## THURSDAY May 8, 2014

**08:30**  
**WELCOME ADDRESS**  
*Philip J. Sell, Leicester, UK, EUROSPINE President*

**08:35 – 10:00 Opening Session**  
**Chairs:** Haluk Berk, Izmir, TR; Philip J Sell, Leicester, UK

<table>
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<tr>
<th>Paper Number</th>
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| 1            | THE IMPACT OF SPINO-PELVIC ALIGNMENT ON THE OUTCOME OF PEDICLE        | Karin Eskilsson, Christer Johansson, Rune Hedlund  
               | SUBTRACTION OSTEOTOMY IN 104 PATIENTS                                | Department of Orthopaedics, Gothenburg, Sweden, Gothenburg, Sweden |
| 2            | ANALYSIS OF RISK FACTORS FOR EARLY ADJACENT SEGMENT DISEASE UNDERWENT | Jaewan Soh, Jae Chul Lee, Byung-Joon Shin  
               | REVISION SURGERY WITHIN 5 YEARS AFTER LUMBAR SPINAL FUSION            | Orthopaedic Surgery, Cheonan, Korea (ROK / South Korea) |
| 3            | SACRUM-ALONE CAUDAD FIXATION IN LONG-SEGMENT LUMBOSACRAL FUSION        | Mahmoud Alkharsawi, Mootaz Shousha, Hamdan Ahmed, Heinrich Boehm       
               | CONSTRUCTS: IS IT JUSTIFIABLE?                                        | Spine surgery department, Zentralklinik Badberka, Bad Berka, Germany |
| 4            | MINIMALLY INVASIVE SPINE SURGERY IT’S EFFECT ON PATIENT OUTCOMES IN THE | Donald Kucharzyk, Eric McCorkle, Dushan Budimir                       
               | TREATMENT OF DEGENERATIVE DISC DISEASE: A COMPARISON TO THE CLASSIC   | The Orthopaedic Pediatric & Spine Institute, Crown Point, USA         
               | OPEN APPROACH                                                         |                                                        |
| 5            | INCOMPLETE CORRECTION OF SAGITTAL SPINAL ALIGNMENT AFTER HIP FLEXION   | David Náhlík, Radek Hart, Martin Feranec, Martin Komzák               
               | CONTRACTURE TREATMENT WITH THR                                        | Dept. of Orthopaedics and Traumatology, Znojmo, Czech Republic       |
| 6            | RADIOGRAPHIC AND CLINICAL OUTCOME OF SILICATE-SUBSTITUTED CALCIUM       | Marjan Alimi, Karishma Parikh, Innocent Njoku, Christoph Hofstetter,   
               | PHOSPHATE (SI-CAP) CERAMIC BONE GRAFT REPLACEMENT IN SPINAL FUSION     | Apostolos Tsiouris, Avelino Parajon, Roger Härtl                      
               | PROCEDURES                                                            | Weill Cornell Brain and Spine Center, Department of Neurological       
               |                                                                     | Surgery, New York, USA                                               |
| 7            | 10 YEARS FOLLOW UP WITH MAVERICK TM TOTAL DISC ARTHROPLASTY: CLINICAL   | Alessio Lovi, Andrea Luca, Stephane Aunoble, Julien Rigal, Marco      
               | AND RADIOLOGICAL RESULTS.                                              | Brayda-Bruno, Jean Charles Le Huec                                  
               |                                                                     | Spine Surgery Department III, Milan, Italy                            |

**10:00-10:30 BREAK**
10:30 – 12:00 Degenerative Spondylolisthesis

Chairs: Thomas Blattert, Schwarzach, DE; Stavros Stavridis, Thessaloniki, GR

10:30 CASE PRESENTATION
Philip J Sell, Leicester, UK

10:40 SPINE TANGO
DEGENERATIVE SPONDYLOLISTHESIS: CHARACTERISTICS OF PATIENTS, TREATMENTS AND OUTCOMES
Anne Mannion, Zuerich, Switzerland, Member of the Spine Tango Committee

10:50 THE ROLE OF FUSION IN LUMBAR DEGENERATIVE SPONDYLOLISTHESIS. A PROPENSITY SCORE MATCHED COHORT OF 412 PATIENTS FROM THE NORWEGIAN REGISTRY FOR SPINE SURGERY
Ivar Austevoll, Rolf Gjestad, Kjersti Storheim, Erland Hermansen, Kari Indrekvam, Tore Solberg, Christian Hellem
Kysthospitalet I Hagevik, Haukeland University Hospital, Haukeland, Norway

10:50 EFFECT OF SAGITTAL BALANCE ON SHORT TERM CLINICAL RESULTS AFTER INSTRUMENTED INTERBODY FUSION FOR DEGENERATIVE SPONDYLOLISTHESIS
Rok Vengust, Matev Kuhta, Miha Vodjar
Dept. of Orthopedic Surgery, UMC, Ljubljana, Slovenia

10:50 DEVELOPMENT OF APPROPRIATENESS CRITERIA FOR THE SURGICAL TREATMENT OF SYMPTOMATIC LUMBAR DEGENERATIVE SPONDYLOLISTHESIS (LDS).
Francois Porchet, Valeri Pittet, Felix Steiger, John Paul Vader, Hans-Jürgen Becker, Anne F Mannion
Spine Center, Zürich, Switzerland

10:50 THE CORRELATION BETWEEN EXAGGERATED FLUID IN LUMBAR FACET JOINTS AND DEGENERATIVE SPONDYLOLISTHESIS: PROSPECTIVE STUDY OF 52 PATIENTS
Federico Mancini
Orthopedics and Traumatology University Tor Vergata, Monteporzio, Catone (Rome), Italy

10:50 COMPARISON OF FACET FUSION WITH PERCUTANEOUS PEDICLE SCREW FIXATION AND POSTEROLATERAL FUSION WITH CONVENTIONAL OPEN PEDICLE SCREW FIXATION IN DEGENERATIVE SPONDYLOLISTHESIS OF THE LUMBAR SPINE
Masatoshi Morimoto, Akihiro Nagamachi
Miroyo General Hospital, Kagawa, Japan

11:50 Review
A SUMMARY ‘LEVEL ONE’ EVIDENCE OF THIS TOPIC
Anne Mannion, Zurich, Switzerland

12:00-13:30 Sponsor Symposium

13:30 – 15:00 Lumbar Nerve Roots

Chairs: Everard Munting, Biez, BE; Frank Kandziora, Frankfurt, DE

13:30 SPINE TANGO
LUMBAR RADICULAR SURGERY: CHARACTERISTICS OF PATIENTS, TREATMENTS AND OUTCOMES
Anne Mannion, Zurich, Switzerland, Member of the Spine Tango Committee
13:40 13 24 MONTH SAFETY DATA FROM A PROSPECTIVE, RANDOMIZED CLINICAL TRIAL EVALUATING AN ANULAR CLOSURE DEVICE: AN INTERIM REVIEW
Adisa Kursumovic, Peter Douglas Klassen, Frederic Martens, Robert Hes, Anular Closure RCT Study Group, Gerrit Joan Bouma
Donausisar Klinikum Deggendorf, Deggendorf, Germany

14 14 FACTORS INFLUENCING THE OUTCOME OF SURGICAL TREATMENT OF LUMBAR DISC HERNIATION
Petr Vanek
Department of Neurosurgery, Charles University, 1st Faculty of Medicine, Central Military Hospital, Prague, Czech Republic

15 15 THE ROLE OF MATRIX DELAMINATION IN PROCESS OF INTERVERTEBRAL DISC DEGENERATION
Andrea Friedmann, Stefan Schwan, Andreas Heilmann, Felix Goehre, Hans-Joerg Meisel
Translational Centre of Regenerative Medicine TRM, University Leipzig, Leipzig, Germany

14:16 14:16 Debate: Surgery on Painless Footdrop
Moderator: Thomas Blattert, Schwarzach, Germany
Against: Phil J. Sell, Leicester, UK
For: Bernhard Meyer, Munich, Germany

15:00-15:30 15:00-15:30 BREAK

15:30 – 17:30 15:30 – 17:30 Safety and Complications
Chairs: Charles Greenough, Middlesbrough, UK, Martin Krbec Prague, CZ

15:30 16 Incidental Durotomy  A short case discussion and review of practice
Tim Pigott, Chair of the Spine Tango Committee, Liverpool, UK

15:45 17 Vascular injury  A short case discussion and review of practice
Frank Kandziora, Frankfurt, Germany

16:00 16 THE INCIDENCE OF VENOUS THROMBOEMBOLIC DISEASE FOLLOWING 827 ELECTIVE SPINAL PROCEDURES AT A DISTRICT GENERAL HOSPITAL
Shashank Chitgopkar, Peter Ralte, Seif Sawalha, Chris Prior, Veenesh Selvaratnam, Yuen Chan, Ian Shackleford
Trauma & Orthopaedics, Warrington, United Kingdom

17 POSTOPERATIVE MECHANICAL LUMBAR RADICULOPATHY CAUSED BY PEDICLE SCREWS WITH INTRAOPERATIVE NORMAL T-EMG THRESHOLDS. THE VALUE OF PROBE STIMULATION AT THE PEDICULAR MID-TRACK
Carlos Barrios, Jesús Burgos, Gema de Blas, Teresa del Olmo, Eduardo Hevia, Lidia Cabanes, Miguel Antón-Rodrígálvarez
Institute for Research on Musculoskeletal Disorders, Valencia Catholic University, Valencia, Spain

18 ASSESSMENT OF THE RELATIVE POSITION OF THE AORTA TO THE THORACIC SPINE IN SUPINE, PRONE & PRONE WITH PADDING POSITIONS
Orestis Karargyris, Nikos Plataniotis, Lambros Guiseppe Morassi, Abud Albarni, Spyros Koufos, Dimitrios Stergios Evangelopoulos, Spyros Pneumaticos
3rd Department of Orthopaedic Surgery, University of Athens, KAT Hospital, Athens, Greece

19 INCIDENCE OF PROCEDURE RELATED INTRA-OPERATIVE COMPLICATION IN LUMBAR SPINE SURGERY
Takayuki Ogawa, Tetsuki Morita, Yuiji Ogawa, Tadashi Katayama
Kaisei General Hospital, Kagawa, Japan
20 THE LOCAL APPLICATION OF VANCOMYCIN FOR THE PREVENTION OF LUMBAR SPINE WOUND INFECTION
David Náhlík, Radek Hart, Vojtech Procházka, Filip Bucek
Dept. of Orthopaedics and Traumatology, Znojmo, Czech Republic

17:00 Key Lecture: Counter Heroism in Theatre
Marc Barley, Consultant Anaesthetist, Queens Medical Centre Nottingham, UK

17:30 End of the scientific sessions
17:30 EUROSPINE General Assembly (Members only)
19:30 Official Congress Evening: Grand Cloister Restaurant (at own expense)

Friday, May 9, 2014

08:30 – 10.00 The Management of Resistant Back Pain
Chairs: Jörg Franke, Dortmund, DE, Petr Vanek, Prague, CZ

08:30 21 PREDICTIVE FACTORS FOR OUTCOME AFTER FUSION FOR DEGENERATIVE LUMBAR DISORDERS
Pavel Neumann, Christer Johansson, Joel Beck, Rune Hedlund
Department of Orthopaedics, Gothenburg, Sweden, Gothenburg, Sweden

09:18 Eminence Based Review: The Management of Difficult Back Pain
Introduction: Philip J Sell, Leicester, UK

09:20 Disc Replacement
Frank Kandziora, Frankfurt, DE

09:30 360° Fusion
Finn Christensen, Aarhus, DK

09:40 Posterolateral Fusion
Charles Greenough, Middlesbrough, UK
09:50 Combined Physical and Psychosocial Rehabilitation
John O'Dowd, London, UK

10:00-10:30 BREAK

10:30 – 12:00 Stenosis
Chairs: Finn Christensen, Aarhus, DK; Michael Ogon, Vienna, AT

10:30 EUROSPINE Scientific Programm: Evaluation, Feedback and Actions Taken
Thomas Blattert, Programme Committee Chair, Schwarzach, Germany

10:40 SPINE TANGO
SPINAL STENOSIS (WITHOUT DEGENERATIVE SPONDYLOLISTHESIS): CHARACTERISTICS OF PATIENTS, TREATMENTS AND OUTCOMES
Rolf Sobottke, Würselen, Germany, Member of the Spine Tango Committee

10:50 CASE PRESENTATION ON SPINAL STENOSIS
Michael Ogon, Vienna, Austria

11:00 25 MIDLINE PRESERVING LUMBAR DECOMPRESSIONS FOR LUMBAR CANAL STENOSIS
Yuen Chan, Rasheed Zakaria, Martin Wilby
Neurosurgery, Liverpool, United Kingdom

26 PREDICTORS OF LONG-TERM OUTCOME IN PATIENTS WITH LUMBAR SPINAL STENOSIS
Blanka Micankova Adamova, Stanislav Vohanka, Ladislav Dusek, Jiri Jarkovsky, Josef Bednarik
Department of Neurology, University Hospital and Masaryk University Brno, Brno, Czech Republic

27 LONG-TERM OUTCOMES IN PATIENTS WITH LUMBAR SPINAL STENOSIS
Stanislav Vohanka, Blanka Micankova Adamova, Ladislav Dusek, Jiri Jarkovsky, Josef Bednarik
Department of Neurology, University Hospital, Brno, Czech Republic

28 DO YOU NEED TO FUSE AT THE SAME TIME AS DECOMPRESSING A FACET JOINT CYST?
Andrew Young, Martyn Newey, Partha Basu
Northampton General Hospital, Northampton, United Kingdom

29 COULD LESS BE MORE WHEN ASSESSING PATIENT-RATED OUTCOME IN SPINAL STENOSIS?
Anne F Mannion, Tamas Fekete, Frank Kleinstueck, Dezsö Jeszenszky, Maria M Wertli, François Porchet
Spine Center, Zürich, Switzerland

30 A POSTERIOR ARTHROPLASTY SYSTEM FOR LUMBAR SPINAL STENOSIS: CLINICAL RESULTS AT 7 YEARS AFTER IMPLANTATION
Yoram Anekstein, Yizhar Floman, Yossi Smorgick, Yigal Mirovsky
Orthopaedic Surgery Assaf Harofeh Medical Center, Tel-Aviv, Israel

12:00-13:30 AOSpine Symposium – Pendulum swings – Where are we after the Hype with Interspineous Devices and BMP?
Lunch will be provided within the lecture room
Moderator: Bernhard Meyer, Munich, Germany
Interspineous devices – where do we stand?
13:30 – 15:00 Young Spine Specialists Session on Common Uncommon Topics
Chairs: Dominique A. Rothenfluh, Oxford, UK; Philip J Sell, Leicester, UK

13:30 Spondylolysis
Cagatay Ozturk, Istanbul, Turkey

13:45 Epidural Lipomatosis
Tamas Fekete, Zurich, Switzerland

14:00 Biomaterials
Dominique A. Rothenfluh, Oxford, UK

14:15 Cauda Equina
Alessio Lovi, Milan, Italy

14:30 Arteriovenous Malformations
Florian Ringel, Munich, Germany

Discussion

15:00-15:30 BREAK

15:30 – 17:00 Quick Fire – A Melange of Lumbar Research
Chairs: Ralph Kothe, Hamburg, DE; Invited Panel supporting

1. INTRAOPERATIVE DETERMINING OF PROTHESIS ENDPLATE LORDOTIC ANGULATION IN LUMBAR TOTAL DISC ARTHROPLASTY TO IMPROVE MOTION
Féthi Laouissat, Joël Delécrin
Orthopedic surgery - Nantes University Hospital, Nantes, France

2. RELIABILITY AND DIAGNOSTIC ACCURACY OF THE CLINICAL TESTS FOR LUMBAR INSTABILITY: A SYSTEMATIC REVIEW.
Silvano Ferrari, Tiziana Manni, Francesca Bonetti, Carla Vanti
University of Padua, Sesto San Giovanni MILANO, Italy

3. EFFICACY OF REDUCTION IN INSTRUMENTED POSTEROLATERAL FUSION OF LOW GRADE SPONDYLOLISTHESIS
Ebrahim Ghayem Hassankhani, Farzad Omid Khashani
Orthopeadic and Spine, Mashhad, Iran

4. MINIMALLY INVASIVE FORAMINOTOMY THROUGH TUBULAR RETRACTORS VIA A CONTRALATERAL APPROACH IN PATIENTS WITH UNILATERAL RADICULOPATHY
Marjan Alimi, Innocent Njoku, Guang-Ting Cong, Se Young Pyo, Christoph Hofstetter, Peter Grunert, Avelino Parajon, Roger Hartl
Weill Cornell Brain and Spine Center, Department of Neurological Surgery, New York, USA

5. STRUCTURAL PRESERVING PERCUTANEOUS ENDOSCOPIC LUMBAR INTERLAMINAR DISCECTOMY: LIGAMENTUM FLAVUM SPLITTING, FISSURE FRAGMENTECTOMY AND SEALING PROCEDURE
Hyeun Sung Kim, Changil Ju, Keun Soo Jang, Seok Won Kim
Neurosurgery, Daejeon-Si, Korea (RoK / South Korea)
6 SPONTANEOUS REDUCTION TECHNIQUE OF MODERATE TO HIGH GRADE SPONDYLOLISTHESIS VIA MINIMALLY INVASIVE, MINI-OPEN POSTERIOR LUMBAR INTERBODY FUSION
Hyeun Sung Kim, Changil Ju, Keun Soo Jang, Seok Won Kim
Neurosurgery, Daejeon-Si, Korea (RoK / South Korea)

7 INDIRECT FORAMINAL DECOMPRESSION FOLLOWING ANTERIOR LUMBAR INTERBODY FUSION (ALIF): A RADIOGRAPHIC STUDY USING A NEW PEDICLE TO PEDICLE (P-P) TECHNIQUE
Prashanth Rao, Monish Maharaj, Manil Abeygunasekara, Ralph Mobbs
Neurosurgery, Sydney, Australia

8 PROSPECTIVE ANALYSIS OF A NEW BONE GRAFT IN LUMBAR INTERBODY FUSION: RESULTS OF A 2-YEAR PROSPECTIVE CLINICAL AND RADIOLOGICAL STUDY
Philippe Lauweryns, Yannic Raskin
Orthopaedic Surgery, RZST Hospital, Sint- Truiden, Belgium

9 LONG-TERM RESULTS AFTER PLIF. A RETROSPECTIVE STUDY ON 103 CASES WITH A MEAN FOLLOW-UP OF 15 YEARS.
Ahmed Ezzat Siam, Heinrich Boehm, Hesham El Saghir, Hamdan Abdelrahman, Mahmoud Alkharsaw
Spinal Surgery, Bad Berka, Germany

10 TRABECULAR METAL (TM) CAGES IN PLIF FOR LUMBAR SPINE DISORDERS - RESULT OF A PROSPECTIVE STUDY
Mahmoud Elmalky, Susan Cadman, Ian Shackleford
Orthopedic, Warrington Hospital NHS trust, Warrington, United Kingdom

11 UTILIZATION OF A COMBINED NAVIGATION AND O-ARM®-SCANNER FOR POSTERIOR THORACOLUMBAR INSTRUMENTATION - IMPLICATIONS ON THE INTRAOPERATIVE CORRECTION RATE OF SCREW POSITIONS
Bernhard Mauersperger, Thomas Blattert, Horst Balling
Department for Spine Surgery and Traumatology, Schwarzach, Germany

12 COMPARISON OF VERTEBROPLASTY, KYPHOPLASTY AND NONSURGICAL MANAGEMENT OF VERTEBRAL COMPRESSION FRACTURES AND IMPACT ON U.S. HEALTHCARE RESOURCE UTILIZATION
Matthew Hazzard, Kevin Huang, Ulysses Toche, Beatrice Ugilweneza, Chirag Patil, Maxwell Boakye, Shivanand Lad
Duke University School of Medicine, Durham, USA

13 MRI ASSESSMENT OF FAT INFILTRATION AND ATROPHY OF THE LUMBAR MUSCLES AFTER ONE SINGLE LEVEL FUSION WITH TOPPING-OFF DYNAMIC STABILIZATION.
Carlos Barrios, Armando Maruenda, José I. Maruenda, Felipe Garibo
Institute for Research on Musculoskeletal Disorders, Valencia Catholic University, Valencia, Spain

14 PSOAS MUSCLE CHANGES ASSOCIATED WITH PRIMARY DEGENERATIVE LUMBAR SCOLIOSIS
Hamdan Abdelrahman, Kais Abu Nahleh, Motaz Shousha, Heinrich Boehm
Spine Surgery Department, Zentralklinik Bad Berka, Bad Berka, Germany

15 INFLUENCE OF LBP AND SPORT ON PERCEPTION OF PHYSICAL LOADS
Thierry Nicolet, Anne Mannion, Paul Heini, Christine Cedraschi, Federico Balagué
Rhumatologie, Fribourg, Switzerland

16 THE BIOMECHANICS OF THE CONUS MEDULLARIS SYNDROME
Kazuhiko Ichihara, Junji Ohgi, Itsuo Sakuramoto, Shun-ichi Kawano, Xian Chen, Toshihiko Taguchi
Japan Orthopedic Biomechanics Institute, Hofu, Yamaguchi, Japan

17:00 Closing Comments Philip J. Sell, EUROSPINE President