NEUROSURGERY FUNDAMENTAL SKILLS WORKSHOP

Trauma, Hydrocephalus and Biopsy - Fundamental course

May 2-3-4, 2019 Ghent, Belgium



Course Directors

Dr. Pablo Gonzalez, Department of Neurosurgery, Hospital General Universitario of Alicante, Spain Prof. Stefan Wolfsberger, Department of Neurosurgery, Medical University of Vienna, Austria

Faculty TBD

Dr. Kemal Ahmet, United Kingdom

Accreditation

An application for accreditation will be submitted with UEMS/EACCME and RIZIV

Modules

Modules will be based on case scenarios as follows:

Module 1: Trauma: 1. Epidural hematoma, 2. diffuse cerebral swelling, 3. chronic subdural hematoma Module 2: Hydrocephalus: 1. Acute hydrocephalus, 2. Chronic hydrocephalus, 3. Obstructive hydrocephalus due to a third ventricle lesion

Module 3: Biopsy: 1. Cortical tumors, 2. Deep supratentorial lesions, 3. Brainstem & posterior fossa lesions

Thursday, May 2, 2019

Venue: Orsi Academy, Ghent, Belgium

- 8:00 Welcome & Objectives of the training Prof. Wolfsberger & Dr. Gonzalez
- 8:15 Course introduction, goals and expectations Prof. Wolfsberger & Dr. Gonzalez
- 8:45 Ask the expert Q&A session: anatomy, disease state, indications, OR workflow review Prof. Wolfsberger & Dr. Gonzalez
 - Module 1: Trauma procedures: from planning to cranial closure Dr. Gonzalez & Dr. Ahmet
- 9:45 Introduction to trauma procedures: assessment and procedure planning followed by access and patient monitoring, based on 3 different case scenarios Dr. Gonzalez
- 10:15 Coffee break
- 10:30 Hands-on assessing and planning the procedure: how much planning and assessment is there in a traumacase? – Dr. Gonzalez
- 11:00 Hands-on cranial access: choosing the right tool in Trauma cases, MR drills for cranial procedures: motors, basic attachments and dissecting tools Dr. Ahmet
- 12:30 Lunch
- 13:30 Hands-on Cranial access, free hand burr holes, burr holes with cranial perforator, craniotomy, craniectomy, subdural hematoma Dr. Gonzalez, Prof. Wolfsberger, Dr. Ahmet
- 15:30 Coffee break
- 15:45 Eggshell dissection & practice (competition) Dr. Gonzalez, Prof. Wolfsberger, Dr. Ahmet
- 16:15 Hands-on cranial access: subdural evacuating systems Dr. Gonzalez, Prof. Wolfsberger, Dr. Ahmet
- 17:45 Q&A and Recap day 1
- 18:15 End of program day 1

20:00 Group dinner

Friday, May 3, 2019

Venue: Orsi Academy, Ghent, Belgium

- 8:15 Review and Quiz day 1 Dr. Gonzalez, Prof. Wolfsberger
- 8:30 Troubleshooting and pitfalls, case-based presentations Dr. Gonzalez
- 9:15 Cranial closure and patient monitoring lecture, closing techniques and practice: osteosynthesis, suturing techniques in ICP monitoring Dr. Gonzalez



9:45 Review of module 1: Trauma: from planning to cranial closure - Dr. Gonzalez, Prof. Wolfsberger, Dr. Ahmet 10:30 Coffee break

Module 2: Hydrocephalus: from planning to implant and cranial closure

- 10:45 Introduction to Hydrocephalus: plan, access, navigate and close, what you need to know about hydrodynamic principles and ICP, choosing the right procedure/shunt for the right patient, based on 3 different scenarios Dr. Gonzalez
- 11:45 Planning the procedure: the basics of navigation in a Hydrocephalus/shunt procedure: Exams import, Surgical navigation system planning, patient registration, introduce surgical navigation system merge, models, trajectories – Prof. Wolfsberger
- 12:15 Lunch
- 13:15 Hands-on cranial access and navigated shunt placement: choosing the right tool for the procedure, valves, catheters, reservoirs, ports, navigated shunt procedure Stealth EM TBD
- 14:30 Troubleshooting & pitfalls, knowing what to do when the shunts do not work TBD
- 15:00 Coffee break
- 15:15 Infection control, procedure related infections and device related infections, intracranial infections epidural & subdural empyema, meningitis and brain abscesses Dr. Gonzalez, Prof. Wolfsberger
- 16:45 Review of module 2: Hydrocephalus: from planning to cranial closure Dr. Gonzalez, Prof. Wolfsberger

17:15 End of program day 2

Saturday, May 4, 2019

Venue: Orsi Academy, Ghent, Belgium

8:00 Review and Quiz day 2

Module 3: Biopsy: from planning to cranial closure – Prof. Wolfsberger

- 8:15 Introduction to cranial biopsy procedures: plan, access, navigate and close, based on 3 different case scenarios Prof. Wolfsberger
- 9:00 Hands-on navigated biopsy procedure: basics of navigation, navigated procedures and multimodality imaging, exams import, Surgical navigation system planning, patient registration, introduce surgical navigation system merge, models, trajectories Prof. Wolfsberger
- 10:30 Coffee break
- 10:45 Hands-on cranial access and biopsy extraction ctd.: choosing instruments for the biopsy procedure, navigated biopsy, biopsy trajectory kits and orientation aiming device Prof. Wolfsberger
- 11:45 Navigation troubleshooting in Biopsy procedures, how to correct flipped images, Line of sight issues, intermittent tracking, metal interference Prof. Wolfsberger
- 12:45 Lunch
- 13:45 Review of module 3: Biopsy: from planning to cranial closure Prof. Wolfsberger, Dr. Gonzalez
- 14:15 Course conclusion: bringing it all together: cranial procedures from planning to closure
- 15:30 Closing Q&A and Quiz related to all modules

16:00 End of program

EUROPEAN CONTINUING MEDICAL TRAINING PLUS