



EUROSPINE 2009

October 21-24, Warsaw, Poland

Scientific Program - oral presentations

Tuesday, October 20, 2009

1500 - 2000 Registration

Wednesday, October 21, 2009

0830-0850 WELCOME ADDRESS

F Balagué

0850 Cervical Spine: The surgical treatment of painful disorders

Chair: E Munting, C Bolger

- 0850 **1** CLINICAL OUTCOMES AFTER CERVICAL DISC ARTHROPLASTY FOR AXIAL NECK PAIN VS. RADICULOPATHY/MYELOPATHY
MF Gornet, BA Talyor, JH Peloza, R Bertagnoli
Spine Research Center, The Orthopedic Center of St Louis, St. Louis, USA
- 0900 **2** RADIOGRAPHIC, LONGITUDINAL FOLLOW-UP AFTER TREATMENT OF CERVICAL SINGLE-LEVEL DISC DISEASE WITH THE BRYAN CERVICAL DISC PROSTHESIS
J Vander Sloten, P Demaerel, P Suetens, J van Loon, F Van Calenbergh, J Goffin
Division of biomechanics and engineering design, KULeuven, Heverlee, Belgium
- 0910 **3** 5-YEAR RESULTS OF THE PROSPECTIVE, RANDOMIZED, MULTICENTER, FDA INVESTIGATIONAL DEVICE EXEMPTION (IDE) PRODISC(R)-C TDR CLINICAL TRIAL
B Darden II, M Janssen, R Delamarter, J Goldstein, J Zigler, B Tay, D Murrey
Spine, OrthoCarolina Spine Center, Charlotte, USA
- 0920 **4** SwissSPINE: GOVERNMENTALLY MANDATED HTA-REGISTRY FOR TOTAL DISC ARTHROPLASTY; METHODOLOGY AND RESULTS OF 825 CERVICAL DISC PROSTHESES IN 719 PATIENTS
E Aghayev, T Zweig, E Schluessmann, P Moulin, C Röder, the SWISSspine registry group
IEFO, Institute for Evaluative Research in Orthopaedic Surgery, Bern, Switzerland
- 0930 ***5** COMPARISON OF 3 METHODS OF ADCF USING RIGID PLATES, DYNAMIC COMPRESSION PLATES AND CAGES
KS Suk, KT Kim, JH Lee, SH Lee, JH Uh, JS Kim
Department of Orthopaedic Surgery, Kyung Hee University College of Medicine, Seoul, Korea
- 0940 **6** CORRELATION OF SEGMENTAL SAGITTAL ALIGNMENT AND CLINICAL OUTCOMES: A PROSPECTIVE RANDOMIZED CLINICAL STUDY
S Burneikiene, JM Babuska, EL Nelson, A Ashton, E Busch, AT Villavicencio
Neurosurgery, Boulder Neurosurgical Associates, Boulder, USA
- 0950 **7** TWO- LEVEL CONTIGUOUS CERVICAL DISC DISEASE TREATED WITH PEEK CAGES PACKED WITH DEMINERALIZED BONE MATRIX: RESULTS OF THREE YEAR FOLLOW-UP
K Topuz, M Kutlay, A Colak, S Kaya, M Velioglu, MN Demircan
Neurosurgery Dept., GATA Haydarpasa Trainig Hospital, Istanbul, Turkey
- 10:00-10:30 **BREAK**

1030

Lumbar Spine: Surgical and Non Surgical treatment of painful disorders

Chair: C Cedraschi, C Greenough

- 1030 **8** DAILY FUNCTIONING AND SELF-MANAGEMENT IN PATIENTS WITH CHRONIC NON-SPECIFIC LOW BACK PAIN PARTICIPATING IN AN INTENSIVE COGNITIVE BEHAVIORAL PAIN MANAGEMENT PROGRAM: ONE YEAR FOLLOW UP RESULTS OF A COHORT STUDY
M de Kleuver, ML van Hooff, JD van der Merwe, J O'Dowd, PW Pavlov, M Spruit, J van Limbeek
Research Development and Education, Sint Maartenskliniek, Nijmegen, Netherlands
- 1040 **9** A PROSPECTIVE STUDY OF COGNITIVE BEHAVIOURAL FACTORS AS PREDICTORS OF PAIN, DISABILITY AND QUALITY OF LIFE ONE YEAR AFTER LUMBAR DISC SURGERY
AC Johansson, SJ Linton, A Rosenblad, L Bergkvist, O Nilsson
Västerås Central Hospital, Centre for Clinical Research, Västerås, Sweden
- 1050 **10** EXTREME LATERAL INTERBODY FUSION (XLIF) FOR THE TREATMENT OF DEGENERATIVE SPONDYLOLISTHESIS
LHM Pimenta, ER Coutinho, LAB Oliveira
Neurosurgery, Instituto de Patologia de Coluna, São Paulo, Brazil
- 1100 **11** A RCT BETWEEN TRANSFORAMINAL LUMBAR INTERBODY FUSION (TLIF) AND POSTEROLATERAL FUSION IN DDD AND POSTDISCECTOMY SYNDROME
P Neumann, K Jalalpour, C Johansson, R Hedlund
Dep of Orthopedics, Institute of Clinical Sciences, Gothenburg, Sweden
- 1110 **12** ANTERIOR VERSUS ANTERIOR-POSTERIOR SINGLE LEVEL LUMBAR FUSION - A PROSPECTIVE RANDOMIZED STUDY.
E Hoff, P Strube, C Gross, C Perka, M Putzier
Clinic for Orthopaedics, Center for Musculoskeletal Surgery, Charité - University Medicine Berlin, Berlin, Germany
- 1120 ***13** THE EFFECT OF DC-STIMULATION ON LUMBAR SPINAL FUSION IN OLDER PATIENTS. A RANDOMIZED CLINICAL MULTI-CENTER TRIAL.
T Andersen, FB Christensen, C Ernst, S Fruensgaard, J Østergaard, S Rasmussen, B Niedermann, K Høy, P Helmig, C Bünger
Orthopaedic Research Lab., Aarhus University Hospital, Aarhus C, Denmark
- 1130 **14** PLATELET RICH PLASMA IN MONO-SEGMENTAL POSTERIOR LUMBAR INTERBODY FUSION: A PROSPECTIVE RANDOMIZED CONTROLLED STUDY
J Sys, T Van Der Zijden, J Weyler, P Parizel
Orthopaedic Surgery, Sint Blasius Hospital Dendermonde, Dendermonde, Belgium
- 1140 ***15** EARLY PHYSIOTHERAPEUTIC REHABILITATION FOLLOWING LUMBAR SPINAL FUSION SURGERY
AD Abbott, R Hedlund, R Tyni-Lenné
Department of Clinical Science, Intervention and Technology, Karolinska Institute, Stockholm, Sweden
- 1150 **16** COMPARISON OF PHYSICIAN BASED VS PATIENT BASED OUTCOME AFTER POSTERIOR LUMBAR FUSION
T Zweig, E Aghayev, M Melloh, R Sobottke, M Aebi, C Roeder
Institute for evaluative research in orthopaedics, University of Berne, Bern, Switzerland

12:00-14:00 LUNCH/WORKSHOP WEDNESDAY, OCTOBER 21**EUROSPINE WORKSHOP 1**

Warsaw Hall

Imaging of the Spine

Chair: A Zerbi, M Aebi

1200	Imaging of the degenerative diseases of the spine	Francis Smith, Aberdeen, UK
1230	Imaging of the tumours of the spine	Juerg Hodler
1300	Imaging of the traumatic spine	Paul Parizel, Bechem, B
	Questions and comments	Alessandro Ducati, Ancona, I

14:00 Lumbar Spine: Treatment of Radicular Pain. Fusion Methods

Chair: A Mannion, F Pellisé

- 1400 **17** A PROSPECTIVE RANDOMISED STUDY OF CHEMONUCLEOLYSIS VS. SURGICAL ENUCLEATION OF SOFT DISC HERNIATION: 10-13 YEAR FOLLOW- UP
M Vadhva, D Wardlaw, A Sabboubeh
Department of Orthopedics, NHS Grampian, Woodend Hospital, Aberdeen, United Kingdom
- 1410 **18** THE RECURRENCE RATE AND CLINICAL FINDINGS OF CO2 LASER-ASSISTED OPEN MICRODISCECTOMY OF 2 YEARS FOLLOW UP
AH Kwon, JW Song, MC Lee, HW Kim, YS Kim, SK Kim, IH Kim
neurosurgery, Saewoori Spine hospital, Gwangju, Korea
- 1420 ***19** TUBULAR DISKECTOMY VERSUS CONVENTIONAL MICRODISKECTOMY FOR THE TREATMENT OF LUMBAR DISK HERNIATION; A DOUBLED-BLIND RANDOMIZED CONTROLLED TRIAL.
MP Arts, R Brand, ME van den Akker, BW Koes, RHMA Bartels, WC Peul
Neurosurgery, Medical Center Haaglanden, The Hague, Netherlands
- 1430 ***20** PLASMA DISC DECOMPRESSION COMPARED TO FLUOROSCOPY-GUIDED TRANSFORMINAL EPI-DURAL STEROID INJECTIONS FOR SYMPTOMATIC CONTAINED LUMBAR DISC HERNIATION: 2-YEAR RESULTS OF A PROSPECTIVE, RANDOMIZED, CONTROLLED TRIAL
PC Gerszten, MW Smuck, JP Rathmell, TT Simopolous, SM Bhagia, CK Mocek, SPINE Investigators Study Group
Dept. of Neurological Surgery, University of Pittsburgh Medical Center, Pittsburgh, USA
- 1440 ***21** HIGHER RISK OF DURAL TEARS AND RECURRENT HERNIATION WITH LUMBAR MICRO-ENDOSCOPIC DISCECTOMY
M teli, A Lovi, M Brayda-Bruno, A Zagra, A Corriero, F Giudici, L Minoia
Spinal surgery, Galeazzi orthopaedic institute, Milano, Italy
- 1450 **22** DURAL LESIONS IN LUMBAR DISC HERNIATION SURGERY - INCIDENCE, RISK FACTORS AND EFFECT ON OUTCOME
B Stömyvist, F Strömqvist, B Jönsson
Department of Orthopedics, Lund University Hospital, LUND, Sweden
- 1500 **23** EFFECTS OF THE PERINEURAL INTRAOPERATIVE CORTICOSTEROID INJECTION FOR POSTOPERATIVE RADICULALGIA IN LUMBAR SPINE SURGERY: A PROSPECTIVE, RANDOMIZED, DOUBLE-BLIND STUDY
J Pizones Arce, A Gomez Rice, L Zuñiga Gomez, P Alvarez Gonzalez, F Sanchez-Mariscal Diaz, E Izquierdo Nuñez
Spine Unit, Hospital Universitario de Getafe, Getafe, Spain
- 1510 **24** PROSPECTIVE EVALUATION OF A CONFORMABLE INTERBODY GRAFT CONTAINER
MH Krag, MJ Perez-Cruet, JC Dick
Dept. of Ortho & Rehab, University of Vermont, Burlington, USA
- 1520 **25** POSTERIOR LUMBAR INTERBODY FUSION (PLIF): STAND ALONE TM-500 CAGE INSERTION COMPARED TO TM-500 WITH ADDITIONAL SCREW FIXATION
E van de Kelft
Neurosurgery, AZ Nikolas, Sint-Niklaas, Belgium

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

16:00 Thoraco-Lumbar Spine: Fractures, Tumours and serious disorders

Chair: U Liljenqvist, R Lukas

- 1600 **26** PROPOSAL OF A NEW RISK SCORING SYSTEM FOR OSTEOPOROTIC VERTEBRAL FRACTURES: STUDY ON A POPULATION OF 450 PATIENTS
E Pola, L Proietti, LA Nasto, CA Logroscino
Department of Orthopaedics and Traumatology, Università Cattolica del Sacro Cuore - School of Medicine, Rome, Italy
- 1610 **27** A RANDOMIZED TRIAL OF BALLOON KYPHOPLASTY (BKP) AND NONSURGICAL CARE (NSC) FOR PATIENTS WITH ACUTE VERTEBRAL COMPRESSION FRACTURES (VCF): TWO YEAR RESULTS
JK Van Meirhaeghe, D Wardlaw, L Bastian, S Boonen
Dienst Orthopedie en Traumatologie, AZ Sint-Jan Brugge-Oostende, Brugge, Belgium
- 1620 **28** INSERTING PEDICLE SCREWS AT THE FRACTURE LEVEL PREVENTS FAILURE OF SHORT CONSTRUCTS IN THORACOLUMBAR (T11-L2) BURST FRACTURES
F Pellisé, LI Batalla, A Hernández, M Reyner, C Amat, J Bagó, C Villanueva
Spine Unit, Hospital Vall d'Hebron, Barcelona, Spain
- 1630 **29** MULTISEGMENTAL PRIMARY TUMORS AND SOLITARY METASTASIS OF THE THORACOLUMBAR SPINE: RESULTS BY MANAGEMENT WITH MULTILEVEL EN BLOC SPONDYLECTOMY AND RECONSTRUCTION USING A CARBON COMPOSITE VERTEBRAL BODY REPLACEMENT SYSTEM
AC Disch, KD Schaser, F Feraboli, C Reinhold, I Melcher, W Schmoelz, A Luzzati
Center for Musculoskeletal Surgery, Charité - University Medicine Berlin, Berlin, Germany
- 1640 **30** SURGICAL STABILISATION OF SPINAL METASTASES AND NEOPLASIA. PRE AND POST OPERATIVE QUALITY OF LIFE
NT Davidson, P Saxena, M De Matas, R Pillay, DS O'Donahue
Orthopaedic / Spine, Royal Liverpool Hospital NHS Trust, Liverpool, United Kingdom
- 1650 **31** RELIABILITY OF TOKUHASHI INDEX
A Hernández-Fernández, J Caso-Martínez, A Lersundi-Artamendi, JA Iza-Beldarrain, F Pellisé-Urquiza
Spine Unit. Orthopaedic Surgery, Hospital Donostia, San Sebastián, Spain
- 1700 **32** RISK FACTORS FOR DEEP SURGICAL SITE INFECTIONS AFTER LUMBAR SPINAL FUSION
JJP Schimmel, M Kleuver, de, G Wonders, J van Limbeek
Research, Development & Education, Sint Maartenskliniek, Nijmegen, Netherlands
- 1710 **33** VENOUS THROMBOEMBOLISM AFTER SPINAL SURGERY: CHANGES OF THE FIBRIN MONOMER COMPLEX AND D-DIMER LEVEL DURING THE PERIOPERATIVE PERIOD
K Yoshioka, I Kitajima, T Kabata, N Kawahara, H Murakami, S Demura, K Tomita
Department of Orthopaedic Surgery, Kanazawa University, Kanazawa, Japan
- 1720 **34** OVERLOOKED SPINAL DURAL ARTERIOVENOUS FISTULA: ANALYSIS OF MISDIAGNOSED CASES
T Aoyama, K Hida, S Yano, T Asano, Y Iwasaki
Neurosurgery, Hokkaido University Graduate School of Medicine, Sapporo, Japan
- 17:30 **EuroSpine GENERAL ASSEMBLY**
Main hall
- 18:00 **WELCOME RECEPTION**

Thursday, October 22, 2009**08:30 Lumbar Spine: Imaging and Epidemiology**

Chair: F Balagué, F Christensen

- 0830 **35** NERVE ROOT SEDIMENTATION SIGN - EVALUATION OF A NEW RADIOLOGICAL SIGN IN LUMBAR SPINAL STENOSIS
T Barz, M Melloh, LP Staub, J Lange, S Bajracharya, SJ Lord, JC Theis, HR Merk Orthopaedic Surgery, University of Otago, Dunedin School of Medicine, Dunedin, New Zealand
- 0840 **36** INTRODUCING A NEW MRI CLASSIFICATION OF LUMBAR SPINAL STENOSIS BASED ON CROSS-SECTIONAL MORPHOLOGY OF THE DURAL SAC.
C Schizas, N Theumann, A Burn, R Tansey, D Wardlaw, FW Smith, G Kulik DAL - Département de l'appareil locomoteur, Centre Hospitalier Universitaire Vaudois, CHUV, Lausanne, Switzerland
- 0850 **37** THE INFLUENCE OF DIFFUSE IDIOPATHIC SKELETAL HYPEROSTOSIS ON BONE MINERAL DENSITY MEASUREMENTS OF THE SPINE.
LA Westerveld, JJ Verlaan, MGEH Lam, W Scholten, RLAW Bleys, WJA Dhert, FC Oner Orthopedics, University Medical Center Utrecht, Utrecht, Netherlands
- 0900 **38** LUMBAR DISC CHANGES IN MRI AND LOW-BACK PAIN. A PROSPECTIVE LONG-TERM STUDY IN NORMAL VOLUNTEERS FOLLOWED FROM EARLY SCHOOL AGE TO THE END OF GROWTH
E Klemetti, M Lohman, T Lund, J Kettunen, K Österman, D Schlenzka Spine & Children's Orthopaedics, ORTON Orthopaedic Hospital, Helsinki, Finland
- 0910 **39** BACK PAIN AND MRI CHANGES IN THE THORACO-LUMBAR SPINE OF TOP ATHLETES IN FOUR DIFFERENT SPORTS. A 15 YEAR FOLLOW-UP STUDY
Adad Baranto, Mikael Hellström, C-G Cederlund, Rickard Nyman, Leif Swärd Dep of Orthopaedics, Sahlgrenska Academy at Gothenburg University, Gothenburg, Sweden
- 0920 **40** QUANTITATIVE MEASURES OF MODIC CHANGES IN LUMBAR SPINE MRI: INTRA- AND INTER-RATER RELIABILITY
Yue Wang, Tapio Videman, Riikka Niemeläinen, Michele Crites Battié Faculty of Rehabilitation Medicine, University of Alberta, Edmonton, Canada
- 0930 ***41** LUMBAR DEGENERATIVE DISC DISEASE AND LOW BACK PAIN: A 10 YEAR LONGITUDINAL STUDY IN HEALTHY TWINS
M Popham, AJ MacGregor, P Sambrook, AF Jones, TD Spector, FMK Williams Twin Research and Genetic Epidemiology, King's College London, London, United Kingdom
- 0940 **42** ASSOCIATIONS BETWEEN THE DEVELOPMENT OF DEGENERATIVE CHANGES IN DISCS AND VERTEBRAE: A LONGITUDINAL STUDY
T Videman, LE Gibbons, MC Battié Faculty of Rehabilitation Medicine, University of Alberta, Edmonton, Canada
- 0950 **43** WHICH POSITION CAUSES HIGHER SPINAL LOAD - SITTING OR STANDING?
A Rohlmann, M Dreischarf, G Bergmann Julius Wolff Institut, Charité - Universitätsmedizin Berlin, Berlin, Germany

1000-1030 BREAK**10:30 Basic Research and Surgical Treatment**

Chair: R Hedlund, E Acaroglu

- 1030 **44** DIFFERENCES IN MALE AND FEMALE SPINO-PELVIC ALIGNMENT IN ASYMPTOMATIC YOUNG ADULTS. A THREE-DIMENSIONAL ANALYSIS USING UPRIGHT LOW-DOSE DIGITAL BIPLANAR X-RAYS.
MMA Janssen, X Drevelle, L Humbert, W Skalli, RM Castelein Dept. of Orthopaedics, University Medical Center Utrecht, Utrecht, Netherlands

- 1040 ***45** ABNORMAL MOTOR CORTICAL EXCITABILITY ASSESSED BY TRANSCRANIAL MAGNETIC STIMULATION IN AIS. COULD BE FOCAL DYSTONIA A SUBCLINICAL ETIOLOGICAL FACTOR?
*J Domenech, C Barrios, JM Tormos, A Pascual-Leone
Orthopaedics and Trauma Unit. Dpt. of Surgery, Valencia University Medical School, Valencia, Spain*
- 1050 **46** VEPTR 4 YEARS FOLLOW UP IN THE TREATMENT OF SEVERE SPINAL DEFORMITIES.
*C Wimmer, P Wallnoefer, T Pfandlsteiner
Clinic of spine surgery with center of deformities, BHZ Vogtareuth, Vogtareuth, Germany*
- 1100 **47** ENHANCED CORRECTION OF MAIN THORACIC CURVE BY PEDICLE SCREW CONSTRUCT CAUSES LEFT SHOULDER ELEVATION IN LENKE TYPE 1 CURVE
*Kota Watanabe, Morio Matsumoto, Noriaki Kawakami, Taichi Tsuji, Yoshiaki Toyama, Kazuhiro Chiba
Advanced Therapy for Spine and Spinal Disorders, Keio Univ., Tokyo, Japan*
- 1110 **48** NEW STRATEGY AND DECISION MAKING OF WHETHER THE FUSION SHOULD STOP AT L5 OR EXTEND TO SACRUM IN THE SURGICAL TREATMENT OF NEUROMUSCULAR SCOLIOSIS ASSOCIATED WITH SEVERE PELVIC TILT
*A Hamzaoglu, C Ozturk, A Alanay, M Biscevic, S Karadereliler, M Tezer
Florence Nightingale Hospital, Istanbul Spine Center, Istanbul, Turkey*
- 1120 **49** THE SAGITTAL PROFILE OF THORACIC LORDOSCOLIOSIS: POSTERIOR PEDICLE SCREW FIXATION VERSUS ANTERIOR DUAL ROD INSTRUMENTATION
*C Schmidt, U Liljenqvist, T Lerner, N Osada, V Bullmann
Department of General Orthopaedics and Tumororthopaedics, University Hospital Muenster, Muenster, Germany*
- 1130 **50** THREE-STAGED CORRECTION OF SEVERE RIGID IDIOPATHIC SCOLIOSIS USING HALO-GRAVITY TRACTION
*W Koptan, Y ElMiligui
Orthopaedic, Cairo University Hospital, Geiza, Egypt*
- 1140 **51** A COMMON COMPLICATION IN ANTERIOR INSTRUMENTATION OF IDIOPATHIC SCOLIOSIS: LESIONS OF THE SYMPATHETIC CHAIN
*TL Schulte, B Adolphs, D Oberdiek, U Liljenqvist, M Marziniak, V Bullmann
Department of Orthopaedics, University Hospital Münster, Münster, Germany*
- 1150 ***52** PEDICLE SCREWS VERSUS HYBRID/HOOK INSTRUMENTATION FOR LENKE TYPE 1,2 ADOLESCENT IDIOPATHIC SCOLIOSIS- WHAT HAPPENS WHEN JUDGES ARE BLINDED TO THE INSTRUMENTATION?
*V Arlet, JA Ouellet, K Wook, FH Shen, D Chan, J Shilt, E Bersusky, J Hicks, V Reddi
Orthopedic Surgery, University of Virginia, Charlottesville, USA*

12:00-14:00 LUNCH-WORKSHOPS

12:00 **EUROSPINE WORKSHOP 2**

Mickiewicz Hall

Spinal Tumors

Chair: [S Boriani](#)

1200	Primary Tumors of the Mobile Spine	S. Boriani, Bologna, I
1220	Metastatic Disease of the Mobile Spine	E Caceres, Barcelona, E
1240	Sacral Tumors	PP Varga, Budapest, H
	Discussion including self evaluating. Clinical Cases	Faculty
	Conclusions and take-home messages	S Boriani, Bologna, I

12:00

EUROSPINE WORKSHOP 3

Warsaw Hall

Treatment of the fractures in Osteoporotic Spine

Chair: Paul Heini

Cement Reinforcement – The Evidence

12:05-12:15	FREE; RCT on kyphoplasty vs. Conservative treatment	J Van Meirhaeghe, Brugge, B
12:15-12:25	Prospective studies on vertebroplasty long term results	S Dijkstra, Leiden, NL
12:25-12:35	Prospective studies on vertebroplasty - the impact of prophylactic treatment	C Roeder, Bern, CH
12:35-12:45	Discussion	
12:45-13:00	New technology: Vertebral body stenting KIVA System	P Heini, Bern, CH S Becker, Vienna, A
13:00-13:10	Principles of cement / bone handling and its impact on leakage	L Benneker, Bern, CH
13:10-13:20	Discussion	

Complex Spine Problems in Osteoporosis / Spinal Deformities of the Elderly

13:20-13:30	Failure of fixation / adjacent fractures, rationale for prophylactic augmentation	P Heini, Bern, CH
13:30-13:40	Stabilization in osteoporosis: Experience with cement reinforced screws	M Rauschmann, Frankfurt, D
13:40-13:55	Discussion	

14.00

FREE AFTERNOON

Friday, October 23, 2009**08:30 Special Poster Sessions (parallel)****Deformities: Disease and Reconstruction**

Chair: D Schlenzka, D Chopin

Goethe Hall

- SP1** BODY MASS INDEX IN CHINESE GIRLS WITH ADOLESCENT IDIOPATHIC SCOLIOSIS
Zhen Liu, Yong Qiu, Xu-sheng Qiu, Xu Sun
Spine Surgery, Spine Surgery, Drum Tower Hospital, Nanjing University Medical School, Nanjing, China, Nanjing, China
- SP2** REOPERATIONS IN ADOLESCENT IDIOPATHIC SCOLIOSIS (AIS): DOES APPROACH MATTER?
S Srinivas, F Cacciola, EJ Bayley, IE Collins, SMH Mehdian
Centre for Spinal Studies and Surgery, Nottingham University hospitals NHS Trust, Nottingham, United Kingdom
- SP3** PAIN AND DISABILITY AFTER THE SURGICAL TREATMENT OF ADOLESCENT IDIOPATHIC SCOLIOSIS
T Bas Hermida, N Franco Ferrando, P Bas Hermida, S Soler, L A Pérez-Millán, I Escriba Roca, D Bonete Lluch, G Bordon
SPINAL SERVICE, HOSPITAL UNIVERSITARIO LA FE. VALENCIA. SPAIN, VALENCIA, Spain
- SP4** NATURAL HISTORY AND STRATEGIES OF SURGICAL TREATMENT OF SCOLIOSIS IN PATIENTS WITH MYELOMENINGOCELE.
T Potaczek, M T siorowski, D Zarzycki, B Jasiewicz
Department of Orthopedic Surgery and Rehabilitation, Jagiellonian University, Faculty of Medicine, Zakopane, Poland

- SP5** NATURAL HISTORY OF DEGENERATIVE LUMBAR SCOLIOSIS
KY Ha, YS Kim, KW Kim, IS Oh
Orthopaedic surgery, Seoul St. Mary Hospital, Seoul, Korea
- SP6** POSTERIOR VERTEBRAL COLUMN RESECTION IN SEVERE SPINAL DEFORMITIES: A TOTAL OF 102 CASES
C Ozturk, M Aydogan, M Tezer, M Sarier, S Karadereliler, A Hamzaoglu
Florence Nightingale Hospital, Istanbul Spine Center, Istanbul, Turkey
- SP7** SURGICAL CORRECTION OF ANTERIOR SAGITTAL IMBALANCE BY POSTERIOR-ONLY DISCECTOMY, WEDGE OSTEOTOMY OF ADJACENT VERTEBRAL END PLATES AND INTERBODY FUSION. TECHNICAL ASPECTS, CLINICAL AND RADIOLOGICAL OUTCOME.
J Burgos, C Barrios, E Hevia, P Domenech, I Sanpera, G Piza, JC Rodríguez Olaberri, O Riquelme, I García de Quesada
Orthopaedics and Trauma Unit. Dpt. of Surgery, Valencia University Medical School, Valencia, Spain
- SP8** RADIOLOGICAL ANALYSIS OF ANKYLOSING SPONDYLITIS PATIENTS WITH SEVERE KYPHOSIS BEFORE AND AFTER PEDICLE SUBTRACTION OSTEOTOMY
R Debarge, G Demey, P Roussouly
Orthopedic and Spine Surgery, CMCR les Massues, Lyon, France
- SP9** REPORT ON FAILURE AND SUCCESS OF MULTILEVEL SPINAL SURGERY IN PATIENTS WITH PARKINSON'S DISEASE AND THE IMPORTANCE OF SAGITTAL SPINO-PELVIC BALANCE.
H Koller, J Zenner, L Ferraris, A Hempfing, F Acosta, O Meier
German Scoliosis Center, Werner-Wicker-Clinic, Bad Wildungen, Germany
- SP10** SHOULD SMOKING-HABIT DICTATE THE FUSION TECHNIQUE?
A Luca, AF Mannion, P Proier, D Grob
Spine Center, Schulthess Klinik, Zürich, Switzerland

Back Pain and its Surgical Treatment

Chair: HM Mayer, C Lamartina

Warszawska Hall

- SP11** RISK INDICATORS FOR SEVERE UPPER OR MID-BACK PAIN IN MEN.
R Niemeläinen, T Videman, MC Battìè
Department of Physical Therapy, University of Alberta, Edmonton, Canada
- SP12** DIFFERENCES IN CLINICAL FEATURES BETWEEN FACET JOINT PAIN AND OTHER CAUSES OF LOW BACK PAIN
R Khazim, K Ravi, T Toma
Orthopaedics and Radiology, Southend University Hospital, Essex, United Kingdom
- SP13** MINIMALLY-INVASIVE TREATMENT OF 50 CONSECUTIVE PATIENTS WITH REFRACTORY DISCOGENIC LOW BACK PAIN: INTRADISCAL ELECTROTHERMAL THERAPY (IDET)
R Assietti, M Morosi, F Montemezzo, JE Block
Neurosurgery, Ospedale Fatebenefratelli e Oftalmico, Milano, Italy
- SP14** CORRELATION OF BODY-MASS-INDEX WITH CLINICAL OUTCOME AND COMPLICATION RATES IN PATIENTS WITH MONO- AND BISEGMENTAL LUMBAR FUSION – 2 YEARS FOLLOW-UP
A Tuschel, S Schenk, M Meissl, A Chavanne, M Ogon
Spine Unit, Orthopaedic Hospital Vienna Speising, Wien, Austria
- SP15** FLIP OSTEOTOMY AND DECOMPRESSION FOR LUMBAR SPINAL STENOSIS
K El-Abed, N Mohamed, D Ainscow
Spine Unit, Orthopaedics, Cheltenham General Hospital, Cheltenham, United Kingdom
- SP16** AIR EMBOLUS DURING GRAFT INSERTION IN AXIALIF®
WD Smith, JA Anson, M Seiff, M Fogarty, G Christian, S Serrano, K Malone
Research, NNI Research Foundation, Las Vegas, USA
- SP17** STAND-ALONE CAGE FOR POSTERIOR LUMBAR INTERBODY FUSION IN THE TREATMENT OF HIGH-DEGREE DEGENERATIVE DISC DISEASE (DDD): DESIGN OF A NEW DEVICE FOR AN "OLD" TECHNIQUE. A PROSPECTIVE STUDY ON A SERIES OF 116 PATIENTS.

Francesco Costa, Marco Sassi, Andrea Cardia, Alessandro Ortolina, Martin Lorenzetti, Roberto Assietti, Maurizio Fornari
Neurosurgery, IRCCS Galeazzi, Mialn, Italy

- SP18** LONG-TERM PATIENT-ORIENTED OUTCOME AFTER TRANSLAMINAR SCREW FIXATION OF THE LUMBAR SPINE
M Aepli, AF Mannion, D Grob
Spine Center, Schulthess Klinik, Zürich, Switzerland
- SP19** PATIENTS WITH DISC HERNIA AND/OR RADICULOPATHY HAVE SIMILAR PAIN ALLEVIATION AFTER LUMBAR TOTAL DISC REPLACEMENT THAN THOSE WITH THE CLASSIC INDICATION
T Zweig, E Aghayev, R Sobottke, M Melloh, P Moulin, S Swiss, M Aebi, C Roeder
Institute for evaluative research in orthopaedics, University of Berne, Bern, Switzerland
- SP20** ENDOSCOPIC LUMBAR PERIDUROLYSIS FOR FBSS. FIVE YEARS EXPERIENCE.
A Alexandre, L Corò, AM Alexandre, H Neumann
Neurosurgery, EU.N.I. European Neurosurgical Institute, TREVISO, Italy

Tumor and Trauma

Chair: N Boos, T Pigott

Mikolajska Hall

- SP21** INFLUENCE OF LOAD APPLICATION POINT DISPLACEMENT ON STRESS AND STRAIN DISTRIBUTION IN PERSONALIZED VERTEBRAL FINITE ELEMENT MODELS
C Travert, E Jolivet, E Sapin, D Mitton, W Skalli
Laboratoire de Biomecanique, Arts et Metiers ParisTech, Paris, France
- SP22** SWISSSPINE - A NATIONWIDE HTA-REGISTRY FOR BALLOON KYPHOPLASTY; METHODOLOGY AND FIRST RESULTS
E Aghayev, T Zweig, P Diel, P Moulin, C Röder, the SWISSspine registry group
IEFO, Institute for Evaluative Research in Orthopaedic Surgery, Bern, Switzerland
- SP23** VESSELPLASTY FOR THE MANAGEMENT OF SYMPTOMATIC VERTEBRAL COMPRESSION FRACTURES: INTERNATIONAL MULTICENTRIC STUDY
R Iundusi, J Reppmann, V Tempesta, B Bruchmann, G Ferraro, Ch Melzer, FC Kilian, U Tarantino
Orthopaedics and Traumatology, University of Rome "Tor Vergata", Rome, Italy
- SP24** COMBINED VERTEBRAL STABILIZATION BY MEANS OF CEMENT-AUGMENTED POSTERIOR INSTRUMENTATION AND BALLOON-KYPHOPLASTY IN OSTEOPOROTIC BURST FRACTURES
TR Blattert, S Glasmacher, H Siekmann, C Schmidt, C Josten
Spine Center, Leipzig University Hospital, Leipzig, Germany
- SP25** PERCUTANEOUS PEDICLES SCREWS FIXATION FOR TREATMENT OF TRAUMATIC VERTEBRAL FRACTURE
CA Logroscino, E Pola, L Scaramuzzo, L Proietti
Orthopaedic and traumatology, Catholic University "A. Gemelli" Hospital, Rome, Italy
- SP26** SIGNIFICANT PREDICTIVE VALUES FOR THE LIFE EXPECTANCY OF PATIENTS WITH SPINAL METASTASES.
IS Oh, KY Ha
Orthopaedic Surgery, Seoul St. Mary's Hospital, Seoul, Korea
- SP27** TOTAL EN BLOC SPONDYLECTOMY BY COMBINED POSTERIOR AND ANTERIOR APPROACH FOR SPINAL TUMORS IN THE LOWER LUMBAR SPINE
Norio Kawahara, Katsuro Tomita, Hideki Murakami, Demura Satoru, Katsuhito Yoshioka
Department of Orthopaedic Surgery, Kanazawa University, Kanazawa, Japan
- SP28** VARIATIONS OF THE ARTERY OF ADAMKIEWICZ AND A RISK OF PARAPLEGIA IN INTERVENTIONAL PAIN MANAGEMENT: A CADAVERIC DISSECTION STUDY.
M Kurowski, S Downie, JK Houten, TR Olson, MA Thomas, B Shah
Physical Medicine and Rehabilitation, Albert Einstein College of Medicine, Montefiore Medical Center, Teaneck, USA
- SP29** EFFICACY OF PROPHYLACTIC PLACEMENT OF INFERIOR VENA CAVA FILTER IN PATIENTS UNDERGOING SPINAL SURGERY
M Aydogan, C Ozturk, L Onat, K Ganiyusufoglu, S Karaca, A Hamzaoglu
Florence Nightingale Hospital, Istanbul Spine Center, Istanbul, Turkey

SP30 RISK FACTORS ASSOCIATED WITH DIFFUSE IDIOPATHIC SKELETAL HYPEROSTOSIS.*LA Westerveld, JJ Verlaan, WJA Dhert, FC Oner**Orthopedics, University Medical Center Utrecht, Utrecht, Netherlands***Cervical Spine: Imaging, Trauma, Tumor, & Degeneration****Chair: N Buxton, R Gunzburg****Puszkin Hall****SP31** A BIOMECHANICAL RATIONALE FOR C1-RING OSTEOSYNTHESIS AS TREATMENT ALTERNATIVE FOR UNSTABLE JEFFERSON BURST FRACTURES (JBF) WITH INCOMPETENCY OF THE TRANSVERSE ATLANTAL LIGAMENT (TAL)*H Koller, J Zenner, T Kathrein, R Penzkofer, M Tauber, L Ferraris, M Mayer**German Scoliosis Center, Werner-Wicker-Klinik, Bad Wildungen, Germany***SP32** CLINICAL ASSESSMENT OF AXIAL NECK ROTATION IS NOT A RELIABLE MEASURE FOR C1-2 ROTATIONAL RANGE OF MOTION. RESULTS OF A MORPHOMETRICAL ANALYSIS USING DYNAMIC CT-SCANS.*H Koller, J Zenner, M Mayer, S Lederer, A Auffarth, H Resch, W Hitzl, A Hempfing, M Tauber**German Scoliosis Center, Werner-Wicker-Clinic, Bad Wildungen, Germany***SP33** CLINICAL CHARACTERISTICS AND FUNCTIONAL DISABILITY IN RELATION TO ALAR LIGAMENTS FINDINGS ON MRI. A CASE-CONTROL STUDY.*Rigmor Myran, John-Anker Zwart, Kjell Arne Kvistad, Stian Lydersen, Magne Ro, Hege Andresen, Oystein Petter Nygaard**National Centre of Spinal Disorders, Dep. of Neurosurgery, Department of Neuroscience, Norwegian University of Science and Technology, Trondheim, Norway***SP34** PLAIN RADIOGRAPHS VS. CT SCANNING IN THE ASSESSMENT OF ODONTOID FRACTURE UNION - PSEUDOARTHROSIS RATES HAVE TO BE REVISITED !*H Koller, J Zenner, K Kolb, A Auffarth, J Reynolds, H Resch, S Lederer, F Acosta, A Hempfing, M Mayer**German Scoliosis Center, Werrner-Wicker-Clinic, Bad Wildungen, Germany***SP35** TREATMENT OF SPONDYLOTIC CERVICAL MYELOPATHY: ANTERIOR CERVICAL DISCECTOMY AND FUSION (ACDF) WITH A MODULAR CAGE-PLATE SYSTEM (PCB) IN THE SINGLE AND MULTILEVEL CERVICAL MYELOPATHY.*Francesco Costa, Andrea Cardia, Alessandro Ortolina, Marco Sassi, Maurizio Fornari**Neurosurgery, IRCCS Galeazzi, Milan, Italy***SP36** TWO-LEVEL CORPECTOMY: LONG TERM RESULTS*PA Silva, C Chamadoira, P Pereira, R Vaz**Neurosurgery, Hospital S. João, Gondomar, Portugal***SP37** IS DETERMINATION BETWEEN COMPLETE AND INCOMPLETE TRAUMATIC SPINAL CORD INJURY CLINICALLY RELEVANT?**VALIDATION OF THE ASIA SACRAL SPARING CRITERIA IN A PROSPECTIVE COHORT OF 432 PATIENTS.***JJ van Middendorp, AJF Hosman, MH Pouw, H Van de Meent**Spine Unit, Dep. of Orthopaedics, Radboud University Nijmegen Medical Centre, Nijmegen, Netherlands***SP38** TRANEXAMIC ACID REDUCES POSTOPERATIVE BLEEDING IN CERVICAL LAMINOPLASTY: A PROSPECTIVE RANDOMIZED STUDY*T Tsutsumimoto, M Shimogata, H Ohta, M Yui, I Yoda, H Misawa**Orthopaedic Surgery, Yodakubo Hospital, Nagawa, Japan***SP39** THE LAMINA AS A GUIDE FOR SAFE LATERAL MASS SCREW PLACEMENT IN THE SUB-AXIAL CERVICAL SPINE – A COMPUTED TOMOGRAPHY STUDY*E Bayley, Z Zia, S Srinivas, R Kerlake, Z Klezl, BM Boszczyk**Centre for Spinal Studies and Surgery, Queen's Medical Centre, Nottingham, United Kingdom***SP40** EOSINOPHILIC GRANULOMA OF THE PEDIATRIC CERVICAL SPINE.*Vincenzo Denaro, Umile Giuseppe Longo, Papalia Rocco, Alberto Di Martino, Nicola Maffulli, Luca Denaro**Orthopaedics, Campus Bio-Medico University of Rome, Rome, Italy*

Experimental Research: Future of Spine Surgery?

Chair: S Ferguson, K Ito

Mickiewicz Hall

- SP41** DOES MECHANICAL LOADING INFLUENCE IVD CELL RESPONSES TO VARIATIONS OF IN VITRO ENVIRONMENTAL CONDITIONS (GLUCOSE SUPPLY, OXYGEN, PH)?
*C Neidlinger-Wilke, C Rinkler, A Mietsch, MT Pedro, HJ Wilke, A Ignatius
Institute of Orthopaedic Research and Biomechanics, University of Ulm, Ulm, Germany*
- SP42** CAN SHORT SCREWS IMPROVE THE BONE-SCREW INTERFACE IN PEDICLE SCREW FIXATION?
*CA Niosi, T Nydegger, M Fröhlich
Spine Research, Zimmer GmbH, Winterthur, Switzerland*
- SP43** INTERVERTEBRAL DISC REPAIR USING ADIPOSE TISSUE-DERIVED STEM AND REGENERATIVE CELLS: EXPERIMENTS IN A CANINE MODEL
*HJ Meisel, T Ganey, WC Hutton, T Moseley, M Hedrick, B Strem
Neurosurgery, BG Clinic Bergmannstrost, Halle, Germany*
- SP44** PULSED ELECTROMAGNETIC FIELDS (PEMF) STIMULATE NUCLEUS PULPOSUS CELL METABOLISM
*M Held, L Ettinger, PM Welz, SJ Ferguson
Institute for Surgical Technology and Biomechanics, University of Bern, Bern, Switzerland*
- SP45** EVALUATION OF THE BIOMECHANICAL BEHAVIOR AND THE EXTRUSION RISK OF A NEW POLYMERIZING GEL FOR INJECTION IN THE NUCLEUS PULPOSUS
*HJ Wilke, H Fuchs, J Mollenhauer, K Benz, H Wurst, G Achatz, F Heuer
University of Ulm, Institute of Orthopaedic Research and Biomechanics, Ulm, Germany*
- SP46** DEATH OF INTERVERTEBRAL DISC CELLS AFTER TRAUMATIC INJURY TO THE LOWER CERVICAL SPINE: THE INFLUENCE OF TIME AND DEGENERATION.
*I Sitte, A Kathrein, B Huber, R Schmid, F Pedross, K Pfaller, S Roberts
Traumatology and Sportsmedicine, Medical University of Innsbruck, Innsbruck, Austria*
- SP47** THE INFLAMMATORY RESPONSE TO TRAUMA IN INTERVERTEBRAL DISCS AFTER FRACTURE OF THE THORACOLUMBAR SPINE
*CE Heyde, I Anagnostopoulos, W Ertel, SK Tschoeke
Orthopaedic Surgery, University of Leipzig, Leipzig, Germany*
- SP48** TISSUE-INTRINSIC SUPPORT OR HAMPER OF VASCULO-ANGIOGENIC PROCESSES IN THE TRAUMATIZED RAT SPINAL CORD
*ON Hausmann, MF Ritz, B Gutierrez, U Graumann
Spinal Injury Research, Swiss Paraplegic Research, Nottwil, Switzerland*
- SP49** TISSUE ADHESION PREVENTION IS EFFICIENT IN ANTERIOR LUMBAR SURGERY USING A GORETEX FILM.
*S Aunoble, jc le huec, nicolas pele, yasser alsawad
deterca, universite bordeaux, bordeaux, France*
- SP50** "SMART" NANOFIBER MEMBRANE FOR ANNULUS FIBROSUS REPAIR AND ARGUMENTATION: AN IN-VITRO STUDY
*V Denaro, G Vadala', A Rainer, M Loppini, M Trombetta
Orthopaedic and Trauma Surgery, Università Campus Bio-Medico di Roma, Rome, Italy*

10:00-10:30 BREAK**10:30 Presidential Address, Medal and Awards Lectures**

Chair: F Balagué, F Pellisé

10:30

EuroSpine Medal Lecture:**MAN IN THE UNIVERSE**

Michał Kazimierz Heller, professor of philosophy at the The Pontifical Academy of Theology in Kraków, Poland, emeritus lecturer in the philosophy of science and logic at the Theological Institute in Tarnów, Roman Catholic priest belonging to the diocese of Tarnów

11:00

Winner of 2009 EuroSpine Full Paper Award

- 11:10 Winner of 2008/2009 Grammer Award
 11:20 Announcement/Presentation of Poster Prize
 11:25 EuroSpine committee and Task Force Reports
 11:30 EuroSpine Presidential Address

12:00-14:00 LUNCH-WORKSHOPS

12:00 EUROSPINE WORKSHOP 4

Warsaw Hall

Lumbar disc replacement

Chair: F Kandziora

Total disc replacement (TDR) - Crisis after the Hype?

- | | |
|--|----------------------------|
| The first 25 years - the years of the hype | M Mayer, Munich, D |
| The evidence - what is left? | M de Kleuver, Nijmegen, NL |
| Was it worth it? - All about acquisition and money | Industry |
| The Hype continues - all arguments for TDR | M Ogon, Vienna, A |
| The Crisis is deep - all arguments against TDR | F Kandziora |
| What is next? - future developments | |

12:00 EUROSPINE WORKSHOP 5

Mickiewicz Hall

Spine Tango

1400 Cervical Spine: Epidemiology and Surgical Treatment

Chair: D Grob, J Casamitjana

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| 1400 | 53 | RISK FACTORS FOR DEVELOPMENT OF NECK PAIN. MINIMUM TEN-YEAR FOLLOW-UP STUDY OF ASYMPTOMATIC VOLUNTEERS
<i>E Okada, M Matsumoto, D Ichihara, K Chiba, Y Toyama, H Fujiwara, S Momoshima, Y Nishiwaki, T Hashimoto, T Takahata</i>
<i>Department of Orthopedic Surgery, School of Medicine, Keio University, Tokyo Japan, Tokyo, Japan</i> |
| 1410 | *54 | CLINICAL RESULTS AND DEVELOPMENT OF HETEROTOPIC OSSIFICATION (HO) IN TOTAL CERVICAL DISC REPLACEMENT DURING A FOUR-YEAR FOLLOW-UP
<i>S Elgawhary, L Jurak, R Brabec, P Suchomel</i>
<i>Neurosurgery, Regional Hospital Liberec, Liberec, Czech Republic</i> |
| 1420 | 55 | LONG-TERM SURGICAL RESULTS (OVER 10 YEARS) OF OCCIPITO-CERVICAL FIXATION USING RECTANGULAR ROD AND WIRING FOR RHEUMATOID CERVICAL SPINE.
<i>J Mizutani, M Fukuoka, O Ogikubo, Y Hayashi, N Suzuki, S Hasegawa, K Ikuta, S Murakami, T Otsuka</i>
<i>Orthopaedic Surgery, Nagoya City University Hospital, Nagoya, Japan</i> |
| 1430 | 56 | DIRECT REMOVAL OF A CERVICAL DISC PROLAPSE FROM ANTERIOR WITHOUT TOUCHING THE DISC. A NEW NON-FUSION TECHNIQUE FOR CERVICAL DISC DISEASE.
<i>H Boehm, J Iskander, M Haschasch</i>
<i>Spinal Surgery and Paraplegiology, Zentralklinik Bad Berka, Bad Berka, Germany</i> |
| 1440 | 57 | POSTERIOR C2 INSTRUMENTATION: RISKS AND ACCURACY ASSOCIATED WITH 4 TECHNIQUES
<i>RJ Bransford, AJ Russo, MA Freeborn, QT Nguyen, MJ Lee, JR Chapman, C Bellabarba</i>
<i>Department of Orthopaedics and Sports Medicine, University of Washington, Seattle, USA</i> |

- 1450 **58** RADIO-FREQUENCY NEUROTOMY (RF) OF MEDIAL BRANCH FOR CHRONIC CERVICAL FACET JOINT PAIN. A RANDOMIZED, DOUBLE BLIND, CONTROLLED STUDY WITH ONE-YEAR FOLLOW-UP.
Tl Andersen, T Rygnestad, PC Borchgrevink, OE Nygaard
Department of circulation and medical imaging, Faculty of Medisin, Norwegian University of Science and Technology, Center for pain and complex disorders, St Olavs Hospital, Trondheim, Norway
- 1500 **59** ANTERIOR CERVICAL DECOMPRESSION AND FUSION ACCELERATES ADJACENT SEGMENT DEGENERATION - COMPARISON WITH ASYMPTOMATIC VOLUNTEERS IN 10-YEAR MRI FOLLOW-UP STUDY
M Matsumoto, D Ichihara, E Okada, K Chiba, Y Toyama, H Fujiwara, S Momoshima, Y Nishiwaki, A Iwanami, T Ikegami
Orthopaedic Surgery, Keio University, Tokyo, Japan
- 1510 **60** LANGERHANS CELL HISTIOCYTOSIS OF THE CERVICAL SPINE. A SINGLE CHINESE INSTITUTION EXPERIENCE WITH 30 CASES.
L Jiang, Z Liu, X Liu, W Zhong, Q Ma, F Wei, G Dang, H Yuan
Orthopaedic Department, Peking University Third Hospital, Beijing, China
- 1520 **61** CIRCUMFERENTIAL RESECTION OF AGGRESSIVE OSTEOLASTOMA OF THE CERVICAL SPINE
Y ElMiligui, W Koptan
Orthopaedic, Cairo University Hospital, Geiza, Egypt

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

16:00	Lumbar Spine: Back Pain Treatments Surgical and non Surgical Chair: P Sell, M Ogon
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- 1600 **62** LONG-TERM EFFECTS OF A COMBINED EXERCISE AND MOTIVATION PROGRAM IN PATIENTS WITH CHRONIC LOW BACK PAIN: A FIVE-YEAR FOLLOW-UP
M Friedrich, G Gittler
Departement of Orthopaedic pain management, Orthopaedic Hospital Speising, Vienna, Austria
- 1610 **63** LOW BACK PAIN IN ADOLESCENTS. IS QUALITY OF LIFE POORER IN THOSE CONSULTING AT A HOSPITAL?
F Pellisé, C G Fontecha, F Balagué, C Cedraschi, M Aguirre, L Rajmil, M Ferrer
Spine Unit, Hospital Vall d'Hebron, Barcelona, Spain
- 1620 **64** A COMPARISON OF "TAILOR-MADE" AND "OFF-THE-SHELF" OUTCOME INSTRUMENTS FOR ASSESSING THE RESULTS OF PHYSIOTHERAPY FOR CHRONIC LOW BACK PAIN
AF Mannion, F Caporaso, N Pulkovski, H Sprott
Spine Center, Schulthess Klinik, Zürich, Switzerland
- 1630 **65** REFERRED PAIN CAN RADIATE BELOW THE KNEE
A Coxon, R Shipley, M Murray, H Roper, S White, K Nagendar, CG Greenough
Spinal Injuries Unit, James Cook University Hospital, Middlesbrough, United Kingdom
- 1640 ***66** NO EFFECT OF TRACTION IN PATIENTS WITH LOW BACK PAIN. A SINGLE CENTRE, SINGLE BLIND, RANDOMISED CONTROLLED TRIAL OF INTERVERTEBRAL DIFFERENTIAL DYNAMICS THERAPY(R)
JJP Schimmel, M Kleuver, de, PP Horsting, M Spruit, WCH Jacobs, J van Limbeek
Research, Development & Education, Sint Maartenskliniek, Nijmegen, Netherlands
- 1650 ***67** OUTCOME AFTER LUMBAR SPINE SURGERY: DO THE PATIENT AND SURGEON SEE EYE-TO-EYE?
F Lattig, D Grob, FS Kleinstueck, F Porchet, D Jeszenszky, V Bartanusz, D O'Riordan, AF Mannion
Spine Center, Schulthess Klinik, Zürich, Switzerland

- 1700 **68** SURGEON VERSUS PATIENT PRE-OPERATIVE EXPECTATIONS OF SPINAL SURGERY.
F Lattig, TF Fekete, D O'Riordan, AF Mannion
Spine Center, Schulthess Klinik, Zürich, Switzerland
- 1710 ***69** THE SPINE REGISTRY DID NOT PROVIDE THE SAME RESULT AS A RANDOMISED CONTROLLED STUDY
S Berg, H Tropp
Löwenströmska Sjukhuset, Stockholm Spine Center, Stockholm, Sweden
- 1720 **70** POSTOPERATIVE CONTINUAL EPIDURAL ANALGESIA WITH BREIVIK'S MIXTURE (BUPIVACAINE, EPINEPHRINE AND FENTANYL) VS. EPIDURAL ROPIVACAINE AND ORAL SLOW RELEASE OXYCODONE AFTER LUMBAR FUSION SURGERY - A PROSPECTIVE RANDOMIZED STUDY
E Gulle, C Skärvinge, K Runberg, C Olerud
Dept Orthopedics, Surgical sciences, Uppsala, Sweden
- 20:00 **GALA EVENING**
Attire: formal

Saturday, October 24, 2009

08:30 **Severe Deformities and Osteotomies**

Chair: A Alanay, M Brayda-Bruno

- 0830 **71** SINGLE STAGE FRONT AND BACK RESECTION TO CORRECT NEGLECTED CONGENITAL ANGULAR DEFORMITIES
Y ElMiligui, W Koptan
Orthopaedic, Cairo University Hospital, Geiza, Egypt
- 0840 **72** POSTERIOR HEMIVERTEBRA RESECTION COMBINED WITH TRANSPEDICULAR INSTRUMENTATION FOR THE SURGICAL TREATMENT OF CONGENITAL SPINAL DEFORMITY IN CHILDREN
G Lv, B Wang, Y Kang
Spine Surgery, 2nd Xiangya Hospital, Changsha, China
- 0850 **73** POSTERIOR VERTEBRAL COLUMN RESECTION IN SEVERE CONGENITAL KYPHOSIS, SCOLIOSIS AND KYPHOSCOLIOSIS
S Karadereliler, C Ozturk, A Alanay, N Aksu, O Karatoprak, A Hamzaoglu
Florence Nightingale Hospital, Istanbul Spine Center, Istanbul, Turkey
- 0900 **74** RESIDUAL KYPHOSIS AFTER POSTERIOR VERTEBRAL COLUMN RESECTION FOR SEVERE KYPHOSCOLIOSIS: ITS RISK FACTORS AND FURTHER SURGICAL MANAGEMENT
Z Zhu, Y Qiu, B Qian, B Wang, Y Yu, F Zhu, X Sun, W Ma
Spine Surgery, Spine Surgery, Drum Tower Hospital, Nanjing University Medical School, Nanjing, China
- 0910 **75** THE ALERT APPLYING VALUE OF SOMATOSENSORY EVOKED POTENTIAL EXAMINATION IN POSTERIOR VERTEBRAL COLUMN RESECTION (PVCR)
W Ma, Y Qiu, F Zhu, Z Chen, Z Zhu, B Wang, Y Yu, B Qian
Spine Surgery, Spine Surgery, Drum Tower Hospital, Nanjing University Medical School, Nanjing, China, Nanjing, China
- 0920 **76** PEDICLE SUBTRACTION OSTEOTOMY IS BETTER THAN ANTERIOR CORPECTOMY AND GRAFTING FOR CORRECTING POST-TRAUMATIC KYPHOSIS OF THE THORACOLUMBAR SPINE
M Sharkawi
Department of Orthopaedics, Assiut University Medical School, Assiut, Egypt

- 0930 **77** SCHEUERMANN KYPHOSIS CORRECTION: POSTERIOR VERSUS COMBINED ANTERIOR/POSTERIOR FUSION. IS REALLY A FREE COMPLICATIONS SURGERY?
M Di Silvestre, F Lolli, T Greggi, G Bakaloudis
Spine Surgery Department, Istituto Ortopedico Rizzoli, Bologna, Italy
- 0940 **78** TREATMENT OF SEVERE PROXIMAL JUNCTIONAL KYPHOSIS FOLLOWING LARGE POSTERIOR FUSIONS OF THORACO-LUMBAR SCOLIOSIS PEDICLE SCREWS-HOOKS CONSTRUCTS AT UPPER LEVEL.
J Burgos, E Hevia, C Barrios, P Domenech, I Sanpera, G Piza, JC Rodríguez-Olaberri, O Riquelme, JI Maruenda
Orthopaedics and Trauma Unit. Dpt. of Surgery, Valencia University Medical School, Valencia, Spain
- 0950 **79** LONG INSTRUMENTATION TO L5 VERSUS S1 IN DEGENERATIVE LUMBAR SCOLIOSIS: DOES PRE-DEGENERATION OF L5/S1 MATTER?
A Tuschel, M Meissl, S Schenk, A Chavanne, M Ogon
Spine Unit, Orthopaedic Hospital Vienna Speising, Wien, Austria

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

10:30 Lumbar Spine: Stenosis Fusion and arthroplasty

Chair: HJ Wilke, JC LeHuec

- 1030 **80** X-STOP INTERSPINOUS DECOMPRESSION DEVICE IN THE MANAGEMENT OF SYMPTOMATIC LUMBAR CANAL STENOSIS - CORRELATION BETWEEN THE CHANGE IN CANAL AREA AND CLINICAL OUTCOME AT TWO YEARS.
A Nandakumar, N Clark, N Bilolikar, A Pawulska, D Wardlaw, FW Smith
Orthopaedics, NHS Grampian, Aberdeen, United Kingdom
- 1040 **81** DOES WALLIS IMPLANT REDUCES ADJACENT SEGMENT DEGENERATION ABOVE LUMBOSACRAL INSTRUMENTED FUSION?
P Korovessis, Th Repantis
Orthopaedic, General Hospital "Agios Andreas", Patras, Greece
- 1050 **82** COST EFFICACY OF THREE SURGICAL PROCEDURES IN CENTRAL SPINAL STENOSIS
T Hansson, C Johansson
Department of Orthopaedics, Sahlgrenska University Hospital, Gothenburg, Sweden
- 1100 **83** DOES POST-SURGICAL REHABILITATION INFLUENCE THE LONG-TERM OUTCOME AFTER SURGICAL DECOMPRESSION OF THE LUMBAR SPINE? A RANDOMIZED CONTROLLED TRIAL WITH 5-YEAR FOLLOW-UP.
AF Mannion, R Denzler, J Dvorak, D Grob
Spine Center, Schulthess Klinik, Zürich, Switzerland
- 1110 **84** NEW STRATEGIES IN REVISION LUMBAR SPINE SURGERY: THE EFFECTIVENESS OF MESNA
V Denaro, A Di Martino, UG Longo, V Costa, R Papalia, L Denaro, F Forriol
Orthopaedics and Trauma Surgery, Campus Bio-Medico University of Rome, Rome, Italy
- 1120 **85** SWISSSPINE NATIONAL MANDATORY REGISTRY FOR LUMBAR TOTAL DISC ARTHROPLASTY; CLINICAL RESULTS OF 427 PATIENTS AND 497 IMPLANTS
E Aghayev, T Zweig, P Diel, P Moulin, C Röder, the SWISSspine registry group
IEFO, Institute for Evaluative Research in Orthopaedic Surgery, Bern, Switzerland
- 1130 **86** COMPREHENSIVE WEAR ASSESSMENT OF PRODISC-L TOTAL DISC REPLACEMENT
R Vicars, R Marsh, CM Goreham-Voss, TD Brown, JL Tipper, E Ingham, J Fisher, RM Hall
Institute of Medical and Biological Engineering, University of Leeds, Leeds, United Kingdom
- 1140 **87** MIDTERM OUTCOME AFTER MICROENDOSCOPIC DECOMPRESSIVE LAMINOTOMY (MEDL) FOR LUMBAR SPINAL STENOSIS: 4-YEAR PROSPECTIVE STUDY.
M Castro-Menéndez, M Castro-Menéndez, JA Bravo-Ricoy, R Casal-Moro, M Hernández-Blanco, FJ Jorge-Barreiro
ORTHOPAEDICS, HOSPITAL MONFORTE LEMOS, MONFORTE DE LEMOS, Spain
- 1150 **88** EFFECT OF TOTAL LUMBAR DISC PROSTHESIS VERSUS MULTIDISCIPLINARY REHABILITATION IN PATIENTS WITH CHRONIC LOW BACK PAIN AND

DEGENERATIVE DISC. 2-YEARS RESULTS FORM A PROSPECTIVE RANDOMIZED
CLINICAL MULTICENTER TRIAL.

*C Hellum, LG Johnsen, K Storheim, ØP Nygaard, JI Brox, I Rossvoll, O Grundnes, The
Norwegian spine study group*

Ortopedic Department, Oslo University Hospital Ullevål, Oslo, Norway

12:00

CLOSING REMARKS - END

* = *under consideration for best podium presentation*