)

### Does it matter for remote organs?

O. Peñuelas (Getafe, Spain)

Organizer:

Research

## Blood purification - Sepsis, liver failure, beyond AKI

Thematic Session

- To describe the concept and pathophysiological rationale for blood purification
- To review therapeutic options available in 2020 for blood purification
- To review the evidence supporting blood purification in sepsis / cardiac surgery and acute liver failure

### Rationale for blood purification

T. Rimmelé (Lyon, France)

### Blood purification techniques

J. Kellum (Pittsburgh, United States of America)

### Blood purification in sepsis

M. Antonelli (Roma, Italy)

### Blood purification in cardiac surgery

M. Balik (Prague, Czech Republic)

#### Other

Collaborative Session

Organizers:

Acute Kidney Injury   Metabolism, Endocrinology & Nutrition   Systemic Inflammation and Sepsis   Cardiovascular Dynamics

## The challenges of managing AKI

Thematic Session

- To address common challenges in the routine clinical practice of AKI
- To discuss ethical issues in critical care nephrology
- To review the management of AKI survivors

### Do we need AKI alerts and new biomarkers in ICU?

E. Hoste (Ghent, Belgium)

### How should we feed patients with AKI?

C.A. Pfortmueller (Bern, Switzerland)

### Should all AKI patients be offered RRT?

R. Gerritsen (Leeuwarden, Netherlands)

### How should AKI survivors be followed up?

A. Schneider (Lausanne, Switzerland)

### How can the healthcare burden of AKI be reduced?

M. van Dam (Utrecht, Netherlands)

#### Other

Collaborative Session

Organizers:

Acute Kidney Injury   Metabolism, Endocrinology & Nutrition   Health Services Research & Outcome

## New developments that every intensivist should know about

Thematic Session

### Cardiology

S. Price (London, United Kingdom)

### Cardiac Surgery

A. Vonk (Amsterdam, Netherlands)

### Pulmonology

E. Nossent (Amsterdam, Netherlands)

### Neurology

S. Koch (Berlin, Germany)

### Anesthesiology

S. Loer (Amsterdam, Netherlands)

### Other

Collaborative Session

Organizer:

Education



## Myth Buster - Facing the myths

Thematic Session

### False beliefs about acute and chronic respiratory failure

A. Demoule (Paris, France)

### If lactate is normal the circulation is adequate

J. Bakker (New York, United States of America)

### Epinephrine improves outcome after cardiac arrest

J. Nolan (Bath, United Kingdom)

### False beliefs about duration of antibiotic therapy

J. De Waele (Gent, Belgium)

### Prognostication of individual survival chances is not possible

M. van der Schaar (Cambridge, United Kingdom)

### False beliefs in the management of fever

F. Schortgen (Paris, France)

#### Other

Collaborative Session

Organizers:

Acute Respiratory Failure Infection Health Services Research & Outcome Cardiovascular Dynamics Trauma and Emergency Medicine

## Personalised medicine in the ICU

Thematic Session

### How to personalise PEEP and tidal volume in ARDS

T. Mauri (Milano, Italy)

### Assessing and optimising respiratory drive at the bedside

I. Telias (Toronto, Canada)

### How to personalise the definition and treatment of hypotension

B. Saugel (Hamburg, Germany)

### Personalised fluid management

A. Joosten (Paris, France)

### How to personalise admission - Do we need informed consent for the ICU?

M. Kerckhoffs (Utrecht, Netherlands)

### How to personalise end-of-life care

D. Cook (Hamilton, Canada)

### Using real time bedside data to predict cardiorespiratory insufficiency

M. Pinsky (Pittsburgh, PA, United States of America)

### Therapeutic goals in intensive care medicine - Pure survival versus prospect of life

A. Valentin (Schwarzach, Austria)

#### Other

Collaborative Session

Organizers:

Acute Respiratory Failure Cardiovascular Dynamics Ethics

## Severe interstitial pneumonias in the ICU

Thematic Session

### Diagnostic strategy

A. Torres (Barcelona, Spain)

### Role of lung biopsy: when and for whom

L. Papazian (Marseille, France)

### Non-infectious interstitial pneumonias and vasculitis

M. Ostermann (London, United Kingdom)

### Role of immunosuppressants

L. Camporota (London, United Kingdom)

### Role of extracorporeal support

A. Combes (Paris, France)

### What's new in the diagnosis and management of nosocomial pneumonia

D. Koulenti (Athens, Greece)

#### Other

Collaborative Session

Organizers:

Acute Respiratory Failure Acute Kidney Injury

## Microcirculation: how to assess and modify patient outcomes

Thematic Session

### How to assess

M.P. Hilty (Zürich, Switzerland, Switzerland)

### How to modify

J. Duranteau (Le Kremlin-Bicêtre, France)

### Relation to outcome

G. Hernandez (Santiago, Chile)

### Different microcirculatory resuscitation end points in various age groups

C. Jung (Düsseldorf, Germany)

### Fluid de-resuscitation

A. Wong (London, United Kingdom)

### Vasopressor effects on renal microcirculation

M. Ostermann (London, United Kingdom)

### Other

Collaborative Session

Organizers:

Cardiovascular Dynamics Acute Kidney Injury Health Services Research & Outcome

## How to predict anything: changing the ICU with AI/ML

Thematic Session

### Machine learning for the prediction of sepsis

P.J. Thoral (Amsterdam, Netherlands)

### Understanding ICU organisation and workload with data

N. de Keizer (Amsterdam, Netherlands)

#### Other

Collaborative Session

Organizers:

Data Science   Cardiovascular Dynamics   Acute Respiratory Failure   Acute Kidney Injury

## The financial burden of intensive care

Thematic Session

### Early goal directed therapy - Are the dollars spend worth the Value?

K. Rowan (London, United Kingdom)

### Overachievers versus underperformers - Costs in the ICU!

B. Guidet (Paris, France)

### Physiotherapy on the ICU is worth every penny!

S. Grossenbacher-Eggmann (Bern, Switzerland)

### What does it cost to be ethical?

V. Metaxa (London, United Kingdom)

#### Other

Collaborative Session

Organizers:

Health Services Research & Outcome Systemic Inflammation and Sepsis Acute Respiratory Failure Ethics Nurses and Allied Healthcare Professionals

## Killer intoxications

Thematic Session

### Most intoxication admitted to the ICU do not need any treatment

D. De Lange (Utrecht, Netherlands)

### High dose insulin euglycemic treatment (HIET) for calcium channel antagonist or beta-blocker intoxications

M. St-Onge (Quebec, Canada)

### Extra-corporeal clearance of toxins

S. Gosselin (Montreal, Canada)

#### Other

Collaborative Session

Organizers:

Health Services Research & Outcome   Acute Kidney Injury   Metabolism, Endocrinology & Nutrition

## Guidelines you should know about

Thematic Session

### Transfusion strategies in non-bleeding critically ill adults

S. de Bruin (Amsterdam, Netherlands)

### Mechanical ventilation in adults with ARDS

L. Munshi (Toronto, Canada)

### The ESICM AKI guideline

M. Joannidis (Innsbruck, Austria)

### Surviving Sepsis Campaign

L. Evans (Seattle, United States of America)

### What's new in metabolic and nutritional care?

A. Reintam Blaser (Tartu, Estonia)

### Management of acute-on-chronic liver failure at the ICU

V. Fuhrmann (Hambourg, Germany)

### ECCO2R for COPD patients

M. Ranieri (Bologna, Italy)

#### Other

Collaborative Session

Organizers:

Health Services Research & Outcome    Cardiovascular Dynamics    Acute Respiratory Failure    Acute Kidney Injury    Systemic Inflammation and Sepsis  
Metabolism, Endocrinology & Nutrition



## Influenza and influenza associated aspergillosis

Thematic Session

- Discuss the interaction between Influenza and Aspergillus
- Present the epidemiology and regional differences in IAA
- How to do the diagnosis and management of IAA

### Influenza and Aspergillus cross talk

I. Martin-Loeches (Dublin, Ireland)

### Epidemiology and regional differences in IAA

A. Conway Morris (Cambridge, United Kingdom)

### Diagnosis and management of IAA

P. Depuydt (Ghent, France)

#### Other

Collaborative Session

Organizers:

Infection Acute Respiratory Failure

## Isolation and isolation policies

Thematic Session

- Impact of isolation policies
- Management of persistent colonization
- Discuss isolation practices and patient safety/care

### Isolation for Gram negatives, where is the evidence?

L. Derde (Utrecht, Netherlands)

### Isolating patients is bad for their care

S. Labeau (Ghent, Belgium)

### Correction of hyponatremia, beneficial or not?

E. de Jonge (Leiden, Netherlands)

#### Other

Collaborative Session

Organizers:

Infection Nurses and Allied Healthcare Professionals Health Services Research & Outcome

## How to evaluate body composition in fluid resuscitated patients

Thematic Session

### Bioimpedance can make it

J. Grunow (Berlin, Germany)

### Bioimpedance should certainly not be used

S. Stapel (Amsterdam, Netherlands)

### Phase angle to predict ICU outcome

M. Berger (Lausanne, Switzerland)

#### Other

Collaborative Session

Organizers:

Metabolism, Endocrinology & Nutrition Data Science

## Neurosurgical controversies in neurocritical care

Thematic Session

### What is the best approach for intraventricular haemorrhage?

C. Hemphill (San Francisco, United States of America)

### Tranexamic acid in traumatic brain injury - A critical appraisal

F.S. Taccone (Brussels, Belgium)

### Priorities in TBI patients with haemorrhagic shock

S. Hamada (Paris, France)

#### Other

Collaborative Session

Organizers:

Neuro-Intensive Care Trauma and Emergency Medicine

## Advancing critical care in low and middle income countries

Thematic Session

### Sepsis

F.R. Machado (São Paulo, Brazil)

### Trauma

M. Dünser (Linz, Austria)

### Acute heart failure

A. Mebazaa (Paris, France)

### Stroke

G. Silva (São Paulo, Brazil)

### Other

Collaborative Session

Organizers:

Neuro-Intensive Care Cardiovascular Dynamics Acute Respiratory Failure Trauma and Emergency Medicine Nurses and Allied Healthcare Professionals Research

## Nursing shortages: how they arise and what to do

Thematic Session

- Providing insights on shortage of nurses from different perspectives
- Think of strategies to combat the shortage of nurses

### **Nursing capacity: what do you need in planning? Addressing nursing workload in planning nursing staff**

M. Hoogendoorn (Zwolle, Netherlands)

### **Strategies for implementing a healthy work culture**

R. Kleinpell (Nashville, United States of America)

### **Reduce non-beneficial therapy!**

R. Endacott (Plymouth, United Kingdom)

#### Other

Collaborative Session

Organizers:

Nurses and Allied Healthcare Professionals Health Services Research & Outcome Ethics

## Biomarkers perioperatively - Are they clinically useful?

Thematic Session

### Kidney - Still creatinine or something fancier

M. Meersch (Münster, Germany)

### Infection - Screening postop with biomarkers or just with clinical course?

P. Pova (Lisbon, Portugal)

### Liver - Usefulness of transaminases, bilirubin and beyond

K. Roedl (Hamburg, Germany)

### Coagulation - Beyond just quick, aPTT and thrombos

M. Bachler (Innsbruck, Austria)

### MINS - Troponins

M. Chew (Linköping, Sweden)

#### Other

Collaborative Session

Organizers:

Perioperative Care Infection Systemic Inflammation and Sepsis Metabolism, Endocrinology & Nutrition Acute Kidney Injury

## Paediatrics SSC 2020: next challenges in septic shock management

Thematic Session

### **Respiratory and hemodynamic support. Should aggressive management be the rule?**

H. Flori (Michigan, United States of America)

### **Diagnosis and severity stratification. The culprit of septic shock management?**

S. Weiss (Philadelphia, United States of America)

### **Innovative concepts in sepsis immunobiology. What will come next in paediatric septic shock?**

P. Tissieres (Paris, France)

Organizer:

Systemic Inflammation and Sepsis



## What is the evidence in sepsis therapy?

Thematic Session

### Which patients should receive antibiotics in the first hour?

J. De Waele (Gent, Belgium)

### Choosing the right vasopressor in septic shock

L. Hajjar (Sao Paulo, Brazil)

### What is the right timing and technique for source control?

I. Martin-Loeches (Dublin, Ireland)

### Role for biomarker-guide algorithms vs fixed duration in ASP

P. Ramirez (València, Spain)

### Are new antibiotics ready for sepsis?

R. Ferrer Roca (Barcelona, Spain)

### Precision medicine in sepsis: the case of adjunctive therapies

P. Pickkers (Nijmegen, Netherlands)

### Vascular dysfunction and autonomic failure in septic shock and resuscitation

M. Ferrario (Milan, Italy)

#### Other

Collaborative Session

Organizers:

Systemic Inflammation and Sepsis    Cardiovascular Dynamics    Infection    Acute Respiratory Failure

## Potential of big data in sepsis

Thematic Session

### Ethical challenges of big data

K. Colpaert (Ghent, Belgium)

#### Other

Collaborative Session

Organizers:

Systemic Inflammation and Sepsis Data Science Infection Ethics

## Controversies in targeted temperature management after cardiac arrest

Thematic Session

### Intravascular, surface, or intranasal cooling?

J.B. Lascarrou (Nantes, France)

### Duration and timing: does it make any difference?

K. Sunde (Oslo, Norway)

#### Other

Collaborative Session

Organizers:

Trauma and Emergency Medicine Neuro-Intensive Care

## Long-term outcomes in ICU patients

Thematic Session

### After cardiac arrest

C. Sandroni (Rome, Italy)

### After ARDS

M. Herridge (Toronto, Canada)

### After AKI

E. Hoste (Ghent, Belgium)

### After TBI

G. Meyfroidt (Leuven, Belgium)

### After sepsis

M. Shankar-Hari (London, United Kingdom)

### In the elderly patient

H. Flaatten (Bergen, Norway)

### Opioid prescribing in the ICU; are we harming patients long-term

H. Wunsch (Toronto, Canada)

#### Other

Collaborative Session

Organizers:

Trauma and Emergency Medicine   Acute Kidney Injury   Neuro-Intensive Care   Acute Respiratory Failure

## New strategies for treating infection

Thematic Session

- New ways to treat infection other than with antibiotics
- Potential role of bacteriophages
- Potential role of anti-toxins

### Potential role of anti-toxins

P.F. Laterre (Brussels, Belgium)

Organizer:

Infection

## Joint with ISF - SARS-CoV-2 ... a new sepsis phenotype?

Thematic Session

### Is SARS-CoV-2 sepsis?

M. Shankar-Hari (London, United Kingdom)

### Pathophysiology of SARS-CoV-2

M. Singer (London, United Kingdom)

### Epidemiology and outcomes in ICU patients

K. Rowan (London, United Kingdom)

### The challenge of SARS-CoV-2 in LMICs

F.R. Machado (São Paulo, Brazil)

### Research lessons

D. Angus (Pittsburgh, United States of America)

Organizer:

Systemic Inflammation and Sepsis

## Joint with SEMICYUC - Challenges of Intensive Care in Spain

Thematic Session

### Response to COVID-19 pandemics in Spain

P. Ramirez (València, Spain)

### CIBERESUCICOVID S: a multicenter Spanish study of COVID ICU admitted patients

A. Torres (Barcelona, Spain)

### SEMICYUC Joven: following the NEXT Committee

L. Galarza Barrachina (Castellón de la Plana, Spain)

Organizer:

Systemic Inflammation and Sepsis

## Severe ARDS - On the edge

Thematic Session

### **We do not need "ARDS"**

J.L. Vincent (Brussels, Belgium)

### **Why and how to recruit the acutely injured lung**

M. Quintel (Göttingen, Germany)

### **On the edge: what is different in COVID-19 ?**

M. Cecconi (Milan, Italy)

### **Pathophysiology of COVID-19 induced ARDS**

M. Ranieri (Bologna, Italy)

### **MSC therapies for COVID and non-COVID induced ARDS**

J. Laffey (Galway, Ireland)

Organizer:

Acute Respiratory Failure

## Sepsis in low income countries

Thematic Session

### ESICM and sepsis in low income countries

M. Mer (Johannesburg, South Africa)

### The African Research Collaboration on Sepsis

S. Jacob (Liverpool, United Kingdom)

Organizer:

Systemic Inflammation and Sepsis

## COVID-19: facts and perspectives

Thematic Session

### The experience in Wuhan - China

Z. Peng (Wuhan City, China)

### Infection with SARS-CoV-2 in Portugal: epidemiological aspects

R.P. Moreno (Lisbon, Portugal)

### COVID-19: the Unique Australian ICU experience

R. Bellomo (Heidelberg, Australia)

### COVID-19: what we could have done better

J.L. Vincent (Brussels, Belgium)

### Genetic susceptibility to severe COVID-19 infection

J.D. Chiche (Lausanne, Switzerland)



### **Key learnings from the COVID-19 pandemic**

A. Rhodes (London, United Kingdom)

### **What have we learned from meta-analyses during the COVID-19 pandemic**

S. Einav (Jerusalem, Israel)

### **COVID-19 is more than a respiratory disease**

S. Nseir (Lille, France)

### **Consequences for health care workers**

F. Barbier (Orléans, France)

### **Covid Burnout: Resilience through Reflective Learning**

J. Bion (Birmingham, United Kingdom)

### **Burnout, who is responsible**

A. Wong (London, United Kingdom)

### **When to start with unregistered drugs?**

A. Kalil (Nebraska, United States of America)

### **Tracheostomy management during COVID-19**

D. Dawson (London, United Kingdom)

### **Corticosteroids for COVID-19**

D. Annane (Garches, France)

### **Outcome of COVID-19 patients**

A. Topeli (Ankara, Turkey)

### **Vitamin D and COVID-19**

K. Amrein (Graz, Austria)

## **Complement inhibition for COVID-19**

D. Annane (Garches, France)

Organizer:

Infection

## **How physiology and RCTs meet**

Thematic Session

### **Physiological success vs. clinical success**

R. Bellomo (Melbourne, Australia)

### **Are statistical methods we use for large studies misleading?**

H.J. de Grooth (Amsterdam, Netherlands)

Organizer:

Research

## Recent trials you should know about

Thematic Session

### **Vitamin C**

P. Young (Wellington, New Zealand)

### **AKI**

S. Gaudry (Colombes, France)

### **Vasodilatory shock and the RAAS**

R. Bellomo (Heidelberg, Australia)

Organizer:

Research

## Micronutrients: quantum medicine or essential?

Thematic Session

- Critical review of recent trials in sepsis (vitamin C, Thiamine)
- Highlighting the importance of phosphate in organ failure. Prevalence of the refeeding syndrome

### Prevalence of hypophosphatemia - International results

M. Berger (Lausanne, Switzerland)

### Micronutrient deficiency in the ICU: an invisible foe?

M. Casaer (Leuven, Belgium)

### Hypophosphatemia in ICU a systematic review

A. Reintam Blaser (Tartu, Estonia)

### Ascorbic acid and thiamine to cure septic shock

A. de Man (Amsterdam, Netherlands)

### Refeeding syndrome: is it a worry?

S. Stapel (Amsterdam, Netherlands)

Organizer:

Metabolism, Endocrinology & Nutrition

## Cardiac arrest

Thematic Session

### Factors determining outcome of cardiac arrest

G. Geri (Boulogne-Billancourt, France)

### Importance of EEG after cardiac arrest

S. Koch (Berlin, Germany)

### Managing refractory shock

O. Hamzaoui (Clamart, France)

Organizer:

Cardiovascular Dynamics

## How much ECMO do you need?

Thematic Session

### Ventilation during ECMO: how to find the balance between rest and load?

M. Quintel (Göttingen, Germany)

### From CPR to eCPR

H. Bailey (Durham, United States of America)

Organizer:

Cardiovascular Dynamics

## RCTs you should know about

Thematic Session

### Lung recruitment and PEEP

A.B. Cavalcanti (São Paulo, Brazil)

### Why this trial is so important

L. Camporota (London, United Kingdom)

### STARTT-AKI

R. Wald (Toronto, Canada)

### Why this trial is so important

S. Gaudry (Colombes, France)

### ECMO - EOLIA

A. Combes (Paris, France)

### Why this trial is so important

D. De Backer (Brussels, Belgium)

Organizer:

Research

## COVID-19 and urgent change of ICU capacity

Thematic Session

### **An epidemics: I need more ICU-beds or fewer patients. What to do?**

J. Kesecioglu (Utrecht, Netherlands)

### **Can we maintain the same quality standards after scale up?**

J. Kesecioglu (Utrecht, Netherlands)

### **How to implement emergency scale up**

A. Girbes (Amsterdam, Netherlands)

### **Extra support for new ICU-workers**

J. Benbenishty (Jerusalem, Israel)

### **How to define quality of ICM in different circumstances**

A. Batchelor (Newcastle upon Tyne, United Kingdom)

Organizer:

Health Services Research & Outcome

## COVID-19 and ESICM

Thematic Session

### International cooperation during the COVID-19 pandemics

M. Cecconi (Milan, Italy)

### Actions of ESICM during the COVID-19 pandemics

J. Kesecioglu (Utrecht, Netherlands)

Organizers:

Research Education

## COVID-19 RCTs you should know about

Thematic Session

### Core outcome measures of RCT

P. Pova (Lisbon, Portugal)

### Methylprednisolone and other steroids

A. Perner (Copenhagen, Denmark)

### IL antagonists and JAK 1- 2 inhibitors

V. Cordeiro Veiga (São Paulo, Brazil)

### Interferons and immunomodulation

L. Derde (Utrecht, Netherlands)

### From convalescent plasma to monoclonal antibodies

R. Ferrer Roca (Barcelona, Spain)



### **Remdesivir and new antivirals**

A. Kalil (Nebraska, United States of America)

### **Ethics and clinical research on COVID-19**

D. Annane (Garches, France)

### **COVID-19: coagulopathy and thrombosis prevention**

B. Hunt (London, United Kingdom)

### **Steroids to treat severe cases of COVID-19 ? The controversy remains very strong**

J. Carlet (Paris, France)

Organizers:

Research Education

## **Milan Datathon winning abstract presentations**

Thematic Session

### **The role of oxygen blood content on prognosis of critically ill patients: artificial intelligence based prediction models**

J. Montomoli (Rotterdam, Netherlands)

### **Sepsis phenotypes - clusters in eICU**

S. Patel (Philadelphia, United States of America)

### **Predicting the risk of prolonged mechanical ventilation after elective surgery**

J.P. Colaço (Lisbon, Portugal)

 Sunday 6 December

Sun 6 Dec  
14:30 - 15:30

## Opening Session

Thematic Session

Moderator(s) : J. Kesecioglu (Utrecht, Netherlands), M. Cecconi (Milan, Italy), A. Girbes (Amsterdam, Netherlands)

**With Ruth Kleinpell, Pascale Gruber, Jeffrey Lipman & Carole Boulanger**

15:10 **The implicit influence of different languages**  
L. Boroditsky (San Diego, United States of America)

Sun 6 Dec  
15:30 - 16:40

## Scientific Session

Thematic Session

Moderator(s) : J. Kesecioglu (Utrecht, Netherlands), M. Cecconi (Milan, Italy), A. Girbes (Amsterdam, Netherlands)

**What is happening in my ICU during Covid-19; what is different in the second wave?**

M. Mer (Johannesburg, South Africa), H. Bailey (Durham, United States of America), K. Doi (Tokyo, Japan), E. Estenssoro (La Plata, Argentina)

15:50 **Interview with author of big study: Remdesivir**  
J. Beigel (Rockville, United States of America)

16:05 **Interview with author of big study: Recovery**  
K. Baillie (Edinburgh, United Kingdom)

**Round Table Discussion on the impact of Covid-19 on our work, colleagues and ourselves**

S. Myatra (Mumbai, India), J.V. Diaz (Geneva, Switzerland), F.R. Machado (São Paulo, Brazil), E. Terol (Brussels, Belgium)

Monday 7 December

Mon 7 Dec  
09:00 - 09:05

## Welcome to the Education Channel

Thematic Session

09:00 **Welcome to the Education Channel**  
F. Duska (Prague, Czech Republic)

Organizer:  
Education

Mon 7 Dec  
09:00 - 09:45

## Innovation in ICU

Thematic Session

Moderator(s) : R. Costa-Pinto (Melbourne, Australia)

09:00 **Virtual Critical Care**  
B. Weiss (Berlin, Germany)

**Q&A**

Organizer:  
NEXT

📅 Wednesday 9 December

Wed 9 Dec  
13:30 - 16:15

## Hot Topics Session

Thematic Session

Moderator(s) : J. Kesecioglu (Utrecht, Netherlands), H. Bauchner (Boston, United States of America)

- 13:30 **Overview of the PUMA guidelines (Project for the Universal Management of the Airways)**  
S. Myatra (Mumbai, India)
- 13:45 **The impact of frailty on survival in elderly intensive care patients with COVID-19: the COVIP study**  
C. Jung (Düsseldorf, Germany)
- 14:00 **Clinical Characteristics and Day-90 Outcomes of 4,244 critically ill adults with COVID-19: a prospective cohort study**  
M. Schmidt (Paris, France)
- 14:15 **UNDERPIN-ICU Study**  
P. Rood (Nijmegen, Netherlands)
- 14:30 **(1,3)- $\beta$ -D-glucan-based diagnosis of invasive Candida infection versus culture-based diagnosis in patients with sepsis and with an increased risk of invasive Candida infection (CandiSep)**  
F. Bloos (Jena, Germany)
- 14:45 **Effect of a Lower vs Higher Positive End-expiratory Pressure (PEEP) Strategy on Ventilator-Free Days in Intensive Care Unit Patients Without ARDS: A Randomized Clinical Trial**  
M. Schultz (Amsterdam, Netherlands)
- 15:00 **Results of the ESICM-endorsed STRIKE survey, on the ICU management and admission criteria of stroke patients**  
C. Robba (Genoa, Italy)
- 15:15 **Adult ICU triage during the Coronavirus Disease 2019 pandemic**  
C.L. Sprung (Jerusalem, Israel)

15:30 **Mechanical ventilation in acute brain injury: recommendations of the ESICM consensus conference**  
R. Stevens (Baltimore, United States of America)

15:45 **Vitamin C, Thiamine, and Steroids in Patients with Sepsis: The VICTAS randomized clinical trial**  
J. Sevransky (Atlanta, United States of America)

16:00 **Impact of oral chlorhexidine de-adoption and implementation of an oral care bundle on mortality for mechanically ventilated adults: A stepped wedge cluster randomized controlled trial**  
C. Dale (Toronto, Canada), B. Cuthbertson (Toronto, Canada)

**Thème**

09. Infections and prevention > Infections and prevention

Wed 9 Dec  
16:15 - 16:20

## A message from the new President

Thematic Session

Moderator(s) : M. Cecconi (Milan, Italy)