## Final Program

### Tuesday, October 24, 2006

15:00 - 2000  **REGISTRATION AND POSTER MOUNTING**

### Wednesday, October 25, 2006

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<th>Time</th>
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<tr>
<td>0830-0900</td>
<td>OPENING CEREMONY</td>
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<td>0900</td>
<td>Cervical Spine I: Chair: P. Suchomel, M. Hanci</td>
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| 0900-0906 | 1  REGIONAL VARIATIONS IN MICROARCHITECTURE AND BONE DENSITY WITHIN THE CERVICAL VERTEBRAE  
M Müller-Gerbl, A Eimannsberger, M Fertmann-Matsuura  
Anatomische Anstalt München, Germany |
| 0907-0913 | 2  CERVICAL DYNAMIC SCREENING IN SPINAL CLEARANCE - NOW HISTORICALLY REDUNDANT  
R Kotnis, V Spiteri, R Elzien, P Singh, A Brooks, K Willett  
John Radcliffe Hospital, Oxford, UK |
| 0914-0920 | 3  FINE-WIRE EMG OF NECK MUSCLE ACTIVITY DURING REAR-END IMPACT  
C Dehner, M Kramer, M Elbel, L Kinzl  
Department for Trauma, Hand and Reconstructive Surgery, University of Ulm, Germany |
| 0921-0927 | 4  WHIPLASH ASSOCIATED DISORDERS - DOES EARLY INTERVENTION MATTER?  
A Kongsted, E Oerama, H Kasch, T Bendix, FW Bach, L Korsholm, TS Jensen  
The Back Research Center, part of Clinical Locomotion Science, University of Southern Denmark; Danish Pain Research Center, Aarhus University Hospital, Denmark |
| 0928-0934 | 5  OUTCOME AND COMPLICATIONS OF TRANSORAL ODONTOID RESECTION: RETROSPECTIVE ANALYSIS OF 43 CASES  
M Zileli, S Cagli, E Ozgiray  
Ege University Neurosurgery Department, Izmir, Turkey |
| 0935-0941 | 6  RELATIONSHIP BETWEEN MORPHOLOGY OF ATLANTO-OCcipital JOINT AND OTHER RADIOGRAPHIC RESULTS IN ATLANTO-AXIAL SUBLUXATION PATIENTS DUE TO RA  
H Iizuka, Y Sorimachi, T Nakajima, Y Iizuka, T Seki, S Tsutsumi, K Takagishi  
Department of Orthopaedic Surgery, Gunma University Graduate School of Medicine, Japan |
| 0942-0948 | 7  MODIFIED PARAMEDIAN TRANSPEDICULAR APPROACH AND SPINAL RECONSTRUCTION FOR INTRADURAL TUMORS OF THE CERVICAL AND CERVICOThORACIC SPINE: CLINICAL EXPERIENCE  
FL Acosta, HE Aryan, JH Chi, AT Parsa, CP Ames  
University of California, San Francisco (UCSF), USA |
<p>| 0949-1010 | Discussion |
| 1010-10:40 | BREAK |</p>
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<td>1040</td>
<td>Thoracolumbar I</td>
<td>R. Wittenberg, R. Lukas</td>
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<td>1040-1046</td>
<td>THE ADJUNCTIVE EFFECT OF A BINDING PEPTIDE ON BONE MORPHOGENIC PROTEIN IN A RAT SPINAL FUSION MODEL</td>
<td>A alanay, C Chen, S Lee, E Brochman, S Murray, A Napoli, P Tsou, G Randolph, J Wang</td>
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<td></td>
<td>UCLA Comprehensive Spine Center, USA</td>
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<td>1047-1053</td>
<td>IS CORALLINE HYDROXYAPATITE A RELIABLE ALTERNATIVE OF AUTOLOGOUS ILIAC BONE GRAFT IN POSTERIOR INSTRUMENTED FUSION FOR DEGENERATIVE LUMBAR SPINE DISEASE?</td>
<td>P Korovessis, G Koureas, G Petsinis, TH Repantis</td>
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<td></td>
<td>Orthopaedic Department, General Hospital 'Agios Andreas' Patras, Greece</td>
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<td>1054-1100</td>
<td>BONE DEMINERALIZED MATRIX ASSOCIATED WITH HYDROXYAPATITE AS BONE GRAFT EXPANSOR IN LUMBAR SPINE FUSION</td>
<td>A San Martin, L Beaulieu, M Molina, S Vial</td>
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<td>Instituto de Enfermedades de la Columna Vertebral, Santiago, Chile</td>
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<td>1101-1107</td>
<td>COMPARISON OF OUTCOME IN PLIF SURGERY IN RELATION TO PATHOLOGY</td>
<td>RD Pollock, M Krishna, CK Bhatia</td>
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<td>Spinal Unit, University Hospital of North Tees, Stockton on Tees, UK</td>
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<td>1108-1114</td>
<td>THE FATE OF Grafted Bone AFTER POSTEROLATERAL FUSION AND POSTERIOR LUMBAR INTERBODY FUSION IN THE LUMBAR SPINE</td>
<td>KY Ha, JS Lee, KW Kim</td>
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<td>The Catholic University of Korea, South Korea</td>
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<td>1115-1121</td>
<td>THE EFFECT OF SPINAL AND GENERAL ANESTHESIA ON HEMODYNAMICS AND STRESS RESPONSE IN LUMBAR SPINAL SURGERY</td>
<td>C Yildirim, Y Keck, D Yorukoglu, A Attar</td>
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<td>Ankara Univ Dept of Anaesthesiology and Reanimation, Dept of Neurosurgery Turkey</td>
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<td>1122-1128</td>
<td>CIRCUMFERENTIAL FUSION IMPROVES LONG-TERM OUTCOME IN COMPARISON TO INSTRUMENTED POSTEROLATERAL FUSION.</td>
<td>TS Videbaek, FB Christensen, R Soegaard, ES Hansen, K Høy, P Helmig, B Niedermann, SP Eiskjær, CE Bünger</td>
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<td></td>
<td>A RANDOMIZED CLINICAL STUDY WITH 5-9 YEARS FOLLOW-UP</td>
<td>Spine Unit, Dept. of Orthopaedics, University Hospital of Aarhus, Denmark</td>
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<td>1129-1135</td>
<td>LONG TERM FOLLOW-UP AFTER PLIF SURGERY</td>
<td>M Krishna, CK Bhatia, RD Pollock</td>
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<td>Spinal Unit, University Hospital of North Tees, Stockton on Tees, UK</td>
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<td>1136-1200</td>
<td>Discussion</td>
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<td>1200-1400</td>
<td>LUNCH-/WORKSHOPS</td>
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<tr>
<td><strong>SSE WORKSHOP</strong> (Room Rumeli 1)</td>
<td><strong>SPINE SURGERY IN THE FUTURE: AN INDEPENDENT SPECIALTY?</strong></td>
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<td>Organising Members: L Papavero, J Herdmann</td>
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<td>Chair: P Sell</td>
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<tr>
<td>1230</td>
<td>THE FRENCH PERSPECTIVE</td>
<td>D Chopin, Berck sur Mer, France</td>
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<td>1250</td>
<td>THE BRITISH ISLES PERSPECTIVE: THIS WOULD BE THE PERFECT SPINE TRAINING PROGRAMME</td>
<td>A Stirling, Birmingham, UK</td>
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<td>1310</td>
<td>THE VIEWPOINT OF A TRAINEE</td>
<td>S Cagli, Izmir, Turkey</td>
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<td>1340</td>
<td>THE VIEWPOINT OF AN INSTRUCTOR</td>
<td>M Winking, Isnabrück, Germany</td>
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### 2006 Annual Meeting of the Spine Society of Europe

#### SSE WORKSHOP (Room Sultan)
#### SPINE TANGO WORKSHOP

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<tr>
<td>1230</td>
<td>INTRODUCTION</td>
<td>M. Aebi, Bern, Switzerland</td>
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<td>1235</td>
<td>GENESIS AND OBJECTIVES OF SPINE TANGO</td>
<td>C Roeder, Bern, Switzerland</td>
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<td>1245</td>
<td>SPINE TANGO CLINICS IN EUROPE</td>
<td>M Melloh, Bern, Switzerland</td>
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<td>1255</td>
<td>EXAMPLE OF A SPINE TANGO CLINIC</td>
<td>A Chavanne, Vienna, Austria</td>
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<td>1305</td>
<td>FIRST RESULTS OF SPINE TANGO DATA</td>
<td>M Melloh, Bern, Switzerland</td>
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<td>1315</td>
<td>SPINE TANGO DOCUMENTATION TRAINING</td>
<td>C Roeder, Bern, Switzerland</td>
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<td>1325</td>
<td>QUESTIONS AND ANSWERS SESSION</td>
<td>M Aebi, Bern, Switzerland; A Chavanne, Vienna, Austria; M Melloh, Bern, Switzerland; C Roeder, Bern, Switzerland</td>
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### 14:00

**Deformity I**  
**Chair:** A. Kaelin, M. Yazici  

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<tr>
<td>1400-1406</td>
<td>GAMMA SUBUNIT EXPRESSION OF JUNCTIONAL ACETYLCHOLINE RECEPTOR OF</td>
<td>Z Zhu</td>
<td>Drum Tower Hospital affiliated to Medical School of Nanjing University, ROC</td>
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<td></td>
<td>PARASPINAL MUSCLES IN SCOLIOSIS ASSOCIATED WITH SYRINGOMYELIA</td>
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<td>1407-1413</td>
<td>CELL VIABILITY BETWEEN ANTERIOR AND POSTERIOR SPINAL GROWTH PLATE IN</td>
<td>Y Yang</td>
<td>Drum Tower Hospital affiliated to Medical School of Nanjing University, ROC</td>
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<td>ADOLESCENT IDIOPATHIC SCOLIOSIS</td>
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<td>1414-1420</td>
<td>THE EVALUATION OF SHOULDER BALANCE IN HEALTHY ADOLESCENT POPULATION</td>
<td>I Akel, M Pekmezci, M Yazici, O Kocak, I Erdoan, O Derman, M Hayran</td>
<td>Hacettepe University Orthopaedics and Traumatology Dep., Turkey</td>
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<td>AND ITS CORRELATION WITH RADIOLOGICAL MEASURES</td>
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<td>1421-1427</td>
<td>VARIATIONS OF THE POSITION OF THE CEREBELLAR TONSIL IN ADOLESCENT</td>
<td>S Xu</td>
<td>Drum Tower Hospital affiliated to Medical School of Nanjing University, ROC</td>
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<td>IDIOPATHIC SCOLIOSIS WITH SEVERE CURVES: A MRI STUDY</td>
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<td>1428-1434</td>
<td>CORRELATIVE EVOLUTION OF ANTERIOR CHEST WALL BLOOD SUPPLY AND RIGHT-</td>
<td>P Korovessis, Th Repantis, P Iliopoulos</td>
<td>Orthopaedic Department, General Hospital &quot;Agios Andreas&quot;, Patras, Greece</td>
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<td>CONVEX THORACIC IDIOPATHIC MILD SCOLIOSIS IN FEMALE ADOLESCENTS BEING</td>
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<td>TREATED WITH THORACOLUMBAR ORTHOSIS</td>
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<td>1435-1441</td>
<td>DOES CARDIOTHORACIC SURGERY DURING INFANCY INCREASE THE RISK OF</td>
<td>TL Schulte, V Oberhoff, V Bullmann, T Lerner, L Hackenberg, A Hoffmeier, U Liljenqvist</td>
<td>(1) Department of Orthopaedics, University Hospital Münster, Germany; (2) Department of Thoracic and Cardiovascular Surgery, University Hospital Münster, Germany</td>
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<td>SPINAL DEFORMITY?</td>
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2006 Annual Meeting of the Spine Society of Europe

1442-1448  22 CURVE PROGRESSION AT LEAST TEN YEARS AFTER MATURITY IN PATIENTS WITH MODERATE ADOLESCENT IDIOPATHIC SCOLIOSIS - A PROSPECTIVE COMPARISON OF OBSERVATION OR BRACE TREATMENT
AJ Danielsson*, R Hasseriust†, A Ohlin†, AL Nachemson*
Department of Orthopaedics, (*) Sahlgrenska University Hospital, Göteborg, and (†) Malmö University Hospital, Malmö, Sweden

1449-1455  23 LOSS OF SPINAL CORD MONITORING SIGNALS IN CHILDREN DURING THORACIC KYPHOSIS CORRECTION WITH SPINAL OSTEOTOMY: WHY DOES IT OCCUR AND WHAT SHOULD YOU DO?
G Cheh, LG Lenke, YJ Kim, MD Daubs, AM Padberg, G Stobbs, M Hensley
Washington University Medical Center, USA

1456-1502  24 GROWTH OF THE SPINE AFTER LUQUE SSI WITHOUT ARTHRODESION IN YOUNG CHILDREN
HEH Prajus, S van Vugt, RJB Sakkers, RM Castelein
Dept Pediatric Orthopaedics, WKZ-UMC Utrecht, NL

1503-1530  Discussion

1530-1600  BREAK

1600  Thracolumbar II
Chair: B. Strömqvist, U. Aydinli

1600-1606  25 QUALITY OF LIFE IN PATIENTS WHO DID NOT UNDERGO SURGERY FOR FRACTURE OF THE THORACOLUMBAR JUNCTION
D Lombao, F Pelissé, J Bagó, C Villanueva
Hospital Xeral Lugo, Unitat Cirugia del Raquis Vall d’Hebron, Barcelona, Spain

1607-1613  26 NON-OPERATIVELY TREATED BURST FRACTURES OF THE THORACIC AND LUMBAR SPINE IN ADULTS - A 23-41 YEAR FOLLOW-UP
A Moller, R Hasseriuss, I Redlund-Johnell, A Ohlin, M Karlsson
The Department of Orthopaedics, Department of Clinical Science, Malmo University Hospital and Department of Diagnostic Radiology, Department of Clinical Science, University hospital Lund, Sweden

1614-1620  27 SHORT-SEGMENT VERSUS LONG-SEGMENT POSTERIOR FIXATION FOR THORACOLUMBAR JUNCTION BURST FRACTURES
M Altay, B Özkurt, C Aktekin, A Öztürk, H Türker, A Tabak
Ankara Numune Education and Research Hospital, 5th Orthopedics and Traumatology Clinic, Turkey

1621-1627  28 THE INCIDENCE OF ADDITIONAL VERTEBRAL COMPRESSION FRACTURES AFTER KYPHOPLASTY AND FACTORS INVOLVED
HS Kim, ES Moon, SH Moon, JO Park, HM Lee, DE Shin, JW Ha, DJ Shim
Department of Orthopaedic Surgery, Severance Hospital, Yonsei University College of Medicine, Seoul, Korea

1628-1634  29 THE SURGICAL RESULTS OF POST-TRAUMATIC THORACIC AND LUMBAR KYPHOSIS TREATED WITH ANTERIOR INSTRUMENTATION.
IT Benli, A Kaya, V Urc, S Akalin
Ufuk Univ, Faculty of Medicine, Ankara Diskapi Hospital, Turkey

1635-1641  30 TIMING OF SURGERY AS PROGNOSTIC FACTOR IN THORACIC AND LUMBAR FRACTURE FIXATION
JPHJ Rutges, A Stadthouder, E Buskens, LPH Leenen, W Dhert, FC Oner
University Medical Centre Utrecht, the Netherlands

1642-1648  31 COMPARISON OF PAIN INTENSITY AND KYPHOSIS BETWEEN TWO-SEGMENT COMBINED INSTRUMENTATION AND FUSION VS. THREE-SEGMENT POSTERIOR INSTRUMENTATION AND FUSION IN THORACOLUMBAR BURST FRACTURES (RANDOMIZED CLINICAL TRIAL)
NC Islam, N Saglam, O Kose, BY Ucar
Haydarpasa Numune Hospital, Istanbul, Turkey
1649-1755  32  SEVERE DIFFUSE IDIOPATHIC SKELETAL HYPEROSTOSIS IN ANCIENT CLERGYMEN  
JJ Verlaan, FC Oner, GJR Maat  
Dept. Orthopaedics, University Medical Center Utrecht; Barge's Anthropologica, Leiden  
University Medical Center, the Netherlands

1756-1825  Discussion

1830-2000  WELCOME RECEPTION

Thursday, October 26, 2006

0830  Motion Preservation  
Chair: M. Aebi, J.-Ch. LeHuec

0830-0836  33  FLEXION-EXTENSION KINEMATICS AFTER POSTERIOR DYNAMIC STABILIZATION OF  
THE LUMBAR SPINE: A COMPARISON OF IN VITRO DATA AND FINITE ELEMENT  
ANALYSIS  
M Froehlich, J Seebeck, T Nydegger, RJ Davis  
Spine Research, Zimmer GmbH; Greater Baltimore Medical Center, Baltimore, MD, USA

0837-0843  34  THE FIRST YEAR FOLLOWING FDA APPROVAL OF THE CHARITÉ ARTIFICIAL DISC:  
"REAL WORLD" ADVERSE EVENTS OUTSIDE AN IDE STUDY ENVIRONMENT  
SL Blumenthal, RD Guyer, FH Geisler, PC McAfee, JJ Regan  
Texas Back Institute, Plano, TX; Illinois Neuro-Spine Center, Aurora, IL; Spine and Scoliosis  
Center, Baltimore, MD, West Coast Spine Institute, Los Angeles, CA

0844-0850  35  TOTAL LUMBAR DISC REPLACEMENT IN ATHLETES  
CJ Siepe, K Wiechert, A Korge, HM Mayer  
OrthoCenter Munich, SpineCenter, Harlachinger Str. 51, D-81547 Munich; Germany

0851-0857  36  NOVEL TOTAL LUMBAR DISC ARTHROPLASTY VIA AN OBLIQUE INSERTION:  
FEASIBILITY AND POSITION ANALYSIS. A PROSPECTIVE STUDY  
S Aunoble, M Ronai, C Tournier, T Friesem, Y Basso, JC Le Huec  
Atlantic spine center dept orthopedie 6 etage, CHU Pellegrin 33076 Bordeaux, France

0858-0904  37  QUALITY OF LIFE AFTER MONOSEMENTAL FUSION VS. TOTAL DISC  
ARTHROPLASTY - A „SPINE TANGO“ AIDED PROSPECTIVE MATCHED COHORT  
STUDY  
A Chavanne, A Tuschei, B Moser, J Meissner, M Ogon  
Orthopaedic Hospital Vienna Speising, Austria

0905-0911  38  EFFECT OF A POSTERIOR DYNAMIC IMPLANT ADJACENT TO A RIGID SPINAL  
FIXATION DEVICE  
A Rohlmann, T Zander, NK Burra, G Bergmann  
Biomechanics Laboratory, Dept. of Orthopaedics, Charité Campus Benjamin Franklin, Berlin,  
Germany

0912-0918  39  DYNAMIC SPINAL STABILISATION: AN ALTERNATIVE TO SPINAL FUSION? A REPORT  
ON POSITIONAL MRI FINDINGS AT 2 YEARS  
JE Beastall, EJ Karadimas, M Siddiqui, M Nicol, WA Bashir, T Muthukumar, FW Smith, D  
Wardlaw  
Department of Orthopaedic Surgery and Department of Radiology, Woodend Hospital,  
Aberdeen, UK

0919-0925  40  POSTOPERATIVE CHANGES OF MOTION DYNAMICS IN CERVICAL SPINE  
ARTHROPLASTY: COMPARISON STUDY BETWEEN NON-CONSTRAIN AND SEMI-  
CONSTRAIN TYPE ARTIFICIAL DISCS  
CK Park, MK Kim, DH Kim, KS Ryu  
Neurosurgery, The Catholic University, Seoul, Korea
0926-0932  41  CERVICAL SPINE DISC REPLACEMENT VERSUS FUSION: A PROSPECTIVE RANDOMIZED AND CONTROLLED RADIOGRAPHIC AND CLINICAL STUDY
   A Nabhan, D Pape, T Pitzen, Wl Steudel, D Kohn, W Reith, F Ahlhelm
   Neurosurgical Department, University of Saarland, Homburg, Germany

0933-1010  DEBATE: FUSION SEEMS EQUIVALENT TO DISC PROSTHESIS AT L5/S1, IS IT THE SAME AT L4/L5: WHICH ARGUMENTS?

1010-1040  BREAK

1040-1046  42  ROLE OF ADVANCED GLYCATION END-PRODUCTS (AGES) IN THE PATHOGENESIS OF DISC DEGENERATION
   K Yokosuka, J Park, K Jimbo, K Yamada, K Sato, M Tsuru, K Nagata
   Department of Orthopedic Surgery, Kurume University School of Medicine, Japan

1047-1053  43  IMPACT OF BMI ON PREVALENCE OF CHRONIC NECK AND LOW-BACK PAIN.
   J-A Zwart, K Hagen, F Kolstad, S Svebak, Ø Nygaard
   Department of Clinical Neuroscience; Faculty of medicine, Norwegian University of Science and Technology, Norwegian National Headache Centre, Section of Neurology; National Centre for Spinal Disorders, St. Olavs Hospital, Trondheim, and Aleris Hospital, Oslo, Norway

1054-1100  44  THE ASSOCIATION BETWEEN BELIEFS ABOUT LOW BACK PAIN, WORK ABSENCE AND PRODUCTIVITY AT WORK
   AF Mannion, O Tamcan, C Eisenring, B Horisberger, U Mueller
   Schulthess Klinik Zurich; Institute for Evaluative Research in Orthopaedic Surgery, University of Berne; Zurich University of Applied Science, Institute of Health Economics, Winterthur, Switzerland

1101-1107  45  RADIOGRAPHIC CHANGES IN THE LUMBAR SPINE IN FORMER PROFESSIONAL FOOTBALL PLAYERS
   A Öztürk, Y Özkan, MR Özdemir, N Yalçın, S Akgöz, V Saraç, S Aykut
   Bursa High Speciality Research and Training Hospital, Clinic of Orthopaedics and Traumatology, Bursa, Turkey

1108-1114  46  COMPARISON OF SOFT TISSUE TRAUMA IN MICROSURGICAL NUCLEOTOMY TO A NEW TECHNIQUE: MICROSCOPICALLY ASSISTED PERCUTANEous NUCLEOTOMy. AN MRI-STUDY
   R Greiner-Perth, H Boehm, A Ezzati, B Hempel, J Leonhardi, J Franke
   Department of spine surgery, orthopedic surgery and neurotraumatology, SRH Waldklinikum Gera, Germany; Department of orthopedic surgery, spine surgery and paraplegiology, Zentralklinik Bad Berka, Germany; Department of Orthopedics, Otto-von-Guericke-Universität, Magdeburg, Germany

1115-1121  47  INTERVERTEBRAL DISC DEGENERATION AFTER VERTEBROPLASTY
   N Aebli, SJ Ferguson, BG Goss, R Williams, J Krebs
   Orthopaedic Department, Swiss Paraplegic Centre, Nottwil, Switzerland; MEM Research Centre, University of Bern, Bern, Switzerland; AO Spine Reference Centre, Queensland University of Technology, Brisbane, Australia

1122-1128  48  PSYCHOSOCIAL STRESS FACTORS AMONG PATIENTS WITH LUMBAR DISC HERNIATION, SCHEDULED FOR DISC SURGERY, A CASE CONTROL STUDY
   AC Johansson, M Cornefjord, L Bergkvist, J Öhrvik, SJ Linton
   Center for Clinical Research/Department for Orthopaedic Surgery, Central Hospital Västerås, Sweden
USE OF CONTINUOUS INTRAOPERATIVE ELECTROMYOGRAPHIC POTENTIAL NERVE ROOT MONITORING DURING DECOMPRESSION OF PATIENTS WITH SYMPTOMATIC LUMBAR RADICULOPATHY
S Lam, LT Khoo, M Cosar, M Raifu, A Onibokun
Division of Neurosurgery, Comprehensive Spine Center, University of California Los Angeles; Division of Neurosurgery, Okmeydani Education Hospital, Istanbul, Turkey

Discussion

LUNCH-/WORKSHOPS

SSE WORKSHOP (Room Rumeli 1)
INJURY AT WORK - CAN GUIDELINES PREVENT IT?
Organising Members: D. Wardlaw, J. Herdman
Chair: C. Greenough

INTRODUCTION - THE EUROPEAN GUIDELINES
D Wardlaw, Aberdeen, UK

SPINAL ERGONOMICS AND TRAINING IN THE WORKPLACE
H Eriksen, Bergen, Norway

THE ROLE OF FITNESS TRAINING AND REHABILITATION
T Bendix, Odense, Denmark

PSYCHO-SOCIAL ASPECTS OF PREVENTION OF BACK PAIN
A Lahad, Jerusalem, Israel

SYMPOSIUM - HEALTH CARE TECHNOLOGY ASSESSMENT
Chair: N. Boos

INTRODUCTION
M Aebi, Bern, Switzerland

HEALTH CARE TECHNOLOGY ASSESSMENT - BASIC PRINCIPLES
N Boos, Zürich, Switzerland

ECONOMIC EVALUATIONS - PRINCIPLES AND PRACTICE
E McIntosh, Oxford, UK

Guest Lecture
HEALTH CARE TECHNOLOGY ASSESSMENT - IMPLICATIONS FOR FUTURE SPINAL HEALTH CARE
JN Herndon, Boston, USA

SUMMARY AND CONCLUSION
N Boos, Zürich, Switzerland

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<td>0830</td>
<td>Thoracolumbar IV</td>
<td>Chair: C. Greenough, F.B. Christensen</td>
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<td>0830-0836</td>
<td>50</td>
<td>WHAT COUNTS AS A „GOOD“ OUTCOME IN SPINAL SURGERY?</td>
<td>D Grob, AF Mannion, V Bartanusz, J Dvorak, D Jeszenszky, F Kleinstueck, F Lattig, F Porchet Schulthess Klinik, Zürich, Switzerland</td>
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<td>0837-0843</td>
<td>51</td>
<td>SHIFING GOAL-POSTS? CHANGES IN SYMPTOMS LEADING TO CHANGES IN OPERATIVE PLAN: A CONSEQUENCE OF LONG WAITING LISTS FOR AN OPERATION ON THE NHS</td>
<td>JS Mehta, H Sharma, A Jones, J Howes, PR Davies, S Ahuja Cardiff Spinal Unit, University Hospital of Wales, Heath Park, Cardiff, UK</td>
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<td>0844-0850</td>
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<td>CORRELATION OF THE SEVERITY OF LUMBAR DISC DEGENERATION, USING A VALIDATED CLASSIFICATION, WITH PROVOCATIVE DISCOGRAPHY</td>
<td>AS Anbar, KS Lam Spinal Unit, Guy's Hospital, London, UK</td>
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<td>A PROSPECTIVE RANDOMIZED COMPARISON OF CLINICAL AND RADIOLOGICAL OUTCOME AFTER LUMBAR EQUESTRECTOMY VERSUS MICRODISCSECTION</td>
<td>C Thomé, MB Barth, M Diepers, P Schmiedek Depts. of Neurosurgery and Neuroradiology, University Hospital Mannheim, University of Heidelberg, Mannheim, Germany</td>
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<td>DISC HEIGHT REDUCTION IN ADJACENT SEGMENTS AND CLINICAL OUTCOME 10 YEARS AFTER LUMBAR 360°-FUSION</td>
<td>TL Schulte, F Leistra, V Bullmann, T Lerner, U Liljenqvist, L Hackenberg Department of Orthopaedics, University Hospital Münster, Germany</td>
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<td>THE POSITIVE EFFECT OF POSTEROLATERAL LUMBAR SPINAL FUSION ON FUNCTIONAL OUTCOMES IS PRESERVED AT LONG TERM FOLLOW-UP WITH NO ADDITIONAL EFFECT OF PEDICLE SCREW INSTRUMENTATION, MORE THAN 10 YEAR FOLLOW-UP ON A RANDOMIZED CLINICAL TRIAL.</td>
<td>T Andersen, TS Videbaek, C Bürger, FB Christensen Spine Unit, Orthopaedic Department E, Aarhus University Hospital, Denmark</td>
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<td>A COST UTILITY ANALYSIS OF A RANDOMISED CONTROL TRIAL OF FEMORAL RING ALLOGRAFT VERSUS TITANIUM CAGE IN CIRCUMFERENTIAL FUSION OF THE LUMBAR SPINE</td>
<td>N Steele, BJ Freeman, T Sach, J Hegarty The Centre for Spinal Surgery and Spinal Studies, University Hospital, Queens Medical Centre, Nottingham, UK.</td>
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<td>G Fantini, P Ioannis, G Federico, C Frank Hospital for Special Surgery, New York, USA</td>
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<td>Cervical Spine II</td>
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<td>LONGITUDINAL MR STUDY OF AGE-RELATED CHANGES IN CERVICAL SPINE. MINIMUM TEN-YEAR FOLLOW-UP OF ORIGINALLY ASYMPOTOMATIC SUBJECT</td>
<td>E Okada, M Mastumoto, D Ichihara, K Chiba, Y Toyama Depart of Orthopedic Surgery, Department of Musculoskeletal Reconstruction and Regeneration Surgery, Keio University, School of Medicine, Japan</td>
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59 CLINICAL AND RADIOLOGICAL LONGTERM OUTCOME AFTER ANTERIOR CONTRALATERAL CERVICAL MICRODISCECTOMY: 10 YEARS PROSPECTIVE STUDY
Y Aydin, H Cavusoglu, RA Kaya, ON Turkmenoglu, SM Can, Y Sahin
Clinic of Neurosurgery, Sisli Efhal State Hospital, Istanbul, Turkey

60 QUANTITATIVE ANALYSIS OF CERVICAL SPINAL CORD METABOLIC ACTIVITY FOR OSSIFICATION OF THE POSTERIOR LONGITUDINAL LIGAMENT MYELOPATHY USING 18F-FDG-PET
K Uchida, S Kobayashi, T Tsuchida, N Sadato, Y Yonekura, R Sato, H Baba
Department of Orthopaedics and Rehabilitation Medicine, Faculty of Medicine, University of Fukui, Japan

61 CROSS-SECTIONAL TRANSVERSE AREA AND HYPERINTENSITIES ON MR IN SPONDYLOTIC CERVICAL MYELOPATHY
Z Kadanka, J Jarskovsky
Medical Faculty Masaryk University and University Hospital Brno, Czech Republic

62 THE COMPARISON OF SINGLE OR COMBINED OPERATIVE APPROACH FOR THE CERVICAL SPONDYLOTIC MYELOPATHY WITH MULTILEVEL ANTERIOR/POSTERIOR COMPRESSION AND HUGE DISC PROTRUSION OR OSTEOTY FORMATION.
Y Sun, SF Pan, FS Zhang, SB Wang, L Zhang, M Li, J Xiong
Department of Orthopedic Surgery, Peking University Third Hospital, Beijing, PR China

63 SURGICAL OUTCOME OF CERVICAL SPONDYLOTIC MYELOPATHY IN PATIENTS AGED 80 YEARS AND OLDER
H Nagashima, K Yamane, T Nishihata, R Teshima
Department of Orthopedic Surgery, Faculty of Medicine, Tottori University, Japan

64 COMPLICATIONS OF CERVICAL CORPECTOMY: REPORT OF 148 CASES
S Ozgen, D Konya, MN Pamir
Marmara University, Institute of Neurological Science, Istanbul, Turkey; Marmara University, Department of Neurosurgery, Istanbul. Turkey

65 ANALYSIS OF REOPERATIONS AFTER SURGICAL TREATMENT OF DEGENERATIVE CERVICAL SPINE DISORDERS
A REPORT ON 900 CASES
R Greiner-Perth, Y Allam, H El-Saghir, J Franke, H Boehm
Department of Spine Surgery, Orthopedic Surgery and Neurotraumatology; SRH Waldklinikum Gera, Germany; Department of Orthopedic Surgery, Spine Surgery and Paraplegiology; Zentralklinik Bad Berka GmbH, Germany; Department of Orthopedic Surgery; Otto-von-Guericke University of Magdeburg, Germany

Discussion

1200-1400 LUNCH-WORKSHOPS

SSE WORKSHOP: (Room Rumeli 1)
THE AGING SPINE / DEFORMITY IN THE ELDERLY
Chair: M Aebi

1225 INTRODUCTION
M Aebi, Bern, Switzerland

1230 SPINAL STENOSIS IN THE ELDERLY
R Gunzburg, Antwerp, Belgium

1300 ADULT SCOLIOSIS
T Lund, Helsinki, Finland

1330 FRAGILITY FRACTURES IN THE ELDERLY
O Schwarzenbach, Thun, Switzerland
1400 Special Poster Session

Adult Thoracolumbar Spine
Chair: S. Eiskjær, J.P. Steib

SP 1 DOES MODIC CHANGES PRESENT WITH A SPECIFIC CLINICAL PICTURE?
T Bendix, PH Sørensen, JS Sørensen
The Back Research Center, part of Clinical Locomotion Science, Backcenter Funen and University of Southern Denmark

SP 2 PERSONS WITH RECURRENT LOW BACK PAIN EXHIBIT A RIGID POSTURAL CONTROL STRATEGY
S Brumagne, I Paulus, S Van Deun, A Bogaerts, S Verschuere, F Staes
Department of Rehabilitation Sciences, K.U.Leuven, Belgium

SP 3 A META-ANALYSIS FOR THE ASSESSMENT OF PEDICLE SCREW PLACEMENT IN THE THORACIC AND LUMBAR SPINE
V Kosmopoulos, C Schizas
Hôpital Orthopédique de la Suisse Romande, CH

SP 4 ADJACENT SEGMENT MOBILITY EVALUATED BY RADIOSTEREOMETRY BEFORE AND 5 YEARS AFTER FUSION
B Strömqvist, P Axelsson, R Johnsson
Department of Orthopedics, Lund University Hospital, Sweden

SP 5 DOES PATIENT POSITION AFFECT OUTCOME OF SACRAL EPIDURAL INJECTION FOR SCIATICA? : A PILOT STUDY
RD Pollock, Y Barzilay, G Reddy, T Friesem
Spinal Unit, University Hospital of North Tees, Stockton on Tees, TS19 8PE, UK

SP 6 FUSION ASSESSMENT IN POSTERIOR LUMBAR INTERBODY FUSION USING CARBON FIBER CAGES
JS Toohey, GR Fogel, A Neidre, JW Brantigan
South Texas Orthopaedic & Spinal Surgery Associates, USA

SP 7 SURGICAL TREATMENT OF SPINAL STENOSIS WITH DEGENERATIVE SPONDYLOLISTHESIS: WHAT IS PERFORMED IN COMMON CLINICAL PRACTICE? RESULTS FROM THE SWEDISH NATIONAL SPINE REGISTER
B Jönsson, J Adnervik
Department of Orthopedics, Lund University Hospital, Lund, Sweden

Basic Science
Chair: A. Mannion, H.J. Wilke

SP 8 MECHANICAL STIMULATION ALTERS PLEIOTROPHIN EXPRESSION OF IVD CELLS AND INFLUENCES ENDOTHELIAL CELL MIGRATION BY CONDITIONED MEDIA
C Neidlinger-Wilke, K Würzt, A Liedert, J Klasen, A Ignatius, L Claes, WEB Johnson, S Roberts
1 Institute of Orthopaedic Research and Biomechanics, University of Ulm, 2 Neurosurgical Department, University of Ulm/Günzburg, Germany, 3 RAJ Orthopaedic Hospital, Oswestry, UK

SP 9 CALCIUM PHOSPHATE CEMENT EMBOLISM CAUSES PULMONARY HYPERTENSION
N Aebli, SJ Ferguson, BG Goss, S Sugiyama, R Williams, T Bardyn, J Krebs
Orthopaedic Department, Swiss Paraplegic Centre, Nottwil, Switzerland; MEM Research Centre, University of Bern, Bern, Switzerland; AO Spine Reference Centre, Queensland University of Technology, Brisbane, Australia

SP 10 ENDGENOUS IL-1β AFFECT THE SPONTANEOUS RESORPTION IN INTERVERTEBRAL DISC HERNIATION
K Jimbo, Jin Soo Park, K Yokosuka, K Yamada, K Sato, K Nagata
Department of Orthopedic Surgery,Kurume University School of Medicine, Japan

SP 11 USING PERCEPTIONS OF PAIN SEVERITY IN A GENERAL POPULATION TO NORMALIZE VAS PAIN REPORTS
RL Kane, B Bershadsky, T Rockwood, K Saleh, NC Islam
University of Minnesota, USA; Haydarpaşa Numune Hopsaplı, Turkey

SP 12 USE OF A NOVEL GEL-FORMULATED ANTI-ADHESION BARRIER FOR PREVENTION OF FIBROTIC ADHESIONS, IN LUMBAR MICRO-DISCECTOMY PROCEDURES.
G Guizzardi, R Morichi, A Vagaggini, C Pandolfo, GP Giordano
Neurosurgical and Neuroradiology Dpts, Careggi University and City Hospital, Firenze, Italy
SP 13 POSTERIOR DYNAMIC STABILIZATION AFTER NUCLEOTOMY IN THE OVINE LUMBAR SPINE HISTOLOGICAL RESULTS AFTER 12 WEEKS.
KJ Schnake, E Guder, T Eindorf, F Kandziora, NP Haas
Universitätsmedizin Charité; Musculoskeletal Research Center Berlin, Germany

SP 14 THE EFFECTS OF MITOMYCIN-C, 5 FLUOROURACIL, AND CYCLOSPORIN-A IN PREVENTING EPIDURAL FIBROSIS IN THE EXPERIMENTAL LAMINECTOMY MODEL
KH Yildiz, F Gezen, M Is, S Cukur, M Dosoglu
Abant Izzet Baysal University, Duzce School of Medicine, Department of Neurosurgery and Pathology, Turkey

Cervical Spine
Chair: T. Pigott, J. Casamitjana

SP 15 IS DELTA-V A GOOD PARAMETER TO DESCRIBE THE RISK OF CERVICAL SPINE INJURIES DUE TO WHIPLASH?
C Dehner, M Elbel, L Kinzl, M Kramer
Department for Trauma, Hand and Reconstructive Surgery, University of Ulm, Germany

SP 16 CHARACTERISATION OF CEREBROSPINAL FLUID FLOW IN PATIENTS WITH CERVICAL MYELOPATHY AND HEALTHY CONTROL SUBJECTS
A Haass, TR Pitzen, N Backens, M Lessmeister, E Bogdanov, W Reith, WI Steudel
Neurological Department, University of Saarland, Homburg, Germany

SP 17 QUALITY OF LIFE IN AGED PATIENTS OVER 75 YEARS WITH SEVERE CERVICAL SPONDYLOYTIC MYELOPATHY
T Numasawa, T Yokoyama, K Takeuchi, S Aburakawa, A Ono, K Wada, S Toh
Department of Orthopaedic Surgery, Hirosaki University, Aomori, Japan

SP 18 EFFECT OF CERVICAL COLLAR FIXATION ON THE RETROPHARYNGEAL SWELLING AFTER ANTERIOR DECOMPRESSION AND FUSION OF THE CERVICAL SPINE
T Tanaka, F Suetsuna, M Mochizuki, A Saijo, T Irie
Department of Orthopaedic Surgery, Hachinohe City Hospital, Japan

SP 19 MORBIDITY FOLLOWING ILIAC CREST BONE HARVESTING FOR CERVICAL FUSION
RD Pollock, M Krishna, CK Bhatia
Spinal Unit, University Hospital of North Tees, Stockton on Tees, TS19 8PE, UK

SP 20 THE EVALUATION OF UPPER AND LOWER THORACIC KYPHOSIS IN ASYMPTOMATIC PATIENTS WITH LOSS OF CERVICAL LORDOSIS
S Erkan, H Yercan, G Okcu
Celal Bayar University, School of Medicine Department of Orthopaedics and Traumatology, Manisa, Turkey

SP 21 PROSPECTIVE, RANDOMIZED CONTROLLED STUDY OF PERCUTANEOUS CERVICAL DISCECTOMY USING A PLASMA-MEDIATED RADIOFREQUENCY-BASED (COBLATION) DEVICE: INTERIM CLINICAL RESULTS
A Cesaroni, PV Nardi, D Cabezas
Policlinico Casilino Hospital, Rome, Italy

Deformities and Growing Spine
Chair: R. Zeller, C. Kosay

SP 22 THE EFFECTS OF HIGH DOSE PROGESTERONE DISRUPTED NEURAL TUBE CLOSURE ON SPINE IN EARLY CHICK EMBRYOS
A Daligic, P Erdinger, I Çepni, M Selçuk İ, E Sanlı, M Tacyürekli, C Umur, A Kafadar, Z Oral
Ankara Numune Educational and Training Hospital, Cerrahpasa University, School of Medicine, Celal Bayar University, School of Medicine, Turkey

SP 23 PHYSICAL EFFICIENCY OF SCOLIOSIS PATIENTS TREATED WITH COTREL-DUBOUSSET METHOD COMBINED WITH THORACOPLASTY
M Glowacki, M Laurentowska, E Michalak, P Lubiatowski
University of Medical Sciences, Department of Pediatric Orthopaedics, Poznan, Poland; Eugeniusz Plasecki University School of Physical Education, Poznan, Poland

SP 24 CHANGES IN PERIPHERAL NERVES OF SCOLIOTIC DEFORMITIES EVALUATED BY ELECTRONMICROSCOPY AND BY MORPHOMETRIC STUDY
M Repko, D Hork, M Krbec, R Chaloupka, I Lauschová
Orthopaedic Department University Hospital Brno and Department of Histology of Masaryk’s University Brno, Czech Republic

SP 25 STOPPING L3 INSTEAD OF L4 IN LENKE TYPE 6C OR KING TYPE I AND IV ADOLESCENT IDIOPATHIC SCOLIOSIS - DO TRACTION RADIOGRAPHS UNDER GENERAL ANESTHESIA HAVE A ROLE
O Karatoprak, M Aydogan, M Tezer, C Mirzanli, U Talu, A Hamzaoglu
Florence Nightingale Hospital, Istanbul Spine Center, Turkey

SP 26 THE CORRECTION OF RIGID ADOLESCENT IDIOPATHIC SCOLIOSIS CURVES POSTERIOR SPINAL INSTRUMENTATION WITHOUT ANTERIOR RELEASE.
C Kosay, O Akcalı, U Serarslan, E Aliç
Dokuz Eylul University Department Of Orthopedics and Traumatology, Turkey

SP 27 POSTOPERATIVE CHANGES OF PELVIC PARAMETERS & SAGITTAL ALIGNMENT IN ISTMIC SPONDYLolisthesis
CS Lee, SS Chung, YS Kim, CS Kang
Dept of Orthop Surg, Samsung Medical Center, Sungkyunkwan Univ School of Medicine, Korea

SP 28 CORRECTION OF SCHEUERMANN’S KYPHOSIS BY POSTERIOR ONLY AND SEGMENTAL PEDICLE SCREW FIXATION
C Günérbıyık, F Dikici, U Talu, C Car, A Hamzaoglu, Y Sonuk, U Domanıç
Istanbul Istanbul Medical Faculty. Deit or Orthopaedics and Traumatology, Turkey

Motion Preservation Treatment
Chair: M. Brayda-Buno, F. Ozer

SP 29 CORRELATION BETWEEN CLINICAL OUTCOME AND DIFFERENT INDICATIONS FOLLOWING TOTAL LUMBAR DISC REPLACEMENT
CJ Siepe, K Wiechert, A Korge, HM Mayer
OrthoCenter Munich, SpineCenter, Harlachinger Str. 51, D-81547 Munich; Germany

SP 30 TOTAL LUMBAR DISC REPLACEMENT: DIFFERENT RESULTS FOR DIFFERENT LEVELS
CJ Siepe, A Korge, HM Mayer
OrthoCenter Munich, SpineCenter, Harlachinger Str. 51, D-81547 Munich; Germany

SP 31 WHAT IS THE CORRELATION OF IN VIVO WEAR AND FRACTURE PATTERNS WITH IN VITRO TDR MOTION RESPONSE
S Kurtz, A Patwardhan, A van Ooij, M Lorenz, M Zindrick, P O'Leary, J Peloza, E Ross, J de Waal Malefijt, L Ciccarelli
Exponent, Inc., Philadelphia, PA; Loyola University Medical Center, Maywood, IL; University Hospital Maastricht, Maastricht, Netherlands; Center for Spine Care, Dallas, TX; Salford Hospital, Manchester, UK; Elisabeth Hospital, Tilburg, Netherlands

SP 32 CAN FUSION OR DISC REPLACEMENT DO BETTER? THE OUTCOMES OF A FUNCTIONAL RESTORATION PROGRAM FOR BACK PAIN
P Sell, M Sivan, B Sell
Department of Orthopaedic Surgery, University Hospitals Leicester, Leicester, United Kingdom

SP 33 WHICH FACTORS ARE MORE INFLUENCING ON THE POSTOPERATIVE SEGMENTAL RANGE OF MOTION IN THE PATIENTS WITH DEGENERATIVE DISC DISEASES TREATED WITH PRODISC-L: INTRINSIC OR TECHNICAL?
CK Park, MK Kim, DH Kim , KS Ryu
Neurosurgery, The Catholic University, Seoul, Korea

SP 34 CAN OR SHOULD WE SACRIFICE THE POSTERIOR LONGITUDINAL LIGAMENT IN TOTAL DISC REPLACEMENT?
B Cakir, W Schmoezt, R Schmidt, M Richter, L Claes, H Reichel, HJ Wilke
Department of Orthopaedics, University of Ulm, Germany

SP 35 ARTIFICIAL LUMBAR DISC REPLACEMENT VS CIRCUMFERENTIAL FUSION FOR THE TREATMENT OF DISCOGENIC PAIN: A PROSPECTIVE RANDOMIZED STUDY
G Tepper, J. Ergener, S B Wolf, L Feldman, M. Secter
Miracle Mile Medical Center, Los Angeles, USA

1530-1600 BREAK
### 1600 Awards and Honorary Lectures Session
Chair: H.M. Mayer, C. Bolger

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<td>SSE MEDAL LECTURE</td>
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<td>1635-1645</td>
<td>MODIC CHANGES AND THEIR ASSOCIATIONS WITH CLINICAL FINDINGS</td>
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**Saturday, October 28, 2006**

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<td>POSTERIOR SPINAL FUSION FOR THORACIC ADOLESCENT IDIOPATHIC SCOLIOSIS CURVES GREATER THAN 80°: PEDICLE SCREWS VS HOOKS</td>
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<td>P Parisini, G Bakaloudis, M Di Silvestre, T Greggi, S Giacomini, F Lolli</td>
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<td>Istituto Ortopedico Rizzoli; Spine Surgery Department; Bologna, Italy</td>
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<td>SURGICAL TREATMENT OF ADULT LUMBAR SCOLIOSIS - IS ANTERIOR APICAL RELEASE AND FUSION NECESSARY?</td>
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<td>Washington University Medical Center</td>
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<td>COMPARISON OF COMBINED ANTERIOR AND POSTERIOR SURGERY WITH POSTERIOR ALONE SURGERY IN THE TREATMENT OF ADOLESCENT IDIOPATHIC SCOLIOSIS WITH THORACIC CURVES MORE THAN 70 DEGREES</td>
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<td>U Aydinli, R Vural, M Mutlu, C Ozturk</td>
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<td>Uludag University Medical School, Dept. of Orthopedic Surg., Bursa; Turkish Armed Forces Rehabilitation and Care Center, Ankara, Turkey</td>
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<td>OPERATIVE TREATMENT OF ADOLESCENT IDIOPATHIC SCOLIOSIS WITH POSTERIOR PEDICLE SCREW-ONLY CONSTRUCTS. MINIMUM 3-YEAR FOLLOW-UP OF 103 CASES</td>
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<td>RA Lehman, Jr., LG Lenke, KA Keeler, YJ Kim, JM Buchowski, G Cheh, CA Kuhns, KH Bridwell</td>
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<td>Washington University Medical Center, USA</td>
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0858-0904 70 RESULTS OF MINIMUM 10 YEARS FOLLOW-UP OF TSRH INSTRUMENTATION IN THE TREATMENT OF ADOLESCENT IDIOPATHIC SCOLIOSIS
E Ayd, S Akal, B Kurtulu, H Aslan, B Ate, V nol, Solak
S.B. Ankara Dikapi Beyazit Teaching and Research Hospital, Ankara, Turkey

0905-0911 71 FACTORS LEADING TO ADJACENT DISC DEGENERATION AFTER THORACOLUMBAR ANTERTIOR DERROTATION SPONDYLODESIS.
P Metz-Stavenhagen, L Ferrarais, A Hempfling, S Krebs
Werner Wicker Klinik, Germany

0912-0918 72 PEDIATRIC MULTILEVEL SPINE INJURIES: PATTERNS OF INJURY AND TREATMENT IN 48 PATIENTS
S Dogan, E Civelek, S Safavi-Abbasi, NR Mariwalla, EM Horn, N Theodore
Barrow Neurological Institute, USA

0919-0925 73 TREATMENT OF SEVERE SPONDYLOLISTHESIS WITH REDUCTION AND OSTEOSYNTHESIS: LONG-TERM CLINICAL AND RADIOLOGICAL OUTCOME
J-P Stelb, X Chiffolot , S Champain, , J Bogorin
Hôpitaux Universitaires de Strasbourg, France

0926-0932 74 PEDICLE SUBTRACTION OSTEOTOMY FOR FIXED SAGITTAL IMBALANCE
G Bakaloudis, M Di Silvestre, T Greggi, A Cioni, S Giacomini, F Loli, P Parisini
Istituto Ortopedico Rizzoli; Spine Surgery Department; Bologna, Italy

0933-0939 75 ADULT SPINAL DEFORMITY SURGERY: COMPLICATIONS AND OUTCOMES IN PATIENTS OVER AGE 60
MD Daubs, LG Lenke, G Cheh, G Stobbs, KH Bridwell
Washington University Medical Center; USA

0940-1010 Discussion

1010-1040 BREAK

1040
Thoracolumbar V
Chair: O. Hägg, M. Zileli

1040-1046 76 FACET AND INTERFACET SHAPE AND ORIENTATION IN SPONDYLOLYSIS: A SKELETAL STUDY
Y Masharawi, G Dar, S Peleg, N Steinberg, B Medleg, D Ezra, D Alperovitch-Najenson,
I Hershkovitz
Spinal Research Lab. Physical Therapy Department, The Stanley Steyer School of Health Professions, Sackler Faculty of Medicine, Tel-Aviv University

1047-1053 77 PREDICTIVE QUALITY OF TREADMILL TEST AND MRI AS PRE-SURGERY DIAGNOSTIC INSTRUMENTS IN LUMBAR SPINAL STENOSIS
T Barz, M Melloh, L Staub, FG Smisek, F Kneefler, HR Merk
(1) Department of Orthopaedic Surgery, University of Greifswald, Germany; (2) MEM Research Center for Orthopaedic Surgery, University of Berne, Switzerland; (3) Department of Orthopaedic Surgery, Klinikum Uckermark, Schwedt/Oder, Germany

1054-1100 78 LOW BACK PAIN AND SPINAL STENOSIS: DO PATIENTS WITH DEGENERATIVE SPONDYLOLISTHESIS HAVE MORE BACK PAIN THAN PATIENTS WITH NO OLISTHESIS?
J Adnervik, B Jönsson
Department of Orthopedics, Helsingborg Hospital, Helsingborg, Sweden

1101-1107 79 RANDOMISED DOUBLE BLINDED PLACEBO-CONTROLLED TRIAL ON THE EFFECTIVENESS OF NASAL SALMON CALCITONIN IN THE TREATMENT OF LUMBAR SPINAL STENOSIS
P Sell, S Tafazal, L Ng
Department of Orthopaedic Surgery, University Hospitals Leicester, Leicester, United Kingdom

1108-1114 80 COMPARISON OF MRI AND CT MYLOGRAPHY IN DETECTING LUMBAR SPINAL CANAL STENOSIS.
HL George, G Regi, J Jalaludhin, V Peter, CK Vasu, P Gopinathan
Medical College Calicut, India
1115-1121  81  CT GUIDED RADIOFREQUENCY ABLATION IN 24 PATIENTS WITH SPINAL OSTEOID OSTEOMAS

PDS Dijkstra, W Obermann, E Vanderlinden, AHM Taminiu
Leiden University Medical Center, the Netherlands

1122-1128  82  FAS AND FAS LIGAND INTERACTION BETWEEN INTERVERTEBRAL DISC AND CANCER CELLS: A POTENTIAL MECHANISM FOR RESISTANCE OF INTERVERTEBRAL DISCS TO LOCAL INVASION BY METASTATIC CANCER

JB Park, ST Cho
The Catholic University of Korea School of Medicine, Korea

1129-1135  83  EN BLOC SPONDYLECTOMY IN 21 PATIENTS WITH PRIMARY MALIGNANT BONE TUMOURS OR SOLITARY METASTASEIS

UL Liljenqvist, T Lerner, V Bullmann, T Schulte, H Halm
Orthopedic University Hospital Muenster, Germany

1136-1200  Discussion

1200  Announcement of 2006 Best Podium Presentation

1205  CLOSING REMARKS - END