Hands-on Training Course

6th European Cerebral Revascularization and Endovascular Stroke Treatment Course

Hands-on Microsurgical Training
October 27th – 30th 2010

Endovascular Stroke Treatment Course
October 28th – 29th 2010

Inselspital Bern, University of Bern, Switzerland

Endorsed and accredited by the Swiss Society for Neurosurgery, Swiss Society for Neurology and Swiss Society for Neuroradiology (CME)
Course Objectives

Dear Colleagues,

We are pleased to announce the 6th European Cerebral Revascularization and Endovascular Stroke Treatment Course. This year’s course presents an innovative program by offering the unique opportunity of multidisciplinary case discussions and hands-on training in microsurgical and endovascular revascularization techniques. The course is unique in its kind. Combining plenum sessions, technical training, and dealing with the future curricula of neurosurgeons and neuroradiologists, it will foster improvement in treatment of cerebrovascular disease and advance research in this complex field, leading to technical developments.

Our course aims are:

1) Participants will have abundant opportunities to practice microsurgical vascular anastomosis and endovascular techniques hands-on.

2) The course will present the fundamentals as well as the latest up-dates on cerebral hemodynamics and cerebral metabolism. The current clinical concepts and thinking in cerebral revascularization will be presented by an internationally renowned faculty.

3) The integration of endovascular and microsurgical revascularization techniques and expertise into one course is unique. Participants will have the opportunity to take part in multidisciplinary case managements.

The organizing committee and faculty look forward to meeting you in Bern.
<table>
<thead>
<tr>
<th>Name</th>
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In collaboration with:
Faculty

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Martin Wiesmann, MD
Neuroradiology, RWTA Aachen, Germany
Topics and Venue

Hands-on Microsurgical Training and Endovascular Stroke Treatment Course
October 27th – 30th 2010

Endovascular Stroke Treatment Course
October 28th – 29th 2010

Inselspital Bern, University of Bern, Switzerland
Institute of Pathology
Murtenstrasse 31, CH-3010 Bern
Local map: www.pathology.unibe.ch

Wednesday, 27th October 2010

Afternoon 1.00 p.m.
Institute of Pathology at the University of Bern, Switzerland

Course start and welcome of the «microsurgical participants»

Microsurgery hands-on: part I
- receipt of personal microinstrument set
- microsuture technique and in-vitro training device
- animal handling and anesthesia

Demonstration hands-on: part I
- ELANA technique and clinical application
- in vitro-training station

End of the course 6.00 p.m.
Thursday, 28th October 2010

**Morning 8.00 a.m.**
Institute of Pathology at the University of Bern, Switzerland

**Theory section: microsurgical and endovascular participants**
Course start and welcome of the «endovascular participants»

**Theory part I: cerebrovascular patho-physiology**
(8.00 a.m – 9.15 a.m)
- vascular territories and collateralization
- cerebrovascular hemodynamics and brain metabolism
- online monitoring techniques (CBF, brain tissue oxygenation, NEARS)
- intraoperative angiography

*Coffee break and booth visit 30 minutes*

**Theory part II: revascularization techniques**
(9.45 a.m – 12.45 p.m)
- extracranial cerebral revascularization:
  - carotid stenosis: the golden standard for treatment
  - carotid stenosis: endovascular treatment
  - carotid stenosis: carotid endarterectomy

- intracranial cerebral revascularization:
  - intracranial carotid stenosis: is there a golden standard for treatment
  - microsurgery, microanastomosis:
    - high-flow bypass
    - low-flow bypass
  - endovascular: intracranial stents

- donor vessels: techniques for optimal harvesting

- anti-platelet and anticoagulation in revascularization procedures
  - physiology of anticoagulation and antiplatelet treatment

- round table (microsurgical and endovascular)

*Lunch (provided) 12.45 p.m. – 1.30 p.m.*
Thursday, 28th October 2010

Afternoon 1.30 p.m.

Microsurgery hands-on: part II
- hands-on microvascular training in-vivo (rat):
  - end-to-end carotid artery
  - end-to-side carotid artery-jugular vein
  - essentials in microsurgical training: tricks of the trade
  - essentials in perioperative anticoagulation/antiaggregation

Demonstration hands-on: part II
- ELANA: SELANA
- sutureless end-to-end anastomosis in vitro
- demonstration sutureless end-to-end anastomosis in the pig femoral artery

Endovascular hands-on: part I
- hands-on endovascular training:
  - thromboembolectomy devices
  - stents
  - protection devices
- in-vivo endovascular training: pig model

End of the course 5.30 p.m.

Evening Special Event (Dinner) 7.30 p.m.
organized by Aesculap Akademie, Switzerland

Dinner for participants and faculty

Meeting point at 7.30 p.m. at:
Restaurant Rosengarten
Alter Aargauerstalden 31b
3006 Bern
www.rosengarten.be
Friday, 29th October 2010

Morning 8.00 a.m.
Institute of Pathology at the University of Bern, Switzerland

**Theory section: microsurgical and endosvascular participants**

Welcome and organizational information

**Theory Part III: stroke treatment**
(8.00 a.m. – 9.45 a.m)
- carotid artery stroke
- basilar artery stroke state of the art
- dissection treatment
- endovascular treatment of dissection
- tips and tricks of endovascular treatment
- moyamoya treatment objectives

_Coffee break and booth visit 30 minutes_

**Clinical decision making / case presentations**
(10.15 a.m. – 12.00 a.m.)
- clinical application of the ELANA technique
- clinical application of flow diverters
- case presentations

*Lunch (provided) 12.00 a.m. – 1.00 p.m.*
Friday, 29th October 2010

Afternoon 1.00 p.m.

**Microsurgery hands-on: part III**
- hands-on microvascular training in-vivo (rat):
  - end-to-side carotid artery-jugular vein
  - end-to-end femoral artery
- microsurgery: permeability test of a microanastomosis for certification

**Demonstration hands-on: Part III**
- cPAX aneurysm treatment in aneurysms
- perfluorcarbon (oxycyte) in experimental subarachnoid hemorrhage

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**Endovascular hands-on: part II**
- hands-on endovascular training:
  - thromboembolectomy devices
  - stents
  - ballons
  - protection devices
- in-vivo endovascular training: pig model
- certification endovascular participants

End of the course for endovascular participants

End of the course 6.00 p.m.
Saturday, 30th October 2010

Morning 8.00 a.m.
Institute of Pathology at the University of Bern, Switzerland

Hands-on section: microsurgical participants

Microsurgery hands-on: part IV
- hands-on microsurgery anastomosis training and test
- hands-on endovascular training for microsurgeons:
  - thromboembolectomy devices
  - stents
  - protection devices
- In-vivo endovascular training device
- certification microsurgery participants

End of the course 1.00 p.m.
Terms and Conditions

Registration fee

**Hands-on Microsurgical Training and Endovascular Stroke Treatment Course**
October 27th – 30th 2010
Registration fee CHF 1500.00 or Euro 1042.00

**Endovascular Stroke Treatment Course**
October 28th – 29th 2010
Registration fee CHF 800.00 or Euro 556.00

**Evening Special Event (Dinner)**
organized by Aesculap Akademie
October 28th 2010
Registration fee CHF 50.00 or Euro 35.00

Number of participants is limited to maximum 60 for the hands-on training (first-registered basis):
- Max. 30 participants for the microsurgery sessions
- Max. 30 participants for the endovascular sessions

The hands-on microsurgical training and the endovascular training addresses neurosurgeons and neuroradiologists.

The registration fee for participants includes:
Course documentation, lunch, refreshments and for the hands-on course also all laboratory material and animals.

**Endorsed and accredited by the Swiss Society for Neurosurgery with 24 CME, Swiss Society for Neurology with 5 CME and Swiss Society for Neuroradiology (CME).**

You will receive the confirmation together with the invoice. Cancellations must be carried out in writing. Upon withdrawal up to 4 weeks prior to the start of the course, participation fees are refunded to 100%; up to 7 days before the start of the course, 50% of participation fees will be refunded. For later cancellations or absence from the course the full participation fees will be charged.

Organisation / Inscription

**Organisation / Contact person:**
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Exhibitors

AB MEDICA SAGL
Palazzo Gargantini
Via Marconi 2
CH-6900 Lugano
Switzerland
www.abmedica.it

BALT International
10 rue croix Vigneron
F-95160 Montmorency
France
www.balt.fr

INVAtec Technology Center
GmbH
Sales Switzerland
Hungerbüelstrasse 12
CH-8500 Frauenfeld
Switzerland
www.invatec-swiss.ch

Boston Scientific AG
Dornacherplatz 7
CH-4500 Solothurn
Switzerland
www.bsci.com

Penumbra Europe GmbH
Friedrichstrasse 50
D-10117 Berlin
Germany
www.penumbrainc.com

Phenox GmbH
Lise-Meitner-Allee 31
D-44801 Bochum
Germany
www.phenox.info

Buchhandlung für Medizin
Murtenstrasse 17
Postfach 27
CH-3010 Bern
Switzerland
Accommodation

We have reserved some rooms from 26th to 31st October 2010 at the following hotels in Bern.

We recommend that you book at least four weeks in advance directly with the hotel. You will receive special rates by mentioning the «Aesculap Akademie» course.

Bellevue Palace*****
Kochergasse 3-5, CH-3000 Bern 7
Phone +41 31 320 45 45, Fax +41 31 320 46 46,
e-mail: info@bellevue-palace.ch, www.bellevue-palace.ch
CHF 387.00 – CHF 408.00 per night (breakfast CHF 36.00)

Novotel Bern Expo***
Am Guisanplatz 2, CH-3014 Bern
Phone +41 31 339 09 09, Fax +41 31 339 09 10
e-mail: h5009@accor.com, www.novotel.com
CHF 160.00 per night (breakfast CHF 25.00)

Hotel Ibis***
Am Guisanplatz 2–4, CH-3014 Bern
Phone +41 31 335 12 00, Fax +41 31 335 12 10,
e-mail: h5009@accor.com, www.ibishotel.com
CHF 152.00 per night (breakfast CHF 15.00)

Sorell Hotel Ador***
Laupenstrasse 151, CH-3001 Bern
Phone +41 31 388 01 11, Fax +41 31 388 01 10
e-mail: info@hotelador.ch, www.hotelador.com/
CHF 135.00 per night (incl. breakfast)
Venue

Institute of Pathology, University of Bern
Murtenstrasse 31, CH-3010 Bern, www.pathology.unibe.ch

From the bus stop to the Institute of Pathology
By bus (line nr. 11, direction ‘Güterbahnhof’) from the main railway station to bus stop ‘Inselspital’ (2nd stop after railway station). From the bus stop ‘Inselspital’ you reach the opposite side of Murtenstrasse over a pedestrian crossing at the red light. Follow Murtenstrasse in the same direction as the bus for another approx. 150 m to reach the Institute of Pathology (see map).

From the ‘Insel parking’ to the Institute of Pathology
An underpass brings you from the ‘Insel Parking’ to the opposite side of ‘Murtenstrasse’. From there through Murtenstrasse or via the access road to the emergency room to the Institute of Pathology.

Local map: www.pathology.unibe.ch
Please complete an individual reply card for each participant.
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October 28th 2010
Registration fee CHF 50.00 or Euro 35.00

hospital address

private address

Mr

Ms

Title

First name, Surname

Department

Hospital

Street / No.

Postcode / Town

Country

Phone

Fax

E-Mail

Date / Signature

Please send an invoice
I would like to pay by credit card

VISA

MasterCard

American Express

The cardholder’s name (exactly as embossed on the card)

Card number

 Expiry date (MM / YY)

CVC2 / CVV2 code (3-digit number found on the reverse side of card)
Designed as a Forum for Communication in Medicine, the Aesculap Akademie has dedicated itself to facilitating interdisciplinary dialogue and providing knowledge transfer from person to person.

Topics range from state-of-the-art medical practices, via public health issues, to controversial scientific discussions. Multimedia equipment allows links to experts around the world, while hands-on workshops provide you with tips and tricks from specialist surgeons.

Partnerships and associations with internationally recognized institutions guarantee a global focus on current medical issues. Discover the unique worldwide learning experience of the Aesculap Akademie and ask for information on our program today.