Program

Joint Annual Meeting 2017
Swiss Society of Neurosurgery
Swiss Society of Neuroradiology
June 8-9, 2017

SSNR Educational Course
7th NeuroSpine Meeting
IG-NOPPS
June 9, 2017

Bern EXPO
ssns2017.congress-imk.ch
Welcome

Dear colleagues

We would like to cordially welcome you to the Joint Annual Meeting of the Swiss Society of Neurosurgery (SSNS), the Swiss Society of Neuroradiology (SSNR) together with the Association of Neurosurgical nursing staff Switzerland (IG-NOPPS), which will be held June 8-9, 2017 at the BernExpo, Switzerland.

We are delighted to announce several renowned speakers and to present an interesting and highly interdisciplinary program with joint sessions, free communications, poster presentations, a SYNS Session and interactive roundtable discussions. Main topics will be aneurysm, gliomas and neoplastic and vascular lesions of the spine.

The Joint Annual Meeting will for the first time be complemented by two other established meetings on June 9, 2017:

- the 7th NeuroSpine Meeting which is a perfect platform for an interactive exchange and debates between neurosurgeons, orthopaedic surgeons with a strong interest in spine surgery and experts from other disciplines.
- the SSNR Educational Course that provides state of the art education in neuro-imaging with selected clinically relevant topics.

Besides the scientific program, the congress also provides ample space for networking and to share your knowledge and enthusiasm with colleagues and friends. We wish you a successful and satisfactory stay, and thank you for your attendance and contributions.

PD Dr. med. Oliver Hausmann
President SSNS

Prof. Dr. med. Luca Remonda
President SSNR

Prof. Dr. med. Andreas Raabe
Congress Co-President, SSNS

Prof. Dr. med. Jan Gralla
Congress Co-President, SSNR
Welcome to the 7th NeuroSpine Meeting

NeuroSpine 2017 will take place during the annual conference of the Swiss Societies of Neurosurgery and Neuroradiology. For this reason, we have moved the location of the event from the Kursaal to the Bern EXPO.

In the morning, there will be a strong focus on vascular and neoplastic lesions of the spine. A joint session with AOSpine will specifically address the topic of chordomas, metastatic and non-metastatic tumors. In the afternoon, we will deal with persistent pain syndromes following spinal instrumentation which will address the impact of facet arthrosis in the cervical and lumbar spine in adjacent segment degeneration and in dynamic implants.

A voting system will be installed that allows interactive studying of highly interesting cases. I would like to invite you to participate in this stimulating and thorough program that will feature highly timely topics in the growing field of spinal disorders.

Prof. Dr. med. Adrian Merlo
Chair NeuroSpine Meeting
Willkommen im Namen der IG-NOPPS | Bienvenue au nom de IG-NOPPS

Liebe Kolleginnen und Kollegen


Wir freuen uns auf Ihre zahlreiche, aktive Teilnahme und ein Wiedersehen in Bern!

Chères et chers collègues

J’ai le grand plaisir de vous convier de nouveau à une séance de formation complémentaire enrichissante organisée par notre Groupe d’intérêt du Personnel Opératoire en Neurochirurgie (IG-NOPPS). Notre rendez-vous se tiendra cette année dans le cadre de la Réunion Annuelle Commune de la Société Suisse de Neurochirurgie (SSNC) et de la Société Suisse de Neuroradiologie (SSNR) le 9 juin 2017 à Berne.

Cette année, la manifestation couvera des thèmes tels que la loi sur le travail, la gestion du bloc opératoire, neurinomes acoustiques et neuromonitoring, névralgie du trijumeau et traitement. Le programme inclura aussi une présentation pour les soins sur les effets des exigences croissantes pour le personnel en salle d’opération.

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Jürgen Schmidt
Präsident IG-NOPPS

Welcome to the SSNR Educational Course 2017

Dear colleagues

It is with pleasure that we once again welcome you to the Educational Course of the Swiss Society for Neuroradiology, which was established a decade ago in Bern.

This year we have decided to cover some very important but unusual aspects of daily neuroradiology practice and have acquired the participation of an interesting faculty. The main session deals with incidental findings in neuroradiology and the relevance on daily practice. We all know too well that it is important not just to deal with the clinical symptom that the patient referred for an examination has but to also evaluate all that we can see on the images provided in order to help both the referring clinician and the patient in order to improve the outcome and to optimize management. We know that these « incidentalomas » can go from simple findings that may not even demand follow-up to possibly tumoral lesions where a more aggressive surgical approach is needed. These findings can involve any area that neuroradiologists and clinical neuroscientists may have to examine. Thus we have covered topics as widely varied as pineal cysts, cerebrospinal fluid leaks and meningiomas among others.

We hope that you will find this course as challenging and interesting as listeners as we found it to organize.

For the scientific committee

Prof. Dr. med. Jan Gralla
Prof. Dr. med. Karl-Olof Lövblad
General information

Date
Thursday to Friday, June 08 - 09, 2017
Joint Annual Meeting SSNS/SSNR

Friday, June 09, 2017
7th NeuroSpine Meeting
SSNR Educational Course
IG–NOPPS

Venue
BERNEXPO | Mingerstrasse 6, 3014 Bern

Website
SSNS2017.congress-imk.ch

Presidents
SSNS | PD Dr. med. Oliver Hausmann
SSNR | Prof. Dr. med. Luca Remonda
IG–NOPPS | Jürgen Schmidt

Scientific committee
Prof. Dr. med. Jan Gralla, SSNR, Congress Co-President
PD Dr. med. Oliver Hausmann, President SSNS
Prof. Dr. med. Karl-Olof Lövblad, SSNR
Prof. Dr. med. Luigi Mariani, SSNS
Prof. Dr. med. Adrian Merlo, SSNS
Prof. Dr. med. Adrian Pascal Mosimann, SSNS
Prof. Dr. med. Andreas Raabe, SSNS, Congress Co-President
Prof. Dr. med. Luca Remonda, President SSNR
Prof. Dr. med. Karl Schaller, SSNS
Prof. Dr. med. Christoph Stippich, SSNR

Extended committee (NeuroSpine Meeting)
Prof. Dr. med. Adrian Merlo, Chair NeuroSpine
PD Dr. med. Alessandro Cianfoni
Dr. med. Gregory Jost
PD Dr. med. François Porchet
Prof. Dr. med. Michael Reinert

Websites of the societies
www.swissneurosurgery.ch
www.swissneuroradiology.ch
www.ig-nopps.ch

Language
Main presentations and SSNR Educational Course: English
Free communications: English, German or French
Slides: English
Program IG–NOPPS: German

Registration
Registration fees (in CHF)

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<tr>
<th>Days</th>
<th>1 Day</th>
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<tr>
<td>Member physician SSNS / SSNR</td>
<td>120</td>
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<tr>
<td>Non-member physician</td>
<td>170</td>
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<td>IG–NOPPS *</td>
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<td>Assistant / Nurse / Student</td>
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CME-Credits
Credits have been confirmed by the following societies

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<tr>
<th>Organization</th>
<th>08.06.2017</th>
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<tbody>
<tr>
<td>Swiss Society of Neurosurgery (SSNS)</td>
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<td>Swiss Society of Radiology (SSR)</td>
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<td>Swiss Neurological Society (SNS)</td>
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Administrative secretariat
IMK Institute for medicine and communication Ltd
Münsterberg 1, CH-4001 Basel
Phone: +41 61 271 35 51 | Fax: +41 61 271 33 38
congress@imk.ch | www.imk.ch

Opening hours
Congress secretariat
Thursday, June 8, 2017 | 08:30-17:30 h
Friday, June 9, 2017  | 07:30-17:30 h

Industrial exhibition
Thursday, June 8, 2017 | 08:30-17:30 h
Friday, June 9, 2017  | 07:30-16:15 h

Accommodation
We recommend you to make your hotel reservation as early as possible in order to have an unlimited choice of hotels. Please refer to the congress website for more information.

Languages
Main presentations and SSNR Educational Course: English
Free communications: English, German or French
Slides: English
Program IG–NOPPS: German

* The registration fees IG–NOPPS for the congress are covered by the SSNS. Therefore the participation is free of charge.
General information

Networking Dinner
Schwellenmätteli - Ristorante Casa
Dalmaziquai 11, 3000 Bern 13 | www.schwellenmaetteli.ch

Surrounded by a spacious park with lush trees, the river flowing past, and the nearby woodland, the Ristorante Casa is a truly idyllic and convivial venue where typical Italian dishes and select wines are served. Please register via SSNS2017.congress-imk.ch
A journey description to the networking dinner will be available at the congress secretariat.

Information for speakers
The lecture halls are equipped with laptop and beamer.
We ask the speakers to save their presentation on a USB memory drive and take it directly to the respective lecture hall 2 hours prior to the session (at latest in the last break before the session).

Free communications
Free communications are presentations that have been selected from submitted abstracts. In order to keep to the schedule, presenters are asked to keep to the allotted speaking time (7min. + 3min. discussion) and avoid gaps between speeches. Please refer to the scientific program for the detailed schedule.

Posters
Posterboards have to be in the format A0 portrait 118.9cm x 84.1cm (height x width). Material/poster strips to hang up your poster will be at your disposal.
Hang-up of your poster: Thursday June 8, from 08:30 h until 11:15 h

Posterviewing
The presenting author is asked to be present at his poster during the official posterviewing time: Thursday, 08.06.2017, 12:45-13:30 h

Abstract publication
Accepted abstracts will be published in the June issues of the following journals
SSNS: Journal of Neurological Surgery
SSNR: Clinical Neuroradiology

Awards
SSNS: Research prize | Best poster
SYNS: Science Slam Prize 2017 sponsored by UniversitätsSpital Zürich
SSNR: Peter Huber prize | Best poster

Award Ceremony
The Joint Award Ceremony will take place Friday, June 9, 2017 from 13:30 h to 13:45 h.

Travel information
BernExpo, Kongresszentrum | Mingerstrasse 6, CH-3014 Bern | www.bernexpo.ch
Entrance: Hall Congress 1.3

Arrival by train
A dense rail network connects Bern with the other parts of the country and also to important European centres. The congress centre can be reached by train (S-Bahn) or tram in a few minutes from Bern mainstation.
- Tram Nr 9: from Bern mainstation to Guisanplatz Expo
- S-Bahn Nr S1/S2/S3/S4/S31/S44 to Bern Wankdorf, then Tram Nr 9 to Wankdorf Center
- Bus Nr 20 to Wankdorf mainstation, then Tram Nr 9 to Wankdorf Center

Arrival by car
The congress venue is only a few hundred meters from the motorway junction Wankdorf. After the motorway exit, follow the signs for «BERNEXPO»/expo».
The EXPO car park is next to the event ground. Additional parking spaces can be found in proximity to the congress centre.
Partner companies SSNR 2017

We would like to thank the partner companies for their generous support of the SSNR society:

SSNR Premium Partner

SSNR Partner

SSNR Supporter

Partner companies Joint Annual Meeting SSNS | SSNR 2017

We would like to thank the partner companies for their generous support of the meeting:

Premium partner

Partners

Schedule | Thursday June 8, 2017

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<td>Welcome</td>
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<td>09:15 - 09:30</td>
<td>Aneurysm imaging and follow up</td>
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<tr>
<td>09:30 - 09:45</td>
<td>Coffee Break</td>
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<td>10:00 - 10:15</td>
<td>Joint Free Communications SSNS</td>
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<td>10:15 - 10:30</td>
<td>Satellite Symposium Novocure GmbH</td>
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<td>Satellite Symposium MicroVention</td>
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<td>Gliomas</td>
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<td>11:30 - 11:45</td>
<td>General Assembly SSNS</td>
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<td>12:00 - 12:15</td>
<td>Networking Event</td>
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Meeting list: see page 39

Industrial exhibition: Thursday, June 8, 2017, 08:30-17:30 h

(updated April 2017)
09:00 – 09:15  
**Congress 1**

09:15 – 10:45  
**Congress 1**

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<th>Time</th>
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<td>09:15 – 09:35</td>
<td><strong>Aneurysm imaging and follow up</strong></td>
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<td>09:35 – 09:55</td>
<td><strong>Untreated aneurysms: Watch and Scan</strong></td>
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<tr>
<td>09:55 – 10:10</td>
<td><strong>Post treatment: Imaging follow up – How we do it</strong></td>
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<tr>
<td>10:10 – 10:25</td>
<td><strong>Post treatment: Follow up after clipping and de novo aneurysms</strong></td>
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<tr>
<td>10:25 – 10:45</td>
<td><strong>Post treatment: Follow up after endovascular therapy</strong></td>
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<td><strong>Panel Discussion</strong></td>
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<tr>
<td>11:15 – 12:45</td>
<td><strong>Joint Free Communications</strong></td>
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09:15 – 09:35  
**Welcome**  
Jan Gralla, Bern; Andreas Raabe, Bern

09:15 – 09:35  
**Aneurysm imaging and follow up**  
Chairs: Luca Regli, Zürich; Jan Gralla, Bern

09:15 – 09:35  
**Untreated aneurysms: Watch and Scan**  
Paolo Machi, Genève

09:35 – 09:55  
**Post treatment: Imaging follow up – How we do it**  
Karl Schaller, Genève  
Felix Zibold, Bern  
Heiko Richter, St.Gallen  
Roy Th. Daniel, Lausanne  
Giuseppe Esposito, Zürich  
Christoph Stippich, Basel

09:55 – 10:10  
**Post treatment: Follow up after clipping and de novo aneurysms**  
Javier Fandino, Aarau

10:10 – 10:25  
**Post treatment: Follow up after endovascular therapy**  
Pasquale Mordasini, Bern

10:25 – 10:45  
**Panel Discussion**  
Gerasimos Baltsavias, Zürich; Daniel Rüfenacht, Zürich;  
Heiko Richter, St.Gallen; Luca Remonda, Aarau; Roy Th. Daniel, Lausanne;  
Andreas Raabe, Bern; Michael Reinert, Lugano; Karl Schaller, Genève;  
Luigi Mariani, Basel

10:45 – 11:15  
**Coffee Break**

11:15 – 12:45  
**Joint Free Communications**  
Chairs: Oliver Hausmann, Luzern; Karl-Olof Lövblad, Genève

09:00 – 09:15  
**Congress 1**

09:15 – 10:45  
**Congress 1**

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10:25 – 10:45  
**Panel Discussion**

10:45 – 11:15  
**Coffee Break**

11:15 – 12:45  
**Joint Free Communications**

**Scientific program | Thursday June 8, 2017**

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**BARRICADE™ COIL SYSTEM**

**Very soft and flexible pusher wire**

**Minimal microcatheter kickback**

**Framing Coils adjust perfectly to aneurysm neck**

**Stable and proven detachment system**

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**1a medical ag**
WISSENSCHAFTLICHES SYMPOSIUM
Glioblastom Therapie mit Tumortherapiefeldern (Optune®)

Donnerstag, 8. Juni 2017, 13.30–14.00 Uhr
Kongressraum 1 DG/1

Chairman
Prof. Dr. med. Michael Reinert
Chefarzt Neurochirurgie, Neurozentrum NSI EOC, Kantonsspital Lugano

Referent
Dr. med. univ. Christian F. Freyschlag
Oberarzt Neurochirurgie, Medizinische Universität Innsbruck

Scientific program | Thursday June 8, 2017

11:25 - 11:35
O09 | The value of repetitive CT perfusion for detection of cerebral vasospasm-related hypoperfusion after aneurysmal subarachnoid hemorrhage
S Vulcu, F Wagner, A Fernandes Santos, R Reitmeir, N Söll, A Raabe, J Beck, W Z’Graggen; Bern, Zürich

11:35 - 11:45
O10 | Ruptured PICA aneurysms: treatment outcomes and comparison with other ruptured posterior circulation aneurysms
R Maduri, D Starnoni, B Philippe, D Bervini, M Röthlisberger, MN Stienen, D Zumofen, S Marbacher, D Schoeni, D Valsecchi, M Seule, JK Burkhardt, MV Corniola, B Schatlo, C Fung, M Levivier, M Messerer, RT Daniel; Lausanne, Genève, Bern, Basel, Zürich, Aarau, Lugano, St Gallen, Bern

11:45 - 11:55
O11 | Predictors of in-hospital death following aneurysmal subarachnoid hemorrhage – analysis of a nationwide database (Swiss SOS)

11:55 - 12:05
O12 | Intraoperative 3D-Angiography increases the Diagnostic Yield for Detection of Remnant during Microsurgical Aneurysm Occlusion
CTJ Magyar, M Diepers, S Marbacher, JC Kienzler, L Remonda, J Fandino; Aarau

12:05 - 12:15
O13 | Patient radiation dose during spinal surgery with an intraoperative mobile CT
P Scarone, G Fumagalli, D Gaudino, S Presilla, M Reinert; Lugano, Varese (IT), Bellinzona

12:15 - 12:25
O14 | CT guidance for bolt-kit external ventricular drains – precision for the most difficult cases?
A Nowacki, F Wagner, J Beck, A Raabe, W Z’Graggen; Bern

12:25 - 12:35
O15 | Long-term outcome in children with vein of Galen aneurysmal malformation
G Saliou, H Taffin, F Puccinelli, B Husson, H Maurey; Lausanne, Le Kremlin Bicetre (FR)

12:35 - 12:45
O16 | Clinical and molecular findings in a cohort of children with central nervous system arteriovenous fistulas.
G Saliou, M Eyries, M Lacobucci, JF Knebel, M Wail, F Coulet, A Ozanne, F Soubrier; Lausanne, Paris (FR), Le Kremlin Bicetre (FR)

Lunch Break
MicroVention Welcomes All Attendees to SSNS and SSNR 2017, Bern, Switzerland

MicroVention® is dedicated to the development of innovative neuroendovascular technologies.

Simple and versatile solution for long lasting treatment in ruptured and unruptured aneurysms

Symposium „Das WEB“
08.06.2017
13:30 – 14:00 Uhr

Chairman:
Prof. Dr. med. Ansgar Berlis

Speakers:
Prof. Dr. med. Werner Weber
Prof. Dr. med. Ansgar Berlis

Contact your Local Sales Representative or MicroVention Customer Service for questions or to order MicroVention products at: +49 211 210 7980 or www.microvention.com.

CAUTION: The WEB™ Aneurysm Embolization System is an investigational device limited by United States law to investigational use.

INDICATIONS FOR USE
The WEB™ Aneurysm Embolization System is intended for the endovascular embolization of ruptured and unruptured intracranial aneurysms and other neurovascular abnormalities such as arteriovenous malformations (AVM). The device should only be used by physicians who have undergone training in all aspects of WEB Aneurysm Embolization System procedures as prescribed by MicroVention, Inc.

The HydroCoil® Embolic System (HES) is intended for the endovascular embolization of intracranial aneurysms and other neurovascular abnormalities such as arteriovenous malformations and arteriovenous fistulae. The HES is also intended for vascular occlusion of blood vessels in the peripheral vasculature. The device should only be used by physicians who have undergone pre-clinical training in all aspects of HES procedures as prescribed by MicroVention.

Scientific program | Thursday June 8, 2017

14:50 - 15:00
O21 | Combined approach for large vestibular schwannomas: planned subtotal resection followed by Gamma Knife surgery: an update on a series of 40 consecutive cases
M Leivier, C Tuleasca, M George, L Schiappacasse, M Marguet, R Maire, RT Daniel; Lausanne

15:00 - 15:10
O22 | Novel Oral Anticoagulants (NOACS) in Patients Undergoing Cranial Surgery
D Croci, M Kamenova, R Guzman, L Mariani, J Soleman; Basel

15:10 - 15:20
O23 | Planned subtotal resection followed by GKR for complex skull base meningiomas: Lausanne experience
L Giammattei, C Tuleasca, L Schiappacasse, M Marguet, F Borrut, M Levivier, RT Daniel; Lausanne

14:00 - 15:20
Free Communications SSNR
Chairs: Karl-Olof Lövblad, Genève; Christoph Stippich, Basel

14:00 - 14:10
O01 | Diffusion tensor imaging of the spondylotic cervical spinal cord: A new biomarker of medullary injury in cervical spinal cord myelopathy?
F Cartes-Zumelzu, S Ingorokva, G Brössner, R Granata, C Krems, G Feuchtner, C Thome; Innsbruck (AT)

14:10 - 14:20
O02 | Experimental Texture Analysis in Glioblastoma – A Methodological Study
N Hainc, C Stippich, B Stieltjes, S Leu, A Bink; Basel

14:20 - 14:30
O03 | Clinical application of diffusion-weighted imaging
M Drake, J Boto, A Fitsor, I Barnaure, K Lövblad, M Vargas; Genève

14:30 - 14:40
O04 | Automated tissue volumetry and lesion identification using deep learning.
F Wagner, R McKinley, C Rummel, A Chan, R Wiest; Bern

14:40 - 14:50
O05 | Transcranial MRI-Guided High-Intensity Focused Ultrasound for Treatment of Essential Tremor: Correlation of Clinical Outcome with Lesion Size, Localization, and Thermal Dose
C Federau, M Goubran, J Rosenberg, K Butt Pauly, P Ghanouni; Basel, Stanford (US)

14:50 - 15:00
O06 | Do Histology and Mechanical Properties of Thrombi Influence Effectiveness and Safety of Stent Retriever Thrombectomy? Mechanical thrombectomy of calcified emboli in stroke
T Dobrocky, E Piechowiak, A Cianfoni, F Zibold, L Roccatagliata, S Jung, U Fischer, P Mordasini, J Gralla; Bern, Lugano

15:00 - 15:10
O07 | Endovascular Treatment of Dural Arterio-Venous Fistulae of the Transverse and Sigmoid Sinus Using Trans-Arterial Balloon-Assisted Embolization Combined with Trans-Venous Balloon Protection of the Venous Sinus
EI Piechowiak, P Mordasini; Bern

Coffee Break

Gliomas
Chairs: Andreas Raabe, Bern; Alessandro Cianfoni, Lugano

15:40 - 17:10
Congress 1

15:40 - 16:00
Extent of resection and prognosis in low and high grade gliomas
Luigi Mariani, Basel

16:00 - 16:20
Imaging techniques for intraoperative application
Astrid Weyerbrock, St.Gallen

16:20 - 16:40
MR-imaging in gliomas: Standards and advanced techniques
Christoph Stippich, Basel

16:40 - 17:00
MR-imaging in Gliomas: Follow-up and quantitative approaches
Roland Wiest, Bern

Overall discussion

17:20 - 18:50
General Assembly SSNS
Congress 1

17:20 - 18:50
General Assembly SSNR
Congress 4

from 19:00
Networking Event
Schedule | Friday June 9, 2017

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<td>Free communications &quot;Spine surgery&quot;</td>
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<tr>
<td>08:15 - 08:30</td>
<td>Underdiagnosed and undertreated: CSF leakage syndrome</td>
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<td>08:30 - 08:45</td>
<td>Coffee Break</td>
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<tr>
<td>08:45 - 09:00</td>
<td>Joint Session NeoSpine Session Neoplastic and vascular lesions of the spine</td>
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**Meeting list:** see page 39

**Industrial exhibition:** Friday, June 9, 2017, 07:30-16:15 h
**Free communications “Spinesurgery”**

**Chairs: John Duff, Lausanne; Luca Regli, Zürich**

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<th>Time</th>
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<tr>
<td>08:00 - 09:15</td>
<td>Congress 1</td>
<td>O24</td>
<td>The optimal dura closure technique and material – an in vitro evaluation.</td>
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<tr>
<td>08:00 - 08:10</td>
<td>Congress 1</td>
<td>O25</td>
<td>Efficacy of intraoperative epidural triamcinolone (Kenacort®) application in lumbar microdiscectomy: a matched-control study</td>
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<td>08:10 - 08:20</td>
<td>Congress 1</td>
<td>O26</td>
<td>Residents Learning Curve of Lumbar Transforaminal Epidural Steroid Injections</td>
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<tr>
<td>08:20 - 08:30</td>
<td>Congress 1</td>
<td>O27</td>
<td>Minimally invasive resection of ventral and ventrolateral intradural extramedullary spinal lesions. Clinical outcomes and the addition of image merge technique.</td>
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<tr>
<td>08:30 - 08:40</td>
<td>Congress 1</td>
<td>O28</td>
<td>Reliability and Importance of intraoperative CT navigation in spinal surgery: a single-center experience on a cohort of 235 cases</td>
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<td>08:40 - 08:50</td>
<td>Congress 1</td>
<td>O29</td>
<td>Does preoperative degenerative spondylolisthesis worsen outcome in degenerative lumbar spinal stenosis? A Swiss prospective multicenter cohort study</td>
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<tr>
<td>08:50 - 09:00</td>
<td>Congress 1</td>
<td>O30</td>
<td>Reduction of recurrent lumbar disc herniation in high risk patients – application of a new technique. Cantonal Hospital St.Gallen, Switzerland.</td>
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<td>09:00 - 09:10</td>
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**Joint Session | NeuroSpine Session**

**Neoplastic and vascular lesions of the spine**

Chairs: Javier Fandino, Aarau; Andreas Raabe, Bern

- Imaging of neoplastic and vascular spinal lesions
  - Roland Wiest, Bern
- Embolisation of spinal dural fistulas
  - Luca Remonda, Aarau
- Surgery of spinal dural fistulas
  - Michael Reinert, Lugano
- Management of syringomyelia
  - Raoul Heilbronner, Nottwil | St.Gallen

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<tr>
<td>11:15 - 12:30</td>
<td>Congress 1</td>
<td>O31</td>
<td>Does preoperative degenerative spondylolisthesis worsen outcome in degenerative lumbar spinal stenosis? A Swiss prospective multicenter cohort study</td>
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<td>11:15 - 12:30</td>
<td>Congress 1</td>
<td>O32</td>
<td>Management of primary and recurrent chordomas</td>
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<tr>
<td>11:15 - 12:30</td>
<td>Congress 1</td>
<td>O33</td>
<td>Surgery of spinal intra-extra-dural (non-metastatic) neoplasms</td>
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<td>11:15 - 12:30</td>
<td>Congress 1</td>
<td>O34</td>
<td>Management of spinal metastases</td>
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<tr>
<td>12:30 - 13:30</td>
<td>Congress 1</td>
<td>O35</td>
<td>Reduction of recurrent lumbar disc herniation in high risk patients – application of a new technique. Cantonal Hospital St.Gallen, Switzerland.</td>
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<td>Management of primary and recurrent chordomas</td>
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<td>Surgery of spinal intra-extra-dural (non-metastatic) neoplasms</td>
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<td>Management of spinal metastases</td>
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<td>O42</td>
<td>Surgery of spinal intra-extra-dural (non-metastatic) neoplasms</td>
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<td>Congress 1</td>
<td>O43</td>
<td>Management of spinal metastases</td>
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**NeuroSpine | AOSpine Session**

Chairs: Gregory Jost, Basel; Karl Schaller, Genève

- Management of primary and recurrent chordomas
  - Stefano Boriani, Bologna, IT
- Surgery of spinal intra-extra-dural (non-metastatic) neoplasms
  - John Duff, Lausanne
- Management of spinal metastases
  - Alessandro Cianfoni / Pietro Scarone, Lugano

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<td>Management of primary and recurrent chordomas</td>
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<td>O46</td>
<td>Surgery of spinal intra-extra-dural (non-metastatic) neoplasms</td>
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<td>Management of spinal metastases</td>
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<td>Management of primary and recurrent chordomas</td>
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<td>O50</td>
<td>Surgery of spinal intra-extra-dural (non-metastatic) neoplasms</td>
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<td>O51</td>
<td>Management of spinal metastases</td>
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**Joint Award Ceremony**
Program | SSNS | 7th NeuroSpine Meeting | Friday June 9, 2017

13:45 - 15:45
Congress 1

NeuroSpine Session

Pain syndromes following spinal instrumentation
Chairs: Ali-Reza Fathi, Aarau; Gianluca Maestretti, Fribourg

08:15 - 09:15
Congress 4

Underdiagnosed and undertreated: CSF leakage syndrome
Chair: Pasquale Mordasini, Bern

08:15 - 08:30

Overview
Antony Tyndall, Basel

08:30 - 08:45

Escalating protocol on spinal imaging
Eike Piechowiak, Bern

08:45 - 09:00

Surgical treatment
Jürgen Beck, Bern

09:00 - 09:15

Discussion

Coffee break

Joint Session | NeuroSpine Session

Neoplastic and vascular lesions of the spine
Chairs: Javier Fandino, Aarau; Andreas Raabe, Bern

13:45 - 14:30

Imaging of neoplastic and vascular spinal lesions
Roland Wiest, Bern

14:30 - 14:50

Embolisation of spinal dural fistulas
Luca Remonda, Aarau

14:50 - 15:10

Surgery of spinal dural fistulas
Michael Reinert, Lugano

15:10 - 15:30

Management of syringomyelia
Raoul Heilbronner, Nottwil | St.Gallen

15:30 - 15:45

Coffee Break

1st SYNS Science Slam

Chair: Michael Murek, Bern

09:55 - 10:10

Aneurysm Surgery with Preoperative Three-Dimensional Planning in a Virtual Reality Environment: Technique and Outcome Analysis
Tim Killeen, St.Gallen

10:10 - 10:25

Nogo-A regulates vascular network architecture in the postnatal brain
Thomas Waelchli, Genève

10:25 - 10:45

Altered intraoperative cerebrovascular reactivity in brain areas of high-grade glioma recurrence
Jorn Fiestra, Zürich

10:45 - 11:15

Satellite Symposium

Literature review of the sent-assisted coiling procedures
Luca Remonda, Aarau

11:15 - 11:45

Preliminary experience with the neuroform atlas in stent-assisted aneurysm coiling
Johannes Weber, St.Gallen

11:45 - 13:30

Lunch Break
Joint Award Ceremony

Incidental findings and their clinical relevance in Neuroradiology – Part I
Chair: Christoph Stippich, Basel

- 13:45 - 15:15
  Congress 4
- 13:45 - 14:00
  Sella and pituitary gland
  Nicolin Hainc, Basel
- 14:00 - 14:15
  Pineal cysts
  Frauke Kellner, Bern
- 14:15 - 14:30
  Meningeoma and neurinoma
  Christoph Ozdoba, Bern
- 14:30 - 14:35
  Indication for surgery
  Christian Fung, Bern
- 14:35 - 14:50
  Cavernoma and telangiectasia
  Philipp Gruber, Aarau
- 14:50 - 14:55
  Indication for surgery
  Serge Marbacher, Aarau
- 14:55 - 15:10
  “Brain Atrophy” and NPH
  Michael Diepers, Aarau
- 15:10 - 15:15
  Indication for treatment
  Jenny Kienzler, Aarau
- 15:15 - 15:45
  Coffee break

Incidental findings and their clinical relevance in Neuroradiology – Part II
Chair: Karl-Olof Lövblad, Genève

- 15:45 - 16:45
  Congress 4
- 15:45 - 16:10
  Spine
  Maria Isabel Vargas, Genève
- 16:10 - 16:35
  Scull, Head & Neck
  Franca Wagner, Bern
- 16:35 - 16:45
  Discussion
08:45 – 09:00  Begrüßung
Jürgen Schmidt, Basel

09:00 – 09:30  Die Kavität des Gehirns: Das Schädel Hirn Trauma
Christian Fung, Bern

09:30 – 10:00  Op-Management
Olivier Tschudi, Präsident schweiz. Fachgesellschaft für Op-Management

10:00 – 10:30  Vestibularisschwannom
Luigi Mariani / Daniel Zumofen, Basel

10:30 – 11:00  Kaffeepause

11:00 – 11:30  Behandlungsmethoden bei Trigeminusneuralgie
Lennart Stieglitz, Zürich

11.30 – 12:00  „Surprise“

12:00 – 14:00  Mittagspause

14:00 – 14:30  „Welche Auswirkungen haben die steigenden Anforderungen im OP für das Personal“ Lagerungsfachpflege und OT HF
Istvan Stanko, Basel; Jürgen Schmidt, Basel

14:30 – 15:00  Rechtliche Rahmenbedingungen der Instrumentenaufbereitung
Peter Reich, BBraun Schweiz / Aesculap

15:00 – 15:30  Generalversammlung IG–NOPPS

Posters SSNS

P01  Cardiac Gated Intravoxel Incoherent Motion (IVIM) Diffusion-weighted Magnetic Resonance Imaging for the Investigation of Intracranial Cerebrospinal Fluid Dynamics: A Feasibility Study
S Winklhofer, E Surer, A Becker, T Finkenstaedt, M Wurnig, A Valavanis, C Rossi; Zürich

P02  Improving the assessment of calcified carotid artery stenosis using a novel dual-energy CT angiography algorithm: Comparison with digital subtraction angiography
S Winklhofer, I DeMartini, J Ramachandran, S Wegener, B Schmidt, G Baltsavias, A Valavanis, H Alkadhi, M Manni; Zürich

P03  Combining two different techniques for an optimized metal artifact reduction from clips and coils: Iterative postprocessing and monoenergetic reconstructions from dual-energy CT
S Winklhofer, R Hinzpeter, D Stocker, G Baltsavias, JK Burkhardt, L Regli, A Valavanis, H Alkadhi; Zürich

P04  Cerebral Arterio- Venous Malformations: Effect of Partial Embolization on Cerebral Angioarchitecture
A Spiessberger, C Muroi, S Marbacher, B Grüter, J Fandino, M Diepers, L Remonda; Aarau

P05  Neuro Elutax SV§ Drug Eluting Balloon vs. Wingspan® Stent System in Symptomatic Intracranial High-grade Stenosis
P Gruber, C Garcia-Esperon, J Bererat, T Kahles, M Hlavica, J Anon, M Diepers, K Nedeltchev; St.Gallen, Zürich

P1  Posters SSNR

P06  A potent microglial response to blocking the CD47-Sirpα anti-phagocytic axis overcomes deficient macrophage recruitment during anti-CD47 immunotherapy against glioblastoma
G Hutter, J Theruvath, CM Graef, I Weissman, S Mitra, S Cheshier; Basel, Stanford (US)
Microsurgical neck clipping of basilar apex aneurysms – A systematic review of various approach techniques and their results.
A Spiessberger, F Guglielmetti, J Fandino, S Marbacher; Aarau

The Eyebrow versus the Eyelid Approach for Supraorbital Craniotomy: Anatomical and Surgical Considerations
J Rychen; Hégenheim (FR)

Association of 3q26 genes with tumor volume, tumor recurrence pattern, and overall survival in glioblastoma patients
S Leu, J Boulay, S Thommen, C Stippich, A Bink, L Mariani; Luzern, Basel

Case report: A case of intracranial tuberculoma in a young man from Ethiopia without pulmonary tuberculosis
A Ferrari, A Weyerbrock, W Surbeck, R Rodriguez; Breganzona, St.Gallen

The Yield of Early Postoperative Computed Tomography after Ventriculoperitoneal Shunt Placement
M Kamenova, J Rychen, L Mariani, J Soleman; Basel

Combined endovascular and microsurgical treatment for cerebral dural arteriovenous fistulas in the hybrid operating room
B Grüter, F Burn, M Diepers, L Remonda, J Fandino, S Marbacher; Zürich, Aarau

Use of a 3D skull model to improve accuracy in cranioplasty for autologous flap resorption in a 3-year-old child: technical note
R Maduri, E Viaroli, M Pacetti, RT Daniel, M Messerer; Lausanne

Amended intraoperative neuronavigation; novel 3-dimensional vascular roadmapping with superselective angiographic reconstructions
J Fierstra, J Anon, M Diepers, L Remonda, J Fandino, S Marbacher; Aarau

Impact of laterality in glioblastoma patients
T Roth, S Marbacher, J Fandino, D Coluccia; Zürich, Aarau

Dorsal cervical C1/C2 fusion using C1 lateral mass-, C2 lamina screws and interarcual bonegraft
L Tosić, D Baschera, J Oberle; Winterthur

SwissDisc Registry (SDR) – The register of patients undergoing surgical treatment of lumbar disc herniation in Switzerland
O Wetzel, S Rey, C Perren, J Fandino, JC Kienzler; Aarau
List of invited speakers and chairs

B
PD Dr. med. Gerasimos Baltsavias
UniversitätsSpital Zürich
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Prof. Dr. Jürgen Beck
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D
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1011 Lausanne, CH

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Neuroradiologie
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Dr. med. John Duff
Centre hospitalier universitaire vaudois
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Hirslanden Klinik Aarau
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Klinik für Neurochirurgie
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5001 Aarau, CH

PD Dr. med. Oliver Goutschi
Klinik St. Anna Luzern
Neuro- und Wirbelsäulen Zentrum
St. Anna-Strasse 32
6006 Luzern, CH

Posters SSNS

P31 Temporo-sylvian arachnoid cysts in children – ongoing debate on management
S Stricker, S Puget, R Guzman; Basel, Paris (FR)

P32 Transorbital, transvenous endovascular embolization of a petrous AVM/DAVF through microsurgical cannulation of the superior ophthalmic vein – Case Report and Technical note
JC Kienzler, M Diepers, J Anon, J Fandino, L Remonda; Aarau

P33 Unruptured paraclinoid aneurysm treatment effects on visual function: a systematic review and meta-analysis
M Asaid, AH O’Neill, D Bervini, LT Lai; Melbourne (AU), Bern

P34 Intracranial dermoid cyst: Unusual cause for chronic meningitis
F Borsotti, B Richoz, A Simonin, M Messerer, RT Daniel; Lausanne

P35 Minimally invasive medial supraorbital, combined subfrontal-interhemispheric approach to the anterior communicating artery complex - a cadaveric study. A Spiessberger, F Baumann, E Nevzati, K Kottbauer, J Fandino, C Murol; Aarau, Luzern

P36 Papilledema in an unbled Arteriovenous Malformation of the Brain (bAVM) – Pathophysiological Considerations on the Basis of a Case Report
S Schön, D Zumofen, KA Blackham, L Mariani; Basel

P37 Clipping for a partially thrombosed anterior communicating artery (AcomA) aneurysm presenting with delayed visual loss after pipeline embolization device (PED) treatment – case report
M Pacetti, PJ Moshimann, J Zerlauth, F Puccinelli, M Levivier, RT Daniel; Lausanne, Bern

P38 Characteristics, Comorbidities, and Outcomes in Acromegalic Patients Treated at a Swiss Tertiary Referral Center
J Kempf, A Schmitz, A Meier, P Schütz, S Berkmann; Aarau, Arlesheim

P39 Case Report: Transposition of the verteobasilar dolichoectasia fixation with a Teflon sling to the dura next to the porus acusticus and the jugular foramen for a microvascular decompression in the treatment of trigeminal nerve pain.
D Bratelj; St.Gallen
List of invited speakers and chairs

Prof. Dr. med. Jan Gralla
Inselspital Bern
Universitätsinstitut für Diagnostische und Interventionelle Neuroradiologie
Freiburgstrasse 10
3010 Bern, CH

Dr. med. Philipp Gruber
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Tellstrasse 25
5001 Aarau, CH

Dr. med. Michael Murek
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Universitätsklinik für Neurochirurgie
3010 Bern, CH

PD Dr. med. Pasquale Mordasini
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Freiburgstrasse 10
3010 Bern, CH

Dr. med. Michael Murek
Inselspital Bern
Universitätsklinik für Neurochirurgie
3010 Bern, CH

Prof. Dr. med. Luca Remonda
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Universitätsinstitut für Diagnostische und Interventionelle Neuroradiologie
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1205 Genève, CH

Prof. Dr. med. Christoph Stippich
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Petersgraben 4
4031 Basel, CH
Meetings

Wednesday, June 07, 2017

Board Meeting SSNS 15:30–18:00 h, Hotel Bellevue Bern
Board Meeting SSNR 15:30–18:00 h, Hotel Bellevue Bern

Thursday, June 08, 2017

SFCNS Board Meeting 11:00–12:45 h, Congress 6
SFCNS Assembly of delegates 12:45–13:45 h, Congress 6
Board Meeting SSS/SHG 14:00–16:00 h, Congress 6
Hirnschlagkommission SFCNS 16:15–17:15 h, Congress 6
Swiss SOS Group 13:00–14:00 h, Congress 7
General Assembly SSNS 17:20–18:50 h, Congress 1
General Assembly SSNR 17:20–18:50 h, Congress 4

List of invited speakers and chairs

T
Dr. med. Anthony Tyndall
Universitätsspital Basel
Diagnostische und Interventionelle Neuroradiologie
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V
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W
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Neurochirurgie
Rorschacher Strasse 95
9007 St.Gallen, CH

Prof. Dr. med. Roland Wiest
Inselspital Bern
Universitätsinstitut für Diagnostische und Interventionelle Neuroradiologie
Freiburgstrasse 10
3010 Bern, CH

Z
Dr. med. Felix Zibold
Inselspital Bern
Universitätsinstitut für Diagnostische und Interventionelle Neuroradiologie
Freiburgstrasse 10
3010 Bern, CH
Industrial exhibition

Opening hours of the industrial exhibition
Thursday, June 8, 2017  08:30-17:30 h
Friday, June 9, 2017   07:30-16:15 h

List of exhibitors

Alphabetical order
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Joint Annual Meeting 2018
Swiss Society of Neurosurgery
Swiss Society of Neuroradiology

Together with:
Association of neurosurgical nursing staff Switzerland

May 24-25, 2018
Palazzo dei Congressi, Lugano
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