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

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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>
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<tbody>
<tr>
<td>SSNS Member physicians</td>
<td>CHF 200</td>
<td>CHF 250</td>
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<tr>
<td>Non member physicians</td>
<td>CHF 250</td>
<td>CHF 300</td>
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<tr>
<td>Assistants</td>
<td>CHF 100</td>
<td>CHF 150</td>
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Please register online via the congress website.
### Morning session

**Sarcopenia, Biology of Aging, Pain Imaging and Discectomy**

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Chair(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>08:50-09:00</td>
<td>Welcome Address</td>
<td>Adrian Merlo, Bern</td>
</tr>
<tr>
<td>09:00-10:00</td>
<td><strong>Session I: Biology of Aging/Pain Imaging/Discectomy News</strong></td>
<td>Oliver Hausmann, Lucerne; Daniel May, Meyrin</td>
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<td></td>
<td>Chairs</td>
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<tr>
<td>09:00-09:15</td>
<td>Inflammaging: molecular pathology of spinal aging</td>
<td>Karin Wuertz-Kozak, Zurich</td>
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<tr>
<td>09:20-09:35</td>
<td>Structural changes in the brain in chronic back pain patients</td>
<td>Petra Schweinhardt, Zurich</td>
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<tr>
<td>09:40-09:55</td>
<td>Minimally invasive lumbar discectomy</td>
<td>Nicolas Theumann, Lausanne</td>
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<tr>
<td>10:00-10:30</td>
<td><em>Coffee break in the industrial exhibition</em></td>
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<tr>
<td>10:30-11:30</td>
<td><strong>Session II: AOSpine-Session “Sarcopenia”</strong></td>
<td>Gregory Jost, Basel; Martin Baur, Nottwil</td>
</tr>
<tr>
<td>10:30-10:45</td>
<td>Old persons, sarcopenia and the spine</td>
<td>Thomas Münzer, St. Gallen</td>
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<tr>
<td>10:50-11:05</td>
<td>Musculoskeletal modeling of sarcopenia for prediction of associated spinal loads</td>
<td>Stephen Ferguson, Zurich</td>
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<tr>
<td>11:10-11:25</td>
<td>3D back muscle analysis and the role of MIS TLIF</td>
<td>Sven Hoppe, Bern</td>
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<tr>
<td>11:30-11:50</td>
<td><strong>Session III: Dorsal Dynamic Stabilization Using Pedicular Screws</strong></td>
<td>Ulrich Seidel, Bern; François Porchet, Zurich</td>
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<tr>
<td>11:30-11:45</td>
<td>The fusion dogma: is there a need for dynamic implants?</td>
<td>Oliver Gautschi, Lucerne</td>
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<tr>
<td>11:50-13:15</td>
<td><em>Lunch in the industrial exhibition</em></td>
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Afternoon session

Dorsal dynamic and interspinous stabilization

<table>
<thead>
<tr>
<th>Time</th>
<th>Session III: Dorsal Dynamic Stabilization Using Pedicular Screws</th>
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</thead>
<tbody>
<tr>
<td>13:15-15:10</td>
<td>Chairs Raoul Heilbronner, St. Gallen; Ulrich Seidel, Bern; Thomas Markwalder, Gerzensee</td>
</tr>
<tr>
<td>13:15-13:30</td>
<td>Biomechanics of dynamic implants Stefan Freudiger, Bern</td>
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<tr>
<td>13:35-13:50</td>
<td>Dynamic dorsal implants – a large case series Philipp Cathrein, Biel</td>
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<tr>
<td>13:55-14:10</td>
<td>Dynamic stabilization using the stabilimax system Ken Yonemura, Salt Lake City (US)</td>
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<tr>
<td>14:15-14:30</td>
<td>Dynamic stabilization using the spine shape system Robert Andres, Bern</td>
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<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 Ian Shackleford, Warrington, Cheshire (UK)</td>
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<thead>
<tr>
<th>Time</th>
<th>Coffee break in the industrial exhibition</th>
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<td>15:00-15:30</td>
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<tr>
<th>Time</th>
<th>Session IV: Interspinous stabilization</th>
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<tr>
<td>16:00-17:00</td>
<td>Chairs Ulrich Berlemann, Bern; Javier Fandino, Aarau</td>
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<td>16:05-16:17</td>
<td>Interspinous stabilization: a review Ulrich Berlemann, Bern</td>
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<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 Michael Rauschmann, Offenbach (DE)</td>
</tr>
<tr>
<td>16:35-16:47</td>
<td>Interspinous stabilization using Coflex Ken Yonemura, Salt Lake City (US)</td>
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<tr>
<td>16:50-17:00</td>
<td>Interspinous stabilization as topping off Ulrich Seidel, Bern</td>
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<tr>
<td>17:00</td>
<td>Conclusion Adrian Merlo, Bern</td>
</tr>
</tbody>
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from 17:15 Apéro
Speakers and Chairmen

PD Robert Andres, MD
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Département de Neurochirurgie
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Prof. Karin Wuerzt-Kozak, PhD
Institute of Biomechanics
ETH Zurich
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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.

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- Zimmer Biomet

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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

Website & Abstract submission
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