### Tuesday, September 14, 2010

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>09:00</td>
<td>on-site Registration</td>
</tr>
<tr>
<td>10:00-18:00</td>
<td>Pre-Meeting Day Program (separate Registration needed)</td>
</tr>
<tr>
<td>10:00-18:00</td>
<td>Challenges and Controversies in Pediatric Deformity</td>
</tr>
<tr>
<td></td>
<td>Chair: E Acaroglu, Ankara, Turkey</td>
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<tr>
<td></td>
<td>Room: Schubert 1</td>
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<tr>
<td>10:00-18:00</td>
<td>Complications in Adult Thoracolumbar Spine Surgery</td>
</tr>
<tr>
<td></td>
<td>Chair: F Pellisé, Barcelona, Spain</td>
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<td>Room: Schubert 2-3</td>
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### Wednesday, September 15, 2010

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>07:30</td>
<td>on-site Registration</td>
</tr>
<tr>
<td>08:30</td>
<td>OPENING</td>
</tr>
<tr>
<td>08:35</td>
<td>WELCOME ADDRESS</td>
</tr>
<tr>
<td>08:40</td>
<td>INTRODUCTION TO THE SCIENTIFIC PROGRAM</td>
</tr>
<tr>
<td></td>
<td>The blinded peer review process of the program committee</td>
</tr>
<tr>
<td></td>
<td>A Alanay, Chair Program Committee 2010</td>
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### GENERAL SESSION

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>08:50</td>
<td>1 METANALYSIS OF CLASS I AND II DATA ON RESULTS OF ANTERIOR CERVICAL</td>
</tr>
<tr>
<td></td>
<td>DECOMPRESSION AND FUSION</td>
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<tr>
<td></td>
<td>K Pettine, L Eismann</td>
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<tr>
<td></td>
<td>Spine Surgery, The Spine Institute, Loveland, USA</td>
</tr>
<tr>
<td>09:00</td>
<td>2 CORRELATION OF CLINICAL AND RADIOGRAPHIC OUTCOME FOLLOWING ANTERIOR</td>
</tr>
<tr>
<td></td>
<td>CERVICAL PLATING WITH DYNAMIC OR RIGID PLATES:</td>
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<tr>
<td></td>
<td>2 YEARS RESULTS OF A MULTI-CENTRIC, RANDOMIZED, CONTROLLED STUDY</td>
</tr>
<tr>
<td></td>
<td>TR Pitzen, J Drumm, J Stulik, K Kucera, J Chrobok, V Vyskocil, WI Steudel, S Ruffing</td>
</tr>
<tr>
<td></td>
<td>Spinal Surgery, SRH Wald-Klinikum, Gera, Germany</td>
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<tr>
<td>09:10</td>
<td>3 EFFECT OF RETROPHARYNGEAL STEROID ON PREVERTEBRAL SOFT TISSUE SWELLING FOLLOWING ANTERIOR CERVICAL DISCECTOMY AND FUSION; A PROSPECTIVE, RANDOMIZED STUDY</td>
</tr>
<tr>
<td></td>
<td>SH Lee, KT Kim, KS Suk, JH Lee, ES Sohn</td>
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<tr>
<td></td>
<td>Orthopedic Surgery, Kyung Hee University, Seoul, Korea</td>
</tr>
<tr>
<td>09:20</td>
<td>4 CLINICAL AND RADIOGRAPHIC OUTCOME OF THE NEODISC CERVICAL TOTAL DISC REPLACEMENT (TDR) AT TWO-YEAR FOLLOW-UP</td>
</tr>
<tr>
<td></td>
<td>K Pettine</td>
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<tr>
<td></td>
<td>Spine Surgery, The Spine Institute, Loveland, USA</td>
</tr>
<tr>
<td>09:30</td>
<td>5 THREE-YEARS RESULTS OF CERVICAL DISC PROSTHESSES IN THE SWISSSPINE REGISTRY</td>
</tr>
<tr>
<td></td>
<td>E Aghayev, P Moulin, CP Röder, on behalf of the SWISSspine Group</td>
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<td>IEFO, IEFO, University of Bern, Bern, Switzerland</td>
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<tr>
<td>09:40</td>
<td>6 ANOMALOUS VERTEBRAL ARTERY AT THE EXTRAOSSEOUS AND INTRAOSSEOUS REGIONS OF THE GRANIOVERTEBRAL JUNCTION DETECTED BY 3-D CT ANGIOGRAPHY; ANALYSIS ON THE 100 CONSECUTIVE OPERATIVE CASES</td>
</tr>
<tr>
<td></td>
<td>M Yamazaki, A Okawa, A Sakuma, H Takahashi, M Hashimoto, M Koda, K Takahashi</td>
</tr>
<tr>
<td></td>
<td>Spine Section, Department of Orthopaedic Surgery, Chiba University Graduate School of Medicine, Chiba, Japan</td>
</tr>
<tr>
<td>09:50</td>
<td>7 NEUROPROTECTIVE THERAPY USING GRANULOCYTE COLONY-STIMULATING FACTOR (G-CSF) FOR ACUTE SPINAL CORD INJURY - PHASE I, IIA CLINICAL TRIAL -</td>
</tr>
<tr>
<td></td>
<td>T Hiroshi, Y Masashi, O Akihiko, K Masao, H Masayuki, H Mitsuhiro, H Koichi, K Kei, T Kazuhisa</td>
</tr>
<tr>
<td></td>
<td>Department of Orthopaedic Surgery, Graduate School of Medicine, Chiba University, Chiba, Japan</td>
</tr>
</tbody>
</table>
Surgical success and failure in the lumbar spine
Chair: D Schlenzka, Finland - H Meisel, Germany
Room: Plenary Hall

10:30
8 IMPROVED QUALITY OF LIFE, PAIN, AND FUNCTION AFTER SPINAL FUSION IN CHRONIC LOW BACK PAIN ARE NOT DEPENDENT ON OPERATIVE TECHNIQUE
Y Robinson, B Sandén
Institute for Surgical Sciences, Uppsala University Hospital, Uppsala, Sweden

10:40
9 A LONG TERM CLINICAL EXPERIENCE WITH THREE DIFFERENT NUCLEUS REPLACEMENT DEVICES – LESSONS LEARNED AFTER 5 YEARS FOLLOW UP
L Oliveira, L Marchi, E Coutinho, L Pimenta
Scientific Dept, Instituto de Patologia da Coluna, Sao paulo, Brazil

10:50
10 A FULL ECONOMIC EVALUATION OF DISC PROSTHESIS VS. LUMBAR FUSION IN PATIENTS WITH CHRONIC LOW BACK PAIN - A RANDOMIZED CONTROLLED TRIAL WITH TWO-YEAR FOLLOW UP
P Fritzell, S Berg, T Tullberg, F Borgström, H Troup
Orthopaedic, Falun hospital, Falun, Sweden

11:00
11 5 YEARS OF EXPERIENCE WITH A NATIONAL MANDATORY REGISTRY - MIDTERM RESULTS IN 638 PATIENTS WITH 734 LUMBAR TOTAL DISC ARTHROPLASTIES (TDA)
T Zweig, E Aghayev, P Moulin, R Orler, M Aebi, C Roeder
Orthopedica, Schwyz Hospital, Schwyz, Switzerland

11:10
12 RETROSPECTIVE ANALYSIS OF THE ETIOLOGY AND THE SALVAGE PROCEDURE IN THE CASES OF FAILED LUMBAR ARTHROPLASTY
Y Kang-Jun, L Chul-Woo, H Sang-Soo, L Sang-Ho, K Joon-Ki
Neurosurgery, St. Peter's Hospital, Seoul, Korea

11:20
13 SALVAGE STRATEGIES OF THE CHARITÉ LUMBAR DISC PROSTHESIS: CLINICAL RESULTS AFTER A FOLLOW-UP OF 3 YEARS
IM Punt, PC Willems, SM Kurtz, LW van Rijn, A van Ooij
Orthopaedic Surgery, Maastricht University Medical Center, Maastricht, Netherlands

11:30
14 CHANGES IN CORONAL AND SAGITTAL PLANE ALIGNMENT AFTER XLIF PROCEDURE IN THE TREATMENT OF DEGENERATIVE SCOLIOSIS
L Oliveira, L Marchi, E Coutinho, L Pimenta
Scientific DEpt, Instituto de Patologia da Coluna, sao Paulo, Brazil

11:40
15 POSTERIOR WEDGE OSTEOTOMY FOR IMBALANCE SPINE : NEW METHOD OF EVALUATION FOR THE AMOUNT OF CORRECTION NEEDED
P Leijssen, M Duarte, S Aunoble, E Fisher, JC Le huec
Chirurgie colonne vertebrale, bordeaux university hospital Pellegrin, bordeaux, France

11:50
16 SPINAL NAVIGATION: STANDARD PRE-OPERATIVE VERSUS INTRA-OPERATIVE COMPUTED TOMOGRAPHY DATA SET ACQUISITION MODE FOR BASED COMPUTER-GUIDANCE SYSTEM. RADIOLOGICAL AND CLINICAL STUDY IN 100 CONSECUTIVE PATIENTS.
F Costa, A Cardia, A Ortolina, M Sassi, M Fornari
Neurosurgery, Istituto IRCCS Galeazzi, Milan, Italy

12:00-14:00 EUROSPINE LUNCH SYMPOSIUM, Wednesday, September 15

12:00 EUROSPINE LUNCH SYMPOSIUM 1
Room: Strauss 1
Vertebral Osteotomy
Chair: B van Royen
Vertebral osteotomy, introduction
BJ van Royen, Amsterdam, NL
Preoperative planning for correction of sagittal deformity of the spine
P Roussouly, Lyon, France
Lumbar pedicle subtraction osteotomy
H Boehm, Bad Berka, Germany
Thoracic (Ponle) Osteotomy
M Grevitt, Nottingham, UK
Cervical Osteotomy
M de Kleuver, Nijmegen, NL
12:00-13:00  **EUROSPINE INFORMATION EVENT**

12:00  **EUROSPINE RESEARCH GRANTS**

Room: Business Suite 1/2

EuroSpine Task Force on Research (TFR)

Presented by: Margareta Nordin Dr. Med. Sci. (Chair); Federico Balagué MD; Christine Cedraschi PhD; Pierre Coté Dr. Chr. PhD; Björn Rydevik MD; Marek Szaplski MD

The Mandate from EuroSpine
The Members of the TRF
Purpose of the TRF
How to apply for funding
What is being funded
The Website (application form)
Conflict of interest

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**The younger spine, assessment and surgical treatments**

Chair: M Krismer, Austria - T Grivas, Greece

Room: Plenary Hall

14:00  17 QUANTITATIVE GEOMETRIC 3D ANALYSIS FOR EARLY DETECTION OF PROGRESSIVE ADOLESCENT IDIOPATHIC SCOLIOSIS  
X Drevelle, N Champain, E Ebermeyer, I Courtois, B Moullèsesaux, J Duboussel, W Skalli  
Laboratoire de Biomécanique, Arts et Métiers ParisTech, PARIS, France

14:10  18 EVALUATING THE REPRODUCIBILITY OF THE FORMETRIC 4D MEASUREMENTS FOR SCOLIOSIS  
S Marquèdos, P Knell, M Rolle, S Baute, M Riemenschneider, L Münch  
Orthopaedic Surgery, Illinois Bone and Joint Institute, Morton Grove, USA

14:20  19 BACK PAIN IN ADOLESCENT SCOLIOSIS PATIENTS  
T Sato, T Hirano, Y To, O Morita, N Endo, N Tanabe  
Orthopedic Surgery, Niigata Prefectural Shibata Hospital, Shibata, Japan

14:30  20 INITIAL BONE MINERAL STATUS AS A PREDICTOR OF BRACE TREATMENT OUTCOME IN GIRLS WITH ADOLESCENT IDIOPATHIC SCOLIOSIS  
S Xu, Q Yong, W Bin, Z Zechang, Z Feng  
Drum Tower Hospital, Nanjing University Medical School, Spine Surgery, Nanjing, China

14:40  21 ANALYSIS OF PREEXISTING VERTEBRAL ROTATION IN THE NORMAL INFANTILE, JUVENILE AND ADOLESCENT SPINE  
MM Janssen, JWM Kouwenhoven, TPC Schlosser, MA Viergever, LW Bartels, RM Castelein, KL Vincken  
Orthopaedics, University Medical Center Utrecht, Utrecht, Netherlands

14:50  22 TRACTION X-RAY UNDER GENERAL ANESTHESIA (TRUGA) HELPS TO SAVE MOTION SEGMENT IN SURGICAL TREATMENT OF LENKE TYPE 3C AND 5C CURVES  
A Alanay, C Ozturk, K Ganıyusufoglu, I Omek, M Enercan, A Hamzaoglu  
Florence Nightingale Hospital, Istanbul Spine Center, Istanbul, Turkey

15:00  23 RESULTS AND COMPLICATIONS OF KYPHECTOMY (PVCR) FOR PEDIATRIC HYPERKYPHOTIC SPINE DEFORMITIES (AN SRS GOP REVIEW OF ONE SITE)  
O Boachie-Adjei, EC Papadopoulos, C Sacramento, ME Cunningham, K Patronessa, B Lonner, F Sanchez Perez Grueso, M Mendelow, F Hess, M Gupta  
Orthopaedic Department, University of Athens, Athens, Greece

15:10  24 HEMIVERTEBRA RESECTION VIA POSTERIOR APPROACH IN YOUNG CHILDREN WITH CONGENITAL DEFORMITIES  
A Alanay, C Ozturk, M Aydogan, M Tezer, K Ganıyusufoglu, A Hamzaoglu  
Florence Nightingale Hospital, Istanbul Spine Center, Istanbul, Turkey

15:20  25 DOES PEDICULE SCREW FIXATION UNDER AGE FIVE CAUSE SPINAL CANAL NARROWING? A CT STUDY  
C Ozturk, A Alanay, M Tezer, M Enercan, L Ulusoy, A Hamzaoglu  
Florence Nightingale Hospital, Istanbul Spine Center, Istanbul, Turkey

15:30-16:00  **BREAK**

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**The older spine, assessment and surgical treatments**

Chair: J Franke, Germany - M Teli, Italy

Room: Plenary Hall

16:00  26 SHOULD A MRI FOR BACKPAIN INCLUDE THE SI JOINT?  
P Rao, S Ahuja, V Shanbagh, A Ghandour, P Davies, K Lyons  
Dept of Trauma and Orthopaedics, Cardiff Spinal Unit, Cardiff, United Kingdom

16:10  27 5 YEARS FOLLOW UP AFTER CEMENT AUGMENTATION OF VERTEBRAL COMPRESSION FRACTURES  
JG Grohs, D Eckmayer  
Orthopaedics, Medical University Vienna, Wien, Austria

16:20  28 POSTERIOR SUBTOTAL VERTEBRECTOMY FOR THE TREATMENT OF OSTEOPOROTIC FRACTURES WITH NEUROLOGICAL DEFICIT  
S Karadereley, C Ozturk, M Aydogan, L Ulusoy, A Alanay, A Hamzaoglu  
Florence Nightingale Hospital, Istanbul Spine Center, Istanbul, Turkey
## Thursday, September 16, 2010

### CONCURRENT SESSIONS (SPECIAL POSTER-PODIUM PRESENTATIONS)

<table>
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<tr>
<th>Time</th>
<th>Presentation</th>
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<tbody>
<tr>
<td>08:30</td>
<td><strong>Adult Thoracolumbar Spine non-degenerative:</strong> Serious Spine Disorders, assessment and surgical treatments</td>
</tr>
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</table>

**Chair:** P. Suchomel, Czech Republic - K Lam, UK  
**Room:** Strauss 1

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<table>
<thead>
<tr>
<th>Session No</th>
<th>Title</th>
<th>Authors</th>
<th>Institution</th>
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<tbody>
<tr>
<td>SP1</td>
<td>METASTASES TO THE SPINE EVALUATION OF POSTERIOR VS. ANTERO-POSTERIOR TREATMENT WITH REGARD TO FRANKEL’S SCORE</td>
<td>C Weger, A Frings, R Radl, A Leithner, M Zacherl, W Windhager</td>
<td>Department of Orthopaedic Surgery, Medical University of Graz, Graz, Austria</td>
</tr>
<tr>
<td>SP2</td>
<td>POSTERIOR SUBTOTAL CORPORECTOMY AND 360° FUSION IN TUMORAL LUMBAR DISEASE. SURGICAL TECHNIQUE.</td>
<td>PE Ricci, A Micoi, MD Reartes, D Malondarno, MA Bruzzone, R Espagnol, LM Melo, C Alonso, A Del Sat, SH Kees</td>
<td>Orthopaedics, Spinal Pathology Group, Hospital Español Central, Hospital de Clínicas José de San Martín, Buenos Aires, Argentina</td>
</tr>
<tr>
<td>SP3</td>
<td>PROLONGED MICROBIOLOGICAL INCUBATION OF BIOPIC TISSUE SAMPLES SIGNIFICANTLY IMPROVES THE POSITIVE IDENTIFICATION OF THE CAUSATIVE BACTERIA IN PYOGENIC SYPHILIS.</td>
<td>ChR Schaez, P Buchin-Emunds</td>
<td>Spine Center, Orthopedic clinic Marktgröningen, Marktgröningen, Germany</td>
</tr>
<tr>
<td>SP4</td>
<td>FINAL RESULTS OF THE FIRST RANDOMIZED TRIAL COMPARING BALLOON KYPHOPLASTY (BKP) TO NON-SURGICAL MANAGEMENT AMONG CANCER PATIENTS WITH VERTEBRAL COMPRESSION FRACTURES</td>
<td>R Pfumgacher, JR Berenson, P Jarzem, J Zonder, JB Tilman, T Astral, FD Vrionis</td>
<td>Centrum for Musculoskeletal Surgery, Christie University Clinic Berlin, Berlin, Germany</td>
</tr>
<tr>
<td>SP5</td>
<td>PROGNOSTIC FACTORS OF SPINAL DURAL ARTERIOVENOUS FISTULAE</td>
<td>T Aoyama, K Hida, S Yano, T Asano</td>
<td>Neurosurgery, Hokkaido University Graduate School of Medicine, Sapporo, Japan, Sapporo, Japan</td>
</tr>
<tr>
<td>SP6</td>
<td>UTILITY OF CYTOLGY DURING VERTEBROPLASTY FOR SCREENING OF NEOPLASTIC DISEASE</td>
<td>M Alfonso, C Villas, J Albiñana, LM Romero, R Lionbatt</td>
<td>Orthopedics, University Clinic of Navarre, Pamplona, Spain</td>
</tr>
<tr>
<td>SP7</td>
<td>VALIDATION OF THE TLCS SYSTEM IN A CHILEAN HOSPITAL</td>
<td>A Silva, P De la Fuente, M Valenzuela, JA Riera, B Merello, J Del Río, C Thibaut</td>
<td>Orthopaedic surgery, Hospital de Seguridad / Clínica Alemana, Santiago, Chile</td>
</tr>
<tr>
<td>SP8</td>
<td>POSTERIOR SUBTOTAL VERTEBRECTOMY OF THORACIC BURST FRACTURES WITH SPINAL CORD AND CHEST TRAUMA</td>
<td>S Karadeniz, C Ozturi, M Aydogan, A Alanay, M Sinirkci, A Hamzasoglu</td>
<td>Florence Nightingale Hospital, Istanbul Spine Center, Istanbul, Turkey</td>
</tr>
<tr>
<td>SP9</td>
<td>LONG TERM SURVIVAL AFTER LONG PRIMARY FUSION FOR ADULT SCOLIOSIS MORE THAN 40°. PROGNOSTIC FACTORS FOR REOPERATION. DOES REOPERATION ASSOCIATE WORSE SR22 AND SF36 FINAL FOLLOW-UP SCORES?</td>
<td>F Sanchez-Marinell Díaz, A Gomez Ricce, E Izquierdo Núñez, L Zúñiga Gómez, J Pizones Arce, P Alvarez Gonzalez</td>
<td>Spine Unit, Hospital Universitario de Getafe, Getafe, Spain</td>
</tr>
<tr>
<td>SP10</td>
<td>EFFICACY AND PITFALLS OF INTRA-OPERATIVE SPINAL CORD MONITORING WITH BR-MEPS</td>
<td>M Takahashi, K Satomi, N Taki, M Hasegawa, N Houki, S Ichimura</td>
<td>Orthopaedic surgery, Kyorin University School of Medicine, Mitaka, Japan</td>
</tr>
</tbody>
</table>
08:30 Experimental Spine: From the laboratory and clinic
Chair: K Ito, the Netherlands – D Haschtmann, Switzerland
Room: Lehar 4

SP11 MRI-SIGNAL INDUCING BONE CEMENTS FOR SPINAL APPLICATIONS.
F. Wichlack, U K M Teichgraber, H Trzonschek, H J Bail
Center for Musculoskeletal Surgery, Charité Berlin, Berlin, Germany

SP12 NERVE ROOT SEDIMENTATION SIGN – CONSEQUENCES OF CONFLICTING RESULTS AND INTRA- AND INTEROBSERVER RELIABILITY
P Rieger, M Melin, LP Staub, SJ Lord, G Hamann, JC Thies, T Barz
Orthopaedic and Unfallchirurgie, Asklepios Klinikum Ueckermark, Schwedt, Germany

SP13 DECREASED USE OF LUMBAR PROPROCRIPTIVE INPUTS REDUCES VARIABILITY IN POSTURAL STRATEGY IN PEOPLE WITH NON-SPECIFIC LOW BACK PAIN
K Clayeys, S Brumagne, W Dankertaerts
Faculty of Kinesiology and Rehabilitation Sciences, Department of Rehabilitation Sciences, Musculoskeletal Research Unit, University of Leuven (KULeuven), Leuven, Belgium

SP14 CHARACTERIZATION OF ADJACENT LEVEL LOADING IN THE CERVICAL SPINE FOR FUSION AND MOTION PRESERVING ALTERNATIVES
SD Staley, NM Condor, BL Staley, SA Randell
Biomechonics - Biomedical Devices, Exponent, Inc., Philadelphia, USA

SP15 FUSION STUDY OF A NOVEL FLEXIBLE TITANIUM INTERBODY AND A PEEK INTERBODY SPACER IN AN AGED OVINE MODEL
W R Walsh, M H Pelletier, W M Condors, M D Waltes, V Punjabsurgical & Orthopaedic Research Laboratories, University of New South Wales, Randwick, Australia

SP16 DAMAGE BEHAVIOUR OF VERTEBRAL TRABECULAR BONE IN COMPRESSION, TENSION AND TORSION
U Wolffram, H-J Wilke, PK Zysset
Institute of Orthopaedic Research and Biomechanics, Ulm University, Ulm, Germany

SP17 ANGIOMETRIC FACTORS, MECHANICAL LOADS AND OXYGEN SUPPLY: POSSIBLE INTERACTIONS IN THE REGULATION OF DEGENERATION ASSOCIATED DISC ANGINOSIS?
C Neeldinger-Wilke, A Mietisch, M Schultehees, HU Wilke, A Ignatius
Orthopedic Research and Biomechanics, University of Ulm, Ulm, Germany

SP18 ENDPLATE ANATOMIC RESTORATION MAY REDUCE ADJACENT FRACTURE OCCURRENCE WHEN USING A NEW CRANO-CAUDAL EXPANDABLE IMPLANT FOR VERTEBRAL COMPRESSION FRACTURE TREATMENT.
D Norrie, N Hansen-Algenstaedt, J Bayerlein
Surgery, Hospital Clinico Universitario de Valladolid, Valladolid, Spain

SP19 INFLUENCE OF PLATELET-RICH PLASMA (PRP) AND HYDROSTATIC PRESSURE ON CELL DIFFERENTIATION IN NUCLEUS PULPOSUS TISSUE ENGINEERING
A Mietisch, C Neeldinger-Wilke, H Schrezenmeier, UM Mauer, B Friemert, HU Wilke, A Ignatius
Institute of Orthopaedic Research and Biomechanics, University of Ulm, Ulm, Germany

SP20 EFFECTS OF SHORT TERM LOADING ON INTERVERTEBRAL DISC CELL VIABILITY IN THE LOADED DISC CULTURE SYSTEM
CPL Paul, HA Zuiderbaan, B Zandieh Doulabi, AJ Veen vd, TH Smit, MN Helder, BJ Royen van, MG Mullender
Orthopedic Surgery, VU Medical Center Amsterdam, Amsterdam, Netherlands

08:30 The younger spine, assessment and surgical treatments
Chair: A Alanay, Turkey - M Brayda-Bruno, Italy
Room: Lehar 1

SP21 META-ANALYSIS OF ANTERIOR AND POSTERIOR APPROACH IN 3-D CORRECTION OF IDIOPATHIC THORACIC ADOLESCENT SCOLIOSIS
M Franci, M Pecina, M Pasalic, D Ivanovic
Orthopaedic Dep., University Hospital Drava, Zagreb, Croatia

SP22 SURFACE MEASUREMENT & RADIOLOGICAL DETERMINANTS OF MODIFIED SRS OUTCOMES INSTRUMENT SCORES IN SURGERY OF THORACIC IDIOPATHIC SCOLIOSIS
P Ruthton, M Grewat, P Sell
University Hospital, Queens Medical Centre , The Centre for Spinal Studies and Surgery, Nottingham, United Kingdom

SP23 THE EFFECT OF THE LOWER INSTRUMENTED VERTEBRA (LIV) ON PAIN AND QUALITY OF LIFE IN PATIENTS SURGICALLY TREATED FOR AN IDIOPATHIC SCOLIOSIS
J Bago, J Sanchez-Raya
Spine Unit, Hospital Vall d’Hebron, Barcelona, Spain

SP24 PROXIMAL JUNCTIONAL KYPHOSIS FOLLOWING HYBRID INSTRUMENTATION IN AIS PATIENTS: A MINIMUM FIVE YEARS FOLLOW UP
GF Grabmeier, AH Kroener, A Engel, R Eyb
Orthopaedic department, Danube Hospital Vienna, Vienna, Austria

SP25 INTRERRADICULAR BONE-DISC-BONE OSTEOTOLOGY (BDBO): AN ALTERNATIVE TO OTHER OSTEOTOLOGY TYPES FOR THE CORRECTION OF THORACOLUMBAR AND LUMBAR SPINE DEFORMITIES
C Ozurtur, M Aydogan, S Karadereler, M Tezer, A Alanay, A Hamzaoglu
Florence Nightingale Hospital, Istanbul Spine Center, Istanbul, Turkey

SP26 ANALYSIS OF SEGITTAL ALIGNMENT CORRECTION IN ANKYLOSING SPONDYLITIS USING THREE DIFFERENT OSTEOTOLOGY TECHNIQUES
Sih Mdheidain, H Daleke, UK Debnath, P Lakshmanan
Dept of Spinal Surgery, Centre for Spinal Studies & Surgery, QMC, Nottingham, United Kingdom

SP27 COMPARISON OF SURGICAL OUTCOMES OF LENKE 1 ADOLESCENT IDIOPATHIC SCOLIOSIS: VERTEBRAL COPLANAR ALIGNMENT VERSUS DEFORMATION TECHNIQUE.
Q Yang, Z Peng, W Bin, Z Xiang, Z Yang, Z Qinghua
Tower Hospital, Nanjing University Medical School, Spine Surgery , Nanjing, China

SP28 COMPARISON OF TRACTION RADIOGRAPHICS TAKEN UNDER GENERAL ANESTHESIA WITH CONVENTIONAL FLEXIBILITY GRAPHIES IN AIS PATIENTS: WHICH IS BETTER?
C Ozurtur, A Alanay, M Aydogan, M Tezer, I Onel, A Hamzaoglu
Florence Nightingale Hospital, Istanbul Spine Center, Istanbul, Turkey

SP29 THE ROLE OF LATERAL BENDING FILMS IN DEFINING FUSION LEVELS IN ADULT IDIOPATHIC SCOLIOSIS (A IS) SURGERY
N-Pyrovolou, R Pand, J Dhr, S James, A Jones, H Howes, P Davies, S Aujha
Orthopaedic, University Hospital Of Wales, Cardiff , United Kingdom

SP30 THE "SHADOW SIGN": A RADIOGRAPHIC DIFFERENTIATION OF STAINLESS STEEL VS TITANIUM SPINAL INSTRUMENTATION IN SPINE SURGERY
SM Jones-Quaidoo, W Novicoff, A Park, V Arlet
Orthopaedic Surgery, University of Virginia, Charlottesville, USA
08:30 The older spine, assessment and surgical treatments
Chair: A Kroedel, Germany - JG Grohs, Austria
Room: Lehar 3

SP31 CAN THE DOG BE USED AS AN ANIMAL MODEL FOR DISH?
HC Kranenburg, LA Westerfeld, JJ Verlaan, FC Oner, WJA Dhert, G Voorhout, HAW Hazewinkel, BP Meij
Department of Clinical Sciences of Companion Animals, Utrecht University, Faculty of Veterinary Medicine, Utrecht, Netherlands

SP32 IN BALLOON KYPHOPLASTY FOR OSTEOPOROTIC VERTEBRAL BODY FRACTURES, THE POTENTIAL OF REDUCTION IS DEPENDING ON THE TIME TO SURGERY.
TR Blattert, JS Janvers, S Glasacher, C Josten
Spine Center, Leipzig University Hospital, Leipzig, Germany

SP33 BIOMECHANICAL EVALUATION OF A NOVEL FENESTRATED PREDICLE SCREW AUGMENTED WITH VARIOUS VOLUMES OF BONE CEMENT IN AN OSTEOPOROTIC THORACIC – LUMBAR SPINE
J L Chappuis, R Ramesaud, P E Pare, J P Shorez
Assistance Medecins Spine and Paraplegology, Centre hospitalier de la Clinique Saint-Luc, Brussels, Belgium

SP34 UNIPEDICULAR VERSUS BIPEDICULAR VERTEBROPLASTY – A BIOMECHANICAL COMPARISON FOR A FIXED PERCENTAGE VERTEBRAL BODY VOLUME CEMENT FILL
VH Bora, N Kapor, PA Milner, J Timothy, RM Hall
School of Medical and Biological Engineering, Institute of Medical and Biological Engineering, Leeds, United Kingdom

SP35 MORPHOLOGICAL CHANGES OF INJECTED CALCIUM PHOSPHATE CEMENT IN OSTEOPOROTIC COMPRESSED VERTEBRAL BODIES.
DH Heo, YJ Cho
Orthopedic Surgery, Hallym University College of Medicine, Kangwon-do, Korea

SP36 RATIONALE FOR LIMITED SURGICAL INTERVENTION IN VERTEBRAL BODY FRACTURES OF THE OSTEOPOROTIC PATIENT
TR Blattert, C Schmidt, C Janvers, C Josten
Spine Center, Leipzig University Hospital, Leipzig, Germany

SP37 THE OUTCOME OF FENESTRATION SURGERY FOR LUMBAR CANAL STENOSIS – THE IMPORTANT ROLE OF THE SPINOUS PROCESS IN POSTOPERATIVE STABILITY
F Kazyuki, E Shigeto, Y Hirotsushi, S Koki
Orthopedic Surgery, Saiseikai Kagoshima Hospital, Japan

SP38 DENSE SUBSIDENCE AFTER CORRECTOMY FOR OSTEOPOROTIC VERTEBRAL FRACTURES WITH SEVERE CANAL STENOSIS: IS CEMENT AUGMENTATION OF THE ANCHORING VERTEBRAE A SOLUTION?
H Boehm, A Ezzei, M Shousha, Y EIMany, H EI-Sagha
Department of Spine surgery and Paraplegology, central clinic Bad Berka, Bad Berka, Germany

SP39 SACROPLASTY – TECHNICAL NOTES AND COMPLICATIONS
JD Bastian, LM Benneker, U Sedel, P Heinl, MU Keel
Department of Orthopaedic Surgery, University of Bern, Inselspital, Bern, Switzerland

SP40 CLINICAL MANIFESTATIONS AND SURGICAL RESULTS OF SAGITTAL SPINAL MALALIGNMENT IN OSTEOPOROTIC ELDERLY PATIENTS TREATED WITH LONG INSTRUMENTED FUSION FROM HIGH THORACIC TO SACRUM
T Shimizu, N Manabe, M Oyama, Y Tataru, M Ito, K Fueki, N Toda, T Tanouchi
Orthopaedic Surgery, Gunma Spine Center (Harunasso Hospital), Takasaki, Japan

08:30 The cervical spine, assessment and surgical treatment
Chair: W Peul, the Netherlands - T Pigott, UK
Room: Lehar 2

SP41 THE NATURAL COURSE OF POSTERIOR OSTEOPHYES IN FUSED SEGMENT AFTER ANTERIOR CERVICAL DISCECTOMY AND FUSION
KY Ha, YJ Seo, JS Oh, IN Son, KW Kim, JS Lee
Department of Orthopaedic Surgery, College of Medicine, The Catholic University of Korea, Seoul, Korea

SP42 BONE BONDING OF A HYDROXYAPATITE SPACE AND THE VERTEBRAL ARCH IN EN BLOC CERVICAL LAMINOPLASTY FOR MYELOPATHY
M Umeda, K Sasai, E Wakabayashi, A Ikeura, T Kushida, H Iida
Orthopedic Surgery, Kansai Medical University, Osaka, Japan

SP43 LIFE EXPECTANCY AND CLINICAL TIME-COURSE AFTER SURGERY FOR DIALYSIS-ASSOCIATED CERVICAL SPONDYLOSIS
T Hirano, T Ito, T Izuhi, A Sano
Division of Orthopedic Surgery, Nippon University Graduate School of Medical and Dental Sciences, Nippon City, Japan

SP44 COMPARATIVE ANALYSIS OF RADIOPHORIC, CLINICAL, AND SURGICAL OUTCOME IN CERVICAL ARCH RECONSTRUCTION IN TERMS OF NUMBER OF LEVELS
L Chul-Woo, Y Kang-Jun, H Sang-Soo, L Sng-Ho, K Joon-Ki
Neurosurgery, St. Peter's hospital, Seoul, Korea

SP45 SIMPLE FOOT-TAPPING TEST AS A QUANTITATIVE ASSESSMENT OF SPINAL COMPRESSIVE MYELOPATHY
T Numasawa, a, o no, k wada, y yamazaki, k ueyama, s toh
Orthopedic Surgery, Hirotsuki-University Graduate School of Medicine, Hirotsuki, Japan

SP46 INTERNATIONAL VARIATIONS IN THE CLINICAL PRESENTATION AND MANAGEMENT OF CERVICAL SPONDYLOMYELITIC MYELOPATHY. ONE YEAR OUTCOMES OF THE ASPIRE MULTI-CENTER PROSPECTIVE STUDY
G Banbargola, M Feihings, B Kopoor, R Bartess, H Defino, P Arnold, Q Zhou, M Zilea, Gi Tan, O Moraes, S Kale, C Bolger, M Alvarez
MCsirakaj
1Medical University of Catania, Catania, Italy
2University of Toronto, Toronto, Canada
3University of Washington, Seattle, WA
4Canisius Wilhelmina Hospital, Nijmegen, The Netherlands
5University of Sao Paulo - Ribeirao Preto, Sao Paulo, Brazil
6University of Kansas, Kansas City, United States
7Southeastern Hospital, ChongQing, China
8Berlin University Hospital, Berlin, Germany
9Tan Tock Seng Hospital, Singapore, Singapore
10Hospital Santa Marcelina, Sao Paulo, Brasil, 11All India Institute of Medical Sciences, New Delhi, India
12Beaumont Hospital, Dublin, Ireland
13Hospital San Juan de Dios, Caracas, Venezuela
14Medical University of Ancona, Ancona, Italy

SP47 SURGICAL TREATMENT OF CERVICAL DEGENERATIVE DISC DISEASE WITH MYELORADICULOPATHY: TWO-LEVEL ANTERIOR DISCECTOMY VERsus ONE LEVEL ANTERIOR CORRECTOMY
A Alnay, K G Ianacostina, S Karadereli, M Tezer, C Ozurt, A Hamzaoglu
Florence Nightingale Hospital, Istanbul Spine Center, Istanbul, Turkey

SP48 TANDEM SPINAL STENOSIS: DILEMMA IN DIAGNOSIS AND MANAGEMENT
S Karadereli, K G Ianacostina, L Uluoy, C Ozurt, A Alnay, A Hamzaoglu
Florence Nightingale Hospital, Istanbul Spine Center, Istanbul, Turkey

SP49 ADJACENT SEGMENT DEGENERATIVE DISEASE: IS IT DUE TO DISEASE PROGRESSION OR A FUSION-ASSOCIATED PHENOMENON? – COMPARISON BETWEEN SEGMENTS ADJACENT TO THE FUSED AND NON-FUSED SEGMENTS
BW Choi, KJ Song, KB Lee, BP Choi
Department of Orthopedic Surgery, Gwangju Veterans Hospital, Gwang ju, Korea

SP50 TIMING TO DIAGNOSIS AND NEUROLOGICAL OUTCOMES IN 48 CONSECUTIVE CRANIODECERVICAL DISASSOCIATION PATIENTS
R Brandford, C Bellabarba, A Riss, T Penoyar, J Chapman
Department of Orthopaedics and Sports Medicine, University of Washington, Seattle, USA
08:30  
**Adult Thoracolumbar Spine, degenerative: Common Spinal Disorders, assessment and surgical treatments**  
Chair: L Papavero, Germany – J Meissel, Austria  
Room: Strauss 2  

**SP51**  
**CLINICAL AND RADIOLOGICAL CORRELATION OF RED FLAG SIGNS IN ACUTE BACK PAIN ADMISSIONS**  
N Raison, W Alwan, Mz Farook, R Mohammed, A Khateel, CB Schofeld, A Abbot  
Trauma & Orthopaedics, Ashford and St Peters Hospitals NHS Trust, Chertsey, Surrey, United Kingdom  

**SP52**  
**HERNIA RECURRENT AFTER DISCECTOMY: INCIDENCE AND PROGNOSIS.**  
J Cordero, E Montes, JMC Ubierna, A Garcia de Frutos, A Matamalas, G Salto, E Caceres  
Department of Orthopaedics and Traumatology, Instituto Universitario Dexeus, Barcelona, Spain  

**SP53**  
**“RELIABILITY AND VALIDITY OF A TREATMENT OUTCOME SATISFACTION QUESTIONNAIRE FOR PATIENTS WITH LOW BACK PAIN (LBP)”**  
A Lis, S Weiser, M Nordin, M Campello, R Nelson, M Rossignol  
OIC. HUJ NYU Langone Medical Center, New York, USA  

**SP54**  
**THREE DIMENSIONAL RECONSTRUCTIONS OF SPINAL SEGMENTAL ARTERIES USING COMPUTED TOMOGRAPHIC ANGIOGRAPHY: APPLICATIONS IN SPINAL SURGERY**  
D H Heo, YJ Cho  
Neurosurgery, Hallym University College of Medicine, Kangwon-do, Korea  

**SP55**  
**INTERBODY FUSION WITH PEEK AND A NOVEL COMPLIANT TITANIUM FUSION DEVICE IN AN AGED OVINE MODEL**  
MP Pelletier, N Cordaro, MD Wailes, V Punjab, WR Walsh  
Surgical & Orthopaedic Research Laboratories, University of New South Wales, Randwick, Australia  

**SP56**  
**LUMBAR DECOMPRESSION FOLLOWED BY COFLEX™ INTERLAMINAR IMPLANT VS. PEDICLE SCREW POSTERIOR LATERAL FUSION FOR TREATMENT OF STENOSIS**  
K Petrie  
Spine Surgery, The Spine Institute, Loveland, USA  

**SP57**  
**LOCAL INFECTION AND ITS TREATMENT OPTIONS AFTER IMPLANTING TRANS-1 AXIALIF- A SERIES OF 4 PATIENTS**  
MP Matzner, A Stift, P Krepler, S Wincker, JG Grohs  
Department of Orthopaedics, Medical University Vienna, Vienna, Austria  

**SP58**  
**ARE PERIPROSTHETIC TISSUE REACTIONS OBSERVED AFTER REVISION TOTAL DISC REPLACEMENT COMPARABLE TO THE REACTIONS OBSERVED AFTER TOTAL HIP OR KNEE REVISION SURGERY?**  
S Austen, IM Punt, JPM Clejdenas, PC Willems, RHM ten Broeke, SM Kurts, LW van Rhijn, A van Ooij  
Orthopaedic Surgery, Maasstricht University Medical Center, Maastricht, Netherlands  

**SP59**  
**SUITABILITY OF A CALCIUM ALUMINATE CERAMIC IN BALLOON-KYPHOPLASTY OF OSTEOPOROTIC VERTEBRAL BODY FRACTURES. RESULTS OF A PROSPECTIVE CLINICAL TRIAL.**  
TR Blattert, S Glassmacher, C Austen  
Spine Center, Leipzig University Hospital, Leipzig, Germany  

**SP60**  
**POSTOPERATIVE ANTITHROMBOTIC THERAPY AFTER SPINE OPERATIONS – NEGLIGENCE OR SAFE AND EFFECTIVE?**  
A Lunzer, P Vavken, JG Grohs  
Orthopedic Department, Medical University Vienna, Vienna, Austria  

10:00-10:30  
**BREAK**  

10:30  
**Presidential Address, Medal and Awards Lectures**  
Chair: HU Wilke, H Berk, M Ogon  
Room: Plenary Hall  

10:30  
**EuroSpine Presidential Address**  
HU Wilke, Ulm, Germany  

11:00  
**Winner of 2010 EuroSpine Full Paper Award**  
ABNORMAL ACTIVATION OF THE MOTOR CORTICAL NETWORK IN IDIOPATHIC SCOLIOSIS DEMONSTRATED BY FUNCTIONAL MRI  
J Domenich, G Garcia-Marti, L Marti-Bonmati, C Barros, JM Tomos, A Pascaud-Leone  
Orthopedic Surgery, Hospital Arnau de Vilanova, Valencia, Spain  

11:00  
**Winner of 2009/2010 European Spine Journal/Grammer Award**  
DISC CELL CLUSTERS IN PATHOLOGICAL HUMAN INTERVERTEBRAL DISCS ARE ASSOCIATED WITH INCREASED STRESS PROTEIN IMMUNOSTAINING  
CA Sharp, S Roberts, H Evans, SJ Brown  
Eur Spine J (2009) 18:1587–1594  

11:20  
**Announcement/Presentation of Poster Prize**  

11:25  
**EuroSpine activity report: Research Grant Applications**  

11:30  
**EuroSpine Medal Lecture**  
A Common Denominator for Beauty in Human Perception  
Bernd Løtșch, e.m. Director General of the Natural History Museum, Vienna (1994-2009), a.o. Prof. Univ. of Salzburg, lecturing human ecology at the Univ. of Vienna, Austria  

12:00-14:00  
**EUROSPINE LUNCH SYMPOSIA**, Thursday September 16  

12:00  
**EUROSPINE LUNCH SYMPOSIA 2**  
Room: Strauss 2  
**Conservative treatment of adult scoliosis**  
Chair: JC de Mauroy, Lyon, France  

12:20  
**Back pain and disability in non-operated adult scoliosis patients. Indications for Conservative Treatment**  
M Rigo, Barcelona, Spain  

12:40  
**Literature review, Exercises and conditioning**  
HR Weiss, Gensingen, Germany
13:05 Long term Results of Lyon bracing
JC de Mauroy, Lyon, France
13:20 Orthotic perspective: an individual indication
F Landauer, Salzburg, Austria
13:40 Discussion including Clinical Cases
Faculty
13:55 Conclusions and take-home messages
JC de Mauroy, Lyon, France

12:00 EUROSPE LUNCH SYMPOSIUM 3
Room: Strauss 1
Controversies in the treatment of spondylogenic cervical myelopathy
Chair: R Kothe, Dortmund, Germany
12:20 When should we operate patients with SCM?
W Peul, Leiden, the Netherlands
12:40 Is there an indication for cervical arthroplasty in SCM?
M Mayer, Munich, Germany
13:00 What is the best surgical approach for multisegmental SCM
L Papavero, Hamburg, Germany
13:20 Discussion including Clinical Cases
Faculty
13:30 Conclusions and take-home messages
R Kothe, Dortmund, Germany

GENERAL SESSION
14:00 Experimental Spine: from the laboratory and clinic
Chair: D Haschtmann, Switzerland - M Nordin, USA
Room: Plenary Hall
14:00 35 BUPIVACAINE – THE DEADLY FRIEND OF INTERVERTEBRAL DISC CELLS?
K Wuertz, L Quero, M Klawitter, A Nerlich, N Boos
Spine Research Group, CABBMM, University of Zurich, Zurich, Switzerland
14:10 36 THORACIC DIMENSIONS AND CARDIO-RESPIRATORY FUNCTION IN PRE-PUBERTAL NEW ZEALAND WHITE RABBITS SUBJECTED TO SPINAL ARTHRODESIS
F Canavese, A Dimeglio, F Cavalli, M Stebel, D Barbetta, D Volpatti, M Galeotti, B Canavese
Département de l'enfant et de l'adolescent, Hopitaux Universitaires de Genève, Genève, Switzerland
14:20 37 TRANSPLANTATION OF HUMAN EMBRYONIC STEM CELL DERIVED-NEURAL STEM/PROGENITOR CELLS FOR SPINAL CORD INJURY IN ADULT NOD/SCID MICE
Y Takahashi, Y Okada, A Dimeglio, F Cavalli, M Stebel, D Barbetta, D Volpatti, M Galeotti, B Canavese
Department of Orthopaedic Surgery, Keio University, School of Medicine, Tokyo, Japan
14:30 38 LUMBAR DEGENERATIVE DISC DISEASE PROGRESSION IS INFLUENCED BY GENETIC FACTORS: THE UK TWIN SPINE STUDY
FMK Williams, M Popham, PN Sambrook, TD Spector, AJ MacGregor
Twin Research and Genetic Epidemiology, King's College London, London, United Kingdom
14:40 39 AUTOGRRAFTS FOR SPINAL FUSION: EFFECTIVENESS OF BONE CELL SUPPLY OF BONE SHAVINGS COLLECTED DURING SURGICAL DECOMPRESSION VERSUS LAMINECTOMY BONE CHIPS
C Eder, A Chavanne, J Meissner, W Bretscherider, A Tuschel, P Becker, M Ogon
3rd Orthopedic Department, Orthopedic Hospital Vienna - Speising, Vienna, Austria
14:50 40 BIOLOGICAL SEALING OF ANNULUS FIBROSUS DEFECTS WITH A POLYMER-BASED IMPLANT IN AN OVINE MODEL
AA Hegewald, F Medved, D Feng, C Tsagaglogiorgas, G Schindler, A Arshi, T Deichmann, A Tuschel, P Becker, M Ogon
Department of Neurosurgery, Innsbruck Medical University, Innsbruck, Austria
15:00 41 INFLUENCE OF THE TYPE OF SEAT ON SPINAL LOAD
A Rohmann, T Zander, F Graichen, G Bergmann
Julius Wolff Institute, Charité - Universitätsmedizin Berlin, Berlin, Germany
15:10 42 GLOBAL SAGITTAL SPINAL BALANCE: NORMATIVE VALUES FROM A PROSPECTIVE COHORT OF 715 ASYMPTOMATIC ADULTS AND 646 ASYMPTOMATIC CHILDREN
P Roussouly, JM Mac Thiong, E Berthonnaud, H Labelle
chirurgie orthopédique, CMCR des Massues, Lyon, France
15:20 43 OXYGEN CONCENTRATION INFLUENCES NUCLEUS PULPOSUS CELLS IN 3D PELLET CULTURE DURING LONG-TERM CULTIVATION
A Mietzsch, A Ignatius, M Schultheiss, HJ Wilke, C Neidlinger-Wilke
Institute of Orthopaedic Research and Biomechanics, University of Ulm, Ulm, Germany
15:30-16:00 BREAK

16:00 Adolescent and serious spinal deformity
Chair: F Pellisé, Spain - M Grevitt, UK
Room: Plenary Hall
16:00 44 HOW DO IDIOPATHIC SCOLIOSIS PATIENTS WHO IMPROVE AFTER SURGERY DIFFER FROM THOSE WHO DO NOT EXCEED A MINIMUM DETECTABLE CHANGE? J Bago, FJS Perez-Grueso, E Les Spine Unit, Hospital Vall d’Hebron, Barcelona, Spain

16:10 45 APICAL VERTEBRAL DOROTATION IN THE TREATMENT OF ADOLESCENT IDIOPATHIC SCOLIOSIS. MYTH OR REALITY? M Di Silvestre, P Lolli, G Bakaloudis, P Vrommano, S Giacomini, E. Maredi Spine Surgery Department, Istituto Ortopedico Rizzoli, Bologna, Italy

16:20 46 ANTERIOR OR POSTERIOR SURGERY FOR RIGHT THORACIC ADOLESCENT IDIOPATHIC SCOLIOSIS (AIS)? RADIOLOGIC & FUNCTIONAL OUTCOMES P Ruhtlon, M Grevitt, P Sell University Hospital, Queens Medical Centre, The Centre for Spinal Studies and Surgery, Nottingham, United Kingdom

16:30 47 A PROSPECTIVE EVALUATION OF SURGICAL SCAR SITE LOCATION WITH CORRELATION TO SRS 20 AND OTHER BODY SHAPE INSTRUMENTS P Sell, A Quereshi, B Sell Dept Orthopaedics, University Hospitals of Leicester, Leicester, United Kingdom

16:40 48 RIGHT ADOLESCENT IDIOPATHIC THORACIC CURVE (LENKE 1A&B): DOES COST OF INSTRUMENTATION AND IMPLANT DENSITY IMPROVE RADIOGRAPHIC AND COSMETIC PARAMETERS? S Yang, S Jones-Quaidiao, M Eager, J Griffin, V Reddi, J Shilt, E Bersusky, H Defino, J Ouellet, V Arlet Orthopaedic Surgery, University of Virginia, Charlottesville, Virginia, USA

16:50 49 SELECTIVE THORACIC FUSION IN AIS BY USING PEDICLE SCREW CONSTRUCTS (PS): WHICH FACTORS INFLUENCE SPONTANEOUS LUMBAR CORRECTION? A Hamzaoglu, C Ozturk, A Alanay, M Tezer, S Karadereler, I Ornek Florence Nightingale Hospital, Istanbul Spine Center, Istanbul, Turkey

17:00 50 6 YEAR SINGLE CENTRE STUDY ON THE INCIDENCE OF INTRASPINAL ANOMALIES IN EARLY ONSET IDIOPATHIC SCOLIOSIS R Nadarajah, KS Lam Centre for Spinal Studies and Surgery, Guy’s Hospital, London, United Kingdom

17:10 51 LUMBAR FIXATION FOR THE SURGICAL MANAGEMENT IN FLACCID NEUROMUSCULAR SCOLIOSIS. A REVIEW OF 35 PATIENTS N Ventura, A Ey, I Vilalta Pediatric Orthopaedic Department, Hospital Sant Joan de Deu. University of Barcelona, Esplugues (Barcelona), Spain

17:20 52 SPINAL OSTEOTOMY IN ANKYLOSING SPONDYLITIS: RADIOLOGICAL RESULTS AND PSYCHOLOGICAL STATUS JK Lee, JH Kim, TH Kim, YS Park Orthopedic surgery, Guri Hospital, Hanyang University College of medicine, Guri, Kyunggi-do, Korea

17:30 EuroSpine GENERAL ASSEMBLY Plenary Hall - Members only

20:00 GALA EVENING Orangerie of Schönbrunn Castle Attire: formal

Friday, September 17, 2010

08:30 Prize Session The ‘Best of Show’ papers. The highest scoring abstract submissions Chair: C Bolger, Ireland - H Berk, Turkey Room: Plenary Hall

08:30 53 Domenech et al, WINNER OF FULL PAPER AWARD, is presented in the Award Session, Sept 16, 11.00 h

08:40 54 MINOCYCLINE TREATMENT INHIBITS LIPID PEROXIDATION, PRESERVES SPINAL CORD ULTRASTRUCTURE AND IMPROVES FUNCTIONAL OUTCOME AFTER TRAUMATIC SPINAL CORD INJURY IN THE RAT E Sonmez, C Yilmaz, S Kabatas, T Cansever, S Gulsen, H Caner, N Altinors Neurosurgery, Baskent University School of Medicine, Ankara, Turkey

08:50 55 PROGNOSTIC FACTORS OF PRIMARY SPINAL TUMORS A Lazary, PP Varga National Center for Spinal Disorders, Buda Health Center, Budapest, Hungary

09:00 56 LUMBAR DISC DEGENERATION AND GENETIC FACTORS ARE THE MAIN RISK FACTORS FOR LOW BACK PAIN: THE UK TWIN SPINE STUDY G Livshits, S Ernakov, M Popham, AJ MacGregor, PS Sambrook, TD Spector, FMK Williams Twin Research and Genetic Epidemiology, King's College London, London, United Kingdom
09:10  
57 CERVICAL SPONDYLODYTIC MYELOPATHY: CONSERVATIVE VS SURGICAL TREATMENT AFTER 100 MONTHS  
Z Kadanka, J Bednarik, O Novotny, I Urbanek, L Dusek  
Neurology, Masaryk University, Brno, Czech Republic

09:20  
58 POSTOPERATIVE LEFT SHOULDER ELEVATION (LSE) IN PATIENTS WITH NON-STRUCTURAL PROXIMAL THORACIC CURVES (PT): CAN IT BE PREVENTED IN PATIENTS WITH PREOPERATIVE RIGHT SHOULDER ELEVATION (RSE)?  
A Alanay, C Ozturk, M Enercan, I Onmek, M Tezer, A Hamzoglu  
Florence Nightingale Hospital, Istanbul Spine Center, Istanbul, Turkey

09:30  
59 TREATING COGNITIVE AND BEHAVIOURAL FACTORS LEADS TO LONG-TERM IMPROVEMENTS IN THE DISABILITY AND QUALITY OF LIFE ASSOCIATED WITH CHRONIC COMMON NECK PAIN.  
A RANDOMISED CONTROLLED CLINICAL TRIAL  
M Monticone, P Baiardi, S Ferrari, C Montironi, T Nava, C Vanti, C Foti  
Physical Medicine and Rehabilitation, Physical Medicine and Rehabilitation, Scientific Institute of Lissone (Milan), Salvatore Maugeri Foundation, IRCCS, Lissone (Milan), Italy

09:40  
60 SEVERITY OF VERTEBRAL FRACTURE AND RISK OF HIP FRACTURE: A NESTED CASE-CONTROL STUDY  
V Puisto, M Heliovaara, O Impivaara, T Jalanko, H Kroger, P Knekt, A Aromaa, H Rissanen, I Helenius  
Orthopaedic surgery, Helsinki University Central Hospital, Helsinki, Finland

09:50  
61 INCIDENCE AND PREVALENCE OF SURGERY AT SEGMENTS ADJACENT TO A PREVIOUS POSTERIOR LUMBAR ARTHRODESI S  
WR Sears, N Kazemi, IG Sergides, M Smith, B Osburg, GJ White  
Neurosurgery & Spinal Injuries, Royal North Shore and Dalcross Hospitals, Sydney, Australia

10:00-10:30  
BREAK

10:30  
Degenerative Spine: Assessment, interventions and outcomes in painful spinal disorders  
Chair: P Sell, UK - FC Öner, the Netherlands  
Room: Plenary Hall

10:30  
62 DECOMPRESSION OF LUMBAR JUXTAFACTOR CYSTS WITH FULL ENDOSCOPIC OPERATION WITH INTERLAMINAR AND TRANS-EXTRAFACIAL APPROACH– PROSPECTIVE RANDOMIZED CONTROLLED STUDY WITH 60 PATIENTS  
P Hahn, S Ruetten, H Merk, G Godolias  
Department of Spine Surgery and Pain Therapy, Center for Orthopaedics and Traumatology, St. Anna-Hospital Herne, Herne, Germany

10:40  
63 COMPLICATION RATE AFTER POSTERIOR MINIMALLY INVASIVE SPINAL (MIS) PROCEDURES: A EUROPEAN MULTICENTER PROSPECTIVE STUDY  
A Lubansu, P Mangione, K Granalathing, P Pereira, C Wimmer  
Neurosurgery, Erasme Hospital, Brussel, Belgium

10:50  
64 INTRAOPERATIVE NEUROMONITORING: LESSONS LEARNED FROM 32 CASE EVENTS IN 2095 SPINE SURGERIES  
M Eager, A Shimer, F Jaranini, FH Shen, V Arlet  
Orthopaedic Surgery, University of Virginia, Charlottesville, VA 22903, USA

11:00  
65 “ADJACENT” SEGMENT DEGENERATION OF L3/4 AFTER FUSION OF L5/S1. A MATCHED-COHORT ANALYSIS.  
A Tuschei, T vaniccek, P Becker, C Eder, M Ogon  
Spine Unit, Orthopaedic Hospital Vienna Speising, Wien, Austria

11:10  
66 OBESITY REDUCES FUSION RATES AND CLINICAL OUTCOMES IN NONSMOKER PATIENTS UNDERGOING INSTRUMENTED POSTEROLATERAL FUSIONS  
S Erkan, RT Ozalp, HS Yercan, G Okcu  
Orthopaedics and Traumatology, Celal Bayar University School of Medicine, Izmir, Turkey

11:20  
67 A COMMUNITY-BASED EPIDEMIOLOGICAL STUDY OF LUMBAR SPONDYLOLISTHESIS.  
Y Yamazaki, A Ono, T Numasawa, K Wada, S Toh  
Orthopaedic surgery, Hiroasaki university graduate school of medicine, Hiroasaki, Japan

11:30  
68 THE PREVALENCE AND RELATIONSHIP WITH LOW BACK PAIN OF SPONDYLOLISTHISIS IN KOREAN ADULTS  
SB Ko, SK Kim, SW Lee, CH Choi, MR Cho, SH Baek, BR Han, DW Cho  
Orthopaedic surgery, Daegu Catholic University Medical College, Daegu, Korea

11:40  
69 PAIN MANAGEMENT PROGRAMME IMPROVES THE CEREBRAL RESPONSE AS MEASURED BY FMRI TO PAINFUL STIMULI IN CHRONIC LOW BACK PAIN PATIENTS WITH ILLNESS BEHAVIOUR.  
GFG Findlay, SC Kelly, AM Severn, JJ Doanes, TJ Nurmikko  
Neurosurgery, Walton Centre for Neurology & Neurosurgery NHS Trust, Liverpool, United Kingdom

11:50  
70 OUR OWN FEAR-AVOIDANCE AND PAIN-IMPAI RMENT BELIEFS INFLUENCE OUR TREATMENT RECOMMENDATIONS, BUT CHANGING IS POSSIBLE. A RANDOMIZED CLINICAL TRIAL  
J Domenech, E Montesinos, V Gomez, J Buj, R Gomez, C Valverde  
Orthopedic Surgery, Hospital Arnau de Vilanova, Valencia, Spain

12:00-14:00  
EUROSPINE LUNCH SYMPOSIA, Friday September 17
12:00   EUROSPINE LUNCH SYMPOSIUM 4
Room: Strauss 1
Lumbar total disc replacement
Chair: F Kandziora, Frankfurt, Germany

12:20   TDR vs. stand alone ALIF (SynFix)
M Putzier, Charité, Berlin, Germany
12:30   TDR and facet joints
M Mayer, C Siepe, Orthozentrum Munich, Germany
12:40   TDR and adjacent segment degeneration
M Ogon, OSS, Vienna, Austria
12:50   TDR and and revision
JCh LeHuec, University of Bordeaux, France
13:00   TDR: the deals and return on investment
T. Bernhardsgrütter (Financial Analyst), CA Cheuvreux, Switzerland
13:10   Discussion
All

12:00   EUROSPINE LUNCH SYMPOSIUM 5
Room: Strauss 2
Relevance of vertebroplasty in the treatment of osteoporotic compression fractures
Chair: G Guizzardi, Italy

12:00   Introduction
G Guizzardi, Florence, Italy
12:10   Commentary on Vertebroplasty Studies
M Aebi, Bern, Switzerland
12:25   Evidence! Why?
R Gunzburg, Antwerp, Belgium
12:40   My experience on vertebral plasty in osteoporotic fractures
P Heini, Bern, Switzerland
13:00   Questions to the floor and faculty and clinical case presentations (Agree: green flag; Disagree: red flag)
JJ Verlan, Utrecht, The Nederlands; LA Galovich, Madrid, Spain; W Börm, Flensburg, Germany; P Heini, Bern, Switzerland
13:55   Conclusion and Consensus
G Guizzardi, M Aebi, R Gunzburg

1400   Adult Spine: Assessment, interventions and outcomes in tumour, fracture and infection
Chair: M Ogon, Austria - J-Ch Le Huec, France
Room: Plenary Hall

14:00   71 DOES THE TOMITA SCORE HAVE MORE RELIABILITY THAN THE TOKUHASHI PROGNOSIS SCORE?
A Hernández Fernández, J Caso Martínez, A Lerundt Artemendi, J Iza Beldanain, J Usabiaga Zarranz, F Pellisé Urquiza
Spine Unit. Department of Orthopaedic Surgery , Hospital Donostia, San Sebastián, Spain

14:10   72 IS IT NECESSARY TO PERFORM A PREOPERATIVE EMBOLISATION OF ALL VERTEBRAL METASTASIS?
N Robial, YP Charles, I Bogorin, J Godet, JP Steib
Service de Chirurgie du Rachis, Hopitaux Universitaires de Strasbourg, Strasbourg, France

14:20   73 THE SUBCOSTAL ARTERY PERFORATOR FLAP FOR DEFECT COVERAGE IN THE LUMBAR AREA; A CLINICAL EVALUATION
MA Constantinescu, D Eni, S Adberhalden, U Seidel, A Banic
Department of Plastic and Hand Sugery, University Hospital, Inselspital , Bern, Switzerland

14:30   74 EFFECT OF MECHANICAL ASPIRATION OF THE VERTEBRAL BODY ON PULMONARY ARTERIAL PRESSURE BEFORE CEMENT INJECTION IN VERTEBROPLASTY PROCEDURE
E Oklu, C Ozturk , S Karadereler, L Ulusoy, A Alanay, A Hamzaoglu
Florence Nightingale Hospitai, Istanbul Spine Center, Istanbul, Turkey

14:40   75 IMPACT OF THE MAGNETIC RESONANCE IMAGING IN DECISION MAKING OF THORACOLUMBAR TRAUMATIC FRACTURES
Spine Unit. Orthopaedic surgery department, Hospital de Getafe, Madrid, Spain

14:50   76 ULTRASTRUCTURAL DIFFERENCES IN INTERVERTEBRAL DISC CELL MORPHOLOGY FOLLOWING TRAUMATIC INJURY OR DISC HERNIATION IN THE CERVICAL SPINE
I Sitte, A Kathrein, F Pedross, K Pfaller, S Roberts
Department of Traumatology, Medical University of Innsbruck, Innsbruck, Austria

15:00   77 ANALYSIS OF POSITIVE PROPIONIBACTERIUM ACNES SAMPLES COMBINED WITH SPINAL INSTRUMENTATION
N Passuti, S Touchais, P Bemer, N Asseray
Orthop Surg, Nantes Hospital, Nantes, France

15:10   78 IMPORTANCE OF PREOPERATIVE BACTERIOLOGICAL SCREENING AND CUSTOMIZED ANTIBIOTIC PROPHYLAXIS IN SPINAL INSTRUMENTED SURGERY
S Núñez, F Pellisé, D Rodríguez, C Pigrau, J Bagó, E Cáceres, C Villanueva
Orthopaedic Surgery, Hospital Vall d'Hebrón, Barcelona, Spain
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| 15:20 | 79 WHO PROTOCOL - A STANDARD FOR TREATMENT OF SPINAL TUBERCULOSIS? A PROSPECTIVE STUDY  
P Bhushan, M Varghese, B Sankaran  
Orthopaedics, St. Stephen’s Hospital, Delhi, India |
| 15:30-16:00 | BREAK |
| 16:00 | **The cervical spine, assessment, surgical treatment and complications**  
Chair: T Blattert, Germany - A Chavanne, Austria  
Room: Plenary Hall |
| 16:00 | 80 IS INCLUSION OF THE OCCIPUT NECESSARY IN CASES OF C1-C2 INSTABILITIES FOR RHEUMATOID ARTHRITIS?  
S Werle, A Ezzati, H El saghir, H Böhm  
Klinik für Wirbelsäulen chirurgie, Zentralklinik Bad Berka, Bad Berka, Germany |
| 16:10 | 81 SURGICAL TREATMENT OF CERVICAL SPONDYLODISCITIS: A REVIEW OF 30 PATIENTS  
M Shousha, H Boehm  
Spine and Orthopedic surgery, Zentralklinik Bad Berka, Bad Berka, Germany |
| 16:20 | 82 PERSISTENT MIDLINE CERVICAL TENDERNESS AFTER NORMAL CT IN ALERT, NEUROLOGICALLY INTACT TRAUMA PATIENTS – IS MRI REQUIRED?  
HM Ackland, PA Cameron, R Wolfe, DK Varma, GM Maham, GJ Fitt, SM Liew, JV Rosenfeld, DJ Cooper, OD Williamson  
National Trauma Research Institute, The Alfred Hospital, Melbourne, Australia |
| 16:30 | 83 FULL-ENDOSCOPIC DORSAL DECOMPRESSION OF CERVICAL DISC HERNIATIONS – PROSPECTIVE COMPARISON TO VENTRAL DECOMPRESSION AND FUSION  
M Komp, S Ruetten, H Merk, G Godillas  
Department of Spine Surgery and Pain Therapy, Center for Orthopaedics and Traumatology, St. Anna-Hospital Herne, Germany, Herne, Germany |
| 16:40 | 84 ACCURACY AND COMPLICATIONS ASSOCIATED WITH POSTERIOR C1 SCREW FIXATION TECHNIQUES: A RADIOGRAPHIC AND CLINICAL ASSESSMENT  
R Bransford, M Freeborn, A Russo, Q Nguyen, M Lee, J Chapman, C Bellarba  
Department of Orthopaedics and Sports Medicine, University of Washington, Seattle, USA |
| 16:50 | 85 CERVICAL PEDICLE SCREW PLACEMENT USING O-ARM BASED NAVIGATION SYSTEM  
T Kanemura, Y Ishikawa, G Yoshida, Y Matsuyma, S Imagama, Z Itoh, A Muramoto, R Tauchi, S Oho  
Spine Center, Konan Kosei Hospital, Konan, Japan |
| 17:00 | 86 COMPARISON OF CLINICAL EFFECTIVENESS OF CERVICAL TRANSFORAMINAL STEROID INJECTION ACCORDING TO DIFFERENT RADIOLOGICAL GUIDANCES (C-ARM FLUOROSCOPY VS. COMPUTED TOMOGRAPHY FLUOROSCOPY)  
JH Lee, SH Lee, SH Song  
Physical medicine & rehabilitation, Woordul spine hospital, Seoul, Korea |
| 17:10 | 87 PREVENTION OF C5 PALSY AFTER OPEN DOOR LAMINOPLASTY BY MICROCERVICAL FORAMINOTOMY – A PROSPECTIVE STUDY  
K Katsumi, A Yamazaki, K Watanabe, M Ohashi  
Orthopaedics surgery, Nigata Central Hospital, Nigata, Japan |
| 17:20 | 88 C5 PALSY FOLLOWING ANTERIOR DECOMPRESSION AND SPINAL FUSION FOR CERVICAL DEGENERATIVE DISEASES  
M Hashimoto, M Mochizuki, A Aiba, A Okawa, K Hayashi, T Sakuma, H Takahashi, M Koda, K Takahashi, M Yamazaki  
Orthopedic Surgery, Chiba University, Chiba, Japan |
| 17:30 | **CLOSING REMARKS – END**  
Room: Plenary Hall |
|       | C Bolger, Ireland, EuroSpine President 2011  
M Brayda-Bruno, Italy, C Lamartina, Local Hosts EuroSpine 2011 Milano |

*under consideration for the EuroSpine 2010 Best Podium Award*