

ANNUAL MEETING OF THE SPINE SOCIETY OF EUROPE

EuroSpine 2006 - Istanbul, Turkey
October 25 - 28



Final Program

Tuesday, October 24, 2006

15:00 - 2000 REGISTRATION AND POSTER MOUNTING

Wednesday, October 25, 2006

0830-0900 OPENING CEREMONY

0900 Cervical Spine I:
Chair: P. Suichomel, M. Hanci

- 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 Qerama, 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*
- 0949-1010 Discussion
- 1010-10:40 **BREAK**

1040	Thoracolumbar I Chair: R. Wittenberg, R. Lukas
-------------	---

- 1040-1046 **8** THE ADJUNCTIVE EFFECT OF A BINDING PEPTIDE ON BONE MORPHOGENIC PROTEIN IN A RAT SPINAL FUSION MODEL
A Alanay, C Chen, S Lee, E Brochman, S Murray, A Napoli, P Tsou, G Randolph, J Wang
UCLA Comprehensive Spine Center, USA
- 1047-1053 **9** IS CORALLINE HYDROXYAPATITE A RELIABLE ALTERNATIVE OF AUTOLOGOUS ILIAC BONE GRAFT IN POSTERIOR INSTRUMENTED FUSION FOR DEGENERATIVE LUMBAR SPINE DISEASE?
P Korovessis, G Koureas, G Petsinis, TH Repantis
Orthopaedic Department, General Hospital 'Agios Andreas' Patras, Greece
- 1054-1100 **10** BONE DEMINERALIZED MATRIX ASSOCIATED WITH HYDROXYAPATITE AS BONE GRAFT EXPANSOR IN LUMBAR SPINE FUSION
A San Martin, L Beaulieu, M Molina, S Vial
Instituto de Enfermedades de la Columna Vertebral, Santiago, Chile
- 1101-1107 **11** COMPARISON OF OUTCOME IN PLIF SURGERY IN RELATION TO PATHOLOGY
RD Pollock, M Krishna, CK Bhatia
Spinal Unit, University Hospital of North Tees, Stockton on Tees, UK
- 1108-1114 **12** THE FATE OF GRAFTED BONE AFTER POSTEROLATERAL FUSION AND POSTERIOR LUMBAR INTERBODY FUSION IN THE LUMBAR SPINE
KY Ha, JS Lee, KW Kim
The Catholic University of Korea, South Korea
- 1115-1121 **13** THE EFFECT OF SPINAL AND GENERAL ANESTHESIA ON HEMODYNAMICS AND STRESS RESPONSE IN LUMBAR SPINAL SURGERY
C Yildirim, Y Kecik, D Yorukoglu, A Attar
Ankara Univ Dept of Anaesthesiology and Reanimation, Dept of Neurosurgery Turkey
- 1122-1128 **14** CIRCUMFERENTIAL FUSION IMPROVES LONG-TERM OUTCOME IN COMPARISON TO INSTRUMENTED POSTEROLATERAL FUSION.
A RANDOMIZED CLINICAL STUDY WITH 5-9 YEARS FOLLOW-UP
TS Videbaek, FB Christensen, R Soegaard, ES Hansen, K Høy, P Helmig, B Niedermann, SP Eiskjær, CE Bünger
Spine Unit, Dept. of Orthopaedics, University Hospital of Aarhus, Denmark
- 1129-1135 **15** LONG TERM FOLLOW-UP AFTER PLIF SURGERY
M Krishna, CK Bhatia, RD Pollock
Spinal Unit, University Hospital of North Tees, Stockton on Tees, UK
- 1136-1200 Discussion

1200-1400 LUNCH-WORKSHOPS

SSE WORKSHOP (Room Rumeli 1)

SPINE SURGERY IN THE FUTURE: AN INDEPENDENT SPECIALTY?

Organising Members: L Papavero, J Herdmann

Chair: P Sell

- 1230 THE FRENCH PERSPECTIVE
D Chopin, Berck sur Mer, France
- 1250 THE BRITISH ISLES PERSPECTIVE: THIS WOULD BE THE PERFECT SPINE TRAINING PROGRAMME
A Stirling, Birmingham, UK
- 1310 THE VIEWPOINT OF A TRAINEE
S Cagli, Izmir, Turkey
- 1340 THE VIEWPOINT OF AN INSTRUCTOR
M Winking, Isnabrück, Germany

SSE WORKSHOP (Room Sultan)
SPINE TANGO WORKSHOP

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

14:00	<p>Deformity I Chair: A. Kaelin, M. Yazici</p>
1400-1406	<p>16 GAMMA SUBUNIT EXPRESSION OF JUNCTIONAL ACETYLCHOLINE RECEPTOR OF PARASPINAL MUSCLES IN SCOLIOSIS ASSOCIATED WITH SYRINGOMYELIA <i>Z Zhu</i> <i>Drum Tower Hospital affiliated to Medical School of Nanjing University, ROC</i></p>
1407-1413	<p>17 CELL VIABILITY BETWEEN ANTERIOR AND POSTERIOR SPINAL GROWTH PLATE IN ADOLESCENT IDIOPATHIC SCOLIOSIS <i>Y Yang</i> <i>Drum Tower Hospital affiliated to Medical School of Nanjing University, ROC</i></p>
1414-1420	<p>18 THE EVALUATION OF SHOULDER BALANCE IN HEALTHY ADOLESCENT POPULATION AND ITS CORRELATION WITH RADIOLOGICAL MEASURES <i>I Akel, M Pekmezci, M Yazici, O Kocak, I Erdoan, O Derman, M Hayran</i> <i>Hacettepe University Orthopaedics and Traumatology Dep., Turkey</i></p>
1421-1427	<p>19 VARIATIONS OF THE POSITION OF THE CEREBELLAR TONSIL IN ADOLESCENT IDIOPATHIC SCOLIOSIS WITH SEVERE CURVES: A MRI STUDY <i>S Xu</i> <i>Drum Tower Hospital affiliated to Medical School of Nanjing University, ROC</i></p>
1428-1434	<p>20 CORRELATIVE EVOLUTION OF ANTERIOR CHEST WALL BLOOD SUPPLY AND RIGHT-CONVEX THORACIC IDIOPATHIC MILD SCOLIOSIS IN FEMALE ADOLESCENTS BEING TREATED WITH THORACOLUMBAR ORTHOSIS <i>P Korovessis, Th Repantis, P Iliopoulos</i> <i>Orthopaedic Department, General Hospital "Agios Andreas", Patras, Greece</i></p>
1435-1441	<p>21 DOES CARDIOTHORACIC SURGERY DURING INFANCY INCREASE THE RISK OF SPINAL DEFORMITY? <i>TL Schulte⁽¹⁾, V Oberhoff⁽¹⁾, V Bullmann⁽¹⁾, T Lerner⁽¹⁾, L Hackenberg⁽¹⁾, A Hoffmeier⁽²⁾, U Liljenqvist⁽¹⁾</i> <i>(1) Department of Orthopaedics, University Hospital Münster, Germany; (2) Department of Thoracic and Cardiovascular Surgery, University Hospital Münster, Germany</i></p>

- 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 ARTHRODESIS IN YOUNG CHILDREN
HEH Pruijs, *S van Vugth*, *RJB Sakkers*, *RM Castelein*
Dept Pediatric Orthopaedics, WKZ-UMC Utrecht, NL
- 1503-1530 Discussion
- 1530-1600 BREAK**

1600	Thoracolumbar 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 Pellisé*, *J Bagó*, *C Villanueva*
Hospital Xeral Lugo, Unitat Cirurgia 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 Hasseriust*, *I Redlund-Johnell*, *A Ohlin*, *M Karlsson*
The Department of Orthopaedics, Department of Clinical Science, Malmö University Hospital and Department of Diagnostic Radiology, Department of Clinical Science, University hospital Lund, Sweden
- 1614-1620 **27** SHORT-SEGMENT VERSUS LONG-SEGMENT POSTER; OR 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 Uruc*, *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 Stadhouders*, *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 MONOSEGMENTAL FUSION VS. TOTAL DISC ARTHROPLASTY - A „SPINE TANGO“ AIDED PROSPECTIVE MATCHED COHORT STUDY
A Chavanne, A Tuschel, 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, W 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 | Thoracolumbar III
Chair: F. Pellisé, R. Gunzburg |
|-------------|---|
- 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

- 1129-1135 **49** 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

1136-1200 Discussion

1200-1400 LUNCH-/WORKSHOPS

SSE WORKSHOP (Room Rumeli 1)

INJURY AT WORK - CAN GUIDELINES PREVENT IT?

Organising Members: D. Wardlaw, J. Herdmann

Chair: C. Greenough

- 1230 INTRODUCTION - THE EUROPEAN GUIDELINES
D Wardlaw, Aberdeen, UK
- 1235 SPINAL ERGONOMICS AND TRAINING IN THE WORKPLACE
H Eriksen, Bergen, Norway
- 1300 THE ROLE OF FITNESS TRAINING AND REHABILITATION
T Bendix, Odense, Denmark
- 1330 PSYCHO-SOCIAL ASPECTS OF PREVENTION OF BACK PAIN
A Lahad, Jerusalem, Israel

1400	SYMPOSIUM - HEALTH CARE TECHNOLOGY ASSESSMENT
-------------	--

Chair: N. Boos

- | | |
|------|---|
| 1400 | INTRODUCTION
<i>M Aebi, Bern, Switzerland</i> |
| 1405 | HEALTH CARE TECHNOLOGY ASSESSMENT - BASIC PRINCIPLES
<i>N Boos, Zürich, Switzerland</i> |
| 1430 | ECONOMIC EVALUATIONS - PRINCIPLES AND PRACTICE
<i>E McIntosh, Oxford, UK</i> |
| 1500 | Guest Lecture
HEALTH CARE TECHNOLOGY ASSESSMENT - IMPLICATIONS FOR FUTURE SPINAL HEALTH CARE
<i>JN Herndon, Boston, USA</i> |
| 1550 | SUMMARY AND CONCLUSION
<i>N Boos, Zürich, Switzerland</i> |
| 1600 | End of Symposium |

Friday, October 27, 2006

0830	Thoracolumbar IV Chair: C. Greenough, F.B. Christensen
-------------	--

- 0830-0836 **50** WHAT COUNTS AS A „GOOD“ OUTCOME IN SPINAL SURGERY?
D Grob, AF Mannion, V Bartanusz, J Dvorak, D Jeszenszky, F Kleinstueck, F Lattig, F Porchet
Schulthess Klinik, Zürich, Switzerland
- 0837-0843 **51** SHIFTING GOAL-POSTS! CHANGES IN SYMPTOMS LEADING TO CHANGES IN OPERATIVE PLAN: A CONSEQUENCE OF LONG WAITING LISTS FOR AN OPERATION ON THE NHS
JS Mehta, H Sharma, A Jones, J Howes, PR Davies, S Ahuja
Cardiff Spinal Unit, University Hospital of Wales, Heath Park, Cardiff, UK
- 0844-0850 **52** CORRELATION OF THE SEVERITY OF LUMBAR DISC DEGENERATION, USING A VALIDATED CLASSIFICATION, WITH PROVOCATIVE DISCOGRAPHY
AS Anbar, KS Lam
Spinal Unit, Guy's Hospital, London, UK
- 0851-0857 **53** A PROSPECTIVE RANDOMIZED COMPARISON OF CLINICAL AND RADIOLOGICAL OUTCOME AFTER LUMBAR EQUISTRECTOMY VERSUS MICRODISCECTOMY
C Thomé, MB Barth, M Diepers, P Schmiedek
Depts. of Neurosurgery and Neuroradiology, University Hospital Mannheim, University of Heidelberg, Mannheim, Germany
- 0858-0904 **54** DISC HEIGHT REDUCTION IN ADJACENT SEGMENTS AND CLINICAL OUTCOME 10 YEARS AFTER LUMBAR 360°-FUSION
TL Schulte, F Leistra, V Bullmann, T Lerner, U Liljenqvist, L Hackenberg
Department of Orthopaedics, University Hospital Münster, Germany
- 0905-0911 **55** 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.
T Andersen, TS Videbæk, C Bünger, FB Christensen
Spine Unit, Orthopaedic Department E, Aarhus University Hospital, Denmark
- 0912-0918 **56** A COST UTILITY ANALYSIS OF A RANDOMISED CONTROL TRIAL OF FEMORAL RING ALLOGRAFT VERSUS TITANIUM CAGE IN CIRCUMFERENTIAL FUSION OF THE LUMBAR SPINE
N Steele, BJ Freeman, T Sach, J Hegarty
The Centre for Spinal Surgery and Spinal Studies, University Hospital, Queens Medical Centre, Nottingham, UK.
- 0919-0925 **57** VASCULAR COMPLICATIONS OF ANTERIOR SPINAL ACCESS
G Fantini, P Ioannis, G Federico, C Frank
Hospital for Special Surgery, New York, USA
- 0926-1010 **DEBATE: ASSESSMENT OF RESULTS – POSSIBILITIES AND CHALLENGES**

1010-1040 BREAK

1040	Cervical Spine II Chair: D. Grob, P. Barsa
-------------	--

- 1040-1046 **58** LONGITUDINAL MR STUDY OF AGE-RELATED CHANGES IN CERVICAL SPINE. MINIMUM TEN-YEAR FOLLOW-UP OF ORIGINALLY ASYMPTOMATIC SUBJECT
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

- 1047-1053 **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 Etfal State Hospital, Istanbul, Turkey
- 1054-1100 **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
- 1101-1107 **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
- 1108-1114 **62** will not be presented, short-notice cancellation, Oct 19 - THE COMPARISON OF SINGLE OR COMBINED OPERATIVE APPROACH FOR THE CERVICAL SPONDYLOTIC MYELOPATHY WITH MULTILEVEL ANTERIOR/POSTERIOR COMPRESSION AND HUGE DISC PROTRUSION OR OSTEOFYTE 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
- 1115-1121 **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
- 1122-1128 **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
- 1129-1135 **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
- 1136-1200 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 Verschueren, 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 ASSESMENT 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 Würtz, 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 RJA 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** ENDOGENOUS IL-1 β 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; Haydarpasa Numune Hopspital, 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 (M. Is, presenter)
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 SPONDYLOTIC 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 Saito, 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 Dalgic, P Erdinçler, I Çepni, M Selçuki, E Sanli, 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 Piasecki 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
 Florance 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 Akcali, U Serarslan, E Alici
 Dokuz Eylul University Department Of Orthopedics and Traumatology, Turkey*
- SP 27** POSTOPERATIVE CHANGES OF PELVIC PARAMETERS & SAGITTAL ALIGNMENT IN ISTHMIC 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 Günerbüyük, F Dikici, U Talu, C Car, A Hamzaoglu, Y Sonuk, U Domanic
 Istanbul Istanbul Medical Faculty. Deüt 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 Pelosa, 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 Schmoelz, 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

- 1600-1605 Report on SSE Fellowship
T Pigott, Chair of SSE Educational Committee
- 1605-1635 SSE MEDAL LECTURE
Prof. Dr. Ilber Ortayli, historian and the director of Topkapi Museum, Istanbul, Turkey
- 1635-1645 Winner of 2006 SSE full paper Award
MODIC CHANGES AND THEIR ASSOCIATIONS WITH CLINICAL FINDINGS
P Kjaer, L Korsholm**, T Bendix*, J Solgaard Sorensen*, C Leboeuf-Yde**
**The Back Research Center, Part of Clinical Locomotion Science, University of Southern Denmark; **Department of Statistics, University of Southern Denmark*
- 1645-1655 Winner of Grammer-European Spine Journal 2005/2006 Award
AN INVESTIGATION INTO THE USE OF MR IMAGING TO DETERMINE THE FUNCTIONAL CROSS SECTIONAL AREA OF LUMBAR PARASPINAL MUSCLES
CA Ranson, AF Burnett, R Kerlake, ME Batt, PB O'Sullivan
Eur Spine J. 2006 Jun;15(6):764-73
- 1655-1700 Announcement/Presentation of Poster Prize
- 1700-1730 SSE PRESIDENTIAL LECTURE
HM Mayer, Munich, Germany
- 1730 SSE GENERAL ASSEMBLY
Main Hall - members only
- 2030 GALA EVENING**

Saturday, October 28, 2006**0830 Deformity II**
Chair: H. Berk, U. Liljenqvist

- 0830-0836 **66** POSTERIOR SPINAL FUSION FOR THORACIC ADOLESCENT IDIOPATHIC SCOLIOSIS CURVES GREATER THAN 80°: PEDICLE SCREWS VS HOOKS
P Parisini, G Bakaloudis, M Di Silvestre, T Greggi, S Giacomini, F Lolli
Istituto Ortopedico Rizzoli; Spine Surgery Department; Bologna, Italy
- 0837-0843 **67** SURGICAL TREATMENT OF ADULT LUMBAR SCOLIOSIS - IS ANTERIOR APICAL RELEASE AND FUSION NECESSARY?
YB Kim, LG Lenke, YJ Kim, Y Woo, KH Bridwell, G Stobbs
Washington University Medical Center
- 0844-0850 **68** 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
U Aydinli, R Vural, M Mutlu, C Ozturk
Uludag University Medical School, Dept. of Orthopedic Surg., Bursa; Turkish Armed Forces Rehabilitation and Care Center, Ankara, Turkey
- 0851-0857 **69** OPERATIVE TREATMENT OF ADOLESCENT IDIOPATHIC SCOLIOSIS WITH POSTERIOR PEDICLE SCREW-ONLY CONSTRUCTS. MINIMUM 3-YEAR FOLLOW-UP OF 103 CASES
RA Lehman, Jr., LG Lenke, KA Keeler, YJ Kim, JM Buchowski, G Cheh, CA Kuhns, KH Bridwell
Washington University Medical Center, USA

- 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 Beyazt Teaching and Research Hospital, Ankara, Turkey
- 0905-0911 **71** FACTORS LEADING TO ADJACENT DISC DEGENERATION AFTER THORACOLUMBAR ANTERIOR DERROTATION SPONDYLODESIS.
P Metz-Stavenhagen, L Ferraris, A Hempfing, 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 Steib, 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 Lolli, 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^(1,3), M Melloh^(2,3), L Staub⁽²⁾, FG Smiszek⁽¹⁾, F Knoefler⁽³⁾, HR Merk⁽¹⁾
(1) Department of Orthopaedic Surgery, University of Greifswald, German; (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 Collgege Calicut, India

- 1115-1121 **81** CT GUIDED RADIOFREQUENCY ABLATION IN 24 PATIENTS WITH SPINAL OSTEOID OSTEOMAS
*PDS Dijkstra, W Obermann, E Vanderlinden, AHM Taminiau
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
*U 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**