

**Wednesday 7 November 2018 - AM**

**ROOM : Foyer - Theatre**

**Opening Session** [Standard presentation]

**Moderator** : René Heylen (Genk, Belgium)

**Moderator** : Andrew I Maas (Edegem , Belgium)

9:00 - 9:10 - Welcome to Euro Neuro 2018

Fabio S Taccone (Brussels , Belgium)

9:10 - 9:20 - The 10th Anniversary of Euro Neuro

Cathy De Deyne (Genk , Belgium)

9:20 - 9:45 - The danger of guidelines for the management of TBI

Nino Stocchetti (Milan , Italy)

9:45 - 10:10 - Peri-operative neuroprotection: a broken dream?

Pedro Amorim (Porto , Portugal)

10:10 - 10:30 - Is hypothermia really neuroprotective?

Michael Holzer (Vienna, Austria)

**Break** [Break]

10:30 - 11:00 - Break

**Clinical management of TBI** [Standard presentation]

**Moderator** : Nino Stocchetti (Milan , Italy)

**Moderator** : Mauro Oddo (Lausanne , Switzerland)

11:00 - 11:20 - Optimizing brain oxygenation

Raimund Helbok (Innsbruck, Austria)

11:20 - 11:40 - Lactate and the injured brain

Pierre Bouzat (La Tronche, France)

11:40 - 12:00 - Novel interventions to modulate the host response

David Menon (Cambridge , United Kingdom)

12:00 - 12:20 - New approaches to generate evidence

Andrew I Maas (Edegem , Belgium)

12:20 - 12:30 - Discussion

**Wednesday 7 November 2018 - PM**

**ROOM : Foyer - Theatre**

**Management of Ischemic Stroke** [Standard presentation]

**Moderator :** Ricard Valero (Barcelona, Spain)

**Moderator :** Francisco Lobo (Porto, Portugal)

14:00 - 14:20 - Thrombolysis and thrombectomy in 2018

Thomas Bonnet (Brussels, Belgium)

14:20 - 14:40 - Anesthetic management

Pedro Amorim (Porto , Portugal)

14:40 - 15:00 - When to go for decompressive craniectomy?

Andrew I Maas (Edegem , Belgium)

15:00 - 15:20 - How to manage dysphagia

Giuseppe Citerio (Monza, Italy)

15:20 - 15:30 - Discussion

**Break** [Break]

15:30 - 16:00 - Break

**Post-cardiac Arrest Management** [Standard presentation]

**Moderator :** Mauro Oddo (Lausanne , Switzerland)

**Moderator :** Cathy De Deyne (Genk , Belgium)

16:00 - 16:20 - How I use TTM

Michael Holzer (Vienna, Austria)

16:20 - 16:40 - Ventilatory management

Mauro Oddo (Lausanne , Switzerland)

16:40 - 17:00 - Hemodynamic management

Koen Ameloot (Leuven, Belgium)

17:00 - 17:20 - Neuroprognostication

Nicolas Gaspard (Brussels, Belgium)

17:20 - 17:30 - Discussion

**Wednesday 7 November 2018 - AM**

**ROOM : Esterel**

**Non-invasive Neuromonitoring in the OR** [Standard presentation]

**Moderator :** Federico Bilotta (Rome, Italy)

**Moderator :** Nicolas Bruder (Marseille Cedex 05 , France)

11:00 - 11:20 - Brain oximetry

Rafaël Badenes (Valencia, Spain)

11:20 - 11:40 - Electroencephalography

Nicolas Gaspard (Brussels, Belgium)

11:40 - 12:00 - Cerebral autoregulation

Veerle De Sloovere (Genk , Belgium)

12:00 - 12:20 - Evoked potentials

Pierre Pandin (Brussels , Belgium)

12:20 - 12:30 - Discussion

**Wednesday 7 November 2018 - PM**

**ROOM : Esterel**

**Controversies in Neuroanesthesia** [Standard presentation]

**Moderator :** Pierre Pandin (Brussels , Belgium)

**Moderator :** Ward Eertmans (Genk, Belgium)

14:00 - 14:20 - Brain effects of anesthesia: is ketamine the black sheep?

Vincent Bonhomme (Liège, Belgium)

14:20 - 14:40 - Neuroanesthesia in patients with elevated ICP

Bernard Vigué (Le Kremlin-Bicêtre, France)

14:40 - 15:00 - Brain aging and anesthesia

Pierre Pandin (Brussels , Belgium)

15:00 - 15:20 - Neurotoxicity of anesthetics in children

Kristin Engelhard (Mainz, Germany)

15:20 - 15:30 - Discussion

**Break** [Break]

15:30 - 16:00 - Break

**Delirium** [Standard presentation]

**Moderator :** Rafael De Jongh (Genk , Belgium)

**Moderator :** Dieter Mesotten (Genk, Belgium)

16:00 - 16:20 - Post-operative delirium

Federico Bilotta (Rome, Italy)

16:20 - 16:40 - The role of brain monitoring

Francisco Lobo (Porto, Portugal)

16:40 - 17:00 - Should I use antipsychotics?

Kirsten Colpaert (Ghent, Belgium)

17:00 - 17:20 - Long-term cognitive dysfunction

Dieter Mesotten (Genk, Belgium)

17:20 - 17:30 - Discussion

**Wednesday 7 November 2018 - AM**

**ROOM : Versailles**

**Clinical Practice in Neurological Patients** [Standard presentation]

**Moderator :** Lionel Velly (Marseille , France)

**Moderator :** Kirsten Colpaert (Ghent, Belgium)

11:00 - 11:20 - How do I manage status epilepticus?

Gretchen M Brophy (Richmond, United States)

11:20 - 11:40 - How do I give dexmedetomidine?

Antony Absalom (Groningen, Netherlands)

11:40 - 12:00 - Why does the patient not wake up after anesthesia?

Chiara Robba (Genova, Italy)

12:00 - 12:20 - How do I use transcranial Doppler in TBI patients

Bernard Vigué (Le Kremlin-Bicêtre, France)

12:20 - 12:30 - Discussion

**Wednesday 7 November 2018 - PM**

**ROOM : Versailles**

**Non-invasive Neuromonitoring in the ICU** [Standard presentation]

**Moderator :** Nicolas Gaspard (Brussels, Belgium)

**Moderator :** Geert Meyfroidt (Leuven , Belgium)

14:00 - 14:20 - qEEG by neurointensivists

Giuseppe Citerio (Monza, Italy)

14:20 - 14:40 - Automated pupillometry

Lionel Velly (Marseille , France)

14:40 - 15:00 - Optic nerve ultrasound

Chiara Robba (Genova, Italy)

15:00 - 15:20 - Brain oximetry

Basil Matta (Cambridge, United Kingdom)

15:20 - 15:30 - Discussion

**Break** [Break]

15:30 - 16:00 - Break

**Best Abstracts Session - Neurocritical Care** [Standard presentation]

**Moderator :** Vincent Bonhomme (Liège, Belgium)

**Moderator :** Raimund Helbok (Innsbruck, Austria)

16:00 - 16:10 - Quantitative pupillometry for the monitoring of intracranial hypertension in patients with severe TBI - Fritz-Patrick Jahns

16:15 - 16:25 - Real-time visualization of the dose of ICP and cerebral autoregulation in TBI patients - Marine Flechet

16:30 - 16:40 - DCI is associated with impaired brain temperature regulation after aneurysmal SAH - Alberto Addis

16:45 - 16:55 - Veno-arterial CO<sub>2</sub> gap and RQ during the first 24 hours after cardiac arrest: An observational cohort study - Antonio Dell'Anna

17:00 - 17:10 - Are pulmonary complications still a problem after SAH? A single centre experience -Carolina Iaquianiello

17:15 - 17:25 - Reliability of venous jugular oxygen saturation in severe TBI patients : an Ox-15 PET study - Yoann Launey

**Thursday 8 November 2018 - AM**

**ROOM : Foyer - Theatre**

**Facing the Emergency** [Standard presentation]

**Moderator :** Pierre Bouzat (La Tronche, France)

**Moderator :** Mauro Oddo (Lausanne , Switzerland)

9:00 - 9:20 - Intracranial hypertension

Mathieu van der Jagt (Rotterdam, Netherlands)

9:20 - 9:40 - Refractory status epilepticus

Nicolas Gaspard (Brussels, Belgium)

9:40 - 10:00 - Bacterial meningitis

Raimund Helbok (Innsbruck, Austria)

10:00 - 10:20 - Traumatic hemorrhagic shock

Jean-François Payen (Grenoble , France)

10:20 - 10:30 - Discussion

**Break** [Break]

10:30 - 11:00 - Break

**Traumatic Brain Injury** [Standard presentation]

**Moderator :** Jean-François Payen (Grenoble , France)

**Moderator :** Nino Stocchetti (Milan , Italy)

11:00 - 11:20 - CENTER-TBI Project

Andrew I Maas (Edegem , Belgium)

11:20 - 11:40 - Initial management

Pierre Bouzat (La Tronche, France)

11:40 - 12:00 - Targeted management in the ICU

Giuseppe Citerio (Monza, Italy)

12:00 - 12:20 - Decompressive craniectomy

Angelos Kolias (Cambridge , United Kingdom)

12:20 - 12:30 - Discussion

**Thursday 8 November 2018 - PM**

**ROOM : Foyer - Theatre**

**State of the Art** [Standard presentation]

**Moderator :** Basil Matta (Cambridge, United Kingdom)

14:00 - 14:20 - Evolution of neuroradiology for cerebral aneurysms

Thomas Bonnet (Brussels, Belgium)

14:20 - 14:40 - Sedation in neuro-critical care

Rafaël Badenes (Valencia, Spain)

14:40 - 15:00 - Brain-body cross-talk

Markus Klimek (Rotterdam, Netherlands)

15:00 - 15:20 - Seizure management in 2018

Nicolas Gaspard (Brussels, Belgium)

15:20 - 15:30 - Discussion

**Break** [Break]

15:30 - 16:00 - Break

**Challenges in TBI** [Standard presentation]

**Moderator :** Angelos Koliass (Cambridge , United Kingdom)

**Moderator :** Pedro Kurtz (Rio De Janeiro , Brazil)

16:00 - 16:20 - Anemia and transfusions: where do we stand?

Fabio S Taccone (Brussels , Belgium)

16:20 - 16:40 - Biomarkers in TBI: are they useful?

Gretchen M Brophy (Richmond, United States)

16:40 - 17:00 - Hypertonic lactate solution: when and how?

Jean-François Payen (Grenoble , France)

17:00 - 17:20 - Glucose Management

Pedro Kurtz (Rio De Janeiro , Brazil)

17:20 - 17:30 - Discussion



**Thursday 8 November 2018 - AM**

**ROOM : Esterel**

**Neurophysiology during Anesthesia** [Standard presentation]

**Moderator :** Pierre Pandin (Brussels , Belgium)

**Moderator :** Federico Bilotta (Rome, Italy)

9:00 - 9:20 - Should I assess cerebral autoregulation?

Cathy De Deyne (Genk , Belgium)

9:20 - 9:40 - The role of brain oximetry

Basil Matta (Cambridge, United Kingdom)

9:40 - 10:00 - Electroencephalography

Seun Akeju (Boston, United States)

10:00 - 10:20 - Consciousness states during anesthesia

Pedro Amorim (Porto , Portugal)

10:20 - 10:30 - Discussion

**Break** [Break]

10:30 - 11:00 - Break

**Pearls in Neurosurgery** [Standard presentation]

**Moderator :** Rafaël Badenes (Valencia, Spain)

**Moderator :** Antony Absalom (Groningen, Netherlands)

11:00 - 11:20 - Skull reconstructive techniques

Michael Bruneau (Brussels, Belgium)

11:20 - 11:40 - Perioperative management during transphenoidal hypophysectomy

Nicolas Bruder (Marseille Cedex 05 , France)

11:40 - 12:00 - Awake craniotomy for tumor resection

Markus Klimek (Rotterdam, Netherlands)

12:00 - 12:20 - Postoperative management

Federico Bilotta (Rome, Italy)

12:20 - 12:30 - Discussion

**Thursday 8 November 2018 - PM**

**ROOM : Esterel**

**Monitoring and therapy in the OR** [Standard presentation]

**Moderator :** Ricard Valero (Barcelona, Spain)

**Moderator :** Kristin Engelhard (Mainz, Germany)

14:00 - 14:20 - Physiologic variables for monitoring sedation in the ICU

Nicolas Bruder (Marseille Cedex 05 , France)

14:20 - 14:40 - Targeting the autonomic nervous system for nociception monitoring

Vincent Bonhomme (Liège, Belgium)

14:40 - 15:00 - How to assess pain in comatose patients?

Jean-François Payen (Grenoble , France)

15:00 - 15:20 - Is there still a place for hypothermia in the OR?

Chiara Robba (Genova, Italy)

15:20 - 15:30 - Discussion

**Break** [Break]

15:30 - 16:00 - Break

**Manipulating Cerebral Perfusion** [Standard presentation]

**Moderator :** Veerle De Sloovere (Genk , Belgium)

**Moderator :** Basil Matta (Cambridge, United Kingdom)

16:00 - 16:20 - Regulation of cerebral blood flow

Geert Meyfroidt (Leuven , Belgium)

16:20 - 16:40 - Assessment of cerebral autoregulation

Chiara Robba (Genova, Italy)

16:40 - 17:00 - Cerebral hemodynamics during surgery in the sitting position

Kristin Engelhard (Mainz, Germany)

17:00 - 17:20 - How to individualize perfusion pressure in TBI patients

Bernard Vigué (Le Kremlin-Bicêtre, France)

17:20 - 17:30 - Discussion

**Thursday 8 November 2018 - AM**

**ROOM : Versailles**

**From the OR to the ICU** [Standard presentation]

**Moderator :** David Menon (Cambridge , United Kingdom)

**Moderator :** Lionel Velly (Marseille , France)

9:00 - 9:20 - My favourite approach is TIVA

Francisco Lobo (Porto, Portugal)

9:20 - 9:40 - My favourite approach is inhaled anesthesia

Antony Absalom (Groningen, Netherlands)

9:40 - 10:00 - Neurological complications after cardiac surgery

Cathy De Deyne (Genk , Belgium)

10:00 - 10:20 - ICU-acquired weakness

Dieter Mesotten (Genk, Belgium)

10:20 - 10:30 - Discussion

**Break** [Break]

10:30 - 11:00 - Break

**Neuroscience** [Standard presentation]

**Moderator :** Nicolas Gaspard (Brussels, Belgium)

**Moderator :** Pedro Amorim (Porto , Portugal)

11:00 - 11:20 - Pathophysiology of CNS arousal

David Menon (Cambridge , United Kingdom)

11:20 - 11:40 - The unconscious brain - insights from ether anesthesia

Seun Akeju (Boston, United States)

11:40 - 12:00 - Paroxysmal sympathetic hyperactivity

Geert Meyfroidt (Leuven , Belgium)

12:00 - 12:20 - Intermittent metabolic switching for brain recovery

Mauro Oddo (Lausanne , Switzerland)

12:20 - 12:30 - Discussion

**Thursday 8 November 2018 - PM**

**ROOM : Versailles**

**Neuroprotection** [Standard presentation]

**Moderator :** Mauro Oddo (Lausanne , Switzerland)

**Moderator :** Michael Holzer (Vienna, Austria)

14:00 - 14:20 - Any role for barbiturates?

Raimund Helbok (Innsbruck, Austria)

14:20 - 14:40 - In neuroanesthesia

Federico Bilotta (Rome, Italy)

14:40 - 15:00 - After cardiac arrest

Michael Holzer (Vienna, Austria)

15:00 - 15:20 - Maintaining homeostasis is the best option

Nino Stocchetti (Milan , Italy)

15:20 - 15:30 - Discussion

**Break** [Break]

15:30 - 16:00 - Break

**Best Abstracts Session - Neuroanesthesia** [Standard presentation]

**Moderator :** Rafi Avitsian (Cleveland, United States)

**Moderator :** Seun Akeju (Boston, United States)

16:00 - 16:10 - NIRS-based intraoperative patient management during spinal neurosurgery in prone position and postoperative cognitive disturbance - Sniedze Murniece

16:15 - 16:25 - Changes in thromboelastometry in patients undergoing epilepsy surgery - Siddarth Chavali

16:30 - 16:40 - Endovascular thrombectomy performed under anesthesia: a single-center experience in Singapore - Wen Hao Low

16:45 - 16:55 - Cerebral tissue oxygen desaturation in the postoperative period increases the risk to develop post-operative delirium in elderly patients undergoing cardiac surgery - Eertmans Ward

17:00 - 17:10 - Hemodynamic modification and EEG monitoring during carotid surgery: a review of the hemodynamics and the neurological perioperative complications in 275 consecutive cases. -Thomas Mirland

17:15 - 17:25 - Anesthesia during positive-pressure computed tomography myelogram: a new role for cerebral oximetry - Sebastian Gatica

**Friday 9 November 2018 - AM**

**ROOM : Foyer - Theatre**

**Subarachnoid Hemorrhage** [Standard presentation]

**Moderator :** Fabio S Taccone (Brussels , Belgium)

**Moderator :** Rafael De Jongh (Genk , Belgium)

9:00 - 9:20 - Hemodynamic management

Nicolas Bruder (Marseille Cedex 05 , France)

9:20 - 9:40 - Endocrine dysfunction

Jean-François Payen (Grenoble , France)

9:40 - 10:00 - What is the impact of polyuria?

Kirsten Colpaert (Ghent, Belgium)

10:00 - 10:20 - How do I treat DCI?

Pedro Kurtz (Rio De Janeiro , Brazil)

10:20 - 10:30 - Discussion

**Break** [Break]

10:30 - 11:00 - Break

**Controversies in Neurocritical Care** [Standard presentation]

**Moderator :** Giuseppe Citerio (Monza, Italy)

**Moderator :** Kirsten Colpaert (Ghent, Belgium)

11:00 - 11:20 - Intracranial hypertension after TBI: when to treat?

David Menon (Cambridge , United Kingdom)

11:20 - 11:40 - Which is the best osmotherapy?

Mauro Oddo (Lausanne , Switzerland)

11:40 - 12:00 - Should we treat fever?

Raimund Helbok (Innsbruck, Austria)

12:00 - 12:20 - Decompressive craniectomy: is it useful?

Nino Stocchetti (Milan , Italy)

12:20 - 12:30 - Discussion

**Friday 9 November 2018 - PM**

**ROOM : Foyer - Theatre**

**Prognostication after Cardiac Arrest** [Standard presentation]

**Moderator :** Fabio S Taccone (Brussels , Belgium)

**Moderator :** Nicolas Gaspard (Brussels, Belgium)

14:00 - 14:20 - Does clinical examination help?

Nicolas Gaspard (Brussels, Belgium)

14:20 - 14:40 - The role of electrophysiology

Pedro Kurtz (Rio De Janeiro , Brazil)

14:40 - 15:00 - Brain imaging can help

Lionel Velly (Marseille , France)

15:00 - 15:20 - ERC-ESICM guidelines are wrong

Mauro Oddo (Lausanne , Switzerland)

15:20 - 15:30 - Discussion

**Friday 9 November 2018 - AM**

**ROOM : Esterel**

**Organ Donation** [Standard presentation]

**Moderator :** Giuseppe Citerio (Monza, Italy)

**Moderator :** Veerle De Sloovere (Genk , Belgium)

9:00 - 9:20 - Pathophysiology of brain death

Mathieu van der Jagt (Rotterdam, Netherlands)

9:20 - 9:40 - How to diagnose brain death?

Ricard Valero (Barcelona, Spain)

9:40 - 10:00 - Non-heart beating donor procedures

Jacques Creteur (Brussels , Belgium)

10:00 - 10:20 - The Spanish Model

Rafaël Badenes (Valencia, Spain)

10:20 - 10:30 - Discussion

**Break** [Break]

10:30 - 11:00 - Break

**Pearls in Neurocritical Care** [Standard presentation]

**Moderator :** Geert Meyfroidt (Leuven , Belgium)

**Moderator :** Lionel Velly (Marseille , France)

11:00 - 11:20 - Propofol infusion syndrome in neurointensive care

Geert Meyfroidt (Leuven , Belgium)

11:20 - 11:40 - Subdural hematomas in the elderly

Angelos Koliass (Cambridge , United Kingdom)

11:40 - 12:00 - Induced hypertension in SAH: still an option?

Mathieu van der Jagt (Rotterdam, Netherlands)

12:00 - 12:20 - Thromboprophylaxis after cerebral hemorrhage

Nicolas Bruder (Marseille Cedex 05 , France)

12:20 - 12:30 - Discussion

**Friday 9 November 2018 - PM**

**ROOM : Esterel**

**Practical Pearls** [Standard presentation]

**Moderator :** Gretchen M Brophy (Richmond, United States)

**Moderator :** Pierre Bouzat (La Tronche, France)

14:00 - 14:20 - How to manage glucose after brain injury

Dieter Mesotten (Genk, Belgium)

14:20 - 14:40 - Hyponatremia: how to treat it?

Bernard Vigué (Le Kremlin-Bicêtre, France)

14:40 - 15:00 - Anticoagulant reversal in ICH and neurotrauma

Gretchen M Brophy (Richmond, United States)

15:00 - 15:20 - Massive transfusion after trauma

Pierre Bouzat (La Tronche, France)

15:20 - 15:30 - Discussion



**Friday 9 November 2018 - AM**

**ROOM : Versailles**

**Neurosurgery and Neuroanesthesia** [Standard presentation]

**Moderator :** Bernard Vigué (Le Kremlin-Bicêtre, France)

**Moderator :** Rafi Avitsian (Cleveland, United States)

9:00 - 9:20 - Tailored pre-operative evaluation

Federico Bilotta (Rome, Italy)

9:20 - 9:40 - Intraoperative imaging techniques for aneurysm clipping

Michael Bruneau (Brussels, Belgium)

9:40 - 10:00 - Awake craniotomy: how to manage intraoperative complications?

Francisco Lobo (Porto, Portugal)

10:00 - 10:20 - The effects of frailty on neurosurgical procedures

Antony Absalom (Groningen, Netherlands)

10:20 - 10:30 - Discussion

**Break** [Break]

10:30 - 11:00 - Break

**Pearls in Neuroanesthesia** [Standard presentation]

**Moderator :** Francisco Lobo (Porto, Portugal)

**Moderator :** Nicolas Bruder (Marseille Cedex 05 , France)

11:00 - 11:20 - Anesthesia for functional neurosurgery

Francisco Lobo (Porto, Portugal)

11:20 - 11:40 - Neurosurgical massive bleeding

Aleksandr Kulikov (Moscow, Russia)

11:40 - 12:00 - Anesthesia in electroconvulsive therapy

Ricard Valero (Barcelona, Spain)

12:00 - 12:20 - Fellowship in neuroanesthesia: is it mandatory?

Rafi Avitsian (Cleveland, United States)

12:20 - 12:30 - Discussion

**Friday 9 November 2018 - PM**

**ROOM : Versailles**

**Insights in Neuroanesthesia** [Standard presentation]

**Moderator :** Antony Absalom (Groningen, Netherlands)

**Moderator :** Vincent Bonhomme (Liège, Belgium)

14:00 - 14:20 - Airway management in neuroanesthesia

Ricard Valero (Barcelona, Spain)

14:20 - 14:40 - Ventilatory management in neuroanesthesia

Vincent Bonhomme (Liège, Belgium)

14:40 - 15:00 - Neurotoxicity of anesthetics

Kristin Engelhard (Mainz, Germany)

15:00 - 15:20 - Postoperative nausea and vomiting

Aleksandr Kulikov (Moscow, Russia)

15:20 - 15:30 - Discussion