From Simulation to Cadlab

BASIC BRAIN SURGERY COURSE

Course Directors
Francesco DiMeco
Karl Schaller

Milano, Italy, 20th - 21st January 2020
Geneva, Switzerland, 22nd - 24th January 2020
Dear Colleagues,

We are delighted to invite you to the second edition of the Basic Brain course organized by the Besta NeuroSim center and the SWISS Foundation for Innovation and Training in Surgery (SFITS).

The basics of neurosurgery will be taught by combining face to face lectures with experiential learning. We prepared interactive training modules based on case-studies, demos, techniques presentations, group discussions, simulation exercises, haptic-feedback computerized neurosurgical operations, role-plays, debriefs and self-report evaluation.

During the theoretical courses basic surgical techniques will be taught. You will have the opportunity to exercise these techniques on simulators as well as on anatomical specimens. Your non-technical skills will improve as well, especially when performing the modules on ethics, communication, resilience, empathy, and stress management. These soft skills are crucial for all neurosurgeons.

At the end of the course, every candidate will receive a personal evaluation from the faculty members.

On behalf of our team and our partners, we hope to welcome you to this fruitful hands-on course.

We look forward to seeing you in Milano and Geneva and working with you.

Alessandro Perin MD
Scientific Director at Besta NeuroSim Center
Carlo Besta Neurological Institute

Carlo Besta Neurological Institute

Andrea Bartoli MD
Department of Neurosurgery
University Hospital Geneva

Francesco DiMeco MD
Chairman of the Department of Neurosurgery
The Foundation I.R.C.C.S.
Carlo Besta Neurological Institute

Karl Schaller MD
Chairman of the Department of Neurosurgery
University Hospital Geneva

Philipp Dammann MD
Department of Neurosurgery
University Hospital Geneva

Karl Schaller
Chairman of the EANS Training Committee

University of Duisburg-Essen

Francesco DiMeco
Chairman of the Department of Neurosurgery
University Hospital Geneva
The number of participants is limited to 12 in order to provide each resident the opportunity for meaningful interaction with the faculty and a tailored access to simulators and cadavers during the hands on sessions.

You will receive by email the 16 Personality Factor Questionnaire which should be completed before the training.

The other tests, such as The Raven’s Advanced Progressive Matrices (APM), The Spatial Ability Test (SPA) and The Purdue Pegboard Test (PBT) will be carried out during the first two days of the course.

Accreditation
- The course is done under the auspices of EANS, SYNS, Swiss Society of Neurosurgery and Società Italiana di Neurochirurgia (SINch).

Objectives
- Get a clear practical overview of basic cranial surgical techniques;
- Understanding pitfalls of basic cranial surgical techniques;
- Discuss and debate patient selection and contraindications;
- Gain a thorough understanding of pre-operative imaging;
- Discuss case studies with expert faculty.

By the end of the program, participants will have a deep knowledge on:
- Surgical indications for some key neurosurgical cranial conditions;
- How to perform emergency procedures in brain surgery;
- The basic approach for elective cranial surgery and related “tips and tricks”;
- The multidisciplinary approach required for complex cases.

Audience
The course is open for junior neurosurgeons (1st-3rd years of residency).

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- Discuss case studies with expert faculty.

Registration
- Price of the course is 1’950 EUR for 5 days.

It includes:
- Tuition fees
- Train between Milano and Geneva on the 22nd of January 2020
- Lunches and coffee breaks
- Course dinner

To register, please send an email to inscription@sfits.ch with the following information:

Title of the course: Basic Brain Course: From Simulation to Cadlab
Full name; Title City Address Phone Hospital Year of Residency

Your participation will be confirmed by the 31st of November 2019. The course fee should be transferred by the 7th of December to the below SFITS account:

Beneficiary: Swiss Foundation for Innovation and Training in Surgery
Bank name: Crédit Suisse (Suisse) SA
Clearing: 4835
IBAN: CH25 0483 5162 4007 9100 1
BIC/SWIFT: CRESCHZZ80A
Mention: Basic Brain Course

The five-day program consists of lectures, simulation exercises, case studies, hands-on experiences and group discussions.

Date

Milano 20th - 21st of January 2020

Geneva 22nd - 24th of January 2020

Venue
SFIGS
SWISS Foundation for Innovation and Training in Surgery
Rue Gabrielle-Pernet-Gentil 4, 1205 Geneva, Switzerland
+41 22 322 9100
email: inscription@sfits.ch

BESTA NEUROSIM CENTER
Fondazione IRCCS Istituto Neurologico Carlo Besta
Via Giovanni Celoria 11, 20133 Milano
+39 0223912180
email: bestaneurosim@gmail.com

Travel plan
You will need one hour and half from the Malpensa Airport and one hour from Linate Airport to the Besta NeurSim Center. If you come by train, you will need 30 min from the Milano railway station.

The course will finish on Friday 24th of January at 4PM in Geneva. You will need 45 min to the Geneva airport and 30 min to the Geneva railway station.
Day 4

08:00 - 08:30 Welcome coffee

08:30 - 11:00 Cad Lab Session

EVD placement and Burr holes for CSDH treatment
  by A. Perin

Performing EVDs and Burr holes on models and cadavers

11:00 - 11:30 Coffee break

11:30 - 14:00 Cad Lab Session

Supratentorial decompressive craniectomy
  by T. Meling

Performing supratentorial decompressive craniectomy on cadavers

14:00 - 14:30 Lunch

14:30 - 17:30 Cad Lab Session

Infratentorial decompressive craniectomy
  by A. Bartoli

Practicing on infratentorial decompressive craniectomy on cadavers

19:00 Course dinner

Day 5

08:00 - 08:30 Welcome coffee

08:30 - 09:30 Case discussion
  by A. Moiraghi

09:30 - 12:00 Cad Lab Session

Planning convexity craniotomies with or without navigation
  by F. DiMeco

Principles of crossing sinus craniotomies
  by P. Dammann

Performing convexity parietal craniotomies and crossing SSS sinus on cadavers

12:00 - 12:30 Lunch

12:30 - 15:00 Cad Lab Session

Pterional craniotomy
  by T. Meling

Performing pterional craniotomy on cadavers

15:00 - 15:30 Self-evaluation and discussion with faculty members

15:30 End of the course

Course evaluation will be provided as an online survey

Day 3

08:15 Meeting in Milano Centrale

08:23 Departure to Geneva by Train

12:21 Arrival to Geneva

12:45 - 13:30 Lunch at the SFITS and presentation of the training center

13:30 - 15:30 Cad Lab Session

External cranio-cerebral landmarks
  by K. Schaller

Cortical landmarks in CT and MRI imaging
  by K. Schaller

Practicing on positioning of the patient and head on the table and in
  an headholder

Instruments “needed to know” to
  perform craniotomies

Set up of surgical table and OR

15:30 - 16:00 Coffee break

16:00 - 17:30 Cad Lab Session

Drilling session

17:30 End of the day

Day 2

08:00 - 08:30 Welcome coffee

08:30 - 09:00 Debrief of Day 1

09:00 - 13:00 Story #2, Sim/discussion activities

13:00 - 14:00 Lunch

14:00 - 18:00 Story #3, Sim/discussion activities

18:00 End of day

Day 1

“All is well what ends well: a strange meningitis, a complicated clinical evolution, plenty of neurosurgery with a happy ending”

Activity description: interactive group discussion with patients/actors, neurosurgery simulation activities and operations performed with ImmersiveTouch, NeuroTouch, VP reveal, Surgical Theater, and simulation mannequins (lumbar puncture, dura opening, closure, tumor models removal)

Story #1

08:00 Registration and welcome coffee

08:30 - 09:00 Presentation of Besta NeuroSim Center and the faculty

09:00 - 13:00 Story #1 - part 1, Sim/discussion activities

13:00 - 14:00 Lunch

14:00 - 18:00 Story #1 - part 2, Sim/discussion activities

18:00 End of day

Story #2

“Learning how to break bad news: a supposedly straightforward diagnosis turns out to be much worse”

Activity description: interactive group discussion with patients/actors, neurosurgery procedures simulated with ImmersiveTouch, NeuroTouch, VP reveal, Surgical Theater, and simulation mannequins (lumbar puncture, dura opening, closure, tumor models removal)

Story #3

“The importance of being Ernest: learning how to give a thorough informed consent”

Activity description: interactive group discussion with patients/actors, neurosurgery simulation activities and operations performed with ImmersiveTouch, NeuroTouch, VP reveal, Surgical Theater. 3D immersive platforms will also be used to do patient consultation.

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13:30 - 15:30 Cad Lab Session

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15:30 - 16:00 Coffee break

16:00 - 17:30 Cad Lab Session

Drilling session

17:30 End of the day
Are you a PGY1-2-3 neurosurgeon?

If so, apply for your first provisional driving license in neurosurgery!

Patronage:

Sponsors: