Hands-on Training Course

7th European Cerebral Revascularization and Endovascular Stroke Treatment Course

Hands-on Microsurgical Training Course
October 19th – 21st 2011

Endovascular Stroke Treatment Course
October 20th – 21st 2011

Inselspital Bern, University of Bern, Switzerland
Institute of Anatomy and Institute of Pathology, Bern

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

Dear Colleague,

We welcome you cordially and are looking forward to see you at this interesting meeting in Bern.

This course is unique in its kind: it has been updated every year by adding the latest technical advances and the newest treatment options; by combining plenary sessions and technical hands-on training. Consequently, understanding and treatment of cerebrovascular pathologies shall be improved. This years addition comprises the latest stenting technologies, intravascular stem cell treatment, and the integration of the bypass nuances of vascular surgery important for neurovascular therapy.

Our course aims are:
1) Participants will have abundant opportunities to practice microsurgical vascular anastomosis and endovascular recanalisation and stroke treatment techniques in hands-on trainings, both in-vitro and in-vivo.
2) The course will present the fundamentals as well as the latest up-dates on cerebral hemodynamics, cerebral metabolism and stroke treatment. The current clinical concepts and decision making 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.

We encourage you to bring cases from your practice for discussion on Friday morning!

Looking forward to meeting you!
The Organizing Committee

Michael Reinert, MD  Luca Regli, MD, PhD  Gerhard Schroth, MD
Jan Gralla, MD, M.Sc  Andreas Raabe, MD  Caspar Brekenfeld, MD
Robert Andres, MD
Organizing Committee

<table>
<thead>
<tr>
<th>Organizing Committee Member</th>
<th>Position</th>
<th>Institution</th>
<th>Phone</th>
<th>Email</th>
</tr>
</thead>
<tbody>
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</tbody>
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In collaboration with:

[Logo of AESCULAP ACADEMY]
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MicroVention, USA

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Neuroradiology, University of Dresden, Germany

Martin Wiesmann
Neuroradiology, RWTH Aachen, Germany

Gregory Zipfel
Neurosurgery, Washington University, St. Louis, USA
Wednesday, 19th October 2011

Meeting point for MICROSURGICAL participants:

Institute of ANATOMY, University of Bern, Baltzerstrasse, 3010 Bern, Switzerland

From the bus stop to the Institute of Anatomy and from the parking Inselspital to the Institute of Anatomy

Turn left and follow the street «Bühlstrasse». After about 300 m you reach «Baltzerstrasse 2», turn left and take the entrance «Zellbiologisches Zentrum».
### Program

**Wednesday, 19th October 2011**

**Morning 9.00 a.m.**

**Institute of ANATOMY, University of Bern**

Registration and welcome coffee
9.00 a.m. – 9.30 a.m.

Course start and welcome of the «MICROSURGICAL participants»

<table>
<thead>
<tr>
<th>Microsurgery hands-on: part I</th>
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<tbody>
<tr>
<td>• receipt of personal microinstrument set</td>
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<tr>
<td>• microsuture technique and in-vitro training device</td>
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<tr>
<td>• animal handling and anesthesia</td>
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**Demonstration hands-on: part I**

Donor vessels: techniques for optimal harvesting, dimensions and positioning

**Lunch (provided)**
12.30 p.m. – 1.30 p.m.

**Afternoon 1.30 p.m.**

<table>
<thead>
<tr>
<th>Microsurgery hands-on: part II</th>
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<tr>
<td>• hands-on microvascular training in vivo (rat):</td>
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<tr>
<td>– end-to-end carotid artery</td>
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<td>– end-to-side carotid artery-jugular vein</td>
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<tr>
<td>– essentials in microsurgical training: tricks of the trade</td>
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<tr>
<td>– essentials in perioperative anticoagulation/antiaggregation</td>
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<tr>
<td>– demonstration end-to-end vascular coupler</td>
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</table>

• carotid endarterectomy (local anesthesia, patching technique, shunting)
• demonstration of the carotid artery endarterectomy training device
• anastomosis techniques in cardiovascular surgery

**End of the course 5.30 p.m.**
Meeting point for **MICROSURGICAL** and **ENDOVASCULAR** participants

Institute of **PATHOLOGY**, University of Bern
Murtenstrasse 31, CH–3010 Bern, Switzerland
www.pathology.unibe.ch

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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 Insitute of Pathology.
Thursday, 20th October 2011

Morning 8.00 a.m.
Institute of PATHOLOGY, University of Bern
Langhans Auditorium

Registration and welcome coffee
(7.30 a.m. – 8.00 a.m.)

Theory section: MICROsURgICAL and ENDOVAScULAR participants

Course start and welcome

Theory part I: cerebrovascular pathophysiology
(8.00 a.m – 9.15 a.m)
- vascular territories and collateralization
- cerebrovascular hemodynamics and brain metabolism
- intraoperative angiography
- novel vascular imaging techniques

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
    (symptomatic versus asymptomatic and timing of treatment)
  - carotid stenosis: endovascular treatment
  - carotid stenosis: carotid endarterectomy
- intracranial cerebral revascularization:
  - intracranial stenosis: is there a golden standard for treatment
  - endovascular: intracranial stents
  - emergency EC-IC bypass revisited
  - microsurgery, microanastomosis:
    • high-flow bypass
    • low-flow bypass
- 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, 20th October 2011

Afternoon 1.30 p.m.

Microsurgery hands-on: part II:
Institute of ANATOMY, University of Bern

Demonstration hands-on: part II:
- ELANA: SELANA
- intraoperative monitoring during revascularization procedures
- demonstration sutureless end-to-end anastomosis in the pig femoral artery

Endovascular hands-on: part I
Institute of PATHOLOGY, University of Bern
- hands-on endovascular training:
  - thromboembolectomy devices
  - stents
  - protection devices
- in-vivo endovascular training: pig model

End of the course 5.30 p.m.
Thursday, 20th October 2011

Evening Special Event 7.30 p.m.
Dinner for participants and faculty

organized by Aesculap Academy, Switzerland

Meeting point at 7.30 p.m. at:
Restaurant Rosengarten
Alter Aargauerstalden 31b
3006 Bern
www.rosengarten.be
Friday, 21st October 2011

Morning 8.00 a.m.
Institute of PATHOLOGY, University of Bern

Theory section: MICROSURGICAL and ENDOVASCULAR participants

Welcome and organizational information

Stem cells in stroke: surgical or endovascular application
intraarterial stem cell treatment for stroke
(8.00 a.m. – 8.25 a.m.)

Theory Part III: stroke treatment
8.25 a.m. – 10.00 a.m.
- anterior circulation stroke
- posterior circulation stroke state of the art
- dissection treatment
- endovascular treatment of dissection
- moyamoya disease/syndrom
- treatment of moyamoya

Coffee break and booth visit 30 minutes

Swiss Cerebral Bypass Group – Swiss Society of Neurosurgery
(10.30 a.m. – 10.40 a.m.)

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

Lunch (provided) 12.00 a.m. – 1.00 p.m.
Friday, 21st October 2011

Afternoon 1.00 p.m.

Institute of ANATOMY, University of Bern

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

Certification microsurgery participants

Institute of PATHOLOGY, University of Bern

Endovascular hands-on: part II
- tips and tricks of endovascular treatment

- hands-on endovascular training:
  - thromboembolectomy devices
  - stents
  - flow diverter
  - protection devices

- In-vivo endovascular training: pig model

Certification endovascular participants

End of the course 6.00 p.m.
## Registration fee

<table>
<thead>
<tr>
<th>Event</th>
<th>Date</th>
<th>Registration fee</th>
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<tbody>
<tr>
<td>Hands-on Microsurgical Training Course</td>
<td>October 19th – 21st 2001</td>
<td>CHF 1500.00</td>
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<tr>
<td>Endovascular Stroke Treatment Course</td>
<td>October 20th – 21st 2011</td>
<td>CHF 800.00</td>
</tr>
<tr>
<td>Evening Special Event (dinner for participants and faculty)</td>
<td>October 20th</td>
<td>CHF 75.00</td>
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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, certificate, lunch, refreshments and for the hands-on course also all laboratory material and animals.

**Endorsed and accredited by the Swiss Society for Neurosurgery with 15 CME, Swiss Society for Neurology with 3.5 CME and Swiss Society for Neuroradiology 23 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:**
- Helene Tuppinger
  - Manager Aesculap Academy
  - Phone +41 79 542 02 53

**Inscription:**
- Cornelia Kost-Fuchs
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  - cornelia.kost-fuchs@aesculap-akademie.ch
Sponsors

ab medica sagl
Palazzo Gargantini  |  Via Marconi, 2  |  CH-6900 Lugano
www.abcmedica.it

Acandis GmbH u. Co. KG
Theodor Fahrner Str. 6  |  D-75177 Pforzheim
www.acandis.com

BALT International
10 rue Croix Vigneron  |  F-95160 Montmorency
www.balt.fr

B.Braun Medical AG
Seesatz 17  |  CH-6204 Sempach
www.bb Braun.ch

Studentische Buchgenossenschaft Bern
Hochschulstrasse 4  |  CH-3012 Bern
www.bugeno-unibe.ch
Sponsors

MicroVention GmbH
Berliner Allee 61  |  D-40212 Düsseldorf
www.microvention.com

Mölnlycke Health Care AG
Heimstr. 18  |  CH-8953 Dietikon
www.molnlycke.com

Penumbra Europe GmbH
Am Borsigturm 44  |  D-13507 Berlin
www.penumbrainc.com

Salzmann Medico AG
Rorschacherstrasse 304  |  CH-9016 St.Gallen
www.salzmann-group.ch

TapMed GmbH
Gutshof 15  |  D-34270 Schauenburg-Hoof
www.tapmed.com
Accommodation

We have reserved some rooms from 18th to 21st October 2011 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 Academy» 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 308.00 per night (incl. breakfast)

Holiday Inn Bern Westside****
Riedbachstrasse 96, 3027 Bern
Phone +41 31 985 24 00, Fax +41 31 985 24 01
e-mail: reservation@hi-bw.ch, www.holidayinn.com/bernwestside
CHF 178.00 (incl. breakfast)

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 26.00)

Hotel Sternen***
Schwarzenburgstrasse 279, 3098 Koeniz Bern
Phone +41 31 978 14 14, Fax +41 31 978 14 18
e-mail: info@sternen-koeniz.ch, www.sternen-koeniz.ch
CHF 155.00 (incl. breakfast)
□ Hands-on Microsurgical Training Course
October 19th – 21st 2001
Registration fee CHF 1500.00

□ Endovascular Stroke Treatment Course
October 20th – 21st 2011
Registration fee CHF 800.00

□ Evening Special Event (dinner for participants and faculty)
organized by Aesculap Academy
October 20th October 2011
Registration fee CHF 75.00

hospital address  □ Mr
private address  □ Ms

Title ________________________
First name, Surname ________________________
Department ________________________
Hospital ________________________
Street / No. ________________________
Postcode / Town ________________________
Country ________________________
Phone ________________________ Fax ________________________
E-Mail ________________________
Date / Signature ________________________

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Horizons of Knowledge
Competence to master the future.

The Aesculap Academy enjoys a world-wide reputation for medical training of physicians, senior nursing staff and staff in OR, anesthesia, ward and hospital management. The CME accredited courses consist of hands-on workshop, management seminars and international symposia. For that the Aesculap Academy was given the Frost & Sullivan award as ‘Global Medical Professional Education Institution of the Year’ three time in succession.
Please complete an individual reply card for each participant.