

PROGRAM

• JUNE, 25 > 27 •



euroneuro2025

UPDATE ON NEUROANESTHESIA  
& NEURO-INTENSIVE CARE

Health Sorbonne University  
Paris, France



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## SUMMARY

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Dear friends, dear colleagues,

It is a great pleasure to welcome you to the 14th EuroNeuro meeting, held in Paris, June 25th to 27th, 2025, at the Health Sorbonne University.

This amazing multidisciplinary meeting will welcome anesthesiologists, intensivists, neurologists, neurosurgeons, neuroradiologists, neuroscientists, neurocritical care nurses, and anesthesia nurses.

Outstanding Specialists and scientists with diverse backgrounds from all over the world will be present, offering a great opportunity to share knowledge and experience for people involved in caring for patients with acute neurological diseases and brain injury, as well as for neuroscientists.

We warmly thank all the speakers, participants, and especially our industrial partners, whose active involvement and support bring life and energy to our congress.

Welcome in the fantastic city of Paris!

Pr VINCENT DEGOS, Pr Thomas GEERAERTS, Pr Yoann LAUNEY  
and Dr Stephanie SIGAUT





# EXHIBITORS LAYOUT PLAN







# DAY 1. WEDNESDAY JUNE 25<sup>TH</sup>, 2025

## ▶ AMPHITHEATER 1

9:30 AM > 9:50 AM  
**OPENING CEREMONY WELCOME ADDRESS**

9:50 AM > 10:20 AM  
**TBI, FROM ACUTE TO A CHRONIC DISEASE**

10:20 AM > 11:10 AM  
**BRAIN METABOLISM**

11:10 AM > 12:20 PM  
**NEUROINFLAMMATION IN TBI**

**12:20 PM > 2 PM**  
BREAK AND BOOTH VISIT  
E-POSTER SESSION

2 PM > 3 PM  
**SPINE SURGERY**

3 PM > 4 PM  
**STROKE**

**4 PM > 4:30 PM**  
BREAK AND BOOTH VISIT  
E-POSTER SESSION

4:30 PM > 5:30 PM  
**ELECTRO-ENCEPHALOGRAPHY**

5:30 PM > 6:30 PM  
**SPONTANEOUS INTRACRANIAL HAEMORRHAGE**

## ▶ AMPHITHEATER 2

9:30 AM > 9:50 AM  
**OPENING CEREMONY WELCOME ADDRESS**

9:50 AM > 10:20 AM  
**TBI, FROM ACUTE TO A CHRONIC DISEASE**

10:20 AM > 11:10 AM  
**NEUROSCIENCES (NICIS COURSES)**

11:10 AM > 12:20 PM  
**TRAUMATIC BRAIN INJURY**

**12:20 PM > 2 PM**  
BREAK AND BOOTH VISIT  
E-POSTER SESSION

2 PM > 3 PM  
**NEUROANESTHESIA**

3 PM > 4 PM  
**ARTIFICIAL INTELLIGENCE**

**4 PM > 4:30 PM**  
BREAK AND BOOTH VISIT  
E-POSTER SESSION

4:30 PM > 5:30 PM  
**HAEMORRHAGIC STROKE**

5:30 PM > 6:30 PM  
**EXTREME AGE IN NEUROCRITICAL CARE**

## ▶ ROOM 1

9:30 AM > 9:50 AM  
**OPENING CEREMONY WELCOME ADDRESS**

10:20 AM > 11:10 AM  
**CARDIAC ARREST**

11:10 AM > 12:20 PM  
**NEUROSCIENCES**

12:30 PM > 1 PM  
**BD WORKSHOP**



1:15 PM > 1:45 PM  
**NEUROPTICS WORKSHOP**



2 PM > 3:50 PM  
**BEST ABSTRACT - NEUROANESTHESIA**

**3:50 PM > 4:20 PM**  
BREAK AND BOOTH VISIT  
E-POSTER SESSION

4:20 PM > 5:30 PM  
**WORKSHOP - CEREBRAL COMPLIANCE**

Sponsored by SOPHYSA  
At the heart of the brain

5:30 PM > 6:30 PM  
**ORGAN DONATION**





# DAY 2. THURSDAY JUNE 26<sup>TH</sup>, 2025

## ▶ AMPHITHEATER 1

8:30 AM > 9:30 AM  
**NEUROIMAGING: WHAT'S NEW**

9:30 AM > 10:30 AM  
**MILD & MODERATE TRAUMATIC BRAIN INJURY**

10:30 AM > 11 AM  
BREAK AND BOOTH VISIT  
E-POSTER SESSION

11 AM > 12:20 PM  
**SUBARACHNOID HAEMORRHAGE**

12:20 PM > 1:35 PM  
**LUNCH BOXES DISTRIBUTION & INTEGRA SYMPOSIUM.**



1:35 PM > 2 PM  
BREAK AND BOOTH VISIT

2 PM > 3 PM  
**SEVERE TRAUMATIC BRAIN INJURY**

3 PM > 4 PM  
**INFECTION & CENTRAL NERVOUS SYSTEM**

4 PM > 4:20 PM  
BREAK AND BOOTH VISIT  
E-POSTER SESSION

4:20 PM > 5:40 PM  
**VENTILATION AND THE BRAIN**

## ▶ AMPHITHEATER 2

8:30 AM > 9:50 AM  
**CONSCIOUSNESS & SEIZURE (NICIS COURSES)**

9:50 AM > 10:20 AM  
**STATE OF THE ART - NEURAL MECHANISMS OF GENERAL ANESTHESIA**

10:20 AM > 10:50 AM  
BREAK AND BOOTH VISIT  
E-POSTER SESSION

10:50 AM > 12:20 PM  
**STROKE**

12:20 PM > 2 PM  
BREAK AND BOOTH VISIT

2 PM > 3 PM  
**SECONDARY BRAIN INJURIES**

3 PM > 4 PM  
**NEUROANESTHESIA**

4 PM > 4:20 PM  
BREAK AND BOOTH VISIT  
E-POSTER SESSION

4:20 PM > 5:20 PM  
**NEUROPROGNOSTICATION**

5:20 PM > 5:40 PM  
**STATE OF THE ART - BRAIN DEATH - PATHOPHYSIOLOGY AND DIAGNOSIS**

5:40 PM > 6 PM  
**ANARLF PRIZES - AWARDS FOR THE BEST ABSTRACTS**

## ▶ ROOM 1

8:30 AM > 8:50 AM  
**STATE OF THE ART - SEIZURE MANAGEMENT IN 2024**

8:50 AM > 10:10 AM  
**WORKSHOP - EEG BASICS**

10:10 AM > 10:30 AM  
BREAK AND BOOTH VISIT  
E-POSTER SESSION

10:30 AM > 12:20 PM  
**BEST ABSTRACTS - NEUROSCIENCES**

12:30 PM > 1:10 PM  
**IDMED WORKSHOP**



13:20 PM > 1:55 PM  
**CORMEDICA WORKSHOP**



2 PM > 3:20 PM  
**WORKSHOP - DEPTH OF ANESTHESIA**

3:20 PM > 3:50 PM  
BREAK AND BOOTH VISIT

3:50 PM > 5:30 PM  
**BEST ABSTRACTS - NEUROCRITICAL CARE**





## ▶ AMPHITHEATER 1

8:30 AM > 9:30 AM  
**BRAIN OXYGENATION**

9:30 AM > 10:30 AM  
**NEUROANESTHESIA**

**10:30 AM > 11:10 AM**  
BREAK AND BOOTH VISIT  
E-POSTER SESSION

11:10 AM > 12:30 PM  
**TARGETING SECONDARY BRAIN INJURY**

12:30 PM > 1 PM  
**NEUROSCIENCES - THERAPIES TO RESTORE  
CONSCIOUSNESS IN PATIENTS WITH SEVERE  
BRAIN INJURIES**

**1 PM > 2 PM**  
BREAK AND BOOTH VISIT

## ▶ AMPHITHEATER 2

8:30 AM > 10:10 AM  
**IMMUNITY AND NERVOUS SYSTEM  
(NICIS COURSES)**

**10:10 AM > 10:40 AM**  
BREAK AND BOOTH VISIT  
E-POSTER SESSION

10:40 AM > 11:30 AM  
**NEUROMONITORING**

11:30 AM > 1 PM  
**NEUROANESTHESIA**

**1 PM > 2 PM**  
BREAK AND BOOTH VISIT

ROOM 1

8:30 AM > 8:50 AM  
**CEREBRAL AUTOREGULATION:  
WHERE ARE WE IN 2025?**

8:50 AM > 10:10 AM  
**WORKSHOP - BRAIN ULTRASONOGRAPHY**

**10:10 AM > 10:40 AM**  
BREAK AND BOOTH VISIT  
E-POSTER SESSION

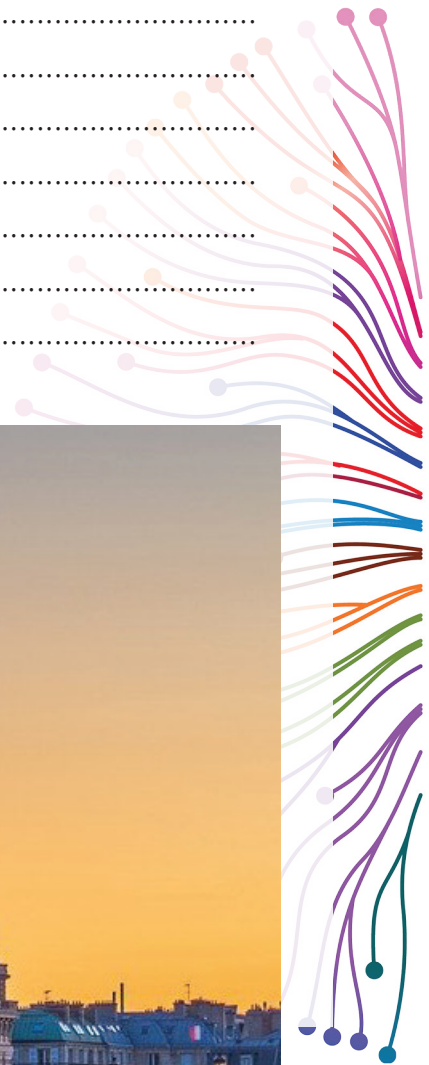
10:40 AM > 11:40 AM  
**NEUROINFECTIOUS DISEASES**

11:40 AM > 1 PM  
**SEPSIS AND NERVOUS SYSTEM**

**1 PM > 2 PM**  
BREAK AND BOOTH VISIT

## Notes

The image features a white background with horizontal dotted lines for writing. In the bottom right corner, there is a decorative graphic consisting of several curved, overlapping lines in shades of pink, orange, and purple, with small circles at their ends.







▶ **AMPHITHEATER 1** 9:30 AM > 9:50 AM **OPENING CEREMONY WELCOME ADDRESS.**

**9:50 AM > 10:20 AM | TBI, FROM ACUTE TO A CHRONIC DISEASE**

David MENON, Cambridge, United Kingdom

**10:20 AM > 11:10 AM | BRAIN METABOLISM**

Chairs: Elisa ZANIER, Milan, Italy and  
Mads RASMUSSEN, Århus, Denmark

- Is there a place for ketones in acute brain injury?  
Filippo ANNONI, Brussels, Belgium
- Is there a place for lactates in acute brain injury?  
Hervé QUINTARD, Geneva, Switzerland
- Physiology of brain fueling.  
Jonathan COLES, Cambridge, United Kingdom

**11:10 AM > 12:20 PM | NEUROINFLAMMATION IN TBI**

Chairs: Geert MEYFROIDT, Leuven, Belgium and  
Vincent DEGOS, Paris, France

- Stem cell transplantation in traumatic brain injury.  
Stéphanie SIGAUT, Paris, France
- Neuroprotection in traumatic brain injury.  
Elisa ZANIER, Milan, Italy
- Immunodepression and acute brain injury.  
Antoine ROQUILLY, Nantes, France

**12:20 PM > 2 PM | BREAK AND BOOTH VISIT**

**12:20 PM > 1:20 PM | E-POSTER SESSION PARTNER'S AREA**

**2 PM > 3 PM | SPINE SURGERY**

Chairs: Alice JACQUENS, Paris, France and  
Mathieu VAN DER JAGT, Rotterdam, Netherlands

- Regional anesthesia for spine surgery.  
Arthur ANDRÉ, Paris, France
- Intraoperative neuromonitoring for spine surgery.
- Patient blood management in spine surgery.  
Sigismond LASOCKI, Angers, France

**3 PM > 4 PM | STROKE**

Chair: Russell CHABANNE, Clermont-Ferrand, France

- Anterior circulation arterial ischemic stroke: recommendations.  
Guillaume TURC, Paris, France
- Posterior circulation arterial ischemic stroke: recommendations.  
Benjamin MAÏER, Paris, France
- Coagulation management in stroke.  
Charlotte CORDONNIER, Lille, France

**4 PM > 4:30 PM | BREAK AND BOOTH VISIT**

**4 PM > 4:30 PM | E-POSTER SESSION PARTNER'S AREA**

**4:30 PM > 5:30 PM | ELECTRO-ENCEPHALOGRAPHY**

Chairs: Hervé QUINTARD, Geneva, Switzerland and  
Fabio TACCONE, Brussels, Belgium

- Electroencephalography in neurointensive care.  
Jan CLAASSEN, New-York, USA
- Management of refractory status epilepticus.  
Nicolas GASPARD, Brussels, Belgium
- Multimodality monitoring and data integration in refractory status epilepticus.  
Baptiste BALANÇA, Lyon, France

**5:30 PM > 6:30 PM | SPONTANEOUS INTRACRANIAL HAEMORRHAGE**

Chairs: Romain MANET, Lyon, France and  
Clément GAKUBA, Caen, France

- Causes of intracranial haemorrhage and follow-up.  
Charlotte CORDONNIER, Lille, France
- Surgical management of intracranial haemorrhage (mini-invasive surgery and hemicraniectomy).  
Stefan WOLF, Berlin, Germany
- Anticoagulation management after spontaneous intracranial haemorrhage.  
Katja WARTENBERG, Leipzig, Germany

▶ **AMPHITHEATER 2** 9:30 AM > 9:50 AM **OPENING CEREMONY WELCOME ADDRESS.**

**9:50 AM > 10:20 AM | TBI, FROM ACUTE TO A CHRONIC DISEASE**

David MENON, Cambridge, United Kingdom



**10:20 AM > 11:10 AM | NEUROSCIENCES (NICIS COURSES)**

Chairs: Katja WARTENBERG, Leipzig, Germany and  
Aurélien MAZERAUD, Paris, France



- Clinical relevance of glymphatic dysfunction in acute brain injury.  
Martin Kaag RASMUSSEN, Copenhagen, Denmark
- Aging and gender effects in acute brain injury.  
Alice JACQUENS, Paris, France
- Role of biomarkers in acute brain injuries.  
Stefania MONDELLO, Messina, Italy

**11:10 AM > 12:20 PM | TRAUMATIC BRAIN INJURY**

Chairs: Laurent GERGELÉ, Clermont-Ferrand, France and  
Thomas GABEREL, Caen, France

- Which intracranial pressure tier for cerebrospinal fluid drainage?  
Fabio TACCONE, Brussels, Belgium
- Neurosurgery for severe traumatic brain injury.  
Romain MANET, Lyon, France
- Chronic subdural hematoma.  
Alessandro BERTUCCIO, Alessandria, Italy

**12:20 PM > 2 PM | BREAK AND BOOTH VISIT**

**12:20 PM > 1:20 PM | E-POSTER SESSION PARTNER'S AREA**

**2 PM > 3 PM | NEUROANESTHESIA**

Chairs: Stéphanie SIGAUT, Paris, France and  
Martin Kaag RASMUSSEN, Copenhagen, Denmark

- What neuromonitoring for anesthesia?  
Francesco RASULO, Brescia, Italy
- Hemodynamic management in intracranial surgeries.  
Marko SAHINOVIC, Groningen, Netherlands
- Sevoflurane or propofol in neurosurgery?  
Francisco LOBO, Porto, Portugal

**3 PM > 4 PM | ARTIFICIAL INTELLIGENCE**

Chairs: Jan CLAASSEN, New-York, USA and  
Niklas NIELSEN, Lund, Sweden

- AI to predict the severity of acute brain injury and raised intracranial pressure.  
Mathieu VAN DER JAGT, Rotterdam, Netherlands
- AI to help decision-making in traumatic brain injury.  
Tobias GAUSS, Grenoble, France
- AI to help electroencephalogram patterns analysis.  
Nicolas GASPARD, Brussels, Belgium

**4 PM > 4:30 PM | BREAK AND BOOTH VISIT**

**4 PM > 4:30 PM | E-POSTER SESSION PARTNER'S AREA**

**4:30 PM > 5:30 PM | HAEMORRHAGIC STROKE**

Chairs: Katja WARTENBERG, Leipzig, Germany and  
Giuseppe CITERIO, Milan, Italy

- Anticoagulation management in haemorrhagic stroke.  
Vincent DEGOS, Paris, France
- Intrathecal fibrinolysis in subarachnoid haemorrhage.  
Thomas GABEREL, Caen, France
- Intrathecal fibrinolysis in intracranial haemorrhage.  
Clément GAKUBA, Caen, France

**5:30 PM > 6:30 PM | EXTREME AGE IN NEUROCRITICAL CARE**

Chairs: Robert STEVENS, Baltimore, USA and  
Tobias GAUSS, Grenoble, France

- Postoperative cognition alteration in geriatric patient.  
Sarah SAXENA, Mons, Belgium
- Pediatrics specificities for medical treatment.  
Jérémy PEUCHOT, Paris, France
- Toxicity of inhaled anesthetic agents.  
Jean-Philippe SALAÜN, Caen, France



ROOM 1

10:20 AM > 11:10 AM | CARDIAC ARREST

Chair: Louis PUYBASSET, Paris, France

- Post-resuscitation shock.  
Fabio TACCONE, Brussels, Belgium
- How do I manage targeted-temperature?  
Claudio SANDRONI, Roma, Italy
- Early prognostication in cardiac arrest.  
Niklas NIELSEN, Lund, Sweden

11:10 AM > 12:20 PM | NEUROSCIENCES

Chairs: Stefania MONDELLO, Messina, Italy and Thomas GEERAERTS, Toulouse, France

- Should brain temperature be monitored in neurocritical care? Nicolas ENGRAND, Paris, France
- Uncertainty in decision making for neurocritical care.  
Robert STEVENS, Baltimore, USA
- Specificities of clinical research in neurocritical care.  
Alexis TURGEON, Quebec City, Canada

12:20 PM > 12:30 PM | BREAK AND BOOTH VISIT

12:20 PM > 1:20 PM | E-POSTER SESSION  
PARTNER'S AREA

12:30 PM > 1 PM  
BD WORKSHOP  
PATIENT TEMPERATURE MANAGEMENT USING  
THE ARCTIC SUN 5000 SYSTEM



Christian LARISCH, Winnersh, United Kingdom

- Introduction & application
- System overview
- How to & troubleshooting

1 PM > 1:15 PM | BREAK AND BOOTH VISIT

1:15 PM > 1:45 PM  
NEUROPTICS WORKSHOP  
NPI AND AUTOMATED PUPILLOMETRY TO  
MANAGE TBI



Fabio TACCONE, Brussels, Belgium

- Case Presentation
- Hands on Session

1:45 PM > 2 PM | BREAK AND BOOTH VISIT

2 PM > 3:50 PM | BEST ABSTRACT -  
NEUROANESTHESIA

Chairs: Jennifer BOURGES, Caen, France and Gérard AUDIBERT, Nancy, France

- Journey to the subthalamic nucleus for deep brain stimulation under general anesthesia.  
Mehmet OZCAN, New Haven, USA
- Delta-alpha ratio as a robust marker of the impact of cerebral blood flow on EEG signal during general anesthesia. Elsa MANQUAT, Paris, France
- A comparison of rapidity and recovery of neuromuscular blockade of Sugammadex versus Neostigmine in adults undergoing elective craniotomies; a prospective Randomized double-blind single-center study. Joslita REBELLO, Mumbai, India
- Comparison of Fried Frailty Phenotype and American Society of Anesthesiologists classification as predictors of postoperative complications resulting in prolonged ICU stay in elective craniotomies.  
Nimisha THAKUR, Mumbai, India
- Why still in hospital after craniotomy for tumor with an ERAS protocol – a single-center quality assurance study. Martin KRYSPIN, Copenhagen, Denmark
- The Effect of SBI Approach on POD.  
Başak Ceyda MECO, Ankara, Turkey

3:50 PM > 4:20 PM | BREAK AND BOOTH VISIT

4 PM > 4:30 PM | E-POSTER SESSION  
PARTNER'S AREA

ROOM 1

4:20 PM > 5:30 PM | WORKSHOP -  
CEREBRAL COMPLIANCE

Chair: András BÜKI, Örebro, Sweden

Session sponsored by



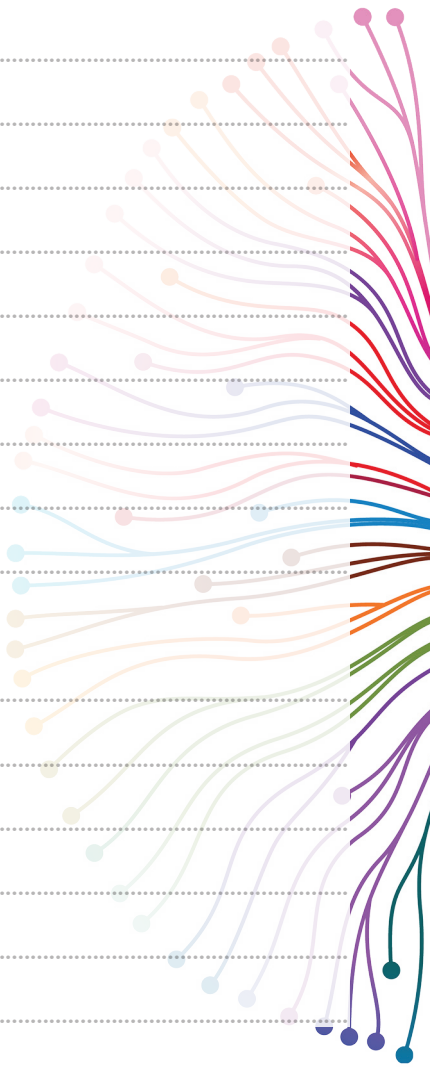
- Pressure mechanisms and current bedside assessment.  
Laurent GERGELÉ, Clermont-Ferrand, France
- Volume mechanisms and osmolarity: Brain compliance as an objective?  
Céleste DIAS, Porto, Portugal
- Volume mechanisms, CO<sub>2</sub> and metabolic coupling  
Russell CHABANNE, Clermont-Ferrand, France

5:30 PM > 6:30 PM | ORGAN DONATION

Chairs: Francesco RASULO, Brescia, Italy and Francisco LOBO, Porto, Portugal

- How to diagnose brain death?  
Giuseppe CITERIO, Milan, Italy
- How do I manage organ donor in intensive care unit?  
Geert MEYFROIDT, Leuven, Belgium
- Non-heart beating donor procedures.  
Matthieu LE DORZE, Paris, France

NOTEBOOK







## ▶ AMPHITHEATER 1

8:30 AM > 9:30 AM | **NEUROIMAGING: WHAT'S NEW**

Chair: Claudio SANDRONI, Roma, Italy

- 3D contrast enhanced acoustic angiography and perfusion imaging. *Clément GAKUBA, Caen, France*
- Quantitative MRI to deal with neuroprognostication's uncertainty. *Louis PUYBASSET, Paris, France*
- Perfusion imaging. *Marc-Antoine LABEYRIE, Paris, France*

9:30 AM > 10:30 AM | **MILD & MODERATE TRAUMATIC BRAIN INJURY**

Chairs: Alessandro BERTUCCIO, Alessandria, Italy and Thomas GEERAERTS, Toulouse, France

- Traumatic brain injury in sports. *Philippe DECQ, Paris, France*
- Role of biomarkers in mild and moderate traumatic brain injury. *Stefania MONDELLO, Messina, Italy*
- One-year outcomes. *Robert STEVENS, Baltimore, USA*

10:30 AM > 11 AM | **BREAK AND BOOTH VISIT**10:30 AM > 11 AM | **E-POSTER SESSION PARTNER'S AREA**11 AM > 12:20 PM | **SUBARACHNOID HAEMORRHAGE**

Chairs: Sigismond LASOCKI, Angers, France and Claudio SANDRONI, Roma, Italy

- How to manage cerebral vasospasm? *Mathieu VAN DER JAGT, Rotterdam, Netherlands*
- Role of endovascular treatment in subarachnoid haemorrhage. *Marc-Antoine LABEYRIE, Paris, France*
- How to optimize brain oxygenation in subarachnoid haemorrhage? *Pierre BOUZAT, Grenoble, France*
- Endocrine dysfunction in subarachnoid haemorrhage. *Chiara ROBBA, Genova, Italy*

12:20 PM > 12:35 PM | **LUNCH BOXES DISTRIBUTION**12:35 PM > 1:35 PM | **INTEGRA SYMPOSIUM MODERN ICP MONITORING: HOW SHOULD I USE IT IN 2025?**

Chair: Vincent DEGOS, Paris, France

- Recommended and borderline ICP monitoring indication. *Pierre BOUZAT, Grenoble, France*
- PTD and Intra-Cranial Hypertension Therapeutic Weaning. *Antonio BELLI, Birmingham, United Kingdom*
- What is the future for severe TBI management. *Giuseppe CITERIO, Milan, Italy*

INTEGRA

1:35 PM > 2 PM | **BREAK AND BOOTH VISIT**2 PM > 3 PM | **SEVERE TRAUMATIC BRAIN INJURY**

Chairs: Alexis TURGEON, Québec City, Canada and Raphaël CINOTTI, Nantes, France

- Intracranial pressure alone or combined intracranial pressure and brain tissue-oxygenation monitoring? *Pierre BOUZAT, Grenoble, France*
- Neuroprotective therapies in traumatic brain injury. *Elisa ZANIER, Milan, Italy*
- Long-term outcome of severe traumatic brain injury. *Alice JACQUENS, Paris, France*

3 PM > 4 PM | **INFECTION & CENTRAL NERVOUS SYSTEM**

Chairs: Raimund HELBOK, Linz, Austria and Tarek SHARSHAR, Paris, France

- Severe encephalitis. *Romain SONNEVILLE, Paris, France*
- Pneumonia and neurocritical care. *Claire DAHYOT-FIZELIER, Poitiers, France*
- Viral reactivation: respiratory microbiome and traumatic brain injury patient-outcomes. *Antoine ROQUILLY, Nantes, France*

4 PM > 4:20 PM | **BREAK AND BOOTH VISIT**4 PM > 4:30 PM | **E-POSTER SESSION PARTNER'S AREA**4:20 PM > 5:40 PM | **VENTILATION AND THE BRAIN**

Chairs: Rafael BADENES, Valencia, Spain and Pierre BOUZAT, Grenoble, France

- Hyperoxia in acute ischemic stroke: friend or foe? *Rafael BADENES, Valencia, Spain*
- Mechanical ventilation in acute brain injuries. *Chiara ROBBA, Genova, Italy*
- Extubation and weaning from mechanical ventilation in acute brain injury. *Raphaël CINOTTI, Nantes, France*
- Timing of tracheotomy after acute brain injury. *Jean-Michel CONSTANTIN, Paris, France*

## ▶ AMPHITHEATER 2

8:30 AM > 9:50 AM | **CONSCIOUSNESS & SEIZURE (NICIS COURSES)**

Chairs: Robert STEVENS, Baltimore, USA and Yoann LAUNEY, Rennes, France



- Cognitive-motor dysfunction. *Jan CLAASSEN, New-York, USA*
- Exploring epilepsy to unravel physiology of conscious states. *Lionel NACCACHE, Paris, France*
- Treatment of seizure. *Nicolas GASPARD, Brussels, Belgium*
- Clinical evaluation of consciousness at the bedside. *Jitka ANNEN, Liege, Belgium*

9:50 AM > 10:20 AM | **STATE OF THE ART - NEURAL MECHANISMS OF GENERAL ANESTHESIA**

Chairs: Robert STEVENS, Baltimore, USA and Yoann LAUNEY, Rennes, France

*Salah BOUSSEN, Marseille, France*

10:20 AM > 10:50 AM | **BREAK AND BOOTH VISIT**10:30 AM > 11 AM | **E-POSTER SESSION PARTNER'S AREA**10:50 AM > 12:20 PM | **STROKE**

Chairs: Federico CAGNAZZO, Montpellier, France and Marko SAHINOVIC, Groningen, Netherlands

- Arterial blood pressure targets in acute ischemic stroke. *Mads RASMUSSEN, Århus, Denmark*
- Which anesthesia for mechanical thrombectomy. *Russell CHABANNE, Clermont-Ferrand, France*
- Utility of neuroimaging to select patients for revascularization in stroke. *Mikael MAZIGHI, Paris, France*
- Mini-invasive surgery and fibrinolysis in intracranial haemorrhage. *Thomas GABEREL, Caen, France*

12:20 PM > 2 PM | **BREAK AND BOOTH VISIT**2 PM > 3 PM | **SECONDARY BRAIN INJURIES**

Chairs: Jennifer BOURGES, Caen, France and Hervé QUINTARD, Geneva, Switzerland

- Osmotherapy in traumatic injury. *Antoine ROQUILLY, Nantes, France*
- Optimal cerebral perfusion pressure for traumatic brain injury. *Erta BEQIRI, Cambridge, United Kingdom*
- Oxygenation neuromonitoring. *Cathy DE DEYNE, Genk, Belgium*

3 PM > 4 PM | **NEUROANESTHESIA**

Chairs: Rafael BADENES, Valencia, Spain and Erta BEQIRI, Cambridge, United Kingdom

- The contribution of interventional neuroradiology in CSF disorders. *Federico CAGNAZZO, Montpellier, France*
- Anesthesia for awake neurosurgery. *Vivien SZABO, Montpellier, France*
- Postoperative delirium. *Stéphanie SIGAUT, Paris, France*

4 PM > 4:20 PM | **BREAK AND BOOTH VISIT**4 PM > 4:30 PM | **E-POSTER SESSION PARTNER'S AREA**4:20 PM > 5:20 PM | **NEUROPROGNOSTICATION**

Chairs: Salah BOUSSEN, Marseille, France and Jan CLAASSEN, New-York, USA

- Prognostication after intracerebral and subarachnoid hemorrhage. *Steven THIESSEN, Leuven, Belgium*
- Prognostication in hypoxic-ischemic encephalopathy. *Claudio SANDRONI, Roma, Italy*
- Prognostication after traumatic brain injury. *Pierre SIMEONE, Marseille, France*

5:20 PM > 5:40 PM | **STATE OF THE ART - BRAIN DEATH - PATHOPHYSIOLOGY AND DIAGNOSIS**

Chairs: Salah BOUSSEN, Marseille, France and Jan CLAASSEN, New-York, USA

*Giuseppe CITERIO, Milan, Italy*

5:40 PM > 6 PM | **ANARLF PRIZES AWARDS FOR THE BEST ABSTRACTS: "GOLDEN BRAINS (BEST RESEARCH ABSTRACTS)"**



ROOM 1

8:30 AM > 8:50 AM | STATE OF THE ART - SEIZURE MANAGEMENT IN 2024

Chairs: Chiara ROBBA, Genova, Italy and Baptiste BALANÇA, Lyon, France  
Nicolas GASPARD, Brussels, Belgium

8:50 AM > 10:10 AM | WORKSHOP - EEG BASICS  
Baptiste BALANÇA, Lyon, France

10:10 AM > 10:30 AM | BREAK AND BOOTH VISIT

10:30 AM > 11 AM | E-POSTER SESSION  
PARTNER'S AREA

10:30 AM > 12:20 PM | BEST ABSTRACTS - NEUROSCIENCES

- Chairs: Elisa ZANIER, Milan, Italy and Jean-François PAYEN, Grenoble, France
- Head over heels: general anaesthesia and systemic hyperosmolality modulate lumbar intrathecal drug distribution. Terhi LOHELA, Helsinki, Finland
  - Long term effect on cerebellum of traumatic brain injury. Hélène CWERMAN-THIBAUT, Paris, France
  - Spatiotemporal brain dynamics during cyclic seizures of super-refractory status epilepticus. Alexandre LEDOS, Rennes, France
  - Fkbp5: discovery of a therapeutic target for post-traumatic immunomodulation in a pediatric murine model by microglial epigenetic analysis. Alice JACQUENS, Paris, France
  - Neuro-inflammatory cytokines and magnetic resonance imaging as predictive factors of clinical evolution in severe traumatic brain injury patients. Thibault FONTANIÉ, Paris, France
  - Comparison of time- and frequency-domain methods for assessing brain compliance in brain-injured patients monitored with intraparenchymal intracranial pressure sensors. Valentin GHIBAUDO, Lyon, France

12:20 PM > 12:30 PM | BREAK AND BOOTH VISIT

12:30 PM > 1:10 PM  
IDMED WORKSHOP -  
QUANTITATIVE PUPILLOMETRY



- Chair: Jean-François PAYEN, Grenoble, France
- Physiology and Technology behind NeuroLight: Understanding the Foundations of Quantitative Pupillometry. Chiara ROBBA, Genova, Italy
  - Q&A session
  - Clinical Applications of Quantitative Pupillometry in Critical Care: Neuromonitoring and Prognostication. Hervé QUINTARD, Geneva, Switzerland
  - Q&A session

1:10 PM > 1:20 PM | BREAK AND BOOTH VISIT

1:20 PM > 1:55 PM  
CORMEDICA WORKSHOP  
CSF DRAINAGE IN ANEURYSMAL  
SUBARACHNOID HEMORRHAGE



- Russel CHABANNE, Clermont-Ferrand, France
- CSF diversion indications in aSAH.
  - Modalities of CSF drainage in aSAH.
  - CSF drainage management in aSAH.

1:55 PM > 2 PM | BREAK AND BOOTH VISIT

2 PM > 3:20 PM | WORKSHOP - DEPTH OF ANESTHESIA

Salah BOUSSEN, Marseille, France

3:20 PM > 3:50 PM | BREAK AND BOOTH VISIT

4 PM > 4:30 PM | E-POSTER SESSION  
PARTNER'S AREA

ROOM 1

3:50 PM > 5:30 PM | BEST ABSTRACTS - NEUROCRITICAL CARE

- Chairs: Mathieu VAN DER JAGT, Rotterdam, Netherlands and Tobias GAUSS, Grenoble, France
- Practical efficiency of coupling targeted temperature management to brain temperature rather than systemic temperature in severe brain injury: The Brain-TTM Study. Thomas SCHMITT, Paris, France
  - A Restrictive versus A Liberal Transfusion Strategy in Patients with Traumatic Brain Injury: a randomized study. Irène SBARAINI ZERNINI, Brussels, Belgium
  - Outcomes of Patients with Posterior Fossa Stroke Admitted to the ICU: An Observational Retrospective Cohort. Salomé SMADJA, Paris, France
  - From Waveforms to Insights: Validating the Pulse Shape Index for Intracranial Compliance Assessment. Ihsane OLAKOREDE, Cambridge, United Kingdom
  - A TTM Analysis: No HTE Found. Michel RASKIN, Baltimore, USA
  - Prognostic Value of Intracranial Pressure Monitoring in Patients with Severe Stroke. David ROLLAND, Paris, France

NOTEBOOK





## ▶ AMPHITHEATER 1

### 8:30 AM > 9:30 AM | BRAIN OXYGENATION

Chairs: Marko SAHINOVIC, Groningen, Netherlands and Jean-François PAYEN, Grenoble, France

- Transfusion threshold in traumatic brain injury and subarachnoid haemorrhage.

Alexis TURGEON, Quebec City, Canada

- Monitoring of brain oxygenation.

Fabio TACCONE, Brussels, Belgium

- Impact of hyperoxia in acute brain injuries?

Rafael BADENES, Valencia, Spain

### 9:30 AM > 10:30 AM | NEUROANESTHESIA

Chairs: Sarah SAXENA, Mons, Belgium and Jennifer BOURGES, Caen, France

- Invasive and non invasive ICP monitoring: Neurosurgeon or Intensivist? Who's job is it?

Francesco RASULO, Brescia, Italy

- Anesthetic technique and delirium.

Sarah SAXENA, Mons, Belgium

- Neurosurgical procedures and frailty.

Stéphanie SIGAUT, Paris, France

### 10:30 AM > 11:10 AM | BREAK AND BOOTH VISIT

### 10:20 AM > 11 AM | E-POSTER SESSION PARTNER'S AREA

### 11:10 AM > 12:30 PM | TARGETING SECONDARY BRAIN INJURY

Chairs: Chiara ROBBA, Genova, Italy and Fabio TACCONE, Brussels, Belgium

- Spreading depolarization in neurological disease.

Jens DREIER, Berlin, Germany

- Hyponatremia in traumatic brain injury.

Hervé QUINTARD, Geneva, Switzerland

- Glycemic control in acute brain injury.

Jeroen HERMANIDES, Amsterdam, Netherlands

- Role of the carbon dioxide.

Rafael BADENES, Valencia, Spain

### 12:30 PM > 1 PM | NEUROSCIENCES - THERAPIES TO RESTORE CONSCIOUSNESS IN PATIENTS WITH SEVERE BRAIN INJURIES.

Robert STEVENS, Baltimore, USA

### 1 PM > 2 PM | LUNCH BREAK AND BOOTH VISIT

## ▶ AMPHITHEATER 2

### 8:30 AM > 10:10 AM | IMMUNITY AND NERVOUS SYSTEM (NICIS COURSES)



Chairs: Elisa ZANIER, Milan, Italy and Antoine ROQUILLY, Nantes, France

- How the brain senses and regulates peripheral immune responses? Gabriel LEPOUSEZ, Paris, France

- NMDA encephalitis. Clémence MAROIS, Paris, France

- Autoimmune Neuromuscular pathology in ICU.

Tarek SHARSHAR, Paris, France

- Immune dysregulation after TBI.

Edward NEEDHAM, Cambridge, United Kingdom

- Early and late neuroinflammation in acute brain injury.

Pierre GRESSENS, Paris, France

### 10:10 AM > 10:40 AM | BREAK AND BOOTH VISIT

### 10:20 AM > 11 AM | E-POSTER SESSION PARTNER'S AREA

### 10:40 AM > 11:30 AM | NEUROMONITORING

Chairs: Hervé QUINTARD, Geneva, Switzerland and Federico BILOTTA, Roma, Italy

- Which place for cerebral oxygenation monitoring?

Pierre BOUZAT, Grenoble, France

- Intracranial pressure: more than a number?

Giuseppe CITERIO, Milan, Italy

- Continuous EEG: what does it offer?

Baptiste BALANÇA, Lyon, France

### 11:30 AM > 1 PM | NEUROANESTHESIA

Chairs: Nicolas BRUDER, Marseille, France and Alessandro BERTUCCIO, Alessandria, Italy

- Complex or giant aneurysms management.

Thomas GABEREL, Caen, France

- Extracranial bypass: the surgeon point-of-view.

Etienne LEFEVRE, Paris, France

- Hemodynamic target in intracranial surgery.

Marko SAHINOVIC, Groningen, Netherlands

- Perioperative neuroprotection.

Federico BILOTTA, Roma, Italy

### 1 PM > 2 PM | LUNCH BREAK AND BOOTH VISIT

## ▶ ROOM 1

### 8:30 AM > 8:50 AM | CEREBRAL AUTOREGULATION: WHERE ARE WE IN 2025?

Chairs: Laurent GERGELÉ, Clermont-Ferrand, France and Erta BEQIRI, Cambridge, United Kingdom

### 8:50 AM > 10:10 AM | WORKSHOP - BRAIN ULTRASONOGRAPHY

Hugues DE COURSON, Bordeaux, France and

Lamine ABDENNOUR, Paris, France

### 10:10 AM > 10:40 AM | BREAK AND BOOTH VISIT

### 10:20 AM > 11 AM | E-POSTER SESSION PARTNER'S AREA

### 10:40 AM > 11:40 AM | NEUROINFECTIOUS DISEASES

Chair: Tarek SHARSHAR, Paris, France

- Bacterial meningitis. Raimund HELBOK, Linz, Austria

- External ventricular drainage-related infection.

Claire DAHYOT-FIZELIER, Poitiers, France

- Brain abscess. Jacob BODILSEN, Aalborg, Denmark

### 11:40 AM > 1 PM | SEPSIS AND NERVOUS SYSTEM

Chairs: Claire DAHYOT-FIZELIER, Poitiers, France and Loïc LE GUENNEC, Paris, France

- Delayed awakening in neurocritical care.

Tarek SHARSHAR, Paris, France

- Septic encephalopathy: pathophysiology.

Aurélien MAZERAUD, Paris, France

- ICU-acquired weakness. Marc LEONE, Marseille, France

- Long-term cerebral consequences of sepsis.

Tarek SHARSHAR, Paris, France

### 1 PM > 2 PM | LUNCH BREAK AND BOOTH VISIT

NOTEBOOK

EURONEURO 2025 IS  
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 **SOPHYSA**  
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# Elecsys® S100B assay

## Rapid Mild Traumatic Brain Injury Management in the Emergency Department

**69 million** people are affected by Traumatic Brain Injury (TBI) worldwide each year.<sup>1</sup>

**>80%** have mild TBI. Common causes include road traffic accidents, falls, sport activities, and violence.<sup>1</sup>



### Emergency Departments face critical demands:

- Rapid triage
- Resource optimization
- Minimizing patient risk



### CT scans, the current standard for intracranial injury detection, have limitations:

- Exposure to ionizing radiation<sup>2-7</sup>
- High cost and limited availability in some settings
- Limited sensitivity for some intracranial pathologies

## Technical highlights

**S100B** is a calcium-binding protein, released from astrocytes into the bloodstream following brain injury.<sup>8-10</sup>

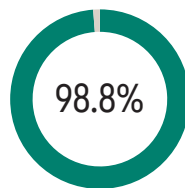
**Assay type:** Electro-chemiluminescence immunoassay (ECLIA) for precise S100 (S100A1B and S100BB) quantification in serum<sup>11-14</sup>

### Clinical utility:

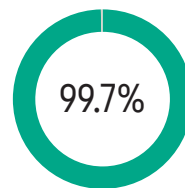
- Elevated serum S100B within 3 hours post-injury correlates with intracranial injury risk
- Low S100B levels (<0.105 µg/L) reliably identify patients at low risk, enabling safe avoidance of CT scans<sup>11</sup>

**Sample:** Serum, drawn within 3 hours post-injury

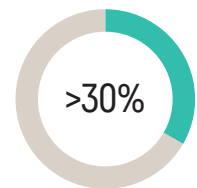
**Turnaround time:** Approximately 18 minutes on Roche cobas® analyzers



**Sensitivity:**  
Minimizes missed intracranial injuries<sup>11</sup>



**Negative Predictive Value:**  
Confidently rules out significant brain injuries<sup>11</sup>



**CT Scan Reduction Potential:**  
Reduces radiation exposure and healthcare costs<sup>12,13,15</sup>

## Integration into the Emergency Department clinical workflow



**1** Patient presents with mild TBI



**2** Perform Elecsys® S100B assay



**3** Interpret results

S100B <0.105 µg/L: Low risk – consider discharge without CT scan  
S100B ≥0.105 µg/L: Higher risk – proceed with CT imaging and further evaluation

Mild TBI (GCS 13–15) within 6 hours\* of injury

## Benefits for patients and healthcare systems



### Patient-centered:

- Avoid unnecessary CT scans and associated radiation risk
- Faster clinical decision-making, shorter Emergency Department stays and improved patient flow



### Healthcare system:

- Optimizes resource utilization and reduces costs
- Supports evidence-based, standardized care pathways
- S100B testing is supported by over 15 years of clinical use
- S100B is recommended in several national and international guidelines\*\*

### References

1. Dewan et al (2018). J Neurosurg. 130:1080–1097. | 2. Undén et al (2013). BMC Med. 11:50. | 3. Zongo et al (2012). Ann Emerg Med. 59:209–218. | 4. Lee et al. (2008). J Neurotrauma. 1049–56. | 5. Doezeema et al. (1991). Ann Emerg Med. 2181–5. | 6. Topal et al. (2008). Neurol Res. 974–8. | 7. Smith-Bindman (2010). N Engl J Med. 363:1–4. | 8. Donato R. Int (2001). J Biochem Cell Biol. 33:637–668. | 9. Zimmer DB, et al. (1995). Brain Res Bull. 4:417–429. | 10. Biberthaler P, et al. (2001). World J Surg. 25:93–97. | 11. Method sheet E1G of Roche S100 (v12). | 12. Alber B, et al. (2005). Clin Chem and Lab Med. 43:557–563. | 13. Biberthaler et al. (2006). Shock. 25:446–453. | 14. Undén et al. (2010). J Head Trauma Rehabil. 25:228–240. | 15. Thaler et al. (2015). J Neurosurg. 123: 1202–8.

\*This approach aligns with Scandinavian Neurotrauma Committee and French Society of Emergency guidelines. \*\*Including the Scandinavian Neurotrauma Committee (SNC), the French Society of Emergency Medicine (SFMU), the American College of Surgeons (ACS), and the American College of Emergency Physicians (ACEP).

**Roche Commitment:** At Roche, we are dedicated to advancing biomarker-driven innovation to empower clinicians with rapid, reliable tools that improve patient outcomes in neurotrauma. Elecsys® S100B is a proven ally in the Emergency Department for confident, evidence-based mild TBI management.

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