



## 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) / 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 26<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 :

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

**January 24 / 25, 2008, Bethania Hospital**

**CH - 8044 Zurich - Switzerland**  
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 Schönenberger U.

**FIRST SESSION**

MODERATOR : SCHREIBER A.

- 12:05 pm Diagnostic radiology of degenerative diseases of the lumbar spine Fischer H.
- 12:15 pm Diagnosis of spinal disorders: the radiologists' point of view Hodler J.
- 12:25 pm Anatomical basics in regard of minimal invasive lumbar spinal procedures Rauschnig W.
- 12:50 pm Changes in the microhemodynamics of nerve roots in lumbar stenosis during MISS Dezawa A.
- 1:00 pm CT guided infiltrations in the cervical and lumbar spine Schuknecht B.
- 1:10 pm Percutaneous radiofrequency medial branch neurotomy for chronic neck pain Niebergall H.
- 1:20 pm Intraoperative 3-D-imaging for spinal Navigation: CT or the 3-D-C-arm ? Haberland N.
- 1:30 pm Minimal invasive approaches to the anterior lumbar spine/thoracolumbar junction Klößner C.
- 1:40 pm Disability in low back pain Sullivan M.
- 1:50 pm MIESS: A Surgeon's perspective and emerging technical considerations Chiu J.

**2:15 pm Coffee Break in the industrial exhibition area**

**SECOND SESSION**

MODERATOR : SULLIVAN M.

- 2:40 pm Endoscopic lumbar disc surgery: its uprise and actual foraminoscopic concept Leu Hj.
- 2:50 pm EMG-monitoring & navigation in transforaminal endoscopic disc surgery Lübbers T.
- 3:10 pm Transforaminal endoscopic spine surgery (TESS) Morgenstern R.
- 3:20 pm Full-endoscopic surgery of the spine with interlaminar/dorsal approaches Ruetten S.
- 3:40 pm Minimally invasive spinal techniques using tubular retractor Pereira P.
- 3:50 pm Radiofrequency: application in lumbar ddd with the „3 in 1“ technique Hellinger S.
- 4:00 pm The translaminar approach to cranially extruded lumbar disc herniations Papavero L.
- 4:10 pm Percutaneous endoscopic discectomy via transiliac transforaminal approach in L5/S1 Lee J.
- 4:20 pm Percutaneous cervical disc decompression Tolgay S.
- 4:30 pm Minimally invasive therapy for all kind of disc herniation : 7 years experience in Brazil Choi P.
- 4:40 pm Natural history of postoperative CRP and LC levels after open/endoscopic surgery Kraft C.
- 4:45 pm Clinical application of human bone marrow progenitors in spinal fusion Choi J.
- 4:50 pm Micro-hemodynamics of nerve roots in lumbar stenosis during MISS Dezawa A.
- 5:00 pm Severe instability after kyphoplasty: tt options and impact on indication for kyphoplasty Birkenmaier C.
- 5:10 pm Conceptions on spine disease in historic medicine Rüttimann B.

**5:20 pm Discussion / Break**

**MAGISTRAL LECTURE**

MODERATOR : LEU Hj.

the *ISMIS* pioneer-guest lecture 2008 :

5:40 pm ***Minimal invasive endoscopic lumbar surgery :***

***a ten year's experience***

***Jean Destandau, M.D., Clinique La Bagatelle, Bordeaux / France***

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 Museum for Medical History, Rämistrasse 69,** Rüttimann B.  
**introduction to the museum's actual historical thematic exhibition** Böni Th.  
**“Bye by the sister nurses: history of the Zurich' nursing school Theodosianum”** 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 Percutaneous endosc. discectomy via contralateral approach for distally migrated LDH Chung J.
- 7:40 am Microdecompression of the nerve root in lumbar isthmic spondylolisthesis Nishijima Y.
- 7:50 am Laser debulking versus vacuum-probe decompression: 100 cases / comparative study Berenji A.
- 8:00 am Laser-assisted endoscopic herniectomy for migrated cervical & lumbar discs Lee S.
- 8:10 am Selective single-level laminectomy for cervical DH: comparison to anterior dec./fusion Sizu N.
- 8:20 am Clinical outcome and segmental range of motion in lumbar TDR: a >2-year follow-up Choi J.
- 8:30 am Experiences with the M6-cervical disc prosthesis Kilian F.
- 8:40 am Nubac<sup>®</sup> disc arthroplasty: design rationale and clinical evaluation Giltaij L.
- 8:50 am Percutaneous lumbar fusions: indications and pitfalls Gastambide
- 9:00 am *Video-life-transmission* Leu Hj., Kern S.

**FOURTH SESSION**

MODERATOR : NAKAI S.

- 9:10 am Less invasive lumbar spine fusion: a comparison study Wimmer C.
- 9:20 am Minimally-invasive lumbar interbody fusion (MiLIF) matches open fusion: 5 reasons Hardenbrook M.
- 9:30 am Percutaneous anterior lumbar stabilization Fontanella A.
- 9:40 am Minimal invasive stabilisation of lumbar degenerative spine Radchenko V.
- 9:50 am Success enhancement in minimally invasive fusion : bioactive instrumentation surface Frank E.
- 10:00 am Technologies of cage implantation for posterior interbody spine stabilization Brekhov A.
- 10:10 am Transaxial fixation of the lumbosacral segment as a stand-alone procedure Zeilstra D.
- 10:20 am Dynamic restabilization of degenerative lumbar instability: updated experiences Wendsche P.
- 10:30 am Biomechanical analysis of dynamic stabilization in degenerative lumbar deformities Nyedegger T.
- 10:40 am *Video-life-transmissions* Leu Hj., Kern S.
- 10:50 am **Coffee break in the industrial exhibition area**

**FIFTH SESSION**

MODERATOR : TOLGAY S.

- 11:30 am Lumbar dynamic restabilization of the posterior elements: interspinous "bracing" Bini W
- 11:40 am Interspinous X-stop<sup>®</sup> device in lateralis stenosis in older patients : Pisa's experience Calvosa G.
- 11:50 am Diam<sup>®</sup> technique in lumbar spine surgery Tikhodeev S.
- 12:00 am The Diam<sup>®</sup> interspinous stabilization for low back pain: 24 months follow up Buric J.
- 12:10 am Tt of degenerative lumbar affections with interspinous device Coflex<sup>®</sup> first experience Sak L.
- 12:20 am Clinical experiences with Coflex<sup>®</sup>: an interspinous dynamic stabilization device Weinzierl F.
- 12:30 am New percutaneous l.a. device for lumbar spinal stenosis - 25 Cases using Superior<sup>®</sup> Gepstein R.
- 12:40 am Aperius<sup>®</sup> PercLID: Indication, surgical technique and preliminary results Menchetti P.
- 12:50 am Preoperative volume planning for vertebroplasty Orlov S.
- 1:00 pm **Luncheon in the industrial exhibition area**

**SIXTH SESSION**

MODERATOR : LEU HJ.

- 2:00 pm Vertebroplasty in vertebra plana - feasibility and indication Fürderer S.
- 2:10 pm Anterolateral percutaneous vertebroplasty at C2 for metastasis & facet joint block Kim K.
- 2:20 pm Percutaneous vertebroplasty in posttraumatic vertebral osteonecrosis (Kummel disease) Pedachenko E
- 2:30 pm A novel kyphoplasty system Xvoid<sup>®</sup> : a prospective trial in osteoporotic compression Kraft C.
- 2:40 pm Kyphoplasty : minimal invasive percutaneous treatment of vertebral body fracture Rühli M.
- 2:50 pm Vesselplasty. A New Concept to treat Vertebral Compression Fractures Darwono B.
- 3:05 pm Biomechanical analysis of "spine pearls" for intravertebral corpuscular vertebroplasty Schmoelz W.
- 3:15 pm Spine pearls<sup>®</sup>: first operative experience and clinical results Huber J.
- 3:20 pm Nucore<sup>®</sup>: an injectable in-situ curing nucleus replacement : follow-up-date in 15 cases Schwarzenbach O.
- 3:30 pm Minimal Access non-instrumented pars interarticularis repair using BMP 2 Wilson L
- 3:40 pm Assessment and documentation: free anamnesis vs.structured patient questionnaire Huber J.
- 3:50 pm German DRG in lumbar spine surgery: its impact on clinical practice, and quality ? König D.
- 4:00 pm **round up / questions / discussion / symposium closure**

**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 / transaxial fusion / nucleoplasty / assessment  
 questionnaire instruction / new technologies

**Experts :** Destandau J., Gepstein R., Huber J., Kern S., Leu Hj., Papavero L., Panoussopoulos A., Ruetten S., Zeilstra D.

**COURSE FACULTY**

**Berenji A.**, M.D., Orthop.Spine Surgery, CA-93030 Oxnard/California, U.S.A; **Bini W.**, Dr.med.; Neurochir. Emma-Klinik, D-63500 Seligenstadt/Germany; **Birkenmaier C.**, Dr.med., Orthop. Klinik, LMU Grosshadern, D-81277 München/Germany; **Boeni Th.**, Orthop.Univ.Klinik Balgrist, CH-8008 Zürich/Switzerland; **Brekhov A.**, Prof.Dr., Dept. Orthop. Traumatol., Crimea State University, UA-95006 Simferopol/Ukraine; **Buric J.**, Neurochirurgia, I-50023 Firenze/Italy; **Calvosa G.**, Dr.med., Centro Ippocrates, Clinica Ortopedica 1°, Università di Pisa, I-56100 Pisa/Italy; **Chiu J.**, Neurosurgeon, CA-91320 Newbury Park/California, U.S.A.; **Choi J.**, Dept. of Neurosurgery, 21st Century Hospital, KR-137-070 Seoul/Korea; **Choi P.**, Dr.med., BZ-01234-001 São Paulo/Brasil; **Chung Jae-Yoon**, Orthop. Chonnam National University Hospital, KOR-501 757 Gwangju/Korea; **Darwono B.**, M.D., Orthop., Gading Pluit Hospital, Jakarta/Indonesia, **Destandau J.**, Neurochir. Hôpital "La Bagatelle", F-33000 Bordeaux/France; **Dezawa A.**, Ass.Prof.Dr.med., Dept. Orthopaedics, Mizonokuchi Hospital, JP-213-8507 Kawasaki/Japan; **Fischer H.**, Dr. med., Chefarzt Radiologie, Spital Zollikerberg, CH-8125 Zollikerberg/ Switzerland; **Fontanella A.**, Neurochirurgo, Casa di Cura Città di Parma, I-43100 Parma/Italy; **Fürderer S.**, Dr.med., Orthop.Gem.Praxis, D-54290 Trier/Germany; **Gastambide D.**, Dr.med., Chir. Orthop., Centre de Tourville, F-75007 Paris/France; **Gepstein R.**, M.D., Head Spine Unit, Spir Medical Center, IL-44281 Kfar-Saba/Israel; **Giltaji L.**, M.D., MBA, Clin.Research, NL-3972 Driebergen/Netherlands; **Haberland N.**, CA Neurochirurgie, BGU Frankfurt, D-60389 Frankfurt a.M./Germany; **Hardenbrook A.**, Orthop. Naval Med.Center, VA-23708 Portsmouth/Virginia, U.S.A.; **Hellinger S.**, Dr.med., Orthopädie Schäfflerhof, D-80333 München/Germany; **Hodler J.**, Prof.Dr.med., CA, Abteilung Radiologie, Orthopädische Universitätsklinik, CH-8008 Zürich/ Switzerland; **Huber J.**, Dr.med., LA Orthopädie, KSA, CH-5400 Aarau/ Switzerland; **Kern S.**, Dr.med., Orthopädische Chirurgie FMH, CH-8044 Zürich/Switzerland; **Kilian F.**, Dr.med., CA Wirbelsäulen Chirurgie, Katholisches Klinikum Bruderhaus, D-56073 Koblenz/Germany; **Kim K.**, MD PhD, Ass. Prof., Dept. Anaesthesia & Pain Medicine, Pusan National University, KR-602-739, Pusan/Korea; **Klöckner C.**, PD Dr.med., Orthopaedic Spine Surgery, CH-8004 Zürich/Switzerland; **König D.**, CA Orthop.Klinik, D-41749 Viersen/Germany; **Kraft C.**, PD Dr.med., Orthop.Univ.-Klinik, D-40001 Düsseldorf/Germany; **Lee J.**, Ass.Prof., Orthop.Chonnam National University, KOR-501-757 Gwangju/Korea; **Lee S.**, M.D., Ph.D., Director Wooidul Spine Hospitals, KOR-135-100 Seoul/Korea; **Leu Hj.**, PD Dr.med., Bethania Spine base, CH-804 Zürich/Switzerland; **Lübbers Th.**, Neurochirurgie Ludmilenstift, D-49714 Meppen/Germany; **Menchetti P.**, Ortopedia Villa Cherubini, I-50100 Firenze/Italy; **Morgenstern R.**, Chir.Orthop., E-08950 Barcelona/Spain; **Nakai S.**, Prof., Dept.of Orthopaedic Surgery, Fujita-Health University School, Jp-470-1192 Toyoake/Japan; **Niebergall H.**, Dr.med., Anaesthesiology and pain therapy, CH-8125 Zollikerberg/Switzerland; **Nishijima Y.**, Orthopaedic Spinal Surgery, Nishijima Spine Clinic, JP-182-0024 Tokyo/Japan; **Nydegger T.**, Dr.Ing., Biomechanische Abteilung, ZIMMER GmbH, CH-8404 Winterthur/Switzerland; **Orlov S.**, M.D., Head of Neurosurgery, Clinic Alvadi, RU-236006 Kaliningrad/Russia; **Panoussopoulos A.**, Dr.med., Orthopädie Klinik Sanitas, CH-8802 Kilcherg/Switzerland; **Pedachenko E.**, Prof.Dr.med., Neurosurgery, UA-04050 Kyiv/Ukraine; **Pereira P.**, Neurocirurgia, Hosp.S.João, P-4200-319 Porto/Portugal; **Radchenko V.**, Dr.med., Kharkov Institute of Orthopaedics "M.Y. Sytenko", UA-310024 Kharkov/Ukraine; **Rauschnig W.**, Prof. Dr. med., Inst. für ortopedie, Akademiska sjukhuset, S-75185 Uppsala/Sweden; **Rühli M.**, Orthop.Spine Surgery, Klinik Hirslanden, CH-8008 Zürich; **Ruetten S.**, Dr.med., Orthopaedic Spine Surgery, St.Anna-Hospital, D-44694 Herne/Germany; **Rüttimann B.**, Prof.Dr.med., Direktor, Med.-hist. Institut der Universität Zürich, CH-8006 Zürich/Switzerland; **Sak L.**, MD, Neurosurgery, Magnit Medical Center, RU-455018 Magnitogorsk/Russia; **Schmoelz W.**, Dr.Dipl.Ing., Universitätsklinik für Unfallchirurgie, A-6020 Innsbruck/Austria; **Schreiber A.**, Prof.Dr.med., Honorarprofessor für Orthopädie, CH-8700 Küsnacht/Switzerland; **Schuknecht B.**, Radiologe, MRI-Zentrum Bethanien, CH-8044 Zürich/Switzerland; **Schwarzenbach O.**, Dr.med., FA für Orthopädische Chirurgie, CH-3600 Thun/Switzerland; **Sizu N.**, M.D., Dept.of Orthopaedic Surgery, Fujita-Health University School, Jp-470-1192 Toyoake/Japan; **Sullivan M.**, FRCS, Cons. Orthop. Surgeon, The Princes Grace Hospital, UK-W1M 3FD London/England; **Tikhodeev S.**, Prof.Dr.med., Spinal Traumatology Clinic, RU-St.Petersbourg/Russia; **Tolgay S.**, Dr.med., Orthopaedic Surgeon, Medart Medical Center, TR-06520 Ankara; **Weinzierl F.**, Dr.med., Neurochirurgie, Klinikum Freising, D-85356 Freising/Germany; **Wendsche P.**, Prof. MU. Dr., Orthop.Traumat., Urazova Nemocnice, CU-662 50 Brno/Czech Republik; **Wilson L.**, M.D., FRCS (Orth), The Wellington Hospital, UK-NW8 9LE London/UK; **Wimmer C.**; Prof.Dr.med., OrthopWS-Chirurgie BHZ Vogtareuth, D-83569 Vogtareuth/Germany; **Wyder M.**, Dr.phil.; MHI Univ.Zurich; CH-8001 Zurich/Switzerland; **Zeilstra D.**, Neurosurgical Center, NL-8025 Zwolle/Netherlands [up-date Dec 22, 2007]

**COURSE DIRECTION**

Leu Hj., PD Dr.med., Orthop.Chirurgie FMH, **BETHANIA SPINE BASE**, CH-8044 Zürich/Switzerland

**COURSE VENUE**

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

**COURSE INFORMATIONS**

Secretary PESS-26, c/o Bethania Spine Base, Toblerstrasse 51, CH-8044 Zürich, 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**

ARTHROCARE Europe AB, S-111 31 Stockholm  
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[www.zimmer.com](http://www.zimmer.com)

[update Dec 22/07]

Fax : +46-8-5461 7239  
 Fax : +41-43-455 48 50  
 Fax : +41-41-930 27 76  
 Fax : +01-516-267 65 83  
 Fax : +01-949-472-0016  
 Fax : +41-56-417 35 56  
 Fax : +49-7212-551 4920  
 Fax : +41-61-426 91 16  
 Fax : +32-2-731 70 49  
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 Fax : +31-30-69 34 721  
 Fax : +41-62-771 43 65  
 Fax : +49-7043-35 462  
 Fax : +41-61-756 97 55  
 Fax : +01-910-332-17-01  
 Fax : +01-949-940 14 50  
 Fax : +41-44-730 35 91  
 Fax : +41-52-262 01 39

In the later eighties, as a minimal invasive alternative to conventional surgical procedures and former 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 preparation of the vertebral end-plates 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. In 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. More recently, also minimal interspinal non-fusion stabilization with dynamic implants 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 in well defined ranges of indication, endoscopic decompression definitely challenges microscopic and tubular endoscopic techniques.

Beside technical operative aspects also clinical analysis of indications, learnig-courves and follow-up criteria as well as impact of diagnosis related reimbursements deserve our interest in worldwide economically restricted conditions.

So in the 29th year of clinical practice, this upcoming International 26th Course will once more reflect the evolution 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 by tradition collegial atmosphere of this course.

John Chiu , M.D.  
President ISMISS 2007/2008

Hansjoerg F. Leu , M.D.  
President Elect ISMISS 2005 / 2008 / Course Co-Chairman

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**APPLICATION FOR ENROLMENT** ( mail / fax filled in to : x41-[0]-43-268 28 01 )

( WORKSHOP DEMONSTRATION ENROLMENT RESTRICTED - EARLY REGISTRATION RECOMMENDED )

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I enrol for the **INTERNATIONAL 26<sup>th</sup> COURSE FOR PERCUTANEOUS ENDOSCOPIC SPINAL SURGERY AND COMPLEMENTARY MINIMAL INVASIVE TECHNIQUES**

Jan 24/25, 2008, Bethania Hospital / Zurich, Switzerland

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

CHF 700.- / EUR 470.- / US\$ 620.- for the whole course including 2 days symposium and workshop demo.

CHF 600.- / EUR 400.- / US\$ 520.- for the 2 days symposium only , without workshop demonstrations

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-26", or by equivalent transferable bank cheque. - No cancellation / refund after Jan 12, 2008 accordable. No credit cards accepted.

Please use printed letters :

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