



# NEUROSURGICAL BASICS

6th Edition

**COURSE DIRECTORS:**

**GIANNANTONIO SPENA, CESARE ZOIA**

**IN COLLABORATION WITH:**

**EANS YOUNG NEUROSURGEONS COMMITTEE,  
YOUNG NEUROSURGEONS NETWORK,  
SEZIONE GIOVANI SINCH**

**DAY 1 (ON LINE): 6TH MAY 2023**

**DAYS 2 (ON SITE): 9TH - 10TH - 11TH MAY 2023**

Drilling, burr holes, craniotomies, microsutures, suturing in uncomfortable conditions, anterior and posterior cervical spine, anterior and posterior lumbar spine, dissection, dexterity, microscope, endoscope, exoscope, navigation

**THE COURSE IS TOTALLY FREE OF CHARGE**

**CREATORS OF THE FORMAT:**

**DANIELE BONGETTA, CESARE ZOIA**





# OBJECTIVES

This 2 days course aims to increase surgical skills and learn the fundamentals of using the high speed drill/craniotome and execution of microsutures through practical exercises on hyper realistic simulators.

Develop microsurgical dissection skills on biological preparations and simulators and familiarize with tools such as the microscope, endoscope, the exoscope and the navigation system.

Learn the fundamentals of the most common approaches to the spine through practical exercises.

# TARGET

First - second year for residents, last year for medicine students accepted in Neurosurgery training programmes.

# LOCATION

Laboratorio di Chirurgia Sperimentale, Universita' degli Studi di Pavia, via Ferrata 9/A - 27100, Pavia, Italy.

# FACULTY

**COURSE COORDINATORS:** DANIELE BONGETTA, GIUSEPPE MARIA DELLA PEPA, EVANGELOS DROSOS, ERIKA FERRARI, MARISA GANDIA, FRANCESCO GUERRINI, FEDERICO NICOLSI, GIOVANNI RAFFA, LUCA RICCIARDI, TERESA SOMMA, MATTEO ZOLI

**TUTORS:** CINZIA BAIANO, CHIARA CAGGIANO, CRESCENZO CAPONE, ALESSANDRO GARRETTA, LUCA COLOMBO, MATTIA DEL MAESTRO, ANDREA DE ROSA, FLAVIA FRASCHETTI, ANTONELLA MANGRAVITI, GIORGIO MANTOVANI, CIRO MASTANTUONI, PIER PAOLO MATTOGNO, NICOLA MONTEMURRO, FRANCESCO SALOMI, LUIGI SAMPIRISI, ALBA SCERRATI, ANTONINO SCIBILIA, ROCCO SEVERINO, FABIO SPANU, LUCA ZANIN



# PROGRAM

DAY 1 on-line, 6th MAY 2023 (2pm - 4pm CET)

- 2.00: Greetings from the EANS YNC Chair - Marisa Gandia
- 2.05: Greetings from the EANS YNN - Evangelos Drosos
- 2.10: Greetings from SINch - Teresa Somma
- 2.15: Greetings from SINch Sezione **Giovani Chair** - Giuseppe Maria Della Pepa
- 2.20: Greeting from Course Directors and Course presentation - Giannantonio Spena, Cesare Zoia
- 2.30: Microsurgical sutures – Daniele Bongetta
- 2.50: High-speed drill – Giovanni Raffa
- 3.10: Spinal approaches - Luca Ricciardi
- 3.30: Endoscopic transnasal approach - Matteo Zoli
- 3.50: Microsurgical exploration and manipulation - Federico Nicolosi
- 4.10: Final remarks - Giannantonio Spena

DAY 2 on site, 9 vs 10 vs 11 May 2023(10am - 6pm CET)

- 10.00: Registration
- 10.10: Briefing and illustration of the exercises - Cesare Zoia
- 10.30: Practical exercises - Faculty
- 1.10: Lunch break
- 2.00: Practical exercises - Faculty
- 4.00: Coffee break
- 4.20: Practical exercises - Faculty
- 5.40: Final remarks - Giannantonio Spena

## AWARDS

**BEST MICROSUTURE:** MYCRO Training System for microvascular anastomosis and microsutures by UpSurgeOn

**BEST IN SPINE:** SPINAL CADAVER LAB by SpineArt



# EXERCISES

Practical exercises (17 stations 20 minutes per station)

1. DRILLING: high speed drill, eggs
  2. DRILLING/BURR HOLES: high speed drill, perforator, cranial models
  3. CRANIOTOMY: high speed drill, cranial models
  4. MICROSUTURE: microscope, microsurgical instruments
  5. MICROSUTURE: microscope/loopes, microsurgical instruments
  6. DISSECTION/DEXTERITY: microscope, microsurgical instruments, needles, grapes
  7. SUTURE IN UNCOMFORTABLE CONDITIONS: microsurgical instruments, reducer
  8. SUTURE IN UNCOMFORTABLE CONDITIONS: microsurgical instruments, reducer
  9. SUTURE IN UNCOMFORTABLE CONDITIONS: microsurgical instruments, box
  10. DISSECTION: microscope, microsurgical instruments, bovine brain
  11. MICROANATOMICAL EXPLORATION: exoscope, microsurgical instruments, simulators
  12. ANTERIOR CERVICAL SPINE: spine models, spinal instrumentation, high speed drill
  13. POSTERIOR CERVICAL SPINE: spine models, spinal instrumentation, high speed drill
  14. ANTERIOR LUMBAR SPINE: spine models, spinal instrumentation, high speed drill
  15. POSTERIOR LUMBAR SPINE: spine models, spinal instrumentation, high speed drill
  16. ENDOSCOPE: endoscope, TNS simulators
  17. NAVIGATION: navigator, cranial/spine models
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# SPONSORS

**INFO AND PRE-REGISTRATION:** [gioiaoffice@gmail.com](mailto:gioiaoffice@gmail.com)