

## **PRELIMINARY PROGRAM EURONEURO 2016**

Topics may be considered as “plenary sessions” or “parallel sessions” (two simultaneous sessions).

We have classified them according to fields of interest

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### **Basic Neuroscience**

Cannabinoids and brain; regulatory TC cell and stroke

Fundamentals of cerebrovascular autoregulation measurement

Urid acic and stroke

### **Consciousness**

Bedside detection of awareness in vegetative state

Consciousness and Memory

Anesthesia effects on Consciousness

### **Biomedical Engineering and brain monotoring: from mechanisms to devices**

Engineering to measure effects: designing new devices

Engineering to understand processes: models of physiology and pharmacology

Systems approach: the engineer view

### **Brain networks, cognition and functional brain connectivity**

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### **New monitoring perspectives**

Difuse optics and brain monitoring

Periferic endothelium and autoregulation

Human Connectome Project

### **Intraoperative monitoring**

Analgesia monitoring

Frequency or temporal domain EEG?

Direct and Indirect measurement of cerebral blood flow

### **Intraoperative Neurophysiological Monitoring (INM)**

INM for motor and language mapping

INM in skull base surgery (cranial nerves monitoring)

Pitfalls in Intraoperative Neurophysiological Monitoring (position, drugs, temperature, hemodynamic changes,...)

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### **Tailored treatment in Neurocritical Patient**

Lower Limit of Autoregularion (ICM+)

Non invasive monitoring (Massimo)

### **Vascular Neurocritical Patient**

Blood pressure targets and stroke

Stroke endovascular treatment: neuroangioradiologist, neurologist and anaesthesiologist  
Malignant stroke and decompressive craniotomy

### **Neurocritical patient**

"Status epilepticus", "cortical spreading depression" and "Non convulsive epilepsy" in ICU  
Update in Neurological infection in ICU  
Systemic Sepsis and brain

### **Initial Attention to Neurocritical Patient**

Transcranial Doppler, Brain echography  
"Stroke code", "polytraumatism code", "SAH code". Where do we treat these patients?  
Surgical treatment in Initial Attention to Neurocritical Patient

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### **CardioPulmonary Resuscitation and brain**

Is there any room for hypothermia after CPR?  
Monitoring brain during CPR (SrO<sub>2</sub>, BIS,...)  
Outcome after intrahospitalary or extrahospitalary CPR. Rehabilitation

### **ECC, ECMO and brain**

Extracorporeal circulatory support effects on the brain  
Periprocedure brain monitoring in cardiac surgery  
Hypothermia and brain death diagnosis

### **Emergency Neurologic life support (ENLS)**

Stroke  
Trauma

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### **General vs awake for all craniotomies**

PRO  
CON

### **Spine procedures**

Scoliosis surgery AND children.  
Especial issues for surgery in paraplegic or tetraplegic patients. Standing frames.  
Vertebroplasty, to whom, when and by who?

### **Skull base endoscopic surgery**

Present and future of endoscopic skull base surgery  
Intraoperative "permissive hypotension" and brain monitoring  
Postoperative management

### **Surgery and chronical neurological diseases**

Surgery in Parkinson patients with and without DBS pacemarkers  
When to schedule surgery after stroke or with a dementia?  
Multiple sclerosis and surgery or other inflammatory challenges

### **Postoperative circuits**

Best recommended evaluation scores

Pharmacologic postoperative treatment (analgesia, PONV, ...)  
Candidates to ICU & overnight monitoring  
Redefining neurosurgical ambulatory surgery in 21st century

### **The new operating room for neurosurgery**

Neuronavigation, surgery and anesthesia  
Intraoperative MRI

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### **Coagulation**

Anticoagulants or Antiplatelet Aggregation agents and Neurosurgical or NeuroAngioRadiology Procedures  
How can we prevent deep venous Thrombosis in Neurosurgical or NeuroAngioRadiology Procedures?  
Intraoperative Massive Hemorrhage and Neurosurgical Procedures

### **COPD or "cognitive reserve"**

Cognitive reserve imaging  
Neuromarkers and POCD , Alzheimer disease.  
Cognitive reserve, how to know it for clinical -perioperative- purpose

### **Rehabilitation after Acute Brain Injury**

Transcranial magnetic stimulation  
Preconditioning  
Pharmacologic treatment

### **Surgery and Anesthesia at the extreme of ages: consequences for the brain**

Developing Brain  
Cognitive Decline

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### **Vasoactive Drugs with open or close duramater. Does it matter?**

Ephedrine, Phenylephrine, Norepinephrine  
Nitroglycerine, Clevidipine, Labetalol, Esmolol

### **Intraoperative pharmacological brain protection??**

Ketamine  
Dexmedetomidine  
Magnesium

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### **"Neuroscience Specialists"**

What specific knowledge do "neuroscience specialists" share?  
Neuroangioradiology and "Minimally invasive Neurosurgery" . Same skills?  
Continuing education /simulation.../resources: Standards for CME in neuroanaesthesia and neurocritical care

### **Safety and neuroscience**

Patients' experience after neurosurgery and neurocritical care: ask your patient.