8th Meeting
NEUROspine

Modular dynamics or spinal fusion? Anything new?

Program

March 1, 2018 | Kursaal Bern
neurospine2018.congress-imk.ch
Welcome to the 8th NEUROspine Meeting

Dear colleagues

We are proud to announce the 8th NEUROspine Meeting, the advanced course of the Swiss Society of Neurosurgery SSNS supported by the Swiss Spine Institute, Swiss Society for Spinal Surgery (SGS), and the Swiss Federation of Clinical Neuro Societies SFCNS. On behalf of the organising committee, we would like to warmly welcome you to the Kursaal in Bern on March 1, 2018.

The upcoming meeting will cover several topics, from basic science to hard core surgery. In the morning, we will cover “inflammaging”, the molecular biology of the aging spine followed by a talk on structural changes in the brain of chronic pain patients. The AO-spine session will highlight “sarcopenia”, a very up to date topic about the role of spinal musculature in the different pathological conditions throughout life.

Thereafter, we will focus on the question whether the widely accepted dogma of fusion of degenerative spinal segments to alleviate chronic pain conditions is still valid today. We will critically analyse the new avenues of truly dynamic stabilisations that have been recently introduced into the arena of spine surgery, mainly enabled by recent progress in material sciences. Larger clinical case series will be presented that will focus on the use of truly dynamic rods to treat adjacent segment disease and recurrent disc herniation. In addition, the opportunities of these new devices will be discussed regarding longer range stabilisation in scoliotic patients. Thereafter, a practical session with discussion of personal cases will be held by using electronic voting.

Many spine surgeons rarely use interspinous devices, but are they really so problematic? A review on these debated implants in addition to personal case series will be presented, which should clarify the question whether interspinous implants may still be of clinical value.

The attractive program should catch the attention of neurosurgeons and orthopedic surgeons with a strong interest in spine surgery, but also anesthesiologists, neurologists, rheumatologists, interventional radiologists, chiropractors, physiotherapists, and osteopaths.

We look forward to welcoming you to Bern.

Sincerely yours,

Professor Adrian Merlo, MD
President scientific committee
Past President SSNS

Registration
neurospine2018.congress-imk.ch
Date       Thursday, March 1, 2018

Venue       Kursaal Bern
             Kornhausstrasse 3, 3000 Bern 22, CH
             www.kursaal-bern.ch

Audience    The NEUROspine meeting is addressed to neurosurgeons and orthopedic surgeons with a strong interest in spine surgery, but also anesthesiologists, neurologists, rheumatologists, interventional radiologists, chiropractors, physiotherapists, and osteopaths.

Scientific committee
Oliver Hausmann, MD; Lucerne (President)
Gregory Jost, MD; Basel
Prof. Adrian Merlo, MD; Bern
PD François Porchet, MD; Zurich
PD Enrico Tessitore, MD; Geneva

Credits     Swiss Neurological Society: 1 credit
Swiss Society of Neurosurgery: 8 credits
Swiss Society of Orthopaedics and Traumatology: 5 credits

Administrative secretariat  IMK Institute for medicine and communication Ltd
Münsterberg 1, 4001 Basel, CH
Phone: +41 61 271 35 51 | Fax: +41 61 271 33 38
congress@imk.ch | www.imk.ch

Website     neurospine2018.congress-imk.ch

Registration and fees (CHF)

<table>
<thead>
<tr>
<th></th>
<th>Early bird until February 12, 2018</th>
<th>From February 13, 2018 and onsite</th>
</tr>
</thead>
<tbody>
<tr>
<td>SSNS Member physicians</td>
<td>CHF 200</td>
<td>CHF 250</td>
</tr>
<tr>
<td>Non member physicians</td>
<td>CHF 250</td>
<td>CHF 300</td>
</tr>
<tr>
<td>Assistants</td>
<td>CHF 100</td>
<td>CHF 150</td>
</tr>
</tbody>
</table>

Please register online via the congress website.
Morning session
Sarcopenia, Biology of Aging, Pain Imaging and Discectomy

08:50–09:00 Welcome Address
Adrian Merlo, Bern

09:00–10:00 Session I: Biology of Aging/Pain Imaging/Discectomy News

Chairs
Oliver Hausmann, Lucerne; Daniel May, Meyrin

09:00–09:15 Inflammaging: molecular pathology of spinal aging
Karin Wuertz-Kozak, Zurich

09:20–09:35 Structural changes in the brain in chronic back pain patients
Petra Schweinhardt, Zurich

09:40–09:55 Minimally invasive lumbar discectomy
Nicolas Theumann, Lausanne

10:00–10:30 Coffee break in the industrial exhibition

10:30–11:30 Session II: AOSpine-Session “Sarcopenia”

Chairs
Gregory Jost, Basel; Martin Baur, Nottwil

10:30–10:45 Old persons, sarcopenia and the spine
Thomas Münzer, St. Gallen

10:50–11:05 Musculoskeletal modeling of sarcopenia for prediction of associated spinal loads
Stephen Ferguson, Zurich

11:10–11:25 3D back muscle analysis and the role of MIS TLIF
Sven Hoppe, Bern

11:30–11:50 Session III: Dorsal Dynamic Stabilization Using Pedicular Screws

Chairs
Ulrich Seidel, Bern; François Porchet, Zurich

11:30–11:45 The fusion dogma: is there a need for dynamic implants?
Oliver Gautschi, Lucerne

11:50–13:15 Lunch in the industrial exhibition
# Afternoon session

## Dorsal dynamic and interspinous stabilization

<table>
<thead>
<tr>
<th>Time</th>
<th>Session III: Dorsal Dynamic Stabilization Using Pedicular Screws</th>
</tr>
</thead>
<tbody>
<tr>
<td>13:15-15:10</td>
<td><strong>Chairs</strong> Raoul Heilbronner, St. Gallen; Ulrich Seidel, Bern</td>
</tr>
<tr>
<td>13:15-13:30</td>
<td>Biomechanics of dynamic implants</td>
</tr>
<tr>
<td></td>
<td>Stefan Freudiger, Bern</td>
</tr>
<tr>
<td>13:35-13:50</td>
<td>Dynamic dorsal implants – a large case series</td>
</tr>
<tr>
<td></td>
<td>Philipp Cathrein, Biel</td>
</tr>
<tr>
<td>13:55-14:10</td>
<td>Dynamic stabilization using the stablimax system</td>
</tr>
<tr>
<td></td>
<td>Ken Yonemura, Salt Lake City (US)</td>
</tr>
<tr>
<td>14:15-14:30</td>
<td>Dynamic stabilization using the spine shape system</td>
</tr>
<tr>
<td></td>
<td>Robert Andres, Bern</td>
</tr>
<tr>
<td>14:35-14:50</td>
<td>Dynamic posterior stabilization versus posterior lumbar intervertebral fusion: a matched cohort study based on the spine tango registry</td>
</tr>
<tr>
<td></td>
<td>Ian Shackleford, Warrington, Cheshire (UK)</td>
</tr>
<tr>
<td>15:00-15:30</td>
<td>Coffee break in the industrial exhibition</td>
</tr>
<tr>
<td>15:30-16:00</td>
<td>Case discussions (Dynamic solutions and failures)</td>
</tr>
<tr>
<td></td>
<td>Moderators Enrico Tessitore, Geneva; Christian Etter, Aarau</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Time</th>
<th>Session IV: Interspinous stabilization</th>
</tr>
</thead>
<tbody>
<tr>
<td>16:00-17:00</td>
<td><strong>Chairs</strong> Ulrich Berlemann, Bern; Javier Fandino, Aarau</td>
</tr>
<tr>
<td>16:05-16:17</td>
<td>Interspinous stabilization: a review</td>
</tr>
<tr>
<td></td>
<td>Ulrich Berlemann, Bern</td>
</tr>
<tr>
<td>16:20-16:32</td>
<td>Prospective, randomized multi-center study with 2-year follow-up to compare the performance of decompression with and without interlaminar stabilization</td>
</tr>
<tr>
<td></td>
<td>Michael Rauschmann, Offenbach (DE)</td>
</tr>
<tr>
<td>16:35-16:47</td>
<td>Interspinous stabilization using Coflex</td>
</tr>
<tr>
<td></td>
<td>Ken Yonemura, Salt Lake City (US)</td>
</tr>
<tr>
<td>16:50-17:00</td>
<td>Interspinous stabilization as topping off</td>
</tr>
<tr>
<td></td>
<td>Ulrich Seidel, Bern</td>
</tr>
<tr>
<td>17:00</td>
<td>Conclusion</td>
</tr>
<tr>
<td></td>
<td>Adrian Merlo, Bern</td>
</tr>
</tbody>
</table>

*from 17:15* Apéro
Speakers and Chairmen

PD Robert Andres, MD
Hirslanden Klinik Permanence
Bümplizstrasse 83
3018 Bern

Martin Baur, MD
Schweizer Paraplegiker-Zentrum
Wirbelsäulen chirurgie und Orthopädie/SWRZ
Guido A. Zäch Strasse 1
6207 Nottwil

Prof. Ulrich Berlemann, MD
Wirbelsäulen chirurgie
Salem Spital
Schanzlistrasse 39
3013 Bern

Philipp Cathrein, MD
Spinale Chirurgie
Privatklinik Linde
Blumenrain 87
2503 Biel

Christian Etter, MD
Orthopädische Chirurgie FMH
Wirbelsäulen chirurgie
Institut für Wirbelsäulenmedizin AG
Schänisweg
5001 Aarau

Prof. Javier Fandino, MD
Neurochirurgie
Kantonsspital Aarau
Tellstrasse 25
5001 Aarau

Prof. Stephen Ferguson, MD
Laboratory für Orthopaedic Technology
Hönggerbergring 64
8093 Zurich

Stefan Freudiger, dipl. Masch. Ing. ETH, exec. MBA HSG
Stationstrasse 66
8424 Embrach

PD Oliver Gautschi, MD
Neuro- und Wirbelsäulenzentrum
Klinik St. Anna
St. Anna-Strasse 32
6006 Lucerne

PD Oliver Hausmann, MD
Neu-chirurgie
Hirslanden Klinik St. Anna
St. Anna-Strasse 32
6006 Lucerne

Raoul Heilbronner, MD
Klinik für Neurochirurgie
Kantonsspital St. Gallen
9007 St. Gallen

Sven Hoppe, MD
Wirbelsäule
Spital Tiefenau
Tiefenaustrasse 112
3004 Bern

Gregory Jost, MD
Spinale Chirurgie
Universitätsspital Basel
Spitalstrasse 21/Petersgraben 4
4031 Basel

Daniel May, MD
Neurochirurgie
Hôpital de La Tour
Av. Vaudagne 4
1217 Meyrin

Prof. Adrian Merlo, MD
Praxis für Neurochirurgie
Spitalgasse 32
3011 Bern

Prof. Michael Rauschmann, MD
Wirbelsäulenorthopädie und rekonstruktive Orthopädie
Sana Klinikum Offenbach
Starkenburgring 66
63069 Offenbach am Main, DE

Petra Schweinhardt, MD, PhD
Chiropractic Medicine
Interdisciplinary Spinal Research
University Hospital Balgrist
Balgrist Campus
Lengghalde 5
8008 Zurich

Ulrich Seidel, MD
Neu-chirurgie
NPM Neuropraxis Münsingen
Krankenhausweg 18
3110 Münsingen

Ian Shackleford, MB BS, FRCS (Ed)
Consultant Orthopaedic Surgeon
Spire Cheshire Hospital
Warrington, Cheshire,
WA4 4LU, UK

PD Enrico Tessitore, MD
Neurochirurgie
Département de Neurochirurgie
Hôpitaux Universitaires de Genève
Rue Gabrielle Perret-Gentil 4
1205 Geneva

Prof. Nicolas Theumann, MD
Radiologie
Clinique Bois-Cerf
Avenue d’Ouchy 31
1006 Lausanne

Prof. Karin Wuertz-Kozak, MD
Institute of Biomechanics
ETH Zurich
Hönggerbergring 64
8093 Zurich

Ken Yonemura, MD
Lakeview Hospital
630 Medical Dr, Bountiful
84010 Salt Lake City, US
The Kursaal Bern is very conveniently located and has its own tram stop. We recommend the use of the city’s excellent public transport system. Trams operate between Bern Railway Station and the “Kursaal” stop in both directions at approximately 10-minute intervals.

**Arriving by train:**
On arrival at Bern Railway Station, take tram no. 9 in the direction of “Wankdorf Bahnhof”. Get off 5 minutes later at the “Kursaal” tram stop.

**Arriving by car:**
- Highway exit Bern-Wankdorf, follow the signage Zentrum-Papiermühlestrasse
- follow the street until 3rd crossing, turn right into Viktoriastrasse and follow signage Hotel Allegro/Kursaal
- at Viktoriaplatz turn left into Kornhausstrasse. Hotel Allegro/Kursaal is situated on the right side

---

**Premium Partner**

**Medtronic**
Further, Together

**Partners**

1a medical ag
Baxter
BienAir Surgery
biom’up
BRAINLAB
DePuy Synthes
Globus Medical
HOSPITEX SURGICAL
Inomed
Medacta International
Medeco-ch
Medtronic
NeuroLITE Anatomical Medical Interfaces
nevro
NuVasive
Paradigm Spine Ltd Worldwide Spinal Care
spine surgical solution provider
Stöckli Medical
Zimmer Biomet

**Further sponsor**

Fehling Instruments GmbH & Co. KG
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

Website & Abstract submission
ssns2018.congress-imk.ch