



AUSTRIA, VIENNA 01-03 June

Euroanaesthesia

THE EUROPEAN
ANAESTHESIOLOGY
CONGRESS

2019



Final Programme

esahq.org

GENERAL ANAESTHESIOLOGY

Learning Track 1



D 01D1 Saturday, 1 June **Colloids are necessary for intraoperative fluid management: Pro-Con** Piano Hall
 Pro & Con Debate 11:00 - 12:00

Chair:

Thomas Fuchs-Buder* (Nancy, France)

Pro

Thomas Scheeren* (Groningen, Netherlands)

Con

Thorsten Haas* (Zürich, Switzerland)

S 01S1 Saturday, 1 June **Digital health: when computers supervise** Stolz
 Symposium 14:00 - 15:00

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)

L 01L1 Saturday, 1 June **Update on mechanisms of general anaesthesia** Violin Hall
 Lecture 15:15 - 16:00

Chair:

Anthony Absalom* (Groningen, Netherlands)

Speaker:

Nicholas Franks (London, United Kingdom)

L 01L2 Saturday, 1 June **History of self-experiments in anaesthesia** Lehar 1
 Lecture 15:15 - 16:00

Chair:
 Alistair McKenzie (Edinburgh, United Kingdom)

Speaker:
 Fernando Gilsanz (Madrid, Spain)

ME 01ME1 Saturday, 1 June **Prevention and treatment of high-altitude diseases** Strauss 2
 Meet the Expert 15:15 - 16:00

Chair:
 Marc Moritz Berger (Salzburg, Austria)

Speaker:
 Dan Martin* (London, United Kingdom)

RC 01RC1 Saturday, 1 June **Cannabis: more than a recently legalised party drug?** Piano Hall
 Refresher Course 15:15 - 16:00

Chair:
 Marc Moritz Berger (Salzburg, Austria)

Speaker:
 Hanns Ulrich Zeilhofer (Zürich, Switzerland)

S 01S2 Saturday, 1 June **Anaesthesia as a cancer disease modifier** Piano Hall
 Symposium 17:30 - 18:30

Chair:
 Anthony Absalom* (Groningen, Netherlands)

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

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

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

S	01S3 Symposium	Saturday, 1 June 17:30 - 18:30	Goal versus guideline-directed cardiopulmonary resuscitation (CPR)	Stolz
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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)

L	01L3 Lecture	Saturday, 1 June 17:45 - 18:30	Closed loop anaesthesia: how close to prime time is it?	Violin Hall
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Chair:

Michel Struys* (Groningen, Netherlands)

Speaker:

Ngai Liu* (Paris, France)

S	01S4 Symposium	Sunday, 2 June 08:00 - 09:00	Malignant hyperthermia (MH) outside the operating theatre	Schubert 5
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Symposium organised in collaboration with the European Malignant Hyperthermia Group (EMHG)

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)

S	01S5 Symposium	Sunday, 2 June 08:00 - 09:00	Evidence of the impact of anaesthesia and surgery on the human brain	Piano Hall
<p>Chair: Lis Evered (Fitzroy, Australia)</p> <hr/> <p>The human brain after surgery: central nervous system (CNS) immune activation and long-term cognitive changes Lars I Eriksson (Stockholm, Sweden)</p> <hr/> <p>Neurological sequelae of anaesthesia and surgery: equivalent to traumatic brain injury? Lis Evered (Fitzroy, Australia)</p> <hr/> <p>The new nomenclature for perioperative cognitive disorders: the first 18 months of use in the literature Roderic G. Eckenhoff (Philadelphia, United States)</p>				
S	01S6 Symposium	Sunday, 2 June 08:00 - 09:00	Pharmacology in special patient populations	Strauss 1
<p>Chair: Marc Moritz Berger (Salzburg, Austria)</p> <hr/> <p>Pregnant women Tony Gin (Hong Kong, China)</p> <hr/> <p>Paediatric patients Tom Giedsing Hansen (Odense, Denmark)</p> <hr/> <p>Elderly patients Mark Coburn (Aachen, Germany)</p>				
L	01L4 Lecture	Sunday, 2 June 09:15 - 10:00	Inhaled agents, carrier gases and the environment	Cello Hall
<p>Chair: Jan Hendrickx* (Aalst, Belgium)</p> <hr/> <p>Speaker: Ole John Nielsen (Copenhagen, Denmark)</p>				
L	01L5 Lecture	Sunday, 2 June 09:15 - 10:00	Perioperative blood pressure management: what is the optimal blood pressure?	Strauss 2
<p>Chair: Thomas Scheeren* (Groningen, Netherlands)</p> <hr/> <p>Speaker: Bernd Saugel* (Hamburg, Germany)</p>				

D	01D2 Pro & Con Debate	Sunday, 2 June 14:00 - 15:00	WHO-recommendation for 80% oxygen – consigned to history? Pro-Con	Strauss 1
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Chair:

Tony Gin (Hong Kong, China)

Pro

Markus W. Hollmann (Amsterdam, Netherlands)

Con

Marc Moritz Berger (Salzburg, Austria)

S	01S7 Symposium	Sunday, 2 June 14:00 - 15:00	From big data via machine learning to predictive modelling	Violin Hall
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Chair:

Thomas Scheeren* (Groningen, Netherlands)

Big data - Big evidence?

Steven L. Shafer (Stanford, United States)

Predicting hypotension

Thomas Scheeren* (Groningen, Netherlands)

Predicting hypothermia

Oliver Kimberger (Vienna, Austria)

D	01D3 Pro & Con Debate	Sunday, 2 June 17:00 - 18:00	Sugammadex should be the first line reversal agent: Pro-Con	Piano Hall
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Chair:

Thomas Fuchs-Buder* (Nancy, France)

Pro

Hans Donald De Boer* (Groningen, Netherlands)

Con

Radmilo Jankovic (Nis, Serbia)

S	01S8 Symposium	Monday, 3 June 08:30 - 09:30	Adverse long-term effects of general anaesthesia Symposium organised in collaboration with the British Journal of Anaesthesia (BJA)	Piano Hall
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Chair:

Philip Hopkins (Leeds, United Kingdom)

Developmental neurotoxicity

Hugh Hemmings* (New York, United States)

Delirium, postoperative cognitive dysfunction (POCD) and neurodegeneration

Robert David Sanders (London, United Kingdom)

Cancer metastasis and survival

Donal J. Buggy (Dublin, Ireland)

L	01L6 Lecture	Monday, 3 June 09:45 - 10:30	Hot Topics in Anaesthesiology - Last 12 months' top publications	Violin Hall
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Chair:

Charles Marc Samama (Paris, France)

Speaker

Andreas Hoeft (Bonn, Germany)

RC	01RC2 Refresher Course	Monday, 3 June 09:45 - 10:30	Fluids, blood and oxygen: friends or foes?	Strauss 1
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Chair:

Bernd Saugel* (Hamburg, Germany)

Speaker:

Thomas Scheeren* (Groningen, Netherlands)

AMBULATORY ANAESTHESIA

Learning Track 2



L	02L1 Lecture	Saturday, 1 June 16:30 - 17:15	Litigation and complaints associated with ambulatory anaesthesia	Stolz
<p>Chair: Mark Skues (Chester, United Kingdom)</p> <hr/> <p>Speaker: Annabel Pearson (Bath, United Kingdom)</p>				
D	02D1 Pro & Con Debate	Sunday, 2 June 08:00 - 09:00	Neuromuscular blockade and opioids in ambulatory anaesthesia: Pro-Con	Lehar 1
<p>Chair: Tatjana Simurina (Zadar, Croatia)</p> <hr/> <p>Pro Slavica Kvolik (Osijek, Croatia)</p> <hr/> <p>Con Boris Mraovic* (Philadelphia, United States)</p>				
RC	02RC1 Refresher Course	Sunday, 2 June 09:15 - 10:00	Ambulatory anaesthesia: the state of the art	Flute Hall
<p>Chair: Mark Skues (Chester, United Kingdom)</p> <hr/> <p>Speaker: Ian Smith (Stoke-on-Trent, United Kingdom)</p>				

S	02S1 Symposium	Sunday, 2 June 17:00 - 18:00	Diabetes mellitus in the ambulatory setting	Flute Hall
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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

Kariem El-Boghdadly* (London, United Kingdom)

New drugs for diabetes in the perioperative setting

Jeroen Hermanides (Amsterdam, Netherlands)

S	02S2 Symposium	Monday, 3 June 08:30 - 09:30	Perioperative management of antithrombotic therapy in ambulatory anaesthesia	Flute Hall
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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)

REGIONAL ANAESTHESIA

Learning Track 3



S	03S1 Symposium	Saturday, 1 June 11:00 - 12:00	Regional anaesthesia in patients with specific issues	Stolz
<p>Chair: Luc Sermeus* (Edegem, Belgium)</p> <hr/> <p>Peripheral nerve block in anticoagulated patients Brian Kinirons (Galway, Ireland)</p> <hr/> <p>Peripheral nerve block in patients with pre-existing neuropathy Gabriella Iohom (Cork, Ireland)</p> <hr/> <p>Peripheral nerve block in patients unable to provide consent Morne Wolmarans (Norwich, United Kingdom)</p>				
D	03D1 Pro & Con Debate	Saturday, 1 June 14:00 - 15:00	Adjuncts or catheters to prolong single-shot injections of local anaesthetics?	Strauss 1
<p>Chair: Matthias Desmet (Kortrijk, Belgium)</p> <hr/> <p>Adjuncts Eric Albrecht* (Lausanne, Switzerland)</p> <hr/> <p>Catheters David Johnston (Belfast, United Kingdom)</p>				
D	03D2 Pro & Con Debate	Saturday, 1 June 16:30 - 17:30	Regional anaesthesia should be performed routinely in patients undergoing orthopaedic surgery: Pro-Con	Violin Hall
<p>Chair: Kariem El-Boghdadly* (London, United Kingdom)</p> <hr/> <p>Pro Eric Albrecht* (Lausanne, Switzerland)</p> <hr/> <p>Con Jose Romero (Zürich, Switzerland)</p>				

S	03S2 Symposium	Sunday, 2 June 08:00 - 09:00	Game changers - Recent papers in regional anaesthesia that changed my practice	Strauss 2
<p>Chair: Luc Sermeus* (Edegem, Belgium)</p> <hr/> <p>Ultrasound-guided techniques for peripheral nerve block Matthias Desmet (Kortrijk, Belgium)</p> <hr/> <p>Peripheral nerve blocks to improve postoperative recovery Morne Wolmarans (Norwich, United Kingdom)</p>				
L	03L1 Lecture	Sunday, 2 June 09:15 - 10:00	Fascia plane blocks – Old techniques, new perspectives	Schubert 5
<p>Chair: Eric Albrecht* (Lausanne, Switzerland)</p> <hr/> <p>Speaker: Kariem El-Boghdadly* (London, United Kingdom)</p>				
S	03S3 Symposium	Sunday, 2 June 15:15 - 16:15	Regional anaesthesia: secret recipes from experts	Flute Hall
<p>Chair: Eric Albrecht* (Lausanne, Switzerland)</p> <hr/> <p>Which local anaesthetics for which block? Morne Wolmarans (Norwich, United Kingdom)</p> <hr/> <p>Tips and tricks to maintain perineural catheters and avoid complications David Johnston (Belfast, United Kingdom)</p> <hr/> <p>Local anaesthetic prescription for postoperative continuous infusion Alan Macfarlane (Glasgow, United Kingdom)</p>				
S	03S4 Symposium	Monday, 3 June 08:30 - 09:30	Regional anaesthesia: past, present, future	Cello Hall
<p>Chair: Peter Marhofer (Vienna, Austria)</p> <hr/> <p>Regional anaesthesia: past Peter Marhofer (Vienna, Austria)</p> <hr/> <p>Regional anaesthesia: present Lukas Kirchmair* (Schwaz, Austria)</p> <hr/> <p>Regional anaesthesia: future Gerhard Fritsch (Vienna, Austria)</p>				

S

0355
Symposium

Monday, 3 June
11:00 - 12:00

Regional anaesthesia for ambulatory surgery

Stolz

Chair:

TBA

Shoulder arthroscopic surgery

Morne Wolmarans (Norwich, United Kingdom)

Anterior cruciate ligament reconstruction

Pia Jæger (Copenhagen, Denmark)

Foot surgery

Luc Sermeus* (Edegem, Belgium)

OBSTETRIC ANAESTHESIOLOGY

Learning Track 4



S	04S1 Symposium	Saturday, 1 June 17:30 - 18:30	Dural puncture epidural (DPE), combined spinal epidural (CSE) or epidural alone for labour?	Flute Hall
<p>Chair: Frédéric Mercier (Clamart, France)</p> <hr/> <p>Epidural alone? Emilia Guasch (Madrid, Spain)</p> <hr/> <p>Combined spinal epidural (CSE)? Marc Van de Velde (Leuven, Belgium)</p> <hr/> <p>Dural puncture epidural (DPE)? Lawrence Tsen (Boston, United States)</p>				
L	04L1 Lecture	Sunday, 2 June 09:15 - 10:00	Programmed intermittent epidural boluses (PIEB) combined with patient-controlled epidural analgesia (PCEA) mode for maintenance of labour analgesia	Lehar 1
<p>Chair: Nuala Lucas (London, United Kingdom)</p> <hr/> <p>Speaker: Ronald B. George (Halifax, Canada)</p>				
S	04S2 Symposium	Sunday, 2 June 10:30 - 12:00	Tips and tricks in obstetric anaesthesia, analgesia and resuscitation	Flute Hall
<p>Chair: Marc Van de Velde (Leuven, Belgium)</p> <hr/> <p>Avoiding hypotension during C-section under neuraxial anaesthesia Mike Kinsella (Bristol, United Kingdom)</p> <hr/> <p>Timing of initiation of neuraxial analgesia and impact on progress of labour Michela Camorcia (Rome, Italy)</p> <hr/> <p>Use of cardiac and lung ultrasound for obstetric emergencies Clemens Ortner (Stanford CA, United States)</p> <hr/> <p>Bleeding management in obstetric haemorrhage Anne-Sophie Bouthors (Lille, France)</p>				

S	04S3 Symposium	Sunday, 2 June 15:15 - 16:15	Preeclampsia – What's new?	Stolz
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Chair:

Frédéric Mercier (Clamart, France)

Obstetric management

Vassilis Tsatsaris* (Paris, France)

Anaesthetic and resuscitation management

Clemens Ortner (Stanford CA, United States)

L	04L2 Lecture	Monday, 3 June 11:00 - 11:45	Hot Topics in Obstetric Analgesia and Anaesthesia - Last 12 months' top publications	Violin Hall
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Chair:

Carolyn Weiniger (Tel Aviv, Israel)

Speaker:

Dominique Chassard (Bron, France)

PAEDIATRIC ANAESTHESIOLOGY
Learning Track 5



S	05S1 Symposium	Saturday, 1 June 14:00 - 15:00	Controversies in paediatric anaesthesia	Schubert 5
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Chair:

Laszlo Vutskits (Geneva, Switzerland)

Approach to adolescents: what changes?

Tom Giedsing Hansen (Odense, Denmark)

Anaesthesia for the obese child

Maren Kleine-Brueggene (London, United Kingdom)

The new statement of preoperative fasting: is that all we need?

Peter Gunnar Mikael Frykholm (Uppsala, Sweden)

S	05S2 Symposium	Sunday, 2 June 15:15 - 16:15	The paediatric airway	Cello Hall
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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)

S	05S3 Symposium	Sunday, 2 June 17:00 - 18:00	ESA Trainee Network: networking with the experts in paediatric anaesthesiology Symposium organised by the ESA Trainees Committee	Agora
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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)

S 05S4 Monday, 3 June **Best practice for blood management in children** Strauss 1
Symposium 08:30 - 09:30
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

Andreas Machotta (Rotterdam, Netherlands)

L 05L1 Monday, 3 June **From acute to chronic pain in children** Cello Hall
Lecture 09:45 - 10:30

Chair:

Laszlo Vutskits (Geneva, Switzerland)

Speaker:

Suellen Walker (London, United Kingdom)

S 05S5 Monday, 3 June **Paediatric anaesthesia and neurological outcome: the GAS Study** Flute Hall
Symposium 14:00 - 15:00
Late-Breaking Session

Chair:

Nicola Disma (Genoa, Italy)

The GAS Study results

Nicola Disma (Genoa, Italy)

Rationale for the neurological outcomes

Liam Dorris (Glasgow, United Kingdom)

The need for future research

Marry Ellen McCann (Boston, United States)

NEUROANAESTHESIOLOGY

Learning Track 6



S	06S1 Symposium	Sunday, 2 June 10:30 - 12:00	Critical conditions in neuroanaesthesia: how do we face them?	Strauss 2
<p>Chair: Alexander Zlotnik (Beer-Sheva, Israel)</p> <hr/> <p>Management of intraoperative swelling in brain surgery Alexander Kulikov (Moscow, Russia)</p> <hr/> <p>Airway management in patient with unstable cervical spine Maria Cristina Honorato (Pamplona, Spain)</p> <hr/> <p>A current approach to prevention and treatment of venous air embolism Martin Söhle* (Bonn, Germany)</p> <hr/> <p>Cerebral bleeding and new anticoagulants Dana Baron Shahaf (Haifa, Israel)</p>				
S	06S2 Symposium	Sunday, 2 June 15:15 - 16:15	Anaesthesia for invasive brain radiology	Lehar 1
<p>Chair: Martin Söhle* (Bonn, Germany)</p> <hr/> <p>General anaesthesia vs. local anaesthesia with conscious sedation: does it really matter? Alexander Zlotnik (Beer-Sheva, Israel)</p> <hr/> <p>Intraoperative non-invasive brain monitoring Chiara Robba (Genoa, Italy)</p> <hr/> <p>The radiologist's point of view: basics of the procedure and expectation of the anaesthesiologist Jordi Blasco (Barcelona, Spain)</p>				
ME	06ME1 Meet the Expert	Monday, 3 June 09:45 - 10:30	A practical approach to TBI in the ICU Session organised by the Trainee Committee	Trainee Booth
<p>Chair: Matija Majic (Zagreb, Croatia)</p> <hr/> <p>Speaker: Aeyal Raz* (Madison, United States)</p>				



06L1
Lecture

Monday, 3 June
15:30 - 16:15

Hot Topics in Neuroanaesthesia - Last 12 months' top publications

Stolz

Chair:

Alexander Zlotnik (Beer-Sheva, Israel)

Speaker:

Martin Söhle* (Bonn, Germany)

CARDIAC, THORACIC AND VASCULAR ANAESTHESIOLOGY

Learning Track 7



S	07S1 Symposium	Saturday, 1 June 11:00 - 12:00	Blood pressure: new perspectives on an old issue Cello Hall
<p>Chair: Jilles Bijker (Ede, Netherlands)</p> <hr/> <p>Guidelines for the community management of hypertension and their implications for perioperative care Simon Howell (Leeds, United Kingdom)</p> <hr/> <p>The risks of intraoperative hypotension Jilles Bijker (Ede, Netherlands)</p> <hr/> <p>Use of phenylephrine in the operating room: could it be more harmful than helpful? Jean-Luc Fellahi (Lyon, France)</p>			
RC	07RC1 Refresher Course	Saturday, 1 June 16:30 - 17:15	Cardio-circulatory stabilisation of the hypovolemic patient: the endless story Strauss 2
<p>Chair: Bernard Cholley* (Paris, France)</p> <hr/> <p>Speaker: Jean-Louis Teboul* (Le Kremlin-Bicêtre, France)</p>			
S	07S2 Symposium	Sunday, 2 June 08:00 - 09:00	Levosimendan in 2019: who are the appropriate patients? Stolz
<p>Chair: Patrick Wouters (Gent, Belgium)</p> <hr/> <p>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)</p> <hr/> <p>Are some septic patients likely to benefit from levosimendan? Anthony Gordon (London, United Kingdom)</p> <hr/> <p>The less common situations in which levosimendan is the prime choice Bernard Cholley* (Paris, France)</p>			



S	07S3 Symposium	Sunday, 2 June 10:30 - 12:00	Controversies in the perioperative management of the cardiac patient: 10 minutes to convince	Piano Hall
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Chair:

Philip J. Devereaux* (Hamilton, Canada)

Benefits and risks of betablockers

Pierre Foex (Oxford, United Kingdom)

Benefits and risks of alpha2-agonists

Patrice Forget (Brussels, Belgium)

Must I stop renin angiotensin system (RAS) inhibitors?

Pascal Colson (Montpellier, France)

Should I always maintain aspirin?

Anne Godier* (Paris, France)

Sevoflurane or propofol-based anaesthesia?

Giovanni Landoni* (Milan, Italy)

PACU/ICU or continuous monitoring in the ward?

Cornelis Kalkman (Utrecht, Netherlands)

S	07S4 Symposium	Sunday, 2 June 14:00 - 15:00	Dexmedetomidine in anaesthesia and intensive care	Flute Hall
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Chair:

Jean-Luc Fellahi (Lyon, France)

How to use it for procedural sedation and analgesia?

Robert-Denham Fitzgerald (Vienna, Austria)

Its place in opioid free anaesthesia

Patrice Forget (Brussels, Belgium)

Advantages and pitfalls in cardiac ICU

Bernard Cholley* (Paris, France)

S	07S5 Symposium	Sunday, 2 June 17:00 - 18:00	Challenges in cardiovascular anaesthesia	Cello Hall
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Chair:

Jean-Luc Fellahi (Lyon, France)

Acute cardiac failure with preserved left ventricular function


Etienne Gayat* (Paris, France)

Right ventricular failure: how to diagnose and how to treat it?

Patrick Wouters (Gent, Belgium)

How to manage patients with Heparin-Induced thrombocytopenia who require cardiac surgery?

Anne Godier* (Paris, France)

RC	07RC2 Refresher Course	Monday, 3 June 09:45 - 10:30	Trans-catheter aortic valve insertion (TAVI) in 2019: an update	Stolz
<p>Chair: Bernard Cholley* (Paris, France)</p>				
<p>Speaker: Benedikt Preckel* (Amsterdam, Netherlands)</p>				
S	07S6 Symposium	Monday, 3 June 11:00 - 12:00	Improving postoperative monitoring on the ward for the cardiac risk patient	Piano Hall
<p>Chair: Bernd Saugel* (Hamburg, Germany)</p>				
<p>Effects of postoperative visits by anaesthesiologists - outcome and economics Wolfgang Buhre* (Maastricht, Netherlands)</p>				
<p>Which vital parameters to be monitored on the postsurgical ward? Cornelis Kalkman (Utrecht, Netherlands)</p>				
<p>Does continuous wireless monitoring on the surgical ward improve outcome? Benedikt Preckel* (Amsterdam, Netherlands)</p>				
S	07S7 Symposium	Monday, 3 June 11:00 - 12:00	<p>Neuromonitoring during cardiovascular anaesthesia Symposium organised in collaboration with the European Association of Cardiothoracic Anaesthesiology (EACTA)</p>	Strauss 2
 European Association of Cardiothoracic Anaesthesiologists				
<p>Chair: Stefan De Hert (Gent, Belgium) Fabio Guarracino (Pisa, Italy)</p>				
<p>Depth of anesthesia monitoring Mona Momeni* (Brussels, Belgium)</p>				
<p>Is there a place for NIRS in tissue oxygenation monitoring? Caroline Vanpeteghem (Gent, Belgium)</p>				
<p>How to assess spinal ischemia Paolo Zanatta (Treviso, Italy)</p>				
<p>Discussion</p>				
RC	07RC3 Refresher Course	Monday, 3 June 14:00 - 14:45	<p>Haemodynamic goal-directed therapy : are closed-loop systems the future? Young Teaching Recognition Award winner 2018</p>	Strauss 1
<p>Chair: Jean-Luc Fellahi (Lyon, France)</p>				
<p>Speaker Sean Coeckelenbergh (Brussels, Belgium)</p>				

RC

07RC4

Refresher Course

Monday, 3 June

15:30 - 16:15

Extracorporeal membrane oxygenation (ECMO): indications, techniques and limitations

Schubert

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Chair:

Christian Putensen (Bonn, Germany)

Speaker:

Bernard Cholley* (Paris, France)

ACUTE AND CHRONIC PAIN MANAGEMENT AND PALLIATIVE MEDICINE

Learning Track 8



S	08S1 Symposium	Saturday, 1 June 14:00 - 15:00	Acute and chronic pain: the anaesthesiologist's role...	Lehar 1
<p>Chair: Marc René Suter (Lausanne, Switzerland)</p> <hr/> <p>... in managing and preventing pain after surgery Esther M. Pogatzki-Zahn* (Münster, Germany)</p> <hr/> <p>... in managing chronic pain Patricia Lavandhomme (Brussels, Belgium)</p> <hr/> <p>... in palliative care Kris Vissers (Nijmegen, Netherlands)</p>				
RC	08RC1 Refresher Course	Saturday, 1 June 16:30 - 17:15	Evidence-based medicine guidelines for the management of low back pain	Flute Hall
<p>Chair: Kris Vissers (Nijmegen, Netherlands)</p> <hr/> <p>Speaker: Jan Van Zundert (Lanaken, Belgium)</p>				
S	08S2 Symposium	Sunday, 2 June 15:15 - 16:15	Pain management in critically ill patients	Strauss 1
<p>Chair: Jean-Pierre Estebe (Rennes, France)</p> <hr/> <p>Acute pain in the intensive care unit (ICU): management beyond the usual therapeutic strategies Caterina Aurilio (Naples, Italy)</p> <hr/> <p>Chronic neuropathic pain in critically ill patients: diagnosis and management Winfried Meissner (Jena, Germany)</p>				

S 08S3 Monday, 3 June **Omics and pain: where are we here?** Stolz
Symposium 08:30 - 09:30

Chair:

Winfried Meissner (Jena, Germany)

Genomics and pain

Bert Joosten (Maastricht, Netherlands)

Proteomics and pain

Esther M. Pogatzki-Zahn* (Münster, Germany)

L 08L1 Monday, 3 June **Hot Topics in Pain Medicine: Last 12 months' top publications** Piano
Lecture 14:00 - 14:45 Hall

Chair:

Esther M. Pogatzki-Zahn* (Münster, Germany)

Acute pain

Patricia Lavandhomme (Brussels, Belgium)

Chronic pain

Marc René Suter (Lausanne, Switzerland)

INTENSIVE CARE MEDICINE
 Learning Track 9



S	09S1 Symposium	Saturday, 1 June 11:00 - 12:00	Extracorporeal techniques in sepsis: is it worth the effort?	Flute Hall
<p>Chair: Sharon Einav (Jerusalem, Israel)</p> <hr/> <p>Continuous renal replacement techniques (CRRT) Alexander Zarbock* (Münster, Germany)</p> <hr/> <p>Cytokine removal Zsolt Molnar* (Szeged, Hungary)</p> <hr/> <p>Endotoxin removal Didier Payen (Paris, France)</p>				
ME	09ME1 Meet the Expert	Saturday, 1 June 14:00 - 14:45	A practical approach to trauma ICU patients Session organised by the Trainee Committee	Trainee Booth
<p>Chair: Matija Majic (Zagreb, Croatia)</p> <hr/> <p>Speaker: Sharon Einav (Jerusalem, Israel)</p>				
L	09L1 Lecture	Saturday, 1 June 15:15 - 16:00	Assessing delirium in the intensive care unit	Strauss 1
<p>Chair: Mark Coburn (Aachen, Germany)</p> <hr/> <p>Speaker: Ulf Guenther* (Oldenburg, Germany)</p>				

ME 09ME2 Saturday, 1 June **How to avoid predatory publishing in anaesthesia and critical care** Strauss 1
Meet the Expert 16:30 - 17:15

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)

L 09L2 Sunday, 2 June **Hot topics in intensive care medicine - Last 12 months' top publications** Piano Hall
Lecture 09:15 - 10:00

Chair:

Cesare Gregoretti* (Palermo, Italy)

Speaker

Davide Chiumello (Milan, Italy)

S 09S2 Sunday, 2 June **Strategies to improve outcomes in critical care medicine** Lehar 1
Symposium 10:30 - 12:00

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)

S 09S3 Sunday, 2 June **Resuscitation in septic shock: is less better?** Piano Hall
Symposium 14:00 - 15:00

Chair:

Xavier Monnet (Paris, France)

Less fluids?


Gernot Marx* (Aachen, Germany)

Less vasopressors?

Claude Martin (Marseille, France)

Less inotropes?


Jean-Louis Vincent (Brussels, Belgium)

S	09S4 Symposium	Sunday, 2 June 15:15 - 16:15	The future of ICU	Violin Hall
<p>Chair: Zsolt Molnar* (Szeged, Hungary)</p> <hr/> <p>The era of precision medicine Jean-Louis Vincent (Brussels, Belgium)</p> <hr/> <p>Typology of ICU patients in 2050 Elie Azoulay (Paris, France)</p> <hr/> <p>How will the extracorporeal membrane oxygenation (ECMO) story continue? Antonio Pesenti (Milan, Italy)</p>				
S	09S5 Symposium	Sunday, 2 June 17:00 - 18:00	Palliative care in the intensive care unit (ICU)	Strauss 1
<p>Chair: Hartmut Bürkle (Freiburg, Germany)</p> <hr/> <p>Assessment and management of symptoms in ICU Gerald Chanques* (Montpellier, France)</p> <hr/> <p>Dealing with dying patients and their relatives Elie Azoulay (Paris, France)</p> <hr/> <p>Withdrawal of life support in ICU Sebastiano Mercadante (Palermo, Italy)</p>				
S	09S6 Symposium	Sunday, 2 June 17:00 - 18:00	Patient Safety within ESA & ESICM – projects and achievements Symposium organised in collaboration with the European Society of Intensive Care Medicine (ESICM)	Violin Hall
 <p>Chair: Kai Zacharowski* (Frankfurt, Germany)</p> <hr/> <p>ESA President Stefan De Hert (Gent, Belgium)</p> <hr/> <p>ESICM President Jozef Kesecioglu (Utrecht, Netherlands)</p> <hr/> <p>ESA President-elect Kai Zacharowski* (Frankfurt, Germany)</p> <hr/> <p>ESICM President-elect Maurizio Cecconi (Milan, Italy)</p>				

CRITICAL EMERGENCY MEDICINE - TRAUMA AND RESUSCITATION

Learning Track 10



S	10S1 Symposium	Saturday, 1 June 12:00 - 13:00	Bloody mess – transfusion and coagulation Symposium organised by Anesthesia and Analgesia Journal	Violin Hall
	<p>Chair: Catherine Heim (Lausanne, Switzerland) Kurt Ruetzler (Cleveland, United States)</p> <hr/> <p>Bleeding in traumatic brain injury Jean-François Payen (Grenoble, France)</p> <hr/> <p>Coagulation abnormalities in surgical bleeding Jean-François Pittet (Birmingham, United States)</p> <hr/> <p>Obstetrical haemorrhage Alexander Butwick* (Stanford, United States)</p>			
ME	10ME1 Meet the Expert	Saturday, 1 June 16:30 - 17:15	A practical approach to triage of trauma patients prior to ICU Session organised by the Trainee Committee	Trainee Booth
<p>Chair: Matija Majic (Zagreb, Croatia)</p> <hr/> <p>Speaker: Kurt Ruetzler (Cleveland, United States)</p>				
S	10S2 Symposium	Saturday, 1 June 17:30 - 18:30	Violence and resilience	Cello Hall
<p>Chair: Antoine Baumann (Le Kremlin-Bicêtre, France)</p> <hr/> <p>Listening to family members of critically ill patients Elie Azoulay (Paris, France)</p> <hr/> <p>Lessons in planning from mass casualty events by terrorism Sabine Roche (Paris, France)</p> <hr/> <p>Violence against healthcare staff in hospitals: an underestimated problem? Sabine Hahn (Bern, Switzerland)</p>				

S	10S3 Symposium	Saturday, 1 June 17:30 - 18:30	The role of mechanical cardiac support	Strauss 1
<p>Chair: Bernd Böttiger* (Cologne, Germany)</p> <hr/> <p>Indication and outcome of extracorporeal cardiopulmonary resuscitation (ECPR) Benoît Vivien (Paris, France)</p> <hr/> <p>ECPR: All about the flow! Guido Michels* (Cologne, Germany)</p> <hr/> <p>ECPR and donor after cardiac death (DCD) Marinella Zanierato (Pavia, Italy)</p>				
L	10L1 Lecture	Sunday, 2 June 15:15 - 16:00	Hot Topics in Critical Emergency Medicine - Last 12 months' top publications	Piano Hall
<p>Chair: Ayten Saracoglu (Istanbul, Turkey)</p> <hr/> <p>Speaker: Catherine Heim (Lausanne, Switzerland)</p>				
S	10S4 Symposium	Sunday, 2 June 17:00 - 18:00	Major trauma and resuscitation update - Perioperative management and outcomes	Strauss 2
<p>Symposium organised by the New York State Society of Anesthesiologists (NYSSA)</p> <hr/> <p>Chair: Audree Bendo (Brooklyn, United States)</p> <hr/> <p>Severe Traumatic Brain Injury Audree Bendo (Brooklyn, United States)</p> <hr/> <p>Major Orthopedic Trauma Rose Berkun (Buffalo, United States)</p> <hr/> <p>Fluid and Transfusion Management Linda Shore-Lesserson (New York, United States)</p>				
S	10S5 Symposium	Sunday, 2 June 17:00 - 18:00	New developments in critical emergency medicine	Lehar 1
<p>Chair: Karl-Christian Thies (Greifswald, Germany)</p> <hr/> <p>New trends in education for cardiopulmonary resuscitation (CPR) - Technical and non-technical skills Anne Lippert (Herlev, Denmark)</p> <hr/> <p>Use of drones to deliver automated external defibrillator (AED) directly to the scene Andreas Claesson (Stockholm, Sweden)</p> <hr/> <p>Should we anaesthetise awake major trauma patients? TBA</p>				

S 1056 Monday, 3 June **The role of ultrasound in acute cardiac care monitoring** Lehar 1
Symposium 08:30 - 09:30

Chair:

Thomas Scheeren* (Groningen, Netherlands)

In cardiac arrest

Raoul Breitzkreutz (Frankfurt, Germany)

In acute heart failure and cardiogenic shock

Fabio Guarracino (Pisa, Italy)

For regional hemodynamic assessment

Antoine Vieillard-Baron* (Paris, France)

S 1057 Monday, 3 June **Ventilation strategies during cardiopulmonary resuscitation (CPR)** Strauss 1
Symposium 11:00 - 12:00

Chair:

Kurt Ruetzler (Cleveland, United States)

Pulmonary aspiration during CPR

Kurt Ruetzler (Cleveland, United States)

How should we ventilate?

Giacomo Grasselli (Milan, Italy)

Endotracheal tube versus supraglottic airway

Ayten Saracoglu (Istanbul, Turkey)

S 1058 Monday, 3 June **The role of emergency non-invasive ventilation** Stolz
Symposium 14:00 - 15:00

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)

S	10S9 Symposium	Monday, 3 June 14:00 - 15:00	Trauma - State of the art Symposium organised by the European Trauma Course Organisation (ETCO)	Strauss 2
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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)

RESPIRATION AND AIRWAY MANAGEMENT

Learning Track 11



ME

11ME1

Meet the Expert

Saturday, 1 June

11:00 - 12:00

Fiberoptic bronchoscope or videolaryngoscope for my obese patient?

Strauss 2

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



Chair:

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)

S

11S1

Symposium

Saturday, 1 June

17:30 - 18:30

Current topics in mechanical ventilation

Lehar 1

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)

S

11S2

Symposium

Sunday, 2 June

10:30 - 12:00

New tools in airway management: promises kept or much ado about nothing?

Cello Hall

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: peroxxygenation

Massimiliano Sorbello* (Catania, Italy)

ME 11ME2 Monday, 3 June **Tracheal introducers and airway catheters: tips and tricks** Schubert 5
Meet the Expert 09:45 - 10:30

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)

PBLD 11PBLD1 Monday, 3 June **A difficult airway case: is prediction still important?** Agora
Problem Based Learning Discussion 09:45 - 10:30

Chair:

Pedro Charco (Valencia, Spain)

To predict or not to predict? That is the question.

Ayten Saracoglu (Istanbul, Turkey)

RC 11RC1 Monday, 3 June **Protecting the lungs and the diaphragm: a new paradigm in mechanical ventilation** Lehar 1
Refresher Course 09:45 - 10:30
Young Teaching Recognition Award winner 2018

Chair:

Robert Greif* (Bern, Switzerland)

Speaker

Tom Schepens (Edegem, Belgium)

S 11S3 Monday, 3 June **Assisted ventilation in the intensive care unit: from fixed support to proportional ventilation** Lehar 1
Symposium 11:00 - 12:00

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)

D	11D1 Pro & Con Debate	Monday, 3 June 14:00 - 15:00	Positive end-expiratory pressure (PEEP) should always be used: Pro-Con	Lehar 1
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Chair:

Paolo Pelosi (Genoa, Italy)

Pro

Christian Putensen (Bonn, Germany)

Con

Marcus Schultz (Amsterdam, Netherlands)

S	11S4 Symposium	Monday, 3 June 15:30 - 16:30	Highlights in anaesthesia for thoracic surgery Symposium organised by the Brazilian Society of Anesthesiology (SBA)	Cello Hall
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Chair:

Ana Cristina Pinho Mendes Pereira (Rio de Janeiro, Brazil)

Airway management and monopulmonary ventilation: tips and tricks

Chiara Scaglioni Tessmer Gatto (Sao Paolo, Brazil)

One-lung ventilation

Raffael Pereira Cezar Zamper (Sao Paolo, Brazil)

Postoperative analgesia

Gustavo Rodrigues Costa Lages (Belo Horizonte, Brazil)

TRANSFUSION, HAEMOSTASIS AND THROMBOSIS

Learning Track 12



S	12S1 Symposium	Saturday, 1 June 14:00 - 15:00	Prehospital fluid and coagulation management	Strauss 2
<p>Chair: Patrick Meybohm* (Frankfurt, Germany)</p> <hr/> <p>Target blood pressure in the bleeding patient with or without brain injury Patrick Reinhold Schober (Amsterdam, Netherlands)</p> <hr/> <p>Prehospital transfusion with blood products Christian Fenger-Eriksen (Aarhus, Denmark)</p> <hr/> <p>Optimising coagulation efforts in the bleeding trauma patient Marc Maegele* (Cologne, Germany)</p>				
L	12L1 Lecture	Saturday, 1 June 15:15 - 16:00	Practical implementation of blood management programmes	Flute Hall
<p>Chair: Christa Boer (Amsterdam, Netherlands)</p> <hr/> <p>Speaker: Patrick Meybohm* (Frankfurt, Germany)</p>				
S	12S2 Symposium	Sunday, 2 June 08:00 - 09:00	Perioperative management and monitoring of patients...	Cello Hall
<p>Chair: Christian von Heymann* (Berlin, Germany)</p> <hr/> <p>... on direct oral anticoagulants Pierre Albaladejo* (Grenoble, France)</p> <hr/> <p>... on dual or single antiplatelet therapy Christian von Heymann* (Berlin, Germany)</p> <hr/> <p>... with cirrhosis, protein C-S deficiency, von Willebrand disease and haemophilia Aamer B. Ahmed* (Leicester, United Kingdom)</p>				

ME	12ME1 Meet the Expert	Sunday, 2 June 17:00 - 17:45	A practical approach to massive hemorrhage and coagulation problems in trauma patients in the ICU Session organised by the Trainee Committee	Trainee Booth
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Chair:

Matija Majic (Zagreb, Croatia)

Speaker:

Christian von Heymann* (Berlin, Germany)

S	12S3 Symposium	Monday, 3 June 11:00 - 12:00	Is there a superior transfusion algorithm?	Flute Hall
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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)

S	12S4 Symposium	Monday, 3 June 14:00 - 15:00	Update of the European guidelines for the management of bleeding and coagulopathy: what's new in diagnostics and treatment	Cello Hall
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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)

PERIOPERATIVE MEDICINE
 Learning Track 13



S	13S1 Symposium	Saturday, 1 June 14:00 - 15:00	Prevention of perioperative myocardial infarction	Flute Hall
<p>Chair: Diogo Sobreira Fernandes (Porto, Portugal)</p> <hr/> <p>Myocardial infarction - epidemiology, patients at risk and optimization modalities Giovanna Lurati Buse (Düsseldorf, Germany)</p> <hr/> <p>Knowledge gaps in perioperative management of patients at risk Daniel Sessler* (Cleveland, United States)</p> <hr/> <p>Collaboration - a successful approach for managing these patients? Teodora Orhideea Nicolescu (Oklahoma City, United States)</p>				
L	13L1 Lecture	Saturday, 1 June 16:30 - 17:15	Challenges to establish real perioperative medicine	Piano Hall
<p>Chair: Idit Matot (Tel Aviv, Israel)</p> <hr/> <p>Speaker: Monty Mythen* (London, United Kingdom)</p>				
L	13L2 Lecture	Saturday, 1 June 16:30 - 17:15	Approaches to avoid and manage major cardiovascular events after surgery	Cello Hall
<p>Chair: Andreas Hoeft (Bonn, Germany)</p> <hr/> <p>Speaker: Philip J. Devereaux* (Hamilton, Canada)</p>				

S 13S2 Saturday, 1 June **Perioperative issues in liver disease** Schubert 5
Symposium 16:30 - 18:00
Symposium organised by the Liver Intensive Care Group of Europe (LICAGE)



Chair:

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)

L 13L3 Sunday, 2 June **(Hocus) POCUS: magic perioperative applications of ultrasound** Stolz
Lecture 09:15 - 10:00

Chair:

Gabriella Iohom (Cork, Ireland)

Speaker:

Rosemary Hogg (Belfast, United Kingdom)

S 13S3 Sunday, 2 June **Safer anaesthesia for the morbidly obese patient** Strauss 1
Symposium 10:30 - 12:00
Symposium organised by the European Society for Perioperative Care of the Obese Patient (ESPCOP)



Chair:

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

Airway issues in the morbidly obese

Daniela Godoroja (Bucharest, Romania)

Optimal ventilation in the morbidly obese

Jan Paul Mulier* (Bruges, Belgium)

Safer analgesia in morbidly obese

Michael Margaron (Chichester, United Kingdom)

S 13S4 Sunday, 2 June **Update for opioid saving in the perioperative period** Lehar 1
Symposium 14:00 - 15:00

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)

S 1355 Sunday, 2 June **Global safe surgery, obstetric and anaesthesia 2030** Strauss
Symposium 15:15 - 16:15 Symposium organised by the World Federation of Societies of Anaesthesiologists (WFSA) 2



Chair:

Davy Cheng (London, Canada)

Safe obstetric and neonatal resuscitation globally by 2030: the role of anaesthesia

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)

S 1356 Sunday, 2 June **Acute care and monitoring of high-risk surgical patients outside the OR and the ICU (2)** Schubert
Symposium 17:00 - 18:00 Symposium organised by the European Society for Computing and Technology in Anaesthesia and Intensive Care (ESCTAIC) 5



Chair:

Dan Sebastian Dirzu (Cluj-Napoca, Romania)

Gabriel Gurman (Omer, Israel)

Monitoring patients from decision to discharge: using informatics to enable Enhanced Recovery After Surgery protocols

Jonathan Wanderer (Nashville, United States)

Cardiac monitoring outside the OR and ICU

Bernardo Bollen Pinto (Geneva, Switzerland)

Paediatric clinical decision support systems: a review of the evidence and a view toward the future

Allan Simpao (Philadelphia, United States)

S 1357 Monday, 3 June **A U.S. perspective on subspecialty best practices and latest guidelines** Violin
Symposium 08:30 - 09:30 Symposium organised by the American Society of Anesthesiologists (ASA) Hall



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)

S	13S8 Symposium	Monday, 3 June 14:00 - 15:00	New vistas on overcoming failure to rescue	Violin Hall
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Chair:

Johannes Wacker (Zürich, Switzerland)

Understanding failure to rescue

Maria Wittmann (Bonn, Germany)

Using wireless monitoring for early detection of postoperative complications (SHEPHERD trial)

Benedikt Preckel* (Amsterdam, Netherlands)

Postoperative visit and monitoring - lessons learned from TRACE and PRODIGY

Wolfgang Buhre* (Maastricht, Netherlands)

L	13L4 Lecture	Monday, 3 June 15:30 - 16:15	Postoperative opioid induced respiratory depression, is it really a problem? Results of PRODIGY and beyond	Flute Hall
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Late-Breaking Session

Chair:

Daniela Ionescu* (Cluj-Napoca, Romania)

Speaker

Wolfgang Buhre* (Maastricht, Netherlands)

PATIENT SAFETY
Learning Track 14



S	14S1 Symposium	Saturday, 1 June 11:00 - 12:00	Interpersonal risks and our estimations: do we understand it?	Schubert 5
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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)

S	14S2 Symposium	Saturday, 1 June 14:00 - 15:00	From cell phones to noisy rooms – Can distractions in the OR harm your patients	Violin Hall
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Chair:

Matthew Weinger (Nashville, United States)

Understanding distractions and interruptions in anaesthesia care

Tobias Grundgeiger (Würzburg, Germany)

OR distractions and their effects on vigilance, workload, and non-routine events

Jason Slagle (Nashville, United States)

Critical phase distractions in anaesthesia and the sterile cockpit concept

Malcolm Broom (Glasgow, United Kingdom)

APSF's Recommendations for OR Distraction Management

Matthew Weinger (Nashville, United States)

L	14L1 Lecture	Saturday, 1 June 15:15 - 16:00	The patient's view on perioperative patient safety	Agora
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Chair:

Daniel Arnal* (Alcorcon, Spain)

Speaker:

Coby Omvlee (Trondheim, Norway)

RC	14RC1 Refresher Course	Saturday, 1 June 16:30 - 17:15	How anaesthesiologists can contribute to avoid perioperative infections	Lehar 1
<p>Chair: Hartmut Bürkle (Freiburg, Germany)</p> <p>Speaker: Sebastian Schulz Stübner* (Freiburg, Germany)</p>				
S	14S3 Symposium	Sunday, 2 June 10:30 - 12:00	Realising the Helsinki Declaration on Patient Safety in Anaesthesiology (HD) - Six practices that improve perioperative patient safety	Stolz
<p>Chair: Andrew Fairley Smith* (Lancaster, United Kingdom)</p> <p>Safety requirements that should be prioritised in order to improve patient outcomes Jannicke Mellin-Olsen (Haslum, Norway)</p> <p>Practical use of cognitive aids - Live the difference Benedikt Preckel* (Amsterdam, Netherlands)</p> <p>Postoperative care - Key for improving perioperative patient safety Johannes Wacker (Zürich, Switzerland)</p> <p>How quality indicators can help to improve local patient outcomes Martin Ponschab (Linz, Austria)</p> <p>How taking care of second victims can help avoiding first victims Sven E. A. Staender (Maennedorf, Switzerland)</p> <p>Departmental annual patient safety report - Administrative nuisance or effective patient safety tool? David Whitaker (Manchester, United Kingdom)</p>				
L	14L2 Lecture	Monday, 3 June 08:30 - 09:15	Patient safety in European anaesthesiology and the impact of the Helsinki Declaration	Schubert 5
<p>Chair: Johannes Wacker (Zürich, Switzerland)</p> <p>Speaker: Andrew Fairley Smith* (Lancaster, United Kingdom)</p>				
S	14S4 Symposium	Monday, 3 June 15:30 - 16:30	Detecting and eliminating medication errors	Strauss 1
<p>Chair: Johannes Wacker (Zürich, Switzerland)</p> <p>Medication without harm - WHO's third global patient safety challenge TBA</p> <p>Medication errors - Lessons learnt from the SENSAR incident database Daniel Arnal* (Alcorcon, Spain)</p> <p>From labelling to prefilled syringes and beyond - Medication safety in anaesthesiology David Whitaker (Manchester, United Kingdom)</p>				

GERIATRIC ANAESTHESIOLOGY

Learning Track 15



S	15S1 Symposium	Saturday, 1 June 11:00 - 12:00	Cognitive function in the older surgical patient	Strauss 1
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Chair:

Concezione Tommasino (Milano, Italy)

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)

S	15S2 Symposium	Saturday, 1 June 14:00 - 15:00	Anaesthesia in the elderly – REGAINing HOPE	Piano Hall
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Chair:

Idit Matot (Tel Aviv, Israel)

Preoperative evaluation of the elderly patient

Idit Matot (Tel Aviv, Israel)

Mode of anaesthesia for patients undergoing hip fracture

Mark Coburn (Aachen, Germany)

Intraoperative management of the elderly patient

Ciara O'Donnell (Belfast, United Kingdom)

RC	15RC1 Refresher Course	Sunday, 2 June 09:15 - 10:00	Postoperative stroke: an update	Strauss 1
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Chair:

Concezione Tommasino (Milano, Italy)

Speaker:

Idit Matot (Tel Aviv, Israel)

S	15S3 Symposium	Sunday, 2 June 14:00 - 15:00	Preventing complications in the elderly	Strauss 2
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Chair:

Ulf Guenther* (Oldenburg, Germany)

Should this elderly patient be admitted to the intensive care unit (ICU)?

Dylan de Lange (Utrecht, Netherlands)

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)

EDUCATION
Learning Track 16



L 16L1 Saturday, 1 June **How do we translate expanded knowledge into successful practice and patient satisfaction?** Schubert 5
Lecture 15:15 - 16:00

Chair:

Kim Lindelof (Malmö, Sweden)

Speaker:

Teodora Orhideea Nicolescu (Oklahoma City, United States)

S 16S1 Saturday, 1 June **Safer anaesthesia with good teamwork in the operating theatre** Agora
Symposium 16:30 - 18:00
Symposium organised by the ESA in collaboration with 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)

S 16S2 Sunday, 2 June **ESA Trainee Network Booth Session: ESA Trainees Committee and National Trainee Sections** Trainee Booth
Symposium 09:00 - 10:00
Symposium organised by the Trainee Committee

Chair:

Anne Blank (Berlin, Germany)

Gustavo Norte (Coimbra, Portugal)

Creating a new Trainee Section: the Belgian experience

Shaun De Meirman (Leuven, Belgium)

JUNGE Anaesthesia – Austrian Trainee Network

Steve Muller (Villach, Austria)

From 1988 until today: the ASA Resident Component Experience

TBA

S	16S3 Symposium	Sunday, 2 June 10:30 - 12:00	PERSEUS guidelines	Violin Hall
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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)

S	16S4 Symposium	Sunday, 2 June 11:00 - 12:00	ESA Trainee Network: "Trainees for Trainees" Symposium organised by the ESA Trainees Committee	Agora
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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)

S	16S5 Symposium	Sunday, 2 June 14:00 - 15:00	Medical ethical dilemmas: more than a burden?	Stolz
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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)

S	16S6 Symposium	Monday, 3 June 08:30 - 09:30	Teaching the future specialists in anaesthesiology Symposium organised by the National Anaesthesiologists Societies Committee (NASC)	Strauss 2
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Chair:

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)

S	16S7 Symposium	Monday, 3 June 14:00 - 15:00	Implications of the updated European Training Requirement (ETR) Symposium organised by the European Board of Anaesthesiology (EBA)	Agora
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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)

S	16S8 Symposium	Monday, 3 June 15:30 - 16:30	Education in the future...	Lehar 1
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Chair:

Leila Niemi-Murola (Helsinki, Finland)

Which competencies do anaesthesists and their team members need in 2025?

Anu Kajamaa (Helsinki, Finland)

Artificial Intelligence: what are the possibilities and how can it support us?

Markus Leskinen (Helsinki, Finland)

Adaptive learning: a skill of the anaesthesiologist 2.0?

Claus Bierman (Copenhagen, Denmark)

ESA SESSIONS

ESA

L	ESAL1 Lecture	Saturday, 1 June 09:45 - 10:30	Sir Robert Macintosh Lecture	Piano Hall
<p>Chair: Stefan De Hert (Gent, Belgium)</p> <hr/> <p>Anaesthesiology: a "lifestyle" profession Paolo Pelosi (Genoa, Italy)</p> <hr/>				
S	ESAS1 Symposium	Saturday, 1 June 11:00 - 12:30	Meet the Editors-in-Chief Symposium organised by the European Journal of Anaesthesiology (EJA)	Lehar 1
<p>EJA</p> <p>Chair: Martin Tramèr (Geneva, Switzerland)</p> <hr/> <p>Preprints in clinical medicine: merits and demerits (Anesthesiology) Evan Kharasch (St. Louis, United States) - Anesthesiology</p> <hr/> <p>Impressions from today's world of systematic reviews and meta-analyses (Acta Anaesthesiologica Scandinavica) Michael Haney (Umeå, Sweden)</p> <hr/> <p>Title to be announced (Canadian Journal of Anesthesia) Hilary P. Grocott (Winnipeg, Canada)</p> <hr/> <p>Plan-S: implications for authors, journals and societies (Anaesthesia and Intensive Care) John Loadman (Camperdown, Australia)</p> <hr/> <p>What is the value of publishing Case Reports in the current era? (Anaesthesia) Kariem El-Boghdadly* (London, United Kingdom)</p> <hr/>				

S ESAS2 Symposium Saturday, 1 June 11:00 - 12:00 **Be the person others want to follow: ESA insights into leadership and gender (in)equality** Agora

Chair:

Thea Koch (Dresden, Germany)
Wolfgang Buhre* (Maastricht, Netherlands)

ESA survey on gender and leadership

Idit Matot (Tel Aviv, Israel)

Dean perspective

J. Robert Sneyd* (Plymouth, United Kingdom)

Trainee perspective – the Y generation

Anne Blank (Berlin, Germany)

Panel Discussion

S ESAS3 Symposium Saturday, 1 June 14:00 - 15:00 **The anaesthesiologist as a second victim of an adverse event** Agora

Chair:

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)

Prevention is better than Disaster: a Maltese experience within obstetric anaesthesia

Petramay Attard Cortis (L-Imsida, Malta)

Second victim: causes and consequences

Hervé Bouaziz (Nancy, France)

D ESAD1 Pro & Con Debate Saturday, 1 June 17:30 - 18:30 **Guidelines: Pro-Con** Strauss 2
Session organised by the ESA Guidelines Committee

Chair:

Sibylle Kietaibl (Vienna, Austria)

Pro

Edoardo De Robertis* (Perugia, Italy)

Con

Arash Afshari (Copenhagen, Denmark)

S	ESAS4 Symposium	Sunday, 2 June 08:00 - 09:00	This will be the next big thing in ... (10 minutes to convince) Symposium organised by the National Organising Committee (NOC)	Flute Hall
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Chair:

Judith Martini (Innsbruck, Austria)
Anette-Marie Schultz (Vienna, Austria)

...pain medicine!

Burkhard Gustorff (Vienna, Austria)

...emergency medicine!

Harald Willschke (Vienna, Austria)

...the operating room!

Oliver Kimberger (Vienna, Austria)

...critical care!

Paul Zajic (Graz, Austria)

PC	YTRA Prize Competition	Sunday, 2 June 08:15 - 10:45	Young Teaching Recognition Award	Agora
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Chair:

Serban-Ion Bubenek-Turconi (Bucharest, Romania)
Andreas Sandner-Kiesling (Graz, Austria)
Bernardo Matias (Setubal, Portugal)

PC	BAPC Prize Competition	Sunday, 2 June 14:00 - 16:00	Best Abstract Prize Competition	Agora
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Chair:

Charles Marc Samama (Paris, France)
Esther M. Pogatzki-Zahn* (Münster, Germany)
Alexander Zarbock* (Münster, Germany)

Dexmedetomidine increases expression of peroxisome proliferator-activated receptor gamma (PPAR-gamma) in LPS-stimulated mouse macrophage-like cells

Maki Fujimoto (Okayama, Japan)

Remote ischemic preconditioning attenuates lipopolysaccharide induced systemic inflammation through suppressing MAPK/AKT/NF-kB/COX-2 pathway, regardless of RIPC applied time

Eun-Ji Ko (Seoul, South Korea)

Splenectomy and Infliximab Ameliorate Hepatic Ischemia Reperfusion Injury in Rats

Eun Kyung Choe (Daegu, South Korea)

In vivo performance of a membrane CO2 scrubber during target controlled closed-circuit anesthesia

Sarah Eerlings (Aalst, Belgium)

Comparison of distribution patterns among three approaches for quadratus lumborum block: an imaging study by 3D-CT scanning

Gert-Jan Eerdeken (Genk, Belgium)

Lidocaine levels when used intravenously or in thoracic paravertebral space during lung resection surgery.

Juan Pedro De Miguel Fernández-Miranda (Madrid, Spain)

S	ESAS5 Symposium	Sunday, 2 June 14:00 - 15:00	<p>Diversity and anaesthesia: is there a gender problem?</p> <p>Chair: Maria Cristina Honorato (Pamplona, Spain) Stefan De Hert (Gent, Belgium)</p> <hr/> <p>The situation in Europe: call for action Daniela Filipescu (Bucharest, Romania)</p> <hr/> <p>The situation in the U.S.: ASA perspective and approach Elizabeth Rebello* (Houston, United States)</p> <hr/> <p>Academic medicine and gender: insight from experience Julian Eastoe (Bristol, United Kingdom)</p>	Cello Hall
S	ESAS6 Symposium	Sunday, 2 June 14:00 - 15:00	<p>ESA Trainee Network Booth Session: Hot topics by past YTRA winners</p> <p>Session organised by the ESA Trainee Committee</p> <p>Chair: Diogo Sobreira Fernandes (Porto, Portugal)</p> <hr/> <p>Diaphragm-protective ventilation Tom Schepens (Edegem, Belgium)</p> <hr/> <p>A way forward in pulmonary aspiration incidence reduction: ultrasound, mathematics, and worldwide data collection Marko Zdravkovic (Maribor, Slovenia)</p> <hr/> <p>Trauma - Goal Directed Treatment based on ROTEM Igor Vaskovic (Belgrade, Serbia)</p>	Trainee Booth
S	ESAS7 Symposium	Sunday, 2 June 17:00 - 18:00	<p>History of anaesthesia</p> <p>Chair: Alistair McKenzie (Edinburgh, United Kingdom)</p> <hr/> <p>Austrian contributions to anaesthesia Franz X. Lackner (Vienna, Austria)</p> <hr/> <p>Influence of the Vienna/Austrian School on British and American practice Alistair McKenzie (Edinburgh, United Kingdom)</p> <hr/> <p>Pain therapy and acupuncture in Austria Anna Spacek (Vienna, Austria)</p>	Stolz

S ESAS8 Symposium Monday, 3 June 08:30 - 09:30 **ESA Clinical Trials Network (CTN): Research in action** Agora
Symposium organised by the ESA Research Committee



Chair:

Thomas Fuchs-Buder* (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)

L ESAL2 Lecture Monday, 3 June 09:45 - 10:30 **New developments in Asian anaesthesia** Flute Hall
Session organised by the Japanese Society of Anesthesiologists (JSA) and the Korean Society of Anesthesiologists (KSA)



Anesthetic management and the role of anesthesiologists for intraoperative monitoring of motor evoked potentials

Masahiko Kawaguchi (Nara, Japan)

Postoperative pain control modalities for living liver donors

Justin Ko (Seoul, South Korea)

S ESAS10 Symposium Monday, 3 June 11:00 - 12:00 **Residual complications and pulmonary complications: the POPULAR study** Agora
Symposium organised by the ESA Research Committee



Chair:

Thomas Fuchs-Buder* (Nancy, France)

The POPULAR results


Manfred Blobner* (Munich, Germany)

Neuromuscular management after POPULAR: did we do wrong in the past?

Thomas Fuchs-Buder* (Nancy, France)

Clinical consequences of POPULAR study for daily practice

Hans Donald De Boer* (Groningen, Netherlands)

S	ESAS9 Symposium	Monday, 3 June 11:00 - 12:00	Sustainability: not only in the operating room!	Cello Hall
<p>Chair: Sinikka Münte (Helsinki, Finland) Pierre Albaladejo* (Grenoble, France)</p> <hr/> <p>Fostering low carbon healthcare Herwig Gerlach (Berlin, Germany)</p> <hr/> <p>Sustainability initiatives in the United Kingdom and at the Royal College of Anaesthetists J. M. Tom Pierce (Southampton, United Kingdom)</p> <hr/> <p>Fast-tracking as an opportunity for greening! Helene Beloeil (Rennes, France)</p>				
S	ESAS11 Symposium	Monday, 3 June 14:00 - 15:00	ESA support to researchers: the ESA grants Symposium organised by the ESA Research Committee	Schubert 5
 <p>Chair: Thomas Fuchs-Buder* (Nancy, France)</p> <hr/> <p>Presentation of the new BJA-ESA Grant Donal J. Buggy (Dublin, Ireland)</p> <hr/> <p>CTN Grants proposed by ESA - Update on the studies currently recruiting centres Giovanna Lurati Buse (Düsseldorf, Germany)</p> <hr/> <p>Research support for young members: ESA Young Investigator Grant and masterclasses Isabelle Decosterd (Lausanne, Switzerland)</p>				
S	ESAS12 Symposium	Monday, 3 June 15:30 - 16:30	Newest ESA guidelines presentation Symposium organised by the ESA Guidelines Committee	Strauss 2
<p>Chair: Arash Afshari (Copenhagen, Denmark)</p> <hr/> <p>Guidelines on ultrasound-guided vascular access and regional blocks Massimo Lamperti (Abu Dhabi, United Arab Emirates)</p> <hr/> <p>Guidelines on non-invasive respiratory support for hypoxemic patient Marc Leone* (Marseille, France)</p>				

S	ESAS13 Symposium	Monday, 3 June 15:30 - 16:30	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)	Violin Hall
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Chair:

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

National socialism and the consequences for the Viennese medical community

Markus Müller (Vienna, Austria)

Viennese Medical Scientists pertaining to Anaesthesia affected by the "Anschluss" 1938

Franz X. Lackner (Vienna, Austria)

Anaesthesia under national socialism

Michael Goerig (Hamburg, Germany)
