ESICM LIVES 2020

33rd Annual Congress
6-9 December

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

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 breathing trials: which method?
C. Subira (Madrid, Spain, Spain)

Should the patients have a rest before extubation?
M.D.M. Fernandez (Terrassa, Spain)

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 manoeuvres 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
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
Controversial topic within monitoring in sepsis

Presentation
A. Dubin (Buenos Aires, Argentina)

Organizer:
Cardiovascular Dynamics
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
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)
- 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)

<table>
<thead>
<tr>
<th>Muscle strength as a proxy for frailty</th>
</tr>
</thead>
<tbody>
<tr>
<td>H. Flaatten (Bergen, Norway)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Can we measure muscle waisting in the ICU (ultrasound)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Z.A. Puthucheary (London, United Kingdom)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Muscle waisting and the eGFR - a bad marriage?</th>
</tr>
</thead>
<tbody>
<tr>
<td>M. Ostermann (London, United Kingdom)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Muscle weakness and (long-term) outcome</th>
</tr>
</thead>
<tbody>
<tr>
<td>G. Van den Berghe (Leuven, Belgium)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Can we prevent muscle waiting by nutrition or exercise? (the NEXIS trial)</th>
</tr>
</thead>
<tbody>
<tr>
<td>P.F. Laterre (Brussels, Belgium)</td>
</tr>
</tbody>
</table>

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)

**Immunosenecense and sepsis in the elderly**
H. Vallet (Paris, France)

**More than one week on the ICU - What 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 laborsome - 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. Povoa (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 XRD/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. Ramírez (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. Puthucheary (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. Sonneville (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
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
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
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)

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)
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**

<table>
<thead>
<tr>
<th>Specialty</th>
<th>Organizer</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Cardiology</strong></td>
<td>S. Price (London, United Kingdom)</td>
</tr>
<tr>
<td><strong>Cardiac Surgery</strong></td>
<td>A. Vonk (Amsterdam, Netherlands)</td>
</tr>
<tr>
<td><strong>Pulmonology</strong></td>
<td>E. Nossent (Amsterdam, Netherlands)</td>
</tr>
<tr>
<td><strong>Neurology</strong></td>
<td>S. Koch (Berlin, Germany)</td>
</tr>
<tr>
<td><strong>Anesthesiology</strong></td>
<td>S. Loer (Amsterdam, Netherlands)</td>
</tr>
</tbody>
</table>

**Other**

<table>
<thead>
<tr>
<th>Collaborative Session</th>
</tr>
</thead>
</table>

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)
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

<table>
<thead>
<tr>
<th>Title</th>
<th>Presenter</th>
</tr>
</thead>
<tbody>
<tr>
<td>Early goal directed therapy - Are the dollars spend worth the Value?</td>
<td>K. Rowan (London, United Kingdom)</td>
</tr>
<tr>
<td>Overachievers versus underperformers - Costs in the ICU!</td>
<td>B. Guidet (Paris, France)</td>
</tr>
<tr>
<td>Physiotherapy on the ICU is worth every penny!</td>
<td>S. Grossenbacher-Eggmann (Bern, Switzerland)</td>
</tr>
<tr>
<td>What does it cost to be ethical?</td>
<td>V. Metaxa (London, United Kingdom)</td>
</tr>
</tbody>
</table>

---

**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)
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)
**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)

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)
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? Adressing 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. Povoa (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. Fiori (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 paeds 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)

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)
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)
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
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)

**CIBERESUCICOVOD 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)
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)

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)
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)

Hyophosphatemia 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)
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)

COVID-19 RCTs you should know about
Thematic Session

Core outcome measures of RCT
P. Povoa (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

**Opening Session**

14:30 - 15:30

**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)

---

**Scientific Session**

15:30 - 16:40

**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

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

Q&A

Organizer:
NEXT
Wednesday 9 December

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)-β-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)