



**Update Jan 10**

THE BETHANIA SPINE BASE

UNDER THE AUSPICES OF THE  
INTERNATIONAL SOCIETY FOR MINIMAL INTERVENTION IN SPINAL SURGERY  
I S M I S S ([www.ismiss.com](http://www.ismiss.com)) / SICOT

p r e s e n t s

t h e ***final program*** o f  
t h e u p c o m i n g

**INTERNATIONAL 27<sup>th</sup>**

**COURSE FOR PERCUTANEOUS ENDOSCOPIC  
SPINAL SURGERY AND COMPLEMENTARY  
MINIMAL INVASIVE TECHNIQUES**

SYMPOSIUM WITH INTERNATIONAL GUEST FACULTY  
& WORKSHOP DEMONSTRATIONS / TECHNICAL EXHIBITION

C o u r s e C o - C h a i r m e n :

**Hansjoerg F. Leu, M.D. - Stefan M. Kern, M.D.**

**January 29 / 30, 2009, Bethania Hospital**

**C H - 8 0 4 4 Z u r i c h - S w i t z e r l a n d**  
Course Secretary's fax: x41-[0]-43-268 28 01 / e-mail: [bethania-spine@bluewin.ch](mailto:bethania-spine@bluewin.ch)

***S S O / S G O - C r e d i t s : 1 6***

10:30 am Registration

**OPENING**

MODERATOR : LEU Hj.

12:00 pm Welcome address from Bethania Hospital / Diacony Foundation Bethania Jorns F.

**FIRST SESSION**

MODERATOR : SCHREIBER A.

12:05 pm Static and dynamic imaging analysis in degenerative disc disease Fischer H.  
 12:15 pm Neuroradiologic imaging in spinal pathologies: state of the art Schuknecht B.  
 12:25 pm Anatomical aspects in minimal approach to cervico/thoraco/lumbar spine Rauschnig W.  
 12:50 pm Thirty cases of intra spinal epidural cysts - a histopathological study Nijishima Y.  
 1:00 pm Pain therapy in radicular pain Niebergall H.  
 1:10 pm Altering the natural history of LDD: do mechanical intradiscal therapies work? Singh H.  
 1:20 pm Pre-surgical pain management for lumbar DDD Abdi S.  
 1:35 pm Effects of commonly used epidural medications on a human fibroblast cell culture Birkenmaier C.  
 1:45 pm MR-guided percutaneous endoscopic lumbar herniotomy Lee S.  
 2:00 pm 5 year's follow-up on intradiscal ozone injection for disc herniation Buric J

**2:00 pm Coffee Break in the industrial exhibition area**

**SECOND SESSION**

MODERATOR : DEZAWA A.

2:40 pm Are we really safe around the intervertebral foramen ? A cadaver study Yazar T.  
 2:50 pm Endoscopic lumbar surgery : a personal experience since 1986 Leu Hj.  
 3:10 pm Percutaneous endoscopic lumbar discectomy for lateral lumbar disc herniation Miura Y.  
 3:20 pm Transforaminal endoscopic stenosis surgery (TESS) Morgenstern R.  
 3:40 pm TEST<sup>TM</sup>: transforaminal endoscopic lumbar surgery: technique/experience since 2004 Alfen F.  
 3:50 pm Transforaminal endoscopic discectomy and foraminoplasty after FBSS Gozlan E.  
 4:00 pm Endoscopic transforaminal discectomy for recurrent lumbar disc herniation Hoogland T.  
 4:10 pm Full-endoscopic cervical discectomy with posterior and anterior approach Ruetten S.  
 4:20 pm Percutaneous endoscopic treatment of lumbar and thoracic disc infection Lübbers T.  
 4:30 pm Post fusion junctional disc herniation syndrome treated with endoscopic spine surgery Chiu J.  
 4:40 pm Surgical endoscopy and percutaneous interbody fusion in recurrent disc herniations Gastambide D.  
 4:50 pm Endoscopic lumbar fusion Tolgay S.  
 5:00 pm Endoscopic stabilization of thoracolumbar spine fractures with the MACS TL-plate Heintelmann M.  
 5:10 pm Lumbar vertebrogenic pain syndromes: its approach from medical history Rüttimann B.

**5:20 pm Discussion / Break**

**MAGISTRAL LECTURE**

MODERATOR : LEU Hj.

the *ISMISS pioneer-guest lecture 2009* :

5:40 pm ***Percutaneous endoscopic spinal surgery for degenerative disc disease : from pioneering applications in 1989 to proven standards in 2009***

***Andrea Fontanella, M.D., Ospedale "Città di Parma", Parma / Italy***

6:20 pm Question and answer period

6:30 pm Transfer by tramway No. 6 to Leonhardstrasse's hotels; departure from line stop Toblerplatz  
 Transfer from hotels to aperitif and dinner by footwalk 4-7 min

7:30 pm **Aperitif at the Zurich University Museum for Medical History, Rämistrasse 69, introduction to the museum's actual medico-historical thematic exhibition "From science to know-how"** Rüttimann B.  
 Böni Th.  
 Wyder M.

8:15 pm **Course-dinner at the "Dozentenfoyer", Eidgenössische Technische Hochschule ETH / Federal Institute of Technology FIT, Rämistr. 101, Zurich (Tramway No. 6)**

**THIRD SESSION**

MODERATOR : SCHREIBER A.

7:30 am	Universal endoscopic discectomy	Rezaian S.
7:40 am	Minimally invasive treatment in DDD: classification on pain generator, in-/ex-trinsic	Choi P.
7:50 am	Prosp. random. comparison of kyphoplasty with non-surgery in osteoporotic fractures	Wardlaw D.
8:00 am	Mid-term results (3 years) after cervical disc decompression with nucleoplasty	Gitter S.
8:10 am	Minimally invasive treatment of epidural lipomatosis	Frank E.
8:20 am	Muscle preserving microscopic laminoplasty for cervical myelopathy	Nakai S.
8:30 am	Minimal invasive thoracolumbar approach without section of diaphragm	Dezawa A.
8:40 am	A 7-year experience with percutaneous spinal cord stimulation	Kim K.
8:50 am	Spinal cord repair with adult stem cells - technique, indications and first clinical results	Haberland N.
9:00 am	<i>Video-live-transmission</i>	<i>Leu Hj., Kern S.</i>

**FOURTH SESSION**

MODERATOR : BIRKENMAIER C.

9:10 am	The concept of motion preservation through spinal fusion	Orlov S.
9:20 am	Minimal invasive anterior thoraco/lumbar approaches +/- endoscopic assistance	Klößner C.
9:30 am	Minimally invasive TLIF: indications, surgical technique and results	Pereira P.
9:40 am	Minimal invasive lumbar spinal surgery	Tikhodeev S.
9:50 am	Osteo-con-/inductive bone substitutes: their role in minimal invasive fusion techniques	König D.
10:00 am	Bioactive ceramic implants in spine surgery	Radchenko V.
10:10 am	Technology of enlargement of the interbody contact area by cage at PLIF	Bryekhov A.
10:20 am	Vesselplasty - a novel method for minimal invasive kyphoplasty in vertebral fractures	Kilian F.
10:30 am	<i>Video-live-transmissions</i>	<i>Leu Hj., Kern S.</i>
<b>10:40 am</b>	<b>Coffee break in the industrial exhibition area</b>	

**FIFTH SESSION**

MODERATOR : CALVOSA G.

11:30 am	Non-fusion lumbar stab. with a hinged pedicle screw rod system - in vitro experiment	Schmoelz W.
11:40 am	Myths and realities in posterior dynamic stabilization	Nydegger T.
11:50 am	Dynamic restabilization of degenerative lumbar instability: updated experiences	Wendsche P.
12:00 am	Dynamic interspinous restabilization with Coflex® in erosive osteochondrosis	Weinzierl F.
12:10 am	Posterior dynamic stabilization	Sak L.
12:20 am	Aperius® interspinous spacer vs open surgery in degenerative lumbar spinal stenosis	Menchetti P.
12:30 am	Pedicular lumbar dynamic stabilization with the Dynesys® system : a 100 case report	Rühli M.
12:40 am	Complication rate in percutaneous lumbar spine fusion	Wimmer C.
12:50 am	Surgical tactics in spinal degenerative diseases as a pregravid preparation element	Sulima A.
<b>1:00 pm</b>	<b>Luncheon in the industrial exhibition area</b>	

**SIXTH SESSION**

MODERATOR : LEU HJ.

2:00 pm	Socio-economic strategies in spinal surgery	Sullivan M.
2:10 pm	Endoscopic interlaminar lumbar disc surgery with Easy GO	Oertel J.
2:20 pm	In vitro comp.: a novel introvert. stenting vs balloon kyphoplasty in compression fx	Fürderer S.
2:30 pm	Vertebroplasty with high-visc. PMMA facilitates full vertebral body height restoration	Schmoelz W.
2:40 pm	Minimally invasive stabilization in traumatic vertebral fractures	Pedachenko E.
2:50 pm	Vesselplasty using SrHA New cement (Osteo-G®)	Darwono S.
3:00 pm	New fractures in osteoporotic patients treated with kyphoplasty	Guizzardi G.
3:10 pm	Incorrect fracture analysis in kyphoplasty - potential for severe complications	Birkenmaier C.
3:20 pm	The posterior approach of the NuBac®: Clinical results of a prospective cohort study	Giltaij L.
3:30 pm	Development of an algorithm for tt of DDD by implanting motion preservation devices	Büttner K.
3:40 pm	Mid-term results with NuCore® lumbar discotomy nucleus replacement	Schwarzenbach O.
3:50 pm	Ass.ment of pain in activity/rest/night. Do we have to assess all three different pains?	Huber J.
<b>4:00 pm</b>	<b>round up / questions / discussion / symposium closure</b>	

**WORKSHOP**

(workshop registrees with batch only)

MODERATOR : KERN S.

04:30 pm **Percutaneous endoscopic approaches to the lumbar spine and complementary procedures**  
 - 05:45 pm such as : foraminoscopic / endoscopic microdissection / nucleoplasty / new technologies  
**Experts :** cf. scientific program and respective contributors

**COURSE FACULTY**

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**COURSE DIRECTION**

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**COURSE VENUE**

Privatklinik Bethanien, Auditorium and Conference Rooms, ground-floor, CH-8044 Zurich, Phone: x41-43-268 11 11

**COURSE INFORMATION**

Secretary PESS-27, c/o Bethania Spine Base, Toblerstrasse 51, CH-8044 Zurich, Phone: x41/43/268 28 00,  
 Fax : x41/43/269 28 01, e-mail: bethania-spine@bluewin.ch , www.ismiss.com, Hotel reservation: www.zuerichtourism.ch

**INDUSTRIAL CONTRIBUTORS**

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## ***The ISMISS board's welcome address :***

Nearly fifty years after clinical introduction of classic laminectomy for treatment of symptomatic lumbar disc herniations in 1934, in the later eighties of the last century, as a minimal invasive alternative to conventional surgical procedures and enzymatic intradiscal treatments in contained lumbar disc herniation, the concept of percutaneous disc decompression with nucleotomy came from Japan to Europe in 1979. Since 1982 the complementary endoscopic control brought a direct optic control for more selective tissue removal. The main advantage of minimally invasive procedures made the sparing approach with minimal musculoligamentary irritation in its access way. Beside the impact of endoscopy for selective removal of disc fragments, direct visualization allowed also adequate preparation of the vertebral endplates for percutaneous interbody fusion, introduced in 1987/88. Since 1992 laparoscopic interbody fusion and later minimal open lateral techniques araised as a complementary technique for interbody fusion, e.g. at the the lumbosacral transition, often hardly accessible for posterolateral endoscopic techniques. In 2001, low profile expandable interbody spacers came up allowing primary stability also for percutaneous interbody fusion technique. At the same time, percutaneous instrumentation for posterior internal fixation brought a new way for posterior stabilization in combination to interbody osteoinductive components.

Since 1988 anterior total disc replacement and since 1994 dynamic posterior implants became available as first steps to a new generation of lumbar restabilization without fusion. Results remain to follow. Recently also minimal interspinal non-fusion stabilization with dynamic implants furhter challenges the field.

As a new field of extradiscal endoscopic surgery, percutaneous foraminoscopic decompression became stepwise standardized since 1991 for the different forms of foraminal disc herniations. As a most important step, since 1999 the interlaminar full endoscopic exploration of the lumbar spinal canal became available for the removal of mediolateral to medioforaminal herniations. So endoscopic decompression challenges microscopic and tubular endoscopic techniques.

Beside technical operative aspects also clinical analysis of indications, learning-curves and follow-up criteria deserve our interest in worldwide economically restricted conditions and an evident need for outcome quality control.

So in the 30th year of practice, this upcoming International 27th Course shall again reflect the evolutions up to the actual state of the art and ongoing innovative developments in this continuously evolving branch of spinal surgery. Again international pioneers and experts sharing the course faculty promise to contribute to the vivid and collegial atmosphere of this traditional course.

Zurich, June 2008

John Chiu, M.D.

Hansjoerg F. Leu, M.D.

Past President ISMISS

President ISMISS 2008/2011 / Course Chairman

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**APPLICATION FOR ENROLMENT ( return by mail or fax back to : x41-[0]-43-268 28 01 )**

( WORKSHOP ENROLMENT RESTRICTED - EARLY REGISTRATION RECOMMENDED ! )

I enrol for the **International 27<sup>th</sup> Course for Percutaneous Endoscopic Spinal Surgery and Complementary Minimal Invasive Techniques**,  
Jan 29/30, 2009, Bethania Hospital/Zurich, Switzerland

Simultaneously to this enrolment, I transfer the fee of (*please mark the desired combination*)

CHF 700.- / EUR 460.- / US\$ 700.- for the whole course including 2 days symposium and workshop

CHF 600.- / EUR 400.- / US\$ 600.- for the 2 days symposium only, without workshop

precisely to the account: IBAN CH79 0070 0113 7000 1151 8 at  
Banque Cantonale de Zurich, SWIFT: ZKBKCHZZ80A, BLZ: 700, CH-8001 Zurich;  
Beneficiary: Hj.Leu. With the remark:"PESS-27", or by equivalent transferable bank cheque.

No cancellation / refund after Jan 12, 2009 accordable.

**Please use printed letters :**

Name : .....

Address : .....

Degree/Specialty : .....

Phone : ..... Fax : .....

e-mail : .....

Date : ..... Signature : .....

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**Course-Coordinator**

Hansjoerg Leu, M.D., Bethania Spine Base  
Toblerstrasse 51, CH-8044 Zurich / Switzerland

**Course Venue**

Auditorium and conference rooms, Bethania Hospital  
Toblerstrasse 51, CH-8044 Zurich, Switzerland  
Front Office : x41-[0]-43-268 70 70

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## **Hotel – recommendable accommodations for registrees :**

Room reservation is recommended as soon as possible at :

Zurich Tourist Service, P.O. Box, CH-8023 Zurich

Phone: x 41-44-215 40 40 / Fax: x 41-44-215 40 44

Web [www.zurichtourism.ch/hotel](http://www.zurichtourism.ch/hotel) .

Hotel Glockenhof \*\*\*\*,

rather comfortable, centrally located left side, Tramway 6 uphill in direction Zoo until stop "Toblerplatz", Sihlstrasse 31, CH-8001 Zürich

Tel x41-44- 225 91 91, Fax x41-44-225 92 92, Web [www.glockenhof.ch](http://www.glockenhof.ch)

Hotel Rigihof \*\*\*\*

rather comfortable, nearest to course venue, 9' footwalk, Universitätstrasse 101, CH-8006 Zürich, Tel x41-44-361 16 85, Fax x41-44-361 16 17, Web [www.hotel-rigihof.ch](http://www.hotel-rigihof.ch)

Zürich, Tel x41-44-361 16 85, Fax x41-44-361 16 17, Web [www.hotel-rigihof.ch](http://www.hotel-rigihof.ch)

Hotel Florhof \*\*\*

elegant, romantic set-up in traditional palais, Tramway 5 from "Kunsthau/Heimplatz"

uphill to „Fluntern“, from There Tramway 6 to „Toblerplatz“, Florhofgasse 4, Ch-8001

Zürich, Tel x41-44-250 26 26, Fax x41-44-250 26 27, Web [www.florhof.ch](http://www.florhof.ch)

Hotel Leoneck \*\*\*

good comfort, near to FIT (course dinner), on tramway line 6, stop "Haldenegg",

easy for tramway 6 transfer uphill, until stop "Toblerplatz" nearby the Bethania Hospital;

Leonhardstrasse 1, CH-8001 Zurich, Tel x41-44-254 22 22, Fax x41-44-254 22 00, Web

[www.leoneck.ch](http://www.leoneck.ch)

Hotel Rütli \*\*\*

good comfort, centrally located right side, footwalk 5 min to tram stop Universitätsspital,

from there uphill with Tramway 6 until „Toblerplatz“, Zähringerstrasse 43, CH-8001 Zürich

Tel x41-44-254 58 00, Fax x41-44-254 58 01, Homepage [www.rutli.ch](http://www.rutli.ch)

Hotel Poly \*\*

reasonable comfort, nearest \*\* to course venue, 10' footwalk uphill to Rigiplatz, from there

right on Gladbachstrasse, then left after some 300 m into Toblerstrasse, follow until 51

Universitätstrasse 63, CH-8006 Zürich

Tel x41-1-362 94 40, Fax x41 361 62 12, Web [www.hotel-poly.ch](http://www.hotel-poly.ch)

Hotel Arlette \*\*

reasonable comfort, 6' footwalk to "Central", from there Tramway 6 uphill until to

"Toblerplatz", Stampfenbachstr. 26, 8001 Zürich

Tel +41-44-252 00 32, Fax -, Mail [hotel.arlette@bluewin.ch](mailto:hotel.arlette@bluewin.ch)

Hotel Bristol \*\*

reasonable comfort, 7' footwalk to "Central", from there Tramway 6 uphill until to

"Toblerplatz", Stampfenbachstr. 34, 8001 Zürich

Tel +41-44-258 44 44, Fax x41-44-258 44 00, Web [www.hotelbristol.ch](http://www.hotelbristol.ch)

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