



## SUMMER SCHOOL

PROGRAM CODE  
SS017-07

PROGRAM DURATION  
5 Days

DATES  
26-30 June 2017

CREDITS  
3 ECTS

TUITION  
450 € for residents  
and in training stu-  
dents 700 € for pro-  
fessionals (Tuition  
fee includes all les-  
sons and activities,  
coffe break, lunches  
and social activities  
offered by the Sum-  
mer School).

University of Milano-Bicocca — Monza Campus  
School of Medicine and Surgery

# NEUROINTENSIVE CARE: BICOCCA UPDATE 2017

## DESCRIPTION OF THE COURSE

NeuroIntensive Care: Update 2017" Summer School is designed to help intensive care residents and staff improve the management of severe neurological emergencies. The goal of this clinically-oriented week is to provide intellectual interaction with leading experts, to gather the essential information needed to treat neurological/neurosurgical patients, including traumatic brain injury, subarachnoid hemorrhage and intracranial hemorrhage. Our target audience includes staff doctors/residents working in ICUs, as well as neurosurgeons and neurologists. "NeuroIntensive Care: Update 2017" demonstrates a collaborative, multidisciplinary approach and provides a consistent set of basic knowledge, updated treatment strategies, practical examples (including hands-on simulations), to use during patient management. In a week period, the participants will be intensively exposed to lecture on topic ranging from basic concepts to monitoring systems and treatment strategies in traumatic and non traumatic neuroemergencies (traumatic brain injury, ischemic and vascular strokes, neuroinfections, ...). The practical part will cover neuroradiology interpretation, the neuromonitoring at the bedside (including ICP, ptO2, qEEG,...), echography in neurocritical care.

### Contents covered:

Applied neuropathophysiology; Coma and altered consciousness states; Clinical evaluation at the bedside; CT scan: fundamentals in neuroemergencies ICP monitoring and treatment; CBF and CPP monitoring and optimization; Brain oxygenation monitoring and treatment; **Brain tissue biochemistry at the bedside**; Electrophysiology essentials for the intensivist; How to deal with the complexity of multimodal monitoring; Ischemic stroke in the ED and in ICU; Hypoxic-Ischemic encephalopathy in adults; Neuroinfectious Diseases; Metabolic encephalopathies; Neurosurgery in traumatic neuroemergencies; Neurosurgery in non traumatic neuroemergencies; TBI from pathophysiology to treatment; **Spinal cord injury**; Subarachnoid hemorrhage Intracerebral hemorrhage; Perioperative Neurosurgical Critical Care; Seizures/SE; **Advanced neuroimaging**; Neurorepair and neurorestoration; Long term outcome; Brain death and organ donation.

### Practical part

Visit of the NICU; Setting the ventilator; CP insertion and management - practical hints; Brain oxygen - practical hints; Ecography and doppler in NICU.

**Program Coordinator:** Giuseppe Citerio

**Location:** University of Milano-Bicocca - Monza Campus

**Application deadline:** 30th March 2017

**Prerequisites:** residents in Anesthesia and Intensive Care, Neurosurgery, Neurology; Specialist in Anesthesia and Intensive Care, Neurosurgery, Neurology

Requested documents to be uploaded in the application form: CV, ID card/ passport

**For further information, contact:** [neurorianimazione@unimib.it](mailto:neurorianimazione@unimib.it)

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### Admission criteria

Each Summer School Program has different Admission Criteria, although General Criteria for all Summer Programs are as follows:

- Applicants should be 18 years old
- Applicants should have completed at least one year of college or enrolled in the first-year

### English language proficiency

English proficiency is required for all summer school programs offered by University of Milano-Bicocca. Though we don't ask for a formal English certification, but what we expect is:

- Your oral comprehension and expression must be sufficient for effective class participation.
- Your reading comprehension and writing skills must be sufficient for responding clearly and accurately for course assignments
- Your comprehension and communication skills must be sufficient for individual/group interaction