Colloids are necessary for intraoperative fluid management: Pro-Con

Chair: Thomas Fuchs-Buder (Vandoeuvre Les Nancy, France)
Pro
Thomas Scheeren (Groningen, Netherlands)
Con
Jerry Nolan (Bath, United Kingdom)

WHO-recommendation for 80% oxygen – consigned to history? Pro-Con

Chair: Tony Gin (Hong Kong, China)
Pro
Marc Moritz Berger (Salzburg, Austria)
Con
Markus W. Hollmann (Amsterdam, Netherlands)

Sugammadex should be the first line reversal agent: Pro-Con

Chair: Thomas Fuchs-Buder (Vandoeuvre Les Nancy, France)
Pro
Hans Donald De Boer (Groningen, Netherlands)
Con
Radmilo Jankovic (Nis, Serbia)
**Perioperative blood pressure management: what is the optimal blood pressure?**

**Chair:**
Thomas Scheeren (Groningen, Netherlands)

**Speaker:**
Bernd Saugel (Hamburg, Germany)

**Closed loop anaesthesia: how close to prime time is it?**

**Chair:**
Michel Struys (Groningen, Netherlands)

**Speaker:**
Ngai Liu (Paris, France)

**Update on mechanisms of general anaesthesia**

**Chair:**
Hugh Hemmings (New York, United States)

**Speaker:**
Nicholas Franks (London, United Kingdom)

**Inhaled agents, carrier gases and the environment**

**Chair:**
Jan Hendrickx (Aalst, Belgium)

**Speaker:**
Ole John Nielsen (Copenhagen, Denmark)

**History of self-experiments in anaesthesia**

**Chair:**
Alistair McKenzie (Edinburgh, United Kingdom)

**Speaker:**
Fernando Gilsanz (Madrid, Spain)
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<td>Thomas Scheeren (Groningen, Netherlands)</td>
<td>Steven L. Shafer (Stanford, United States)</td>
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Predicting hypothermia
Oliver Kimberger (Vienna, Austria)

**Digital health: when computers supervise**

Chair: Anthony Absalom (Groningen, Netherlands)

*Closed loops, advisory displays and artificial intelligence in anaesthesia: ready for prime time?*
Michel Struys (Groningen, Netherlands)

*Integration of wearable health sensor information to provide pre- and postoperative information*
Frédéric Michard (Lausanne, Switzerland)

*Closed-loop assisted fluid administration: is it feasible and safe?*
Alexandre Joosten (Brussels, Belgium)

**Anaesthesia as a cancer disease modifier**

Chair: Donal J. Buggy (Dublin, Ireland)

*Should we change our practice?*
William Harrop-Griffiths (London, United Kingdom)

*Opiates, regional anaesthesia and cancer recurrence*
Daniela Ionescu (Cluj-Napoca, Romania)

*Total intravenous anaesthesia (TIVA), volatiles and cancer recurrence*
Timothy Wigmore (London, United Kingdom)

**Evidence of the impact of anaesthesia and surgery on the human brain**

Chair: Lis Evered (Fitzroy, Australia)

*The human brain after surgery: central nervous system (CNS) immune activation and long-term cognitive changes*
Lars I Eriksson (Stockholm, Sweden)

*Neurological sequelae of anaesthesia and surgery: equivalent to traumatic brain injury?*
Lis Evered (Fitzroy, Australia)

*The new nomenclature for perioperative cognitive disorders: the first 18 months of use in the literature*
Roderic G. Eckenhoff (Philadelphia, United States)
Pharmacology in special patient populations

Chair:
Marc Moritz Berger (Salzburg, Austria)

Pregnant women
Tony Gin (Hong Kong, China)

Paediatric patients
Markus Weiss (Zürich, Switzerland)

Elderly patients
Mark Coburn (Aachen, Germany)

Goal versus guideline-directed cardiopulmonary resuscitation (CPR)

Chair:
Konstantinos Stroumpoulis (Athens, Greece)

Objective monitoring of blood flow and CPR performance
Fritz Sterz (Vienna, Austria)

Use of ultrasound and capnography to guide optimal CPR
Per-Olav Stefferud Berve (Oslo, Norway)

Do we need a different algorithm for CPR with devices?
Lars Wik (Oslo, Norway)

Adverse long-term effects of general anaesthesia
Symposium organised in collaboration with the British Journal of Anaesthesia (BJA)

Chair:
Philip Hopkins (Leeds, United Kingdom)

Developmental neurotoxicity
Hugh Hemmings (New York, United States)

Delirium, postoperative cognitive dysfunction (POCD) and neurodegeneration
Michael Avidan (St. Louis, United States)

Cancer metastasis and survival
Donal J. Buggy (Dublin, Ireland)
Malignant hyperthermia (MH) outside the operating theatre
Symposium organised in collaboration with the European Malignant Hyperthermia Group (EMHG)

Chair:
Philip Hopkins (Leeds, United Kingdom)

MH induced by physical stress
Marc Snoeck (Nijmegen, Netherlands)

MH in ICU patients
Henrik Rueffert (Schkeuditz, Germany)

Preparation of patient and workstation prior anaesthesia
Sebastian Heiderich (Hannover, Germany)
Neuromuscular blockade and opioids in ambulatory anaesthesia: Pro-Con

Chair: Tatjana Simurina (Zadar, Croatia)
Pro
Slavica Kvolik (Osijek, Croatia)
Con
Boris Mraovic (Philadelphia, United States)

Litigation and complaints associated with ambulatory anaesthesia

Chair: Mark Skues (Chester, United Kingdom)
Speaker: Annabel Pearson (Bath, United Kingdom)

Ambulatory anaesthesia: the state of the art

Chair: Mark Skues (Chester, United Kingdom)
Speaker: Ian Smith (Stoke-on-Trent, United Kingdom)
Diabetes mellitus in the ambulatory setting

Chair:
Tatjana Simurina (Zadar, Croatia)

Considerations for the diabetic patient in the ambulatory setting
Anna Lipp (Norwich, United Kingdom)

Loco-regional anaesthesia and diabetic neuropathy
Philipp Lirk (Boston, United States)

New drugs for diabetes in the perioperative setting
Jeroen Hermanides (Amsterdam, Netherlands)

Perioperative management of antithrombotic therapy in ambulatory anaesthesia

Chair:
Jeroen Hermanides (Amsterdam, Netherlands)

Does my patient need bridging therapy?
Tomislav Ruzman (Galway, Ireland)

Use of new oral anticoagulants with regional anaesthesia
Anne Godier (Paris, France)

Antithrombotic therapy for eye surgery: new approaches
Tatjana Simurina (Zadar, Croatia)


**Adjuncts or catheters to prolong single-shot injections of local anaesthetics?**

*Chair: Matthias Desmet (Kortrijk, Belgium)*

**Adjuncts**

Eric Albrecht (Lausanne, Switzerland)

**Catheters**

Amit Pawa (London, United Kingdom)

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**Regional anaesthesia should be performed routinely in patients undergoing orthopaedic surgery: Pro-Con**

*Chair: Amit Pawa (London, United Kingdom)*

**Pro**

Eric Albrecht (Lausanne, Switzerland)

**Con**

Jose Romero (Zürich, Switzerland)

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**Fascia plane blocks – Old techniques, new perspectives**

*Chair: Eric Albrecht (Lausanne, Switzerland)*

*Speaker: Amit Pawa (London, United Kingdom)*
**03SA**

**Symposium 60’**

**Game changers - Recent papers in regional anaesthesia that changed my practice**

**Chair:**
Philipp Lirk (Boston, United States)

**Ultrasound-guided techniques for peripheral nerve block**
Matthias Desmet (Kortrijk, Belgium)

**Peripheral nerve blocks to improve postoperative recovery**
Morne Wolmarans (Norwich, United Kingdom)

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**03SB**

**Symposium 60’**

**Regional anaesthesia: secret recipes from experts**

**Chair:**
Eric Albrecht (Lausanne, Switzerland)

**Which local anaesthetics for which block?**
Philipp Lirk (Boston, United States)

**Tips and tricks to maintain perineural catheters and avoid complications**
Amit Pawa (London, United Kingdom)

**Local anaesthetic prescription for postoperative continuous infusion**
Alan Macfarlane (Glasgow, United Kingdom)

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**03SC**

**Symposium 60’**

**Regional anaesthesia in patients with specific issues**

**Chair:**
Luc Sermeus (Edegem, Belgium)

**Peripheral nerve block in anticoagulated patients**
Brian Kinirons (Galway, Ireland)

**Peripheral nerve block in patients with pre-existing neuropathy**
Gabriella Iohom (Cork, Ireland)

**Peripheral nerve block in patients unable to provide consent**
Morne Wolmarans (Norwich, United Kingdom)
### Regional anaesthesia for ambulatory surgery

**Chair:**
Gabriella Iohom (Cork, Ireland)

**Shoulder arthroscopic surgery**
Morne Wolmarans (Norwich, United Kingdom)

**Anterior cruciate ligament reconstruction**
Pia Jæger (Copenhagen, Denmark)

**Foot surgery**
Luc Sermeus (Edegem, Belgium)

### Regional anaesthesia: past, present, future

**Chair:**
Peter Marhofer (Vienna, Austria)

**Regional anaesthesia: past**
Peter Marhofer (Vienna, Austria)

**Regional anaesthesia: present**
Lukas Kirchmair (Schwaz, Austria)

**Regional anaesthesia: future**
Gerhard Fritsch (Vienna, Austria)
**Lecture 04LA**

**Hot Topics in Obstetric Analgesia and Anaesthesia - Last 12 months' top publications**

**Chair:**
Carolyn Weiniger (Tel Aviv, Israel)

**Speaker:**
Dominique Chassard (Bron, France)

**Lecture 04LB**

**Programmed intermittent epidural boluses (PIEB) combined with patient-controlled epidural analgesia (PCEA) mode for maintenance of labour analgesia**

**Chair:**
Nuala Lucas (London, United Kingdom)

**Speaker:**
Ronald B. George (Halifax, Canada)

**Symposium 04SA**

**Tips and tricks in obstetric anaesthesia, analgesia and resuscitation**

**Chair:**
Marc Van de Velde (Leuven, Belgium)

**Avoiding hypotension during C-section under neuraxial anaesthesia**
Mike Kinsella (Bristol, United Kingdom)

**Timing of initiation of neuraxial analgesia and impact on progress of labour**
Michela Camorcia (Rome, Italy)

**Use of cardiac and lung ultrasound for obstetric emergencies**
Clemens Ortner (Stanford CA, United States)

**Bleeding management in obstetric haemorrhage**
Anne-Sophie Bouthors (Lille, France)
**Dural puncture epidural (DPE), combined spinal epidural (CSE) or epidural alone for labour?**

**Chair:**
Frédéric Mercier (Clamart, France)

**Epidural alone?**
Emilia Guasch (Madrid, Spain)

**Combined spinal epidural (CSE)?**
Marc Van de Velde (Leuven, Belgium)

**Dural puncture epidural (DPE)?**
Lawrence Tsen (Boston, United States)

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**Preeclampsia – What’s new?**

**Chair:**
Frédéric Mercier (Clamart, France)

**Obstetric management**
Vassilis Tsatsaris (Paris, France)

**Anaesthetic and resuscitation management**
Clemens Ortner (Stanford CA, United States)
**PAEDIATRIC ANAESTHESIOLOGY**
Learning Track 5

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**Lecture**

From acute to chronic pain in children

*Chair:*
Laszlo Vutskits (Geneva, Switzerland)

*Speaker:*
Suellen Walker (London, United Kingdom)

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**Symposium 60'**

The paediatric airway

*Chair:*
Walid Habre (Geneva, Switzerland)

**Oxygen in paediatric anaesthesia: how to use it?**
Thomas Riva (Bern, Switzerland)

**The paediatric difficult airway: what to avoid?**
Thomas Engelhardt (Aberdeen, United Kingdom)

**Postoperative respiratory adverse events: prevention and treatment**
Britta Von Ungern-Sternberg (Subiaco, Australia)

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**Symposium 60'**

Best practice for blood management in children

Symposium organised in collaboration with the European Society of Paediatric Anaesthesiology (ESPA)

*Chair:*
Nicola Disma (Genoa, Italy)

**Update on patient blood management (PBM) research in children for non-cardiac surgery**
Susan Goobie (Boston, United States)

**Update on PBM guidelines in children for cardiac surgery**
David Faraoni (Toronto, Canada)

**Diagnosing coagulopathy in children using thromboelastometry**
James O’Leary (Cork, Ireland)
Controversies in paediatric anaesthesia

Chair:
Laszlo Vutskits (Geneva, Switzerland)

Approach to adolescents: what changes?
Tom Giedsing Hansen (Odense, Denmark)

Anaesthesia for the obese child
Ignacio Galvez Escalera (Palma de Mallorca, Spain)

The new statement of preoperative fasting: is that all we need?
Peter Gunnar Mikael Frykholm (Uppsala, Sweden)

ESA Trainee Network: networking with the experts in paediatric anaesthesiology
Symposium organised by the ESA Trainees Committee

Chair:
Nicola Disma (Genoa, Italy)

Emergencies in paediatric anaesthesia
Karin Becke (Nuremberg, Germany)

Paediatric regional anaesthesia: tips and tricks
Maria Vittinghoff (Graz, Austria)

Managing the critically ill child in the non-tertiary hospital
John Rutherford (Dumfries, United Kingdom)
Hot Topics in Neuroanaesthesia - Last 12 months' top publications

Chair:
Alexander Zlotnik (Beer-Sheva, Israel)

Speaker:
Martin Söhle (Bonn, Germany)

Anaesthesia for invasive brain radiology

Chair:
Martin Söhle (Bonn, Germany)

General anaesthesia vs. local anaesthesia with conscious sedation: does it really matter?
Alexander Zlotnik (Beer-Sheva, Israel)

Intraprocedural non-invasive brain monitoring
Chiara Robba (Genoa, Italy)

The radiologist’s point of view: basics of the procedure and expectation of the anaesthesiologist
Jordi Blasco (Barcelona, Spain)

Critical conditions in neuroanaesthesia: how do we face them?

Chair:
Alexander Zlotnik (Beer-Sheva, Israel)

Management of intraoperative swelling in brain surgery
Alexander Kulikov (Moscow, Russia)

Airway management in patient with unstable cervical spine
Maria Cristina Honorato (Pamplona, Spain)

A current approach to prevention and treatment of venous air embolism
Werner Klingler (Sigmaringen, Germany)

Cerebral bleeding and new anticoagulants
Dana Baron Shahaf (Haifa, Israel)
# Cardiac, Thoracic and Vascular Anaesthesiology
## Learning Track 7

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<td><strong>Chair:</strong> Bernard Cholley (Paris, France)</td>
<td><strong>Speaker:</strong> Benedikt Preckel (Amsterdam, Netherlands)</td>
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<td>07RCB</td>
<td><strong>Extracorporeal membrane oxygenation (ECMO): indications, techniques and limitations</strong></td>
<td><strong>Chair:</strong> Christian Putensen (Bonn, Germany)</td>
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<td><strong>Sean Coeckelenbergh (Brussels, Belgium)</strong></td>
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**Blood pressure: new perspectives on an old issue**

**Chair:**
Jilles Bijker (Ede, Netherlands)

**Guidelines for the community management of hypertension and their implications for perioperative care**
Simon Howell (Leeds, United Kingdom)

**The risks of intraoperative hypotension**
Jilles Bijker (Ede, Netherlands)

**Use of phenylephrine in the operating room: could it be more harmful than helpful?**
Jean-Luc Fellahi (Lyon, France)

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**Levosimendan in 2019: who are the appropriate patients?**

**Chair:**
Patrick Wouters (Gent, Belgium)

**Are isolated coronary artery bypass grafting (CABG) patients with poor left ventricular ejection fraction (LVEF) a good target for prophylactic levosimendan prior to surgery?**
Matthias Heringlake (Kiel, Germany)

**Are some septic patients likely to benefit from levosimendan?**
Anthony Gordon (London, United Kingdom)

**The less common situations in which levosimendan is the prime choice**
Bernard Cholley (Paris, France)

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**Improving postoperative monitoring on the ward for the cardiac risk patient**

**Chair:**
Bernd Saugel (Hamburg, Germany)

**Impact of failure to rescue**
Rupert Pearse (London, United Kingdom)

**Which vital parameters to be monitored on the postsurgical ward?**
Cornelis Kalkman (Utrecht, Netherlands)

**Does continuous wireless monitoring on the surgical ward improve outcome?**
Benedikt Preckel (Amsterdam, Netherlands)
## Controversies in the perioperative management of the cardiac patient: 10 minutes to convince

**Chair:**
Jean-Luc Fellahi (Lyon, France)

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<td>Philip J. Devereaux</td>
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<td>Benefits and risks of alpha2-agonists</td>
<td>Patrice Forget</td>
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<td>Matthieu Legrand</td>
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<td>Cornelis Kalkman</td>
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## Dexmedetomidine in anaesthesia and intensive care

**Chair:**
Bernard Cholley (Paris, France)

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<td>Julien Amour</td>
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<td>How to use it for procedural sedation and analgesia?</td>
<td>Robert-Denham Fitzgerald</td>
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<td>Its place in opioid free anaesthesia</td>
<td>Patrice Forget</td>
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## Challenges in cardiovascular anaesthesia

**Chair:**
Jean-Luc Fellahi (Lyon, France)

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<td>Etienne Gayat</td>
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<tr>
<td>Right ventricular failure: how to diagnose and how to treat it?</td>
<td>Patrick Wouters</td>
<td>Gent, Belgium</td>
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<tr>
<td>How to manage patients with Heparin-Induced thrombocytopenia who require cardiac surgery?</td>
<td>Anne Godier</td>
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### Neuromonitoring during cardiovascular anaesthesia

Symposium organised in collaboration with the European Association of Cardiothoracic Anaesthesiology (EACTA)

**Chairs:**
- Stefan De Hert (Gent, Belgium)
- Fabio Guarracino (Pisa, Italy)

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<th>Mona Momeni (Brussels, Belgium)</th>
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<td>Annelies Moerman (Gent, Belgium)</td>
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**Discussion**
ACUTE AND CHRONIC PAIN MANAGEMENT AND PALLIATIVE MEDICINE
Learning Track 8

**08LA Lecture**

**Hot Topics in Pain Medicine: Last 12 months' top publications**

Chair:
Esther M. Pogatzki-Zahn (Münster, Germany)

**Acute pain**
Patricia Lavandhomme (Brussels, Belgium)

**Chronic pain**
Marc René Suter (Lausanne, Switzerland)

**08RCA Refresher Course**

**Evidence-based medicine guidelines for the management of low back pain**

Chair:
Kris Vissers (Nijmegen, Netherlands)

**Speaker:**
Jan Van Zundert (Lanaken, Belgium)

**08SB Symposium 60’**

**Pain management in critically ill patients**

Chair:
Jean-Pierre Estebe (Rennes, France)

**Acute pain in the intensive care unit (ICU): management beyond the usual therapeutic strategies**
Caterina Aurilio (Naples, Italy)

**Chronic neuropathic pain in critically ill patients: diagnosis and management**
Winfried Meissner (Jena, Germany)
### Acute and chronic pain: the anaesthesiologist’s role...

**Chair:**
Marc René Suter (Lausanne, Switzerland)

... in managing and preventing pain after surgery  
Esther M. Pogatzki-Zahn (Münster, Germany)

... in managing chronic pain  
Patricia Lavandhomme (Brussels, Belgium)

... in palliative care  
Kris Vissers (Nijmegen, Netherlands)

### Omics and pain: where are we here?

**Chair:**
Winfried Meissner (Jena, Germany)

**Genomics and pain**  
Bert Joosten (Maastricht, Netherlands)

**Proteomics and pain**  
Esther M. Pogatzki-Zahn (Münster, Germany)
Assessing delirium in the intensive care unit

Chair: Mark Coburn (Aachen, Germany)
Speaker: Ulf Guenther (Oldenburg, Germany)

Hot topics in intensive care medicine - Last 12 months' top publications

Chair: Cesare Gregoretti (Palermo, Italy)
Speaker: Davide Chiumello (Milan, Italy)

How to avoid predatory publishing in anaesthesia and critical care

Chair: Paul McConnell (Paisley, United Kingdom)
How to avoid predatory publishing in anaesthesia and critical care? Andrea Cortegiani (Palermo, Italy)
Ethics in publishing Elie Azoulay (Paris, France)
## Strategies to improve outcomes in critical care medicine

**Chair:**
Mikhail Y. Kirov (Arkhangelsk, Russia)

**Acute respiratory distress syndrome (ARDS)**
Davide Chiumello (Milan, Italy)

**Perioperative pulmonary complications**
Samir Jaber (Montpellier, France)

**Delirium**
Ulf Guenther (Oldenburg, Germany)

**Sepsis**
Marc Leone (Marseille, France)

## Resuscitation in septic shock: is less better?

**Chair:**
Xavier Monnet (Paris, France)

**Less fluids?**
Gernot Marx (Aachen, Germany)

**Less vasopressors?**
Claude Martin (Marseille, France)

**Less inotropes?**
Jean-Louis Vincent (Brussels, Belgium)

## Extracorporeal techniques in sepsis: is it worth the effort?

**Chair:**
Sharon Einav (Jerusalem, Israel)

**Continuous renal replacement techniques (CRRT)**
Alexander Zarbock (Münster, Germany)

**Cytokine removal**
Zsolt Molnar (Szeged, Hungary)

**Endotoxin removal**
Didier Payen (Paris, France)
**Palliative care in the intensive care unit (ICU)**

**Chair:**
Hartmut Bürkle (Freiburg, Germany)

- Assessment and management of symptoms in ICU
  Gerald Chanques (Montpellier, France)

- Dealing with dying patients and their relatives
  Elie Azoulay (Paris, France)

- Withdrawal of life support in ICU
  Sebastiano Mercadante (Palermo, Italy)

**The future of ICU**

**Chair:**
Zsolt Molnar (Szeged, Hungary)

- The era of precision medicine
  Jean-Louis Vincent (Brussels, Belgium)

- From basic sciences to bedside
  Can Ince (Amsterdam, Netherlands)

- How will the extracorporeal membrane oxygenation (ECMO) story continue?
  Antonio Pesenti (Milan, Italy)

**Fluids and abdominal hypertension**

Symposium organised by the Abdominal Compartment Society (WSACS)

**Chair:**
Manu Malbrain (Brussels, Belgium)
Xavier Monnet (Paris, France)

- Fluids are drugs: it is time to consider the 4D’s and 4 phases of fluid therapy
  Manu Malbrain (Brussels, Belgium)

- Have rationalized fluid resuscitation practices shifted the playing field in severe complicated intra-abdominal sepsis
  Andrew W. Kirkpatrick (Calgary, Canada)

- Assessing fluid responsiveness in abdominal hypertension
  Xavier Monnet (Paris, France)

- Organ-organ interaction: fluids and the polycompartment syndrome
  Zsolt Bodnar (Debrecen, Hungary)

- Use of ultrasound in de-resuscitation
  Adrian Wong (Oxford, United Kingdom)
CRITICAL EMERGENCY MEDICINE - TRAUMA AND RESUSCITATION
Learning Track 10

10LA Lecture

Hot Topics in Critical Emergency Medicine - Last 12 months' top publications

Chair:
Ayten Saracoglu (Istanbul, Turkey)

Speaker:
Catherine Heim (Lausanne, Switzerland)

10SA Symposium 60’

Violence and resilience

Chair:
Antoine Baumann (Le Kremlin-Bicêtre, France)

Listening to family members of critically ill patients
Elie Azoulay (Paris, France)

Lessons in planning from mass casualty events by terrorism
Mathieu Raux (Paris, France)

Violence against healthcare staff in hospitals: an underestimated problem?
Sabine Hahn (Bern, Switzerland)

10SB Symposium 60’

Ventilation strategies during cardiopulmonary resuscitation (CPR)

Chair:
Kurt Ruetzler (Cleveland, United States)

Pulmonary aspiration during CPR
Kurt Ruetzler (Cleveland, United States)

How should we ventilate?
Massimiliano Sorbello (Catania, Italy)

Endotracheal tube versus supraglottic airway
Ayten Saracoglu (Istanbul, Turkey)
The role of ultrasound in acute cardiac care monitoring

Chair: Thomas Scheeren (Groningen, Netherlands)

In cardiac arrest
Raoul Breitkreutz (Frankfurt, Germany)

In acute heart failure and cardiogenic shock
Fabio Guarracino (Pisa, Italy)

For regional hemodynamic assessment
Antoine Vieillard-Baron (Paris, France)

The role of mechanical cardiac support

Chair: Bernd Böttiger (Cologne, Germany)

Indication and outcome of extracorporeal cardiopulmonary resuscitation (ECPR)
Benoît Vivien (Paris, France)

ECPR: All about the flow!
Guido Michels (Cologne, Germany)

ECPR and donor after cardiac death (DCD)
Marinella Zanierato (Pavia, Italy)

New developments in critical emergency medicine

Chair: Karl-Christian Thies (Greifswald, Germany)

New trends in education for cardiopulmonary resuscitation (CPR) - Technical and non-technical skills
Anne Lippert (Herlev, Denmark)

Use of drones to deliver automated external defibrillator (AED) directly to the scene
Andreas Claesson (Stockholm, Sweden)

Should we anaesthetise awake major trauma patients?
Kate Crewdson (London, United Kingdom)
The role of emergency non-invasive ventilation

Chair:
Luca Brazzi (Turin, Italy)

The role of emergency non-invasive ventilation
John Laffey (Galway, Ireland)

The CO2 rebreathing problem
Giuseppe Foti (Monza, Italy)

High-flow nasal cannula
Sharon Einav (Jerusalem, Israel)

Trauma - State of the art
Symposium organised by the European Trauma Course Organisation (ETCO)

Chair:
Catherine Heim (Lausanne, Switzerland)

Damage control for anaesthesiologists
Karim Brohi (London, United Kingdom)

The European Trauma Course - 10 years down the line
Karl-Christian Thies (Greifswald, Germany)

Major trauma and resuscitation update - Perioperative management and outcomes
Symposium organised by the New York State Society of Anesthesiologists (NYSSA)

Chair:
Audree Bendo (Brooklyn, United States)

Severe Traumatic Brain Injury
Audree Bendo (Brooklyn, United States)

Major Orthopedic Trauma
Rose Berkun (Buffalo, United States)

Fluid and Transfusion Management
Linda Shore-Lesserson (New York, United States)
Title: TBA
Symposium organised by the International Anesthesia Research Society (IARS)

Chairs:
Catherine Heim (Lausanne, Switzerland)
Kurt Ruetzler (Cleveland, United States)

Massive bleeding in trauma
Karim Brohi (London, United Kingdom)

Bleeding in traumatic brain injury
Jean-François Payen (Grenoble, France)

Coagulation abnormalities in surgical bleeding
Jean-François Pittet (Birmingham, United States)

Obstetrical haemorrhage
Alexander Butwick (Stanford, United States)
Positive end-expiratory pressure (PEEP) should always be used: Pro-Con

Chair:
Paolo Pelosi (Genoa, Italy)
Pro
Christian Putensen (Bonn, Germany)
Con
Marcus Schultz (Amsterdam, Netherlands)

A difficult airway case: is prediction still important?

Chair:
Pedro Charco (Valencia, Spain)
To predict or not to predict? That is the question.
Ayten Saracoglu (Istanbul, Turkey)

Tracheal introducers and airway catheters: tips and tricks

Chair:
Ellen P. O'Sullivan (Dublin, Ireland)
Tracheal introducers and airway catheters: how and when?
Massimiliano Sorbello (Catania, Italy)
Tracheal introducers and airway catheters: pitfalls and dangers
Iljaz Hodzovic (Cardiff, United Kingdom)
**Fiberoptic bronchoscope or videolaryngoscope for my obese patient?**

Session organised in collaboration with the European Society for Perioperative Care of the Obese Patient (ESPCOP) and the European Airway Management Society (EAMS)

**Chairs:**
Flavia Petrini (Chieti Scalo, Italy)
Jan Paul Mulier (Bruges, Belgium)

**I choose fiberoptic bronchoscope**
Daniela Godoroja (Bucharest, Romania)

**I choose videolaryngoscope**
Iljaz Hodzovic (Cardiff, United Kingdom)

**Protecting the lungs and the diaphragm: a new paradigm in mechanical ventilation**

Young Teaching Recognition Award winner 2018

**Chair:**
Robert Greif (Bern, Switzerland)

**Speaker**
Tom Schepens (Edegem, Belgium)

**Current topics in mechanical ventilation**

**Chair:**
Massimiliano Sorbello (Catania, Italy)

**Should low tidal volumes be always used?**
Ary Serpa Neto (São Paulo, Brazil)

**Spontaneous breathing in early acute respiratory distress syndrome (ARDS): state of the art**
Christian Putensen (Bonn, Germany)

**Recruitment maneuvers in the operation and intensive care unit**
Paolo Pelosi (Genoa, Italy)

**Assisted ventilation in the intensive care unit: from fixed support to proportional ventilation**

**Chair:**
Gary Mills (Sheffield, United Kingdom)

**Is pressure support ventilation (PSV) still the gold standard?**
Salvatore Grasso (Bari, Italy)

**Proportional assist ventilation (PAV): from theory to practice**
Alexandre Demoule (Paris, France)

**Neural adjusted ventilator assist (NAVA): a new paradigm?**
Lucia Mirabella (Foggia, Italy)
New tools in airway management: promises kept or much ado about nothing?

Chair:
Massimiliano Sorbello (Catania, Italy)

Which role for ECMO in airway management?
Robert Greif (Bern, Switzerland)

THRIVE and high flow nasal cannula: where we are?
Lorenz Gregor Theiler (Bern, Switzerland)

New gadgets in airway management: everything useful?
Michael Seltz Kristensen (Copenhagen, Denmark)

Everything around oxygen: perioxgenation
Massimiliano Sorbello (Catania, Italy)
Practical implementation of blood management programmes

Chair:
Christa Boer (Amsterdam, Netherlands)

Speaker:
Patrick Meybohm (Frankfurt, Germany)

Is there a superior transfusion algorithm?

Chair:
Christian Fenger-Eriksen (Aarhus, Denmark)

Bias and confounders in the haemostasis and transfusion literature
Christa Boer (Amsterdam, Netherlands)

Does cerebral oximetry help in transfusion protocols?
Matthias Heringlake (Kiel, Germany)

Tranexamic acid for all bleeding patients
Karim Brohi (London, United Kingdom)

Perioperative management and monitoring of patients...

Chair:
Christian von Heymann (Berlin, Germany)

... on direct oral anticoagulants
Pierre Albaladejo (Grenoble, France)

... on dual or single antiplatelet therapy
Christian von Heymann (Berlin, Germany)

... with cirrhosis, protein C-S deficiency, von Willebrand disease and haemophilia
Aamer B. Ahmed (Leicester, United Kingdom)
12SC
Symposium 60'

Prehospital fluid and coagulation management

Chair:
Patrick Meybohm (Frankfurt, Germany)

Target blood pressure in the bleeding patient with or without brain injury
Patrick Reinhold Schober (Amsterdam, Netherlands)

Prehospital transfusion with blood products
Christian Fenger-Eriksen (Aarhus, Denmark)

Optimising coagulation efforts in the bleeding trauma patient
Marc Maegele (Cologne, Germany)

12SD
Symposium 60'

Update of the European guidelines for the management of bleeding and coagulopathy: what's new in diagnostics and treatment

Chair:
Patrick Meybohm (Frankfurt, Germany)

Surgical aspects of the bleeding trauma patient
Marc Maegele (Cologne, Germany)

Conventional coagulation management vs. goal directed coagulation management
Rolf Rossaint (Aachen, Germany)

Red blood cell (RBC) transfusion: what is evidence-based?
Donat Spahn (Zürich, Switzerland)
(Hocus) POCUS: magic perioperative applications of ultrasound

Chair:
Gabriella Iohom (Cork, Ireland)

Speaker:
Rosemary Hogg (Belfast, United Kingdom)

Challenges to establish real perioperative medicine

Chair:
Idit Matot (Tel Aviv, Israel)

Speaker:
Monty Mythen (London, United Kingdom)

Prevention of perioperative myocardial infarction

Chair:
Diogo Sobreira Fernandes (Porto, Portugal)

Myocardial infarction - epidemiology, patients at risk and optimization modalities
Giovanna Lurati Buse (Düsseldorf, Germany)

Knowledge gaps in perioperative management of patients at risk
Daniel Sessler (Cleveland, United States)

Collaboration - a successful approach for managing these patients?
Teodora Orhideea Nicolescu (Oklahoma City, United States)
Update for opioid saving in the perioperative period

Chair:
Caterina Aurilio (Naples, Italy)

Is the U.S. opioid crisis coming to Europe?
Marc René Suter (Lausanne, Switzerland)

How to reduce postoperative morphine consumption?
Jean-Pierre Estebe (Rennes, France)

Opioids: friends or foes?
Roman Zürcher (Basel, Switzerland)

New vistas on overcoming failure to rescue

Chair:
Johannes Wacker (Zürich, Switzerland)

Using wireless monitoring for early detection of postoperative complications (SHEPHERD trial)
Benedikt Preckel (Amsterdam, Netherlands)

Understanding failure to rescue
Andreas Taenzer (Lebanon, United States)

Can Postoperative Anaesthesia Visits improve Patient Outcomes? (TRACE Study)
Wolfgang Buhre (Maastricht, Netherlands)

Global safe surgery, obstetric and anaesthesia 2030

Symposium organised by the World Federation of Societies of Anaesthesiologists (WFSA)

Chair:
Davy Cheng (London, Canada)

Safe obstetric and neonatal resuscitation globally by 2030: the role of anesthesia
Angela Enright (Victoria, Canada)

Safe Surgery Globally by 2030: the role of anaesthesia
Rob McDougall (Vienna, Austria)

Influencing the authorities – the role of national planning
Jannicke Mellin-Olsen (Haslum, Norway)
### Symposium 60

**A U.S. perspective on subspecialty best practices and latest guidelines**

Symposium organised by the American Society of Anesthesiologists (ASA)

**Chair:**
Joy Hawkins (Aurora, United States)

- **Update on neuroanaesthesia**
  Sulpicio G. Soriano (Boston, United States)

- **Update on regional anaesthesia**
  Meg Rosenblatt (New York, United States)

- **Update on obstetric anaesthesia**
  Joy Hawkins (Aurora, United States)

### Symposium 90

**Acute care and monitoring of high-risk surgical patients outside the OR and the ICU (1)**

Symposium organised by the European Society for Computing and Technology in Anaesthesia and Intensive Care (ESCTAIC)

**Chair:**
Gabriel Gurman (Omer, Israel)

- **High-risk patients at discharge from the ICU – When and how?**
  Karim Bendjeldj (Geneva, Switzerland)

- **High-risk surgical patients after OR – ICU, IMC-U or ward – Choosing wisely!**
  Bernhard Walder (Geneva, Switzerland)

- **Perioperative care on the ward - The role of the anaesthesiologist**
  Bart Geerts (Amsterdam, Netherlands)

### Symposium 90

**Acute care and monitoring of high-risk surgical patients outside the OR and the ICU (2)**

Symposium organised by the European Society for Computing and Technology in Anaesthesia and Intensive Care (ESCTAIC)

**Chair:**
Dan Sebastian Dirzu (Cluj-Napoca, Romania)

- **Respiratory monitoring outside the OR and ICU**
  Gabriel Gurman (Omer, Israel)

- **Cardiac monitoring outside the OR and ICU**
  Bernardo Bollen Pinto (Geneva, Switzerland)
**13SH Symposium 60'**

**Perioperative issues in liver disease**
Symposium organised by the Liver Intensive Care Group of Europe (LICAGE)

**Chairs:**
Fuat Hakan Saner (Essen, Germany)
Koen Reyntjens (Groningen, Netherlands)

**Enhanced recovery after surgery (ERAS) in liver transplantation**
Giandomenico Biancofiore (Pisa, Italy)

**Hemodynamic monitoring: which is the best in end-stage liver disease?**
Koen Reyntjens (Groningen, Netherlands)

**ICU treatment in acute liver failure (ALF)**
Dana Rodica Tomescu (Bucharest, Romania)

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**13SI Symposium 90'**

**Safer Anaesthesia for the morbidly obese patients**
Symposium organised by the European Society for Perioperative Care of the Obese Patient (ESPCOP)

**Chairs:**
Luc De Baerdemaeker (Gent, Belgium)
Tomasz Gaszynski (Lodz, Poland)

**Airway issues in the morbidly obese**
Daniela Godoroja (Bucharest, Romania)

**Key strategies for optimal ventilation in morbidly obese**
Jan Paul Mulier (Bruges, Belgium)

**Safe analgesia in morbidly obese**
Michael Margarson (Chichester, United Kingdom)
PATIENT SAFETY
Learning Track 14

14LA
Lecture

Patient safety in European anaesthesiology and the impact of the Helsinki Declaration

Chair: Johannes Wacker (Zürich, Switzerland)
Speaker: Andrew Fairley Smith (Lancaster, United Kingdom)

14LB
Lecture

The patient’s view on perioperative patient safety

Chair: Daniel Arnal (Alcorcon, Spain)
Speaker: Coby Omvlee (Trondheim, Norway)

14RCA
Refresher Course

How anaesthesiologists can contribute to avoid perioperative infections

Chair: Hartmut Bürkle (Freiburg, Germany)
Speaker: Sebastian Schulz Stübner (Freiburg, Germany)

14SA
Symposium 60'

Perioperative medication error

Chair: Andreas Sandner-Kiesling (Graz, Austria)
Knowledge gap in and impact of periperaative medication error
To be confirmed
Risk Management approaches and new technology used for medication safety
Jane Fitch (Oklahoma City, United States)
Team work and other skills to prevent medication error
Teodora Orhideea Nicolescu (Oklahoma City, United States)
Realising the Helsinki Declaration on Patient Safety in Anaesthesiology (HD) - Six practices that improve perioperative patient safety

Chair: Andrew Fairley Smith (Lancaster, United Kingdom)

Safety requirements that should be prioritised in order to improve patient outcomes
Jannicke Mellin-Olsen (Haslum, Norway)

Practical use of cognitive aids - Live the difference
Benedikt Preckel (Amsterdam, Netherlands)

Postoperative care - Key for improving perioperative patient safety
Johannes Wacker (Zürich, Switzerland)

How quality indicators can help to improve local patient outcomes
Martin Ponschab (Linz, Austria)

How taking care of second victims can help avoiding first victims
Sven E. A. Staender (Maennedorf, Switzerland)

Departmental annual patient safety report - Administrative nuisance or effective patient safety tool?
David Whitaker (Manchester, United Kingdom)

Interpersonal risks and our estimations: do we understand it?

Chair: Paul McConnell (Paisley, United Kingdom)

I am very exhausted and tired but will put you to sleep tonight for surgery - Any problem with it?
Laura McClelland (Cardiff, United Kingdom)

The pros and cons to provide personal medical services for family members
Arthur Caplan (New York, United States)
GERIATRIC ANAESTHESIOLOGY
Learning Track 15

15RCA Refresher Course

Postoperative stroke: an update

Chair:
Concezione Tommasino (Milano, Italy)

Speaker:
Idit Matot (Tel Aviv, Israel)

15SA Symposium 60’

Preventing complications in the elderly

Chair:
Ulf Guenther (Oldenburg, Germany)

Should this elderly patient be admitted to the intensive care unit (ICU)?
Hans Flaatten (Bergen, Norway)

Preventing delirium in the postoperative period - Is dexmedetomidine the magic bullet?
Ana Kowark (Aachen, Germany)

Preventing respiratory failure in the elderly patients
Christian Brülls (Aachen, Germany)

15SB Symposium 60’

Anaesthesia in the elderly – REGAINing HOPE

Chair:
Idit Matot (Tel Aviv, Israel)

Preoperative evaluation of the elderly patient
Mark Coburn (Aachen, Germany)

Mode of anaesthesia for patients undergoing hip fracture
Mark Neuman (Pennsylvania, United States)

Intraoperative management of the elderly patient
Ciara O’Donnell (Belfast, United Kingdom)
Cognitive function in the older surgical patient

Chair:
Peter John Lee (Cork, Ireland)

Cognitive impairment in the older surgical patient
Helen O’Brien (Cork, Ireland)

Depth of anaesthesia monitoring in the elderly
Finn Radtke (Naestved, Denmark)

Neurological sequelae of anaesthesia and surgery: equivalent of traumatic brain injury
Lis Evered (Fitzroy, Australia)
**How do we translate expanded knowledge into successful practice and patient satisfaction?**

**Chair:**
Kim Lindelof (Malmo, Sweden)

**Speaker:**
Teodora Orhideea Nicolescu (Oklahoma City, United States)

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**PERSEUS guidelines**

**Chair:**
Arash Afshari (Copenhagen, Denmark)

**Ultrasound for vascular access in adults**
Daniele Guerino Biasucci (Rome, Italy)

**Ultrasound for vascular access in children**
Nicola Disma (Genoa, Italy)

**Ultrasound for regional anaesthesia**
Emmanuel Boselli (Bourgoin-Jallieu, France)

**Impact of PERSEUS guidelines on future teaching and training**
Massimo Lamperti (Abu Dhabi, United Arab Emirates)

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**Medical ethical dilemmas: more than a burden?**

**Chair:**
Hartmut Bürkle (Freiburg, Germany)

**The DNR tattoo: more than a picture?**
Arthur Caplan (New York, United States)

**Withholding therapy in a suicide trauma victim?**
Paul McConnell (Paisley, United Kingdom)

**Am I my brother’s keeper? How to deal with impaired and incompetent medical team mates**
Jan Willem Weenink (Nijmegen, Netherlands)
Education in the future...

Chair:
Leila Niemi-Murola (Helsinki, Finland)

Which competencies do anaesthesists and their team members need in 2025?
Annagret Hannaway (Lugano, Switzerland)

Artificial Intelligence: what are the possibilities and how can it support us?
Christian Lovis (Geneva, Switzerland)

Adaptive learning: a skill of the anaesthesiologist 2.0?
Ulrik Christensen (Copenhagen, Denmark)

Teaching the future specialists in anaesthesiology
Symposium organised by the National Anaesthesiologists Societies Committee (NASC)

Chairs:
Serban-Ion Bubenek-Turconi (Bucharest, Romania)
Andreas Sandner-Kiesling (Graz, Austria)

Teaching evidence based medicine and management of uncertainty for decision making
Dan Longrois (Paris, France)

Teaching the (future) teachers
Vojislava Neskovic (Belgrade, Serbia)

What is excellence in teaching? The point of view of trainees
Bernardo Matias (Setubal, Portugal)

ESA Trainee Network: “Trainees for Trainees”
Symposium organised by the ESA Trainees Committee

Chair:
Mario Zerafa (Msida, Malta)

Non-Technical Skills - What’s in it for my patient and I?
Rikke Malene Jepsen (Hvidovre, Denmark)

The critical emergency medicine in the Mediterranean Sea: the role of the Anaesthesiologist in search and rescue operations
Simone Bazurro (Genoa, Italy)

News on diabetes mellitus in the ICU
Abraham Hulst (Amsterdam, Netherlands)
### Implications of the updated European Training Requirement (ETR)

**Symposium organised by the European Board of Anaesthesiology (EBA)**

**Chair:**
Goetz Geldner (Ludwigsburg, Germany)

**Introduction of the updated ETR**
Olegs Sabelnikovs (Riga, Latvia)

**The impact of the EDAIC and the ETR on the European anaesthesiologist**
Andrey Varvinskiy (Torquay, United Kingdom)

**The impact of the HVTAP and the ETR on the European anaesthesiologist**
Valentina Almeida (Coimbra, Portugal)

### Safer anaesthesia with good teamwork in the operating theatre

**Symposium organised by the International Federation of Nurse Anesthetists (IFNA)**

**Chair:**
Marcelo Gama de Abreu (Dresden, Germany)
Pascal Rod (Villennes sur Seine, France)

**Patient outcome: Anaesthesia care team versus solo physicians**
Philippe Dony (Lodelinsart, Belgium)

**Better working processes – the role of the surgical checklist**
Arvid Steinar Haugen (Bergen, Norway)

**Teamwork and patient safety, illustrated by real cases**
Patrice Forget (Brussels, Belgium)
Robert Doureradjam (Geneva, Switzerland)
**Sir Robert Macintosh Lecture**

Chair:
Stefan De Hert (Gent, Belgium)

*Anaesthesiology: a “lifestyle” profession*
Paolo Pelosi (Genoa, Italy)

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**Guidelines: Pro-Con**

*Session organised by the ESA Guidelines Committee*

Chair:
Sibylle Kietaibl (Vienna, Austria)

**Pro**
Edoardo De Robertis (Naples, Italy)

**Con**
Arash Afshari (Copenhagen, Denmark)

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**Diversity and anaesthesia: is there a gender problem?**

*Chairs:*
Maria Cristina Honorato (Pamplona, Spain)
Stefan De Hert (Gent, Belgium)

**The situation in Europe: call for action**
Daniela Filipescu (Bucharest, Romania)

**The situation in the U.S.: ASA perspective and approach**
Elizabeth Rebello (Houston, United States)

**Academic medicine and gender: insight from experience**
Julian Eastoe (Bristol, United Kingdom)
Sustainability: not only in the operating room

Chair:
Sinikka Münte (Helsinki, Finland)
Pierre Albaladejo (Grenoble, France)

The meaning of sustainability: from green to well being
Pierre Albaladejo (Grenoble, France)

Sustainability initiatives in the United Kingdom and at the Royal College of Anaesthetists
J. M. Tom Pierce (Southampton, United Kingdom)

Fast-tracking as an opportunity for greening!
Helene Beloeil (Rennes, France)

The anaesthesiologist as a second victim of an adverse event

Chairs:
Stefan De Hert (Gent, Belgium)
Pierre Albaladejo (Grenoble, France)

Burn-out among anaesthesiologists: results of an Italian survey
Filippo Sanfilippo (Palermo, Italy)

Burn-out among anaesthesiologists: results of Greek survey
Eleni Arnaoutoglou (Ioannina, Greece)

Second victim: causes and consequences
Hervé Bouaziz (Nancy, France)

Interventions in health organisations to reduce the impact of adverse events in second and third victims
To be confirmed

Historical appreciation of refugees from Austria in the years 1938-1945 and their achievements in the field of anaesthesia, critical care, pain medicine and emergency medicine
Symposium organised by the National Organising Committee (NOC)

Chairs:
Klaus Markstaller (Vienna, Austria)
Sharon Einav (Jerusalem, Israel)

National socialism and the consequences for the Viennese medical community
Markus Müller (Vienna, Austria)

Famous Austrian medical scientists/anaesthesiologists in exile
Franz X. Lackner (Vienna, Austria)

Anaesthesia under national socialism
Michael Goerig (Hamburg, Germany)
This will be the next big thing in ... (10 minutes to convince)
Symposium organised by the National Organising Committee (NOC)

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<th>Chairs:</th>
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<tbody>
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<td>Judith Martini (Innsbruck, Austria)</td>
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<tr>
<td>Anette-Marie Schultz (Vienna, Austria)</td>
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<td>...pain medicine!</td>
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<td>Burkhard Gustorff (Vienna, Austria)</td>
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<td>...emergency medicine!</td>
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<td>Harald Willschke (Vienna, Austria)</td>
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<td>...the operating room!</td>
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<td>Oliver Kimberger (Vienna, Austria)</td>
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<td>...critical care!</td>
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<td>Paul Zajic (Graz, Austria)</td>
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**History of anaesthesia**

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<tr>
<td>Alistair McKenzie (Edinburgh, United Kingdom)</td>
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<td>Austria’s contribution to anaesthesia</td>
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<td>Franz X. Lackner (Vienna, Austria)</td>
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<td>Influence of the Vienna/Austrian School on British and American practice</td>
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<td>Alistair McKenzie (Edinburgh, United Kingdom)</td>
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<td>Pain therapy and acupuncture in Austria</td>
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<td>Anna Spacek (Vienna, Austria)</td>
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**Newest ESA guidelines presentation**
Symposium organised by the ESA Guidelines Committee

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<tr>
<td>Arash Afshari (Copenhagen, Denmark)</td>
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<td>Guidelines on ultrasound-guided vascular access and regional blocks</td>
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<td>Massimo Lamperti (Abu Dhabi, United Arab Emirates)</td>
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<td>Guidelines on non-invasive respiratory support for hypoxemic patient</td>
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<td>Marc Leone (Marseille, France)</td>
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ESCA Clinical Trials Network (CTN): Research in action
Symposium organised by the ESA Research Committee

Chair:
Thomas Fuchs-Buder (Vandoeuvre Les Nancy, France)

Concept of Clinical Trial Network and success of past studies
Wolfgang Buhre (Maastricht, Netherlands)

OBTAIN CTN Study: occurrence of bleeding and thrombosis during antiplatelet therapy in non-cardiac surgery
Simon Howell (Leeds, United Kingdom)

PROBESE CTN Study: protective ventilation with higher versus lower PEEP during general anaesthesia for surgery in obese patients
Marcelo Gama de Abreu (Dresden, Germany)

ESA support to researchers: the ESA grants
Symposium organised by the ESA Research Committee

Chair:
Thomas Fuchs-Buder (Vandoeuvre Les Nancy, France)

Presentation of the new BJA-ESA Grant
Donal J. Buggy (Dublin, Ireland)

CTN Grants proposed by ESA - Update on the studies currently recruiting centres
Giovanna Lurati Buse (Düsseldorf, Germany)

Research support for young members: ESA Young Investigator Grant and masterclasses
Isabelle Decosterd (Lausanne, Switzerland)

Residual complications and pulmonary complications: the POPULAR study
Symposium organised by the ESA Research Committee

Chair:
Thomas Fuchs-Buder (Vandoeuvre Les Nancy, France)

The POPULAR results
Manfred Blobner (Munich, Germany)

Neuromuscular management after POPULAR: did we do wrong in the past?
Thomas Fuchs-Buder (Vandoeuvre Les Nancy, France)

Clinical consequences of POPULAR study for daily practice
Benoît Plaud (Paris, France)