Wednesday, 11 October, 2017

08:30 OPENING
Local Hosts

08:33 WELCOME ADDRESS
EUROSPINE President

08:36 INTRODUCTION TO THE SCIENTIFIC PROGRAMME
The blinded peer review process of the Programme Committee
Stavros Stavridis, Thessaloniki, Greece, Chair Programme Committee 2017

08:40 – 10:00 Epidemiology, Non-operative Treatment, Patient Safety
Room: Plenary Hall

1 VALIDITY OF LUMBAR SPINAL STENOSIS OUTCOME MEASURES USED IN CLINICAL STUDIES: A SYSTEMATIC ANALYSIS OF RANDOMIZED AND OBSERVATIONAL CLINICAL TRIALS
Maria M. Wertli, Diego R. L. Rossi, Jakob M. Burgstaller, Eva Rasmussen-Barr, Sherri Weiser, Ulrike Held, Johann Steurer, Florian Brunner
1) Division of General Internal Medicine, Bern University Hospital, University of Bern, Bern, Switzerland; 2) Horten Centre, Zurich University, Zurich, Switzerland; 3) Institute of Environmental Medicine, Karolinska Institutet, Stockholm, Sweden; 4) NYU Langone Medical Center, Occupational and Industrial Orthopaedic Center (OIOC), New York University, New York, NY, USA; 5) Department of Physical Medicine and Rheumatology, Balgrist University Hospital, Zurich, Switzerland

2 THE ADULT DEFORMITY SURGERY COMPLEXITY INDEX (ADSCI): A VALID TOOL TO QUANTIFY THE COMPLEXITY OF POSTERIOR ADULT SPINAL DEFORMITY SURGERY AND PREDICT POSTOPERATIVE COMPLICATIONS
Ferran Pellisé, Alba Vila-Casademunt, Susana Núñez-Pereira, Montse Domingo-Sábat, Joan Bagó Granell, Xavier Vidal, Ahmet Alanay, Emre Acaroglu, Frank Kleinstück, Ibrahim Obeid; Francisco Javier Perez-Grueso; Virginie Lafage; Shay Bess; Christopher Ames; Anne F. Mannion; ESSGVall d’Hebron Hospital, Barcelona, Spain; Vall d’Hebron Institute of Research, Barcelona, Spain; St. Franziskus-Hospital, Köln, Germany; Acibadem University School of Medicine, Istanbul, Turkey; Ankara Spine Center, Ankara, Turkey; Schulthess Klinik, Zürich, Switzerland; Bordeaux University Hospital, Bordeaux, France; Hospital Universitario La Paz, Madrid, Spain; Hospital for Special Surgery, New York City, USA; Presbyterian/St. Luke’s Medical Center, Denver, USA; USCF Medical Center, San Francisco, USA
3 PATIENT REPORTED OUTCOMES OF LUMBAR DECOMPRESSION SURGERY: A STUDY OF 2,838 PATIENTS
Sujay Dheerendra, Geraint Sunderland, Robin Pillay
Dept of Neurosurgery, Liverpool, UK

4 WHAT DO PATIENTS WITH SPINE PAIN LEARN FROM PSYCHOLOGICALLY INFORMED PHYSICAL THERAPY?
Sherri Weiser*, Angela Lis*, Tara Brennan*, Gregg Ziemke**, Rudi Hiebert**, Danielle Faulkner**, Brian Iveson***, Danielle Southerst*, Marco Campello*
* Occupational and Industrial Orthopedics Center, New York University Hospital for Joint Diseases, New York, NY; **BADER Consortium, University of Delaware, Newark, DE; ***Department of Physical Therapy, Naval Medical Center Portsmouth, Norfolk VA, USA

5 INCIDENCE OF MATERIAL FAILURE OF DYNAMIC SPINE IMPLANTS. ARE IMPLANT TESTS BEFORE MARKET LAUNCH IN EUROPE SUFFICIENT?
Stavros Oikonomidis, Thomas Kaulhausen, Kourosh Zarghooni, Jan Slewe, Rolf Sobottke
Center of Traumatology and Orthopedics, City Region of Aachen, Germany

6 BRACING FOR ADOLESCENT IDIOPATHIC SCOLIOSIS (AIS) AND SCHEUERMANN KYPHOSIS: THE ISSUE OF OVERTREATMENT IN GREECE
Nikos Karavidas
Schroth Scoliosis & Spine Clinic, Athens, Greece

7 POSTOPERATIVE BACK-SPECIFIC AND AEROBIC TRAINING DOES NOT IMPROVE TRUNK MUSCLE STRENGTH AND IMBALANCE AFTER LUMBAR SPINE FUSION - A RANDOMIZED CONTROLLED TRIAL
Outi Ilves 1, Marko H. Neva 2, Keijo Häkkinen 1, Joost Dekker 3, Salme Järvenpää 4, Kati Kyrölä 5, Arja Häkkinen 6
1) Faculty of Sports and Health Sciences University of Jyväskylä, Finland; 2) Department of Orthopaedics and Trauma Tampere University Hospital, Tampere, Finland; 3) Department of Rehabilitation Medicine and Department of Psychiatry, VU University Medical Center, Amsterdam, the Netherlands; 4) Department of Physical Medicine and Rehabilitation, Central Finland Health Care District, Jyväskylä, Finland; 5) Department of Orthopaedics and Trauma, Central Finland Health Care District, Jyväskylä, Finland; 6) Department of Physical Medicine and Rehabilitation, Central Finland Health Care District; Faculty of Sports and Health Sciences University of Jyväskylä, Finland

8 PROGNOSTIC FACTORS FOR PREGNANCY-RELATED PELVIC GIRDLE PAIN IN FIRST-TIME MOTHERS IN IRELAND
Francesca Wuytack, Deirdre Daly, Elizabeth Curtis, Cecily Begley
Trinity College Dublin, Ireland

10:00-10:30 BREAK

10:30 – 12:00 Debates
Room: Plenary Hall

10:30 Debate 1: To Screen or Not to Screen for Psychological Distress

11:15 Debate 2: To Fuse or Not to Fuse to Reduce Disability
12:00-14:00  EUROSPINE LUNCH SYMPOSIA, Wednesday

12:00  EUROSPINE LUNCH SYMPOSIUM 1
Liffey Hall 2
CSRS-Europe Lunch Symposium

12:00  EUROSPINE LUNCH SYMPOSIUM 2
Wicklow Hall 1
PIP: Psychologically Informed Practice

14:00 – 15:20  CONCURRENT SESSIONS
QUICK FIRES - SHORT COMMUNICATIONS

14:00  Deformity / Growing Spine
Plenary Hall

QF1  MINIMAL CLINICALLY IMPORTANT DIFFERENCE (MCID) FOR CPCHILD QUESTIONNAIRE FOLLOWING SCOLIOSIS SURGERY IN CEREBRAL PALSY
Luigi Aurelio Nasto, Firoz Miyanji, Paul Sponseller, Tracey Bastrom, Suken Shah, Amer Samdani, Harry Shuffiebarger, Burt Yasay
BC Children’s Hospital, Department of Orthopaedic Surgery, Vancouver, BC, Canada

QF2  RADIATION EXPOSURE DURING THE COURSE OF TREATMENT FOR EARLY-ONSET SCOLIOSIS—LONGITUDINAL PILOT STUDY
En Xie, Dingjun Hao
Hong–Hui Hospital, Xi’an Jiaotong University College of Medicine, Xi’an, Shaanxi, China

QF3  WHERE IS THE AXIS OF ROTATION IN THORACIC IDIOPATHIC SCOLIOSIS?
Rob Brink, Tom Schlösser, Marijn vanStralen, Koen Vincken, Moyo Kruyt, Lin Shi, Winnie Chu, René Castelein, Jack Cheng
Dept of Orthopaedic Surgery, University Medical Center Utrecht, The Netherlands

QF4  THE EFFICACY OF SERIAL CORRECTIVE CASTING FOR THE COMPENSATORY CURVE OF CONGENITAL SCOLIOSIS
Shimei Tanida, Bungo Otsuki, Shunsuke Fujibayashi, Shuichi Matsuda, Noriaki Kawakami
Department of Orthopaedic Surgery, Graduate School of Medicine, Kyoto University

QF5  DOES PROXIMAL HOOK FIXATION PREVENT MID-TERM PROXIMAL JUNCTIONAL KYPHOSIS IN PATIENTS OPERATED FOR ADOLESCENT IDIOPATHIC SCOLIOSIS?
Felipe Rioseco, Alejandro Gomez-Rice, Javier Pizones, Felisa Sánchez-Mariscal, Jose Miguel Sánchez-Marquez, Mar Pérez Martín-Buitrago, Lorenzo Zúñiga, Nicomedes Fernández-Baillo, Francisco Javier Pérez-Grueso, Enrique Izquierdo
Hospital Universitario La Paz, Hospital Universitario de Getafe, Madrid, Spain

QF6  EXTREME CORONAL CORRECTION AND AXIAL DEROTATION PROMPT TO POST-OPERATIVE SHOULDER IMBALANCE IN IMMATURE AIS PATIENTS
Vicente García, Jesús Burgos, Carlos Barrios, Miguel Antón, Eduardo Hevia, Ignacio Sanpera, Gabriel Pizá, Miguel Castro
Dept of Orthopaedic Surgery, Hospital Mancha Centro. Alcázar de San Juan, Ciudad Real; Hospital Ramón y Cajal, Madrid; Universidad Católica De Valencia, Valencia; Hospital Ramón Y Cajal, Madrid, España; Hospital Central La Fraternidad-Muprespa, Madrid; Hospital Universitari Son Espases, Islas Baleares; Hospital Son Espases, Palma De Mallorca, Islas Baleares; Hospital Materno Infantil Teresa Herrera. La Coruña, Spain

QF7  THE OUTCOME OF VARIOUS SURGICAL TREATMENTS OF SPINAL STENOSIS IN ACHONDROPLASIA: A SYSTEMATIC REVIEW
Zaid Abual-Rub, Jennifer Campbell, Ghulam Abbas, Almas Khan
Leeds General Infirmary, Leeds, UK
QF8 THORACOLUMBAR ADULT SCOLIOSIS PATIENTS: TWO-YEAR SURGICAL RESULTS OF A PROSPECTIVE COHORT
Javier Pizones, Mar Pérez Martín-Buitrago, Francisco Javier Sánchez Pérez-Grueso, Mariana Díaz-Almirón, Ahmet Alanay, Ibrahim Obeid, Emre Acaroglu, Frank Kleinstueck, Ferran Pellisé, European Spine Study Group ESSG
Hospital Universitario La Paz, Madrid, Spain

QF9 IMPACT OF THREE COLUMN OSTEOTOMY ON HEALTH RELATED QUALITY OF LIFE MEASURES IN PATIENTS WITH ADULT SPINAL DEFORMITY: A SYSTEMATIC REVIEW AND META-ANALYSIS
Muralidharn Venkatesan, Jagdeep Atwal, Dritan Pasku, Sarang Sapare, Nasir Quraishi
The Centre for Spinal Studies and Surgery, Nottingham, UK

QF10 IMPACT OF EARLY MAJOR RESOLVED COMPLICATIONS ON TWO-YEAR FOLLOW-UP OUTCOME FOLLOWING ADULT SPINAL DEFORMITY SURGERY
Susana Núñez-Pereira, Alba Vila-Casademunt, Montse Domingo-Sábad, Sleiman Haddad, Ibrahim Obeid, Ahmet Alanay, Emre Acaroglu, Francisco Sánchez Pérez-Grueso, Frank Kleinstück, Ferran Pellisé, 11th author: European Spine Study Group ESSG
Vall d'Hebron Research Institute, Barcelona, Spain

QF11 IMPACT OF ILIAC INSTRUMENTATION ON THE QUALITY OF LIFE OF PATIENTS WITH ADULT SPINE DEFORMITY
Mar Pérez Martín-Buitrago, Javier Pizones, Francisco Javier Sánchez Pérez-Grueso, Mariana Díaz-Almirón, Emre Acaroglu, Ibrahim Obeid, Frank Kleinstueck, Ahmet Alanay, Ferrán Pellissé, European Spine Study Group ESSG
Hospital Universitario La Paz, Madrid, Spain

QF12 PREDICTIVE MODELS TO AID SURGICAL DECISION-MAKING FOR THORACOLUMBAR ADULT SCOLIOSIS
Javier Pizones, Mar Pérez Martín-Buitrago, Francisco Javier Sánchez Pérez-Grueso, Mariana Díaz-Almirón, Ahmet Alanay, Ibrahim Obeid, Emre Acaroglu, Frank Kleinstueck, Ferrán Pellissé, European Spine Study Group ESSG
Hospital universitario La Paz, Madrid, Spain

QF13 GLOBAL ALIGNMENT AND PROPORTION (GAP) SCORE: DEVELOPMENT AND VALIDATION OF A NEW METHOD OF ANALYZING SPINOPELVIC ALIGNMENT TO PREDICT MECHANICAL COMPLICATIONS AFTER ADULT SPINAL DEFORMITY SURGERY
Caglar Yilgor, Nuray Sogunmez, Yasemin Yavuz, Ibrahim Obeid, Frank S. Kleinstueck, Francisco Javier Sanchez Perez-Grueso, Emre R. Acaroglu, Ferran Pellissé, Ahmet Alanay, ESSG European Spine Study Group
School of Medicine, Acibadem University, Istanbul, Turkey

QF14 RELATIVE PELVIC VERSION (RPV): A NEW PI-BASED PROPORTIONAL PARAMETER THAT QUANTIFIES PELVIC VERSION MORE PRECISELY COMPARED TO PT
Caglar Yilgor, Nuray Sogunmez, Yasemin Yavuz, Ibrahim Obeid, Frank S. Kleinstueck, Francisco Javier Sanchez Perez-Grueso, Emre R. Acaroglu, Ferran Pellissé, Ahmet Alanay, ESSG European Spine Study Group
School of Medicine, Acibadem University, Istanbul, Turkey

14:00 Basic Science
Wicklow Hall 1

14:00 Degenerative Spine
Liffey Hall 2

15:20-15:50 BREAK
<table>
<thead>
<tr>
<th>Session</th>
<th>Title</th>
<th>Authors</th>
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<tr>
<td>15:50–17:30</td>
<td><strong>Adult Deformity, Complications</strong></td>
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<td>Room: Plenary Hall</td>
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<td>9</td>
<td>ALTERATIONS IN ACETABULAR ORIENTATION AND HIP MORPHOLOGY IN SUBJECTS WITH ADULT SPINAL DEFORMITY</td>
<td>Ayman Assi, Ziad Bakouny, Nour Khalil, Fares Yared, Joeffroy Otayek, Aren Joe Bizdikian, Mohammad Karam, Joe Ghanimeh, Chris Labaki, Virginie Lafage, Ismat Ghanem, Gaby Kreichati, Wafa Skalli, Khalil Kharrat</td>
<td>1. Laboratory of Biomechanics and Medical Imaging, Faculty of Medicine, University of Saint-Joseph, Beirut, Lebanon; 2. Institut de Biomécanique Humaine Georges Charpak, Arts et Métiers, ParisTech, Paris, France; 3. Spine division, Hospital for Special Surgery, New York, USA</td>
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<td>10</td>
<td>POSTURAL CONSEQUENCES OF L4-SACRUM FUSION IN ACCOMMODATING POST-FUSION SITTING POSTURE: A RADIOGRAPHIC DATA-BASED SIMULATION MODEL</td>
<td>Avinash Patwardhan, Saeed Khayatzadeh, Jean-Charles Le Huec, Antonio Faundez, Robert Havey, Leonard Voronov, Michael Zindrick, Alexander Ghanayem</td>
<td>Department of Orthopaedic Surgery and Rehabilitation, Loyola University Chicago, Maywood, IL, USA</td>
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<td>11</td>
<td>RELATIONSHIP BETWEEN SPINAL DEFORMITY IN THE AXIAL PLANE AND THE CORONAL COBB ANGLE IN ADOLESCENT IDIOPATHIC SCOLIOSIS</td>
<td>Ayman Assi, Mohammad Karam, Ziad Bakouny, Joeffroy Otayek, Gerard Bakhos, Cyril Hanna, Anthony Kassab, Virginie Lafage, Wafa Skalli, Abir Massaad, Ismat Ghanem</td>
<td>1. Laboratory of Biomechanics and Medical Imaging, Faculty of Medicine, University of Saint-Joseph, Beirut, Lebanon; 2. Institut de Biomécanique Humaine Georges Charpak, Arts et Métiers, ParisTech, Paris, France; 3. Spine division, Hospital for Special Surgery, New York, USA</td>
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<td>12</td>
<td>ADULT SPINAL DEFORMITY PATIENTS HAVE DIFFERENT AGE-DEPENDENT SAGITTAL PARAMETERS TO PREDICT PATIENT-REPORTED OUTCOMES</td>
<td>Yong-Chan Kim, Cheung-Kue Kim, Hyung-Suk Juh, Tae-Hwan Kim, Ho-Guen Chang, Young-Woo Kim, Jae-Hyuk Shin</td>
<td>Department of Orthopaedic Surgery, Kyung Hee University Hospital at Gangdong, Seoul, Korea</td>
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<td>13</td>
<td>A SINGLE SAGITTAL PARAMETER FOR DECISION MAKING IN ASD?</td>
<td>Louis Boissière, Caglar Yilgor, Daniel Larrieu, Anouar Bourghli, Derek Cawley, Takashi Fujishiro, Emre Acaroglu, Frank Kleinstueck, Francisco Javier Perez-Grueso, Ferran Pellisé, Jean-Marc Vital; Olivier Gille; Ahmed Alanay; Ibrahim Obeid; ESSG European Spine Study Group</td>
<td>Spine Unit 1, CHU Pellegrin, Bordeaux University Hospital, France</td>
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<td>14</td>
<td>THE APPROPRIATE SAGITTAL PLANE CORRECTION TO INDIVIDUALIZED PROPORTIONATE SHAPE AND ALIGNMENT DOES NOT NECESSARILY MEAN MORE COMPLEX SURGERY IN ADULT SPINAL DEFORMITY</td>
<td>Caglar Yilgor, Nuray Sogunmez, Yasemin Yavuz, Ibrahim Obeid, Frank S. Kleinstueck, Francisco Javier Sanchez Perez-Grueso, Emre R. Acaroglu, Ferran Pellisé, Ahmet Alanay, ESSG European Spine Study Group</td>
<td>School of Medicine, Acibadem University, Istanbul, Turkey</td>
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15 SAGITTAL REALIGNMENT GOALS SHOULD BE SET TO IDEAL PROPORTIONATE SHAPE AND ALIGNMENT INDEPENDENT OF AGE
Caglar Yilgor, Nuray Sogunmez, Yasemin Yavuz, Ibrahim Obeid, Frank S. Kleinstueck, Francisco Javier Sanchez Perez-Grueso, Emre R. Acaroglu, Ferran Pellisé, Ahmet Alanay, ESSG European Spine Study Group
School of Medicine, Acibadem University, Istanbul, Turkey

16 GLOBAL ALIGNMENT AND PROPORTION (GAP) SCORE BETTER CORRELATES TO HRQOL SCORES AND BETTER PREDICTS MECHANICAL COMPLICATIONS COMPARED TO SCHWAB SAGITTAL MODIFIERS
Caglar Yilgor, Nuray Sogunmez, Yasemin Yavuz, Ibrahim Obeid, Frank S. Kleinstueck, Francisco Javier Sanchez Perez-Grueso, Emre R. Acaroglu, Ferran Pellisé, Ahmet Alanay, ESSG European Spine Study Group
School of Medicine, Acibadem University, Istanbul, Turkey

17 ANTEROLATERAL VERSUS POSTERIOR-ONLY APPROACH FOR THE CORRECTION OF DEGENERATIVE ADULT SPINAL DEFORMITY
- 1: 2 MATCHED COHORT ANALYSIS OF 90 PATIENTS -
Se-Jun Park, Chong-Suh Lee, Sung-Soo Chung, Kyung-Joon Lee, Chan-Duk Park, Dong-Uk Kim, Jin-Sung Park
Dept of Orthopedic Surgery, Samsung Medical Center, Seoul, Korea

18 DISABILITY 2 YEARS AFTER SURGERY FOR ADULT SPINAL DEFORMITY (ASD) CAN BE RELIABLY PREDICTED AT 6 MONTHS' FOLLOW-UP
Miquel Serra, Ferran Pellisé, Susana Núñez-Pereira, Montse Domingo-Sàbat, Alba Vila-Casademunt, Ibrahim Obeid, Ahmet Alanay, Emre Acaroglu, Frank Kleinstück, Francisco Sánchez Pérez-Grueso, Anne F Mannion, European Spine Study Group (ESSG)
Centre for Research in Health and Economics (CRES), Barcelona, Spain; Hospital Universitari Vall Hebron, Barcelona, Spain; St. Franziskus-Hospital, Köln, Germany; Vall Hebron Institute of Research, Barcelona, Spain; Bordeaux University Hospital, Bordeaux, France; Acibadem University School of Medicine, Istanbul, Turkey; Ankara Spine Center, Ankara, Turkey; Schulthess Klinik, Zürich, Switzerland; Hospital Universitario La Paz, Madrid, Spain

19 THE IMPACT OF DEEP SURGICAL SITE INFECTION ON SURGICAL OUTCOMES IN ADULT PATIENTS UNDERGOING POSTERIOR FUSION FOR DEFORMITY CORRECTION: A MATCHED CONTROL STUDY
Spine Surgery Unit, Vall D'Hebron University Hospital, Barcelona, Spain

20 “AFTER-HOURS” EMERGENT SPINE SURGERY: PERHAPS WE SHOULD THINK TWICE?
Raphaële Charest-Morin*, Michael Bond, Alana Flexman, Tamir Ailon**, Charles G. Fisher, Marcel Dvorak, Nicolas Dea, Brian Kwon, Scott Paquette, John T. Street Combined Neurosurgical and Orthopedic Spine Program, Department of Orthopedic Surgery, University of British Columbia, Vancouver, British Columbia, Canada; *Dept Orthopaedic Surgery, Centre hospitalier Universitaire de Québec, Québec, Québec, Canada; **Dept of Anesthesiology, Pharmacology and Therapeutics. University of British Columbia, British Columbia, Canada

17:30 – 18:30 WELCOME RECEPTION
Exhibition Area
Thursday, 12 October, 2017

08:30 – 10:00 Degenerative Spine
Room: Plenary Hall

21 INCIDENCE AND INFLUENCE OF DEPRESSION AND ANXIETY ON CLINICAL OUTCOME BEFORE AND ONE YEAR AFTER SPINE SURGERY FOR DEGENERATIVE DISC DISEASE
Ehab Shiban, Youssef Shiban, Bernhard Meyer
Department of Neurosurgery, Technical University Munich, Germany

23 A PROGNOSTIC MODEL OF THE OUTCOME OF SURGERY FOR DISC HERNIATION
Emin Aghayev, Lukas Staub, Frank Kleinstück, Daniel Haschtmann, Tamas Fekete, Francois Porchet, Anne Mannion
University of Bern, Bern, Switzerland

24 TIMING OF PATIENT-RATED FOLLOW-UP AFTER SURGERY FOR DEGENERATIVE LUMBAR DISORDERS
Tamas F Fekete, Daniel Haschtmann, Hans-Juergen Becker, Frank Kleinstueck, Dezsoe Jeszenszky, Peter Banczerowski*, Anne F Mannion
Schulthess Clinic, Spine Center, Zürich, Switzerland; *National Institute of Clinical Neurosciences, Hungary

25 LUMBAR MICRODISCECTOMY FOR SCIATICA IN TOBACCO SMOKERS: A MULTICENTER OBSERVATIONAL STUDY
Mattis Madsbu, Øystein Nygaard, Tore Solberg, Clemens Weber, Øyvind Salvesen, Eric Franssen, David Werner, Sasha Gulati
Dept of Neurosurgery, St. Olavs Hospital, Trondheim, Norway

26 SURGICAL DECOMPRESSION FOR FORAMINAL AND EXTRAFORAMINAL LUMBAR DISC HERNIATION USING THE FAR-LATERAL APPROACH: PATIENT-RATED OUTCOME DEPENDS ON THE INVOLVED SEGMENT
Daniel Haschtmann, Anne F. Mannion, Markus Loibl, Francois Porchet, Frank Kleinstück, Dezső Jeszenszky, Tamas Fekete
Schulthess Clinic, Zurich, Switzerland

27 CLINICAL RELEVANCE OF A NEW CLASSIFICATION SYSTEM FOR DEGENERATIVE SPONDYLOLISTHESIS OF THE LUMBAR SPINE
Olivier GILLE, Soufiane GHAILANE, Mathias BLANGIS, Camille DAMADE, Thibault CLOCHE, Jean-marc VITAL
SPINE UNIT 1 - Bordeaux University hospital, Service Pr GILLE, Bordeaux, France

28 INFLUENCE OF POSTURE ON PELVIC AND LUMBAR PARAMETERS: COMPARISON BETWEEN THE STANDING, SITTING AND SUPINE POSITIONS. A PRELIMINARY STUDY.
Olivier Gille, Thomas Chevillotte, Derek T Cawley, Houssam Bouloussa, Simon Mazas, Soufiane Ghailane, Marion Petit, Louis Boissière, Ibrahim Obeid, Jean Marc Vital
Institut de la Colonne Vertébrale Bordeaux, France
MINIMALLY INVASIVE VERSUS OPEN TRANSFORAMINAL LUMBAR INTERBODY FUSION: A PROSPECTIVE RANDOMIZED STUDY
Gabriel Tender, Anthony DiGiorgio
Louisiana State University, New Orleans, USA

COMPARISON OF MINIMAL INVASIVE AND OPEN TRANSFORAMINAL LUMBAR INTERBODY FUSION IN THE TREATMENT OF SINGLE LEVEL LUMBAR SPINE DEGENERATIVE DISEASES WITH MINIMUM 6-YEAR FOLLOW-UP
Dingjun Hao, Biao Wang, Hua Guo, Xiaodong Wang
Honghui Hospital, Xi’an Jiaotong University College of Medicine, Xi’an, China

COMPARING INTERLAMINAR STABILIZATION WITH DECOMPRESSION VERSUS FUSION WITH DECOMPRESSION IN REGARDS TO ADJACENT SEGMENT DISEASES
Christina Dowe, Samuel Grinberg, Rachel Simon, Frank Cammisa, Celeste Abjornson
Hospital for Special Surgery, New York, NY, USA

10:00-10:30 BREAK

10:30 – 12:00 Presidential Address, Medal and Awards Lectures
Room: Plenary Hall

12:00-14:00 EUROSPINE LUNCH SYMPOSIUM, Thursday

12:00 EUROSPINE LUNCH SYMPOSIUM 3
Wicklow Hall 1
Challenges in the Management of Neuromuscular Spinal Deformities

12:00 EUROSPINE LUNCH SYMPOSIUM 4
Liffey Hall 2
Fast Track in Lumbar Spine Surgery

14:00 – 15:20 Growing Spine, Diagnostics
Room: Plenary Hall

DO LUMBAR ORTHOSES AFFECT THE MUSCULAR REGENERATION AFTER POSTERIOR LUMBAR FUSION? A RANDOMIZED CONTROLLED TRAIL TO PROOF A DIFFERENCE IN MUSCLE REGENERATION WITH SURFACE ELECTROMYOGRAPHY
Yorck Rommelspacher, Jana Ziob, Hannah Bode, Charlotte Struwe, Rahel Bornemann, Andreas Strauss, Dieter Christian Wirtz, Robert Pflugmacher
Dept of Orthopedics and Trauma surgery, University Hospital Bonn, Germany
33 PULMONARY CEMENT EMBOLISM FOLLOWING CEMENT AUGMENTED FENESTRATED PEDICLE SCREW FIXATION IN ADULT SPINAL DEFORMITY PATIENTS WITH SEVERE OSTEOPOROSIS (ANALYSIS OF 2978 FENESTRATED SCREWS)
Meric Enercan, Isik Karalok, Emel Kaya, Onur Levent Ulusoy, Gokce Feride Inan, Cem Sever, Tunay Sanli, Sinan Kahraman, Selhan Karaderele, Azmi Hamzaoglu
Istanbul Spine Center, Istanbul, Turkey

34 SAGITTAL ALIGNMENT REFERENCE PARAMETERS WITH A SLOT-SCANNING 3D X-RAY IMAGER: REPRODUCIBILITY
Jean charles Le Huec, Kenichiro Sakai, Masashi Okamoto, Shun Hatsushikano, Fouad Jabbour, Kazu Hazegawa
Bordeaux University Hospital, Orthorachis 2 Department, CHU Pellegrin, Bordeaux, France

35 OVERESTIMATION OF PAPERS WITH POOR LEVEL OF EVIDENCE AMONG THE TOP-100 MOST INFLUENTIAL STUDIES ON IDIOPATHIC SCOLIOSIS. A BIBLIOMETRIC ANALYSIS
Carlos Barrios, Joel Gambin, Joaquín Alfonso
Valencia Catholic University, Valencia, Spain

36 THE INCREASED ACTIVITY OF THE END PLATE OF THE VERTEBRAL BODIES AFTER SURGICAL CORRECTION OF SCHEUERMANN’S DISEASE.
Michal Latalski, Marek Fatyga, Anna Danielewicz Bromberek
Children Orthopedic Department. Lublin, Poland

37 GROWTH VELOCITY OF FUSED SPINAL SEGMENT IN CHILDREN AFTER VERTEBRAL BODY RESECTION IN THE THORACOLUMBAR AND LUMBAR SPINE
Nikita Khusainov, Sergey Vissarionov, Dmitry Kokushin
Department of Spine pathology and Neurosurgery, Turners scientific research institute for pediatric orthopedics, Russia

38 SEVERE HYPERKYPHOSIS HARMs AEROBIC CAPACITY AND MAXIMAL EXERCISE TOLERANCE IN PATIENTS WITH SCHEUERMANN DISEASE
Alejandro Lorente, Jesús Burgos, Carlos Barrios, Rocío Tamariz, Eduardo Hevia, Luis Miguel Antón, Rafael Lorente
Dept of Orthopaedic Surgery, Madrid, Spain

39 CONGENITAL CERVICOTHORACIC SCOLIOSIS WITH HEMIVERTEBRA: INDICATED FOR POSTERIOR RESECTION
Yong Qiu, Zhonghui Chen, Xu Sun
Spine Surgery, Drum Tower Hospital of Nanjing University Medical School, Nanjing, China

40 HORIZONTALIZATION OF LIV: CRUCIAL TO PREVENT CORONAL DECOMPENSATION AFTER HEMIVERTEBRA RESECTION AND SHORT FUSION IN PATIENTS YOUNGER THAN 5 YEARS OLD?
Xu Sun, Song Li, Yong Qiu
Department of Spine Surgery, the Affiliated Drum Tower Hospital of Nanjing University Medical School, Nanjing, China
# Assessing Health Related Quality of Life (HRQOL) in Cerebral Palsy (CP) Following Scoliosis Surgery: Is the CP Child Measuring What We Want?

Luigi Aurelio Nasto, Firoz Miyanji, Tracey Bastrom, Paul Sponseller, Suken Shah, Amer Samdani, Randal Betz, Harry Shufflebarger, Michelle Marks, Baron Lonner  
BC Children's Hospital, Department of Orthopaedic Surgery, Vancouver, Canada

## 15:20-15:50  Break

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## 15:50 – 17:05  Cervical Spine

**Room: Plenary Hall**

### 41  Comparision of Posterior Fossa Decompression with and Without Duraplasty for the Treatment of Chiari I Malformation: A Prospective Investigation

Zezhang Zhu, Enze Jiang, Zhen Liu, Bin Wang, Yang Yu, Yong Qiu  
Spine Surgery, Drum Tower Hospital of Nanjing University Medical School, Nanjing, China

### 42  Neck Pain Association with Modic Changes of the Cervical Spine, Prevalence, Risk Factors, and Disc Degeneration: A Cross-Sectional, Large-Scale Population-Based Study

En Xie, Dingjun Hao  
Hong–Hui Hospital, Xi'an Jiaotong University College of Medicine, Xi'an, Shaanxi, China

### 43  Strategies for Maintaining Horizontal Gaze in Asymptomatic Subjects

Ayman Assi, Ziad Bakouny, Nour Khalil, Michel Salameh, Naji Bou Zeid, Fares Yared, Joeffrey Otayek, Aren Joe Bizdikian, Renaud Lafage, Virginie Lafage, Ismat Ghanem, Wafa Skalli, Khalil Kharrat, Gaby Kreichati  
Laboratory of Biomechanics and Medical Imaging, Faculty of Medicine, University of Saint-Joseph, Beirut, Lebanon

### 44  Patients Beliefs About Diagnosis and Treatment of Cervical Spondylosis

Clemens Weber, Maziar Behbahani, Roald Baardsen, Jens Lehmberg, Bernhard Meyer, Ehab Shiban  
Dept. of Neurosurgery, Stavanger, Norway

### 45  Surgical Outcome of Elderly Patients Over 80 Years with Cervical Spondylotic Myelopathy

Norihito Isogai, Narihito Nagoshi, Junichi Yamane, Akio Iwanami, Hitoshi Kono, Yoshiomi Kobayashi, Nobuyuki Fujita, Mitsuru Yagi, Kota Watanabe, Kazuya Kitamura, Yuta Shiono, Masaya Nakamura, Morio Matsumoto, Ken Ishii  
Spine and Spinal Cord Center, Mita Hospital, International University of Health and Welfare, Tokyo Japan

### 46  Rapidly Progressive Neurological Deterioration in Cervical Spondylotic Myelopathy with Cervical Intramedullary High-Intensity Area and History of Cardiovascular Event

Eiji Takasawa, Yasunori Sorimachi, Yoichi Iizuka, Haku Iizuka, Hirotaka Chikuda
Department of Orthopedic Surgery, Japanese Red Cross Maebashi Hospital, Maebashi, Japan; Department of Orthopedic Surgery, Gunma University Graduate School of Medicine, Maebashi, Japan

48 PREVALENCE, PROGRESSION, AND CLINICAL IMPLICATIONS OF HETEROOTOPIC OSSIFICATION AFTER CERVICAL DISC ARTHROPLASTY AT 7 YEARS
Jacques Beaurain, Pierce Nunley
Neurosurgery Department, University Hospital, Dijon, France

49 MORTALITY, COMPLICATION AND FUSION RATES OF PATIENTS WITH ODONTOID FRACTURE
Yann Philippe Charles, Benjamin Blondel, Stéphane Fuentes, Jérémy Allia, Sébastien Schuller, Joël Godard, Paulo Marinho, Eurico Freitas, Julien Berthiller, Cédric Barrey
Société Française de Chirurgie Rachidienne (SFCR) Strasbourg, France

50 COMPARISON OF THREE-DIMENSIONAL HELICAL AXES OF THE CERVICAL SPINE BETWEEN IN VITRO AND IN VIVO TESTING
René Jonas, Robert Demmelmaier, Steffen Paul Hacker, Hans-Joachim Wilke
Institute of Orthopaedic Research and Biomechanics

17:10 EUROSPIE NEW MEMBER COCKTAIL AND GENERAL ASSEMBLY
Members only

20:00 OFFICIAL CONGRESS EVENING
NETWORK EXPERIENCE @ GUINNESS STOREHOUSE
(At own expense)
Attire: business/formal

Friday, 13 October, 2017

08:30 – 10:00 Trauma, Tumor, Infection and Degenerative Lumbar Spine
Plenary Hall

51 ANALYSIS OF DYNAMIC FACTORS IN PATIENTS WITH THORACIC SPONDYLOTIC MYELOPATHY
Norimitsu Wakao, Mikinobu Takeuchi, Mitsuhiro Kamiya, Atsuhiko Hirasawa, Masakazu Takayasu, Masataka Deie
Spine Center, Aichi, Japan

52 CONSTRUCT VALIDITY AND TEST-RETEST RELIABILITY OF THE SPINE ONCOLOGY STUDY GROUP OUTCOME QUESTIONNAIRE (SOSGOQ)
AOSpine Knowledge Forum Tumor
53 SOURCES OF PATIENTS: EXPECTATIONS OF LUMBAR SURGERY
Federico P. Girardi, Roland Duculan, Alex Fong, Manuela C. Rigaud, Carol A. Mancuso
Hospital for Special Surgery, New York, USA

54 DOES STANDARD SURGICAL PREPARATION IN SPINE SURGERY ERADICATE PROPOBACTERIUM SPECIES DWELLING IN SKIN?
Christina Dowe, Samuel Grinberg, Rachel Simon, Frank Cammisa, Celeste Abjornson
Hospital for Special Surgery, New York, USA

55 OCTENIDINE DEMONSTRATES A SIGNIFICANTLY HIGHER EFFECTIVENESS AGAINST A SPINE-SPECIFIC MICROBIOME
Claudia Eder, Peter Landowski, Gerlinde Angerler, Sabrina Schildböck, Michael Ogon
Spine Center, Department of Spine Surgery, Orthopaedic Hospital Vienna-Speising, Vienna, Austria

56 INCIDENCE AND RISK FACTORS FOR FACET JOINT VIOLATION IN OPEN VERSUS MINIMAL-INVASIVE PROCEDURE DURING PEDICLE SCREW PLACEMENT IN TRAUMA PATIENTS
Christian Herren, Miguel Pishnamaz, Philipp Lichte, Hagen Andruszkow, Frank Hildebrand, Philipp Kobbe
Department of Orthopaedic Trauma, Aachen, Germany

57 IS SALVAGED BLOOD TRANSFUSION APPROPRIATE IN METASTATIC SPINE TUMOUR SURGERY? A PROSPECTIVE CLINICAL STUDY
Naresh Kumar, Aye Sandar Zaw, Dhiraj Sonawane, Jonathan Tan
National University Health System, Singapore, Singapore

58 INFLUENCE OF METASTASECTOMY, PALLIATIVE DECOMPRESSION AND TARGET THERAPY ON OUTCOME OF PATIENTS WITH SPINAL METASTASES OF RENAL CELL CARCINOMA
Nikita Zaborovskii, Dmitrii Ptashnikov, Dmitrii Mikhailov, Oleg Smekalenkov, Sergei Masevin, Stanislav Kostritckii, Elnara Zamanova
R.R.Vreden Russian Research Institute of Traumatology and Orthopedics, Sankt-Petersburg, Russia

59 LOW-GRADE INFECTION IN SPINAL INSTRUMENTATION: IS THIS THE REAL CAUSE OF SCREW LOOSENING?
Ehab Shiban, Insa Janssen, Jens Lehmberg, Florian Ringel, Bernhard Meyer
Department of Neurosurgery, Technical University of Munich, Germany

60 QUALITY OF LIFE AND UTILITY SCORES AMONG CANADIAN TRAUMATIC SPINAL CORD INJURY PATIENTS: A NATIONAL CROSS-SECTIONAL STUDY
Nicolas Dea, Christian Iorio-Morin, Vanessa Noonan, Barry White
Division of Neurosurgery, Université de Sherbrooke, Canada

61 SURGEONS’ PREOPERATIVE EXPECTATIONS PREDICT FULFILLMENT OF PATIENTS’ EXPECTATIONS TWO YEAR AFTER LUMBAR SURGERY
Federico P. Girardi, Roland Duculan, Alex Fong, Manuela C. Rigaud, Carol A. Mancuso
Hospital for Special Surgery, New York, USA
10:30 – 12:00 The ‘Best of Show’ papers
The highest scored abstract submissions

*The 2017 Best Podium Award will be evaluated out of the presentations of this session.*

*The audience is asked to vote via the EUROSPINE app*

**Plenary Hall**

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**62** DISC WALL STRUCTURAL ABNORMALITIES MAY ACT AS INITIATION SITES FOR HERNIATION
*Kelly Wade, Nikolaus Berger-Roscher, Marija Josipovic, Volker Rasche, Fabio Galbusera, Hans-Joachim Wilke*
*Institute of Orthopaedic Research and Biomechanics, Ulm University, Ulm, Germany*

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**63** TIME TO REMOVE OUR ROSE-TINTED SPECTACLES: A CANDID APPRAISAL OF THE RELATIVE SUCCESS OF SURGERY IN OVER 4'500 PATIENTS WITH DEGENERATIVE DISORDERS OF THE LUMBAR SPINE, HIP OR KNEE
*Anne F Mannion, Franco Impellizzeri, Michael Leunig, Dezső Jeszenszky, Hans-Jürgen Becker, Daniel Haschtmann, Stefan Preiss, Tamas F Fekete*
*Schnuchess Klinik, Zürich, Switzerland*

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**64** PREDICTIVE SCORES UNDERESTIMATE SURVIVAL OF PATIENTS WITH SPINAL METASTATIC DISEASE
*Christian Carrwik, Yohan Robinson*
*Dept of Surgical Sciences, Uppsala University Hospital, Sweden*

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**65** NATURAL HISTORY OF LUMBAR DEGENERATIVE KYPHOSIS WITH CONSERVATIVE TREATMENT - DO CLINICAL SYMPTOMS AND RADIOLOGICAL PARAMETERS PROGRESS?
*Whoan Jeang Kim, Kun Young Park, Jae Won Lee, Shann Haw Chang, Kyung Hoon Park*
*Dept of Orthopedic Surgery, Eulji University Hospital, Daejeon, South Korea*

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**66** IS PREOPERATIVE DURATION OF SYMPTOMS A SIGNIFICANT PREDICTOR OF FUNCTIONAL OUTCOMES IN PATIENTS UNDERGOING SURGERY FOR THE TREATMENT OF DEGENERATIVE CERVICAL MYELOPATHY?
*Lindsay Tetreault, Jefferson Wilson, Mark Kotter, Pierre Côté, Aria Nouri, Branko Kopjar, Paul Arnold, Michael Fehlings*
*Toronto Western Hospital, Department of Neurosurgery; University College Cork, School of Medicine, Toronto, Canada*

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**67** NO LONG TIME BENEFIT FROM FUSION IN DECOMPRESSION SURGERY FOR LUMBAR SPINAL STENOSIS. 5 YEAR-RESULTS FROM THE SWEDISH SPINAL STENOSIS STUDY, A MULTICENTER RCT OF 233 PATIENTS
*Peter Försth, Thomas Carlsson, Bengt Sandén, Karl Michaelsson*
*Dept of Orthopedics, Uppsala University Hospital, Sweden*
<table>
<thead>
<tr>
<th>Time</th>
<th>Event Description</th>
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<tbody>
<tr>
<td>12:00-14:00</td>
<td><strong>EUROSPINE LUNCH SYMPOSIA</strong>, Friday</td>
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<tr>
<td>12:00</td>
<td><strong>EUROSPINE LUNCH SYMPOSIUM 5</strong></td>
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<td>Live surgery session, limited to four films (complex surgeries)</td>
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<td>12:00</td>
<td><strong>EUROSPINE LUNCH SYMPOSIUM 6</strong></td>
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<td>Wicklow Hall 1</td>
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<td>Dealing with Difficult Patients and Their Families. How to Communicate and Manage Confrontation Safely and Effectively in the Healthcare Profession</td>
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<td>14:00 – 15:20</td>
<td><strong>CONCURRENT SESSIONS</strong> (QUICK FIRES - SHORT COMMUNICATIONS)</td>
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<td>14:00</td>
<td><strong>New Techniques and Imaging</strong></td>
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<td>Plenary Hall</td>
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<td>QF42 - QF54</td>
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<tr>
<td>14:00</td>
<td><strong>Trauma, Tumor</strong></td>
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<td>Wicklow Hall 2B</td>
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<td>QF55 - QF67</td>
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<td>14:00</td>
<td><strong>Cervical Spine</strong></td>
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<td>Wicklow Hall 1</td>
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<td>QF68 CHARACTERISTICS OF CERVICAL SPINE INJURY IN THE AGED SOCIETY (THE AGING RATE: &gt;33.3%)</td>
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<tr>
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<td>Toshiyuki Dokai1, Toru Yonei1, Tetsuya Otsuka1, Ryunosuke Kono1, Hideki Nagashima2</td>
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<td>1) Dept of Orthopedic Surgery, Masuda Red Cross Hosp, Masuda, Japan; 2) Dept of Orthopedic Surgery, School of Medicine, Tottori University, Yonago, Japan</td>
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<td>QF69 USE OF COMI FOR COMPARISON OF ANTERIOR CERVICAL DISCECTOMY AGAINST POSTERIOR FORAMINOTOMY AS TREATMENT FOR CERVICAL RADICULOPATHY</td>
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<td>Anastasios Benjamin Konteas, Nick Carleton-Bland, Maggie Lee, Simon Clark, Martin Wilby</td>
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<td>The Walton Centre Liverpool NHS Trust</td>
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<td>QF70 MORTALITY AND UNEXPECTED SURGERY RATE IN PATIENTS WITH CERVICAL MYELOPATHY SURGICALLY TREATED. REVIEW OF 305 CASES OF AN INSTITUTION.</td>
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<td>Manuel Ramirez Valencia, Xavier Plano Jerez, Antonia Matamalas Adrover, Ana Garcia de Frutos, Pilar González-Tartière, Joan Bagó Granell, Ferran Pellisé Urquiza, José Manuel Casamitjana Ferrándiz</td>
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<td>Vall d’Hebron University Hospital, Barcelona, Spain; Teknon Clinic, Barcelona, Spain</td>
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<td>QF71 RELATIONSHIP BETWEEN CLINICAL AND RADIOLOGICAL RESULTS IN PATIENTS SUBMITTED TO ANTERIOR CERVICAL DISCECTOMY AND FUSION</td>
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<td>Bruno Maia, Pedro Carvalhais, Luis Teixeira</td>
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<td>Spine Center - Cirurgia da Coluna, Coimbra, Portugal</td>
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QF72 LONG-TERM OUTCOMES OF ARTHROPLASTY FOR CERVICAL MYELOPATHY VERSUS RADICULOPATHY, AND ARTHROPLASTY VERSUS ARTHRODESIS FOR CERVICAL MYELOPATHY
The Orthopedic Center of St. Louis, St. Louis, USA

QF73 COMPARING COST-EFFECTIVENESS OF ARTHROPLASTY WITH FUSION IN TREATMENT FOR ONE LEVEL CERVICAL RADICULOPATHY
Oddrun A. Fredriksli, Jarle Sundseth, Frode Kolstad, Hege Andresen, Kay Müller, Erling Myrseth, John A. Zwart, Oystein P. Nygaard, Lars G. Johnsen
Dept of Neurosurgery/NTNU, Norwegian University of Science and Technology, Trondheim, Norway

QF74 ASSESSING FUSION, SUBSIDENCE AND ALIGNMENT IN THE CERVICAL SPINE: COMPARISON OF DIFFERENT MEASUREMENTS ON PLANS RADIOGRAPHS.
Ehab Shiban, Jens Lehmberg, Bernhard Meyer
Department of Neurosurgery, Technical University of Munich, Germany

QF75 ARE THE RADIOGRAPHIC COMPONENTS OF THE AMES-ISSG CLASSIFICATION SPECIFIC TO CERVICAL DEFORMITY?
Ziad Bakouny, Nour Khalil, Michel Salameh, Najib Bou Zeid, Renaud Lafage, Ismat Ghanem, Khalil Kherrat, Virginie Lafage, Gaby Kreichati, Ayman Assi
1. Laboratory of Biomechanics and Medical Imaging, Faculty of Medicine, University of Saint-Joseph, Beirut, Lebanon; 2. Spine division, Hospital for Special Surgery, New York, USA

QF76 HOW CAN CERVICAL SAGITTAL ALIGNMENT PARAMETERS BE MEASURED ON X-RAY FILMS WHEN THE SHOULDER HIDES THE LOWER CERVICAL COLUMN?
Hitoshi Yamahata, Masanao Mori, Tadaaki Niiro, Jun Sugata, Kazunori Arita
Department of Neurosurgery, Kagoshima, Japan

QF77 SURGICAL CORRECTION FOR FIXED CERVICAL KYPHOTIC DEFORMITY. INDICATIONS, TECHNIQUES AND COMPLICATIONS IN A CONSECUTIVE SERIES OF 10 PATIENTS
John Michael Duff, Lukas Bobinski, Juan Barges-Coll
University Hospital of Lausanne, Lausanne, Switzerland

QF78 OPTIMAL TIMING FOR TRAUMATIC CERVICAL SPINAL CORD INJURY WITH SURGICAL DECOMPRESSION: 10 YEARS CASES REVIEWED
Dingjun Hao, Biao Wang, Hua Guo, Ziqi Zhu
Honghui Hospital Xi’an Jiaotong University College of Medicine, Xi’an, China

QF79 DOES CT ANGIOGRAPHY CHANGE THE MANAGEMENT OF PATIENTS WITH CERVICAL FRACTURES?
Conor Dunn, Kimona Issa, Jeffrey Moore, Nancy Moontasri, Michael Faloon, Kumar Sinha, Ki Soo Hwang, Arash Emami
Seton Hall University, School of Health and Medical Sciences- South Orange, United States

QF80 REVISION SURGERY FOR CERVICAL CHORDOMAS IN PEDIATRIC PATIENTS
Dezsoe Jeszenszky, Markus Loibl, Peter Obid, Christoph Heyde, Daniel Haschtmann, Frank Kleinstueck, Tamas F Fekete
Schulthess Clinic, Spine Center, Zürich, Switzerland

15:20-15:50 BREAK

15:50 – 17:00 New Techniques, Medical Economics
Plenary Hall

68 ALTERATION OF BRAIN NEURAL NETWORK IN CERVICAL SPONDYLOTIC MYELOPATHY USING RESTING-STATE FUNCTIONAL CONNECTIVITY MRI
Eiji Takasawa, Yasunori Sorimachi, Yoichi Iizuka, Haku Iizuka, Hirotaka Chikuda
Japanese Red Cross Maebashi Hospital, Gunma University School of Medicine, Dept of Orthopaedic and Spine Surgery, Maebashi, Japan
69 REOPERATION RATE REDUCTION BY USE OF AN ANULAR CLOSURE DEVICE: 90-DAY RESULTS FROM A RANDOMIZED CONTROLLED CLINICAL TRIAL IN HIGH-RISK DISC HERNIATION PATIENTS
Claudius Thome, Frederic Martens, Gert Bouma, Adisa Kursumovic, Anular Closure RCT Study Group, Peter Douglas Klassen
Dept. of Neurosurgery, Medical University Innsbruck, Innsbruck, Austria

70 DOES SCREW MATERIAL AND AUGMENTATION AFFECT PEDICLE SCREW LOOSENING?
Richard A. Lindtnr, Werner Schmoezl, Marko Konschake, Thomas Nydegger , Rene Schmid
Department of Trauma Surgery, Medical University of Innsbruck, Innsbruck, Austria

71 DEVELOPMENT AND VALIDATION OF A STRATIFICATION SCHEME FOR SURGICAL CARE OF SPINAL DISORDERS AS A GUIDE FOR IMPROVED RESOURCE UTILISATION IN UNDERSERVED AREAS OF THE WORLD: A DELPHI STUDY
Emre Acaroglu, Tiro Mmopelela, Selcen Yuksel, Selim Ayhan, Margareta Nordin, Kristi Randhawa, Scott Haldeman
ARTEMIS Spine Center, Ankara, Turkey

72 A NOVEL SURGICAL LATERAL APPROACH AVOIDING PSOAS DIVARICATION AND IN PRONE POSITION: TECHNIQUE AND SURGICAL COMPLICATIONS
Luca Antonelli, Maria De Luca
Dept of Orthopaedic Surgery, Ravenna, Italy

73 INCIDENCE OF LUMBAR PLEXOPATHY UTILIZING MECHANOMYOGRAPHY FOR TRANSPSOAS LATERAL INTERBODY FUSION
David Briski, Brandon Cook, Bradford Waddell, Joseph Zavatsky
Ochsner Medical Center, New Orleans, LA
Spine and Scoliosis Specialists, Tampa, FL, USA

74 RADIOGRAPHIC COMPARISON OF PATIENT-SPECIFIC (PS) AND MANUALLY CONTOURED CONVENTIONAL (C) RODS IN ADOLESCENT IDIOPATHIC SCOLIOSIS (AIS) SURGERY
Pouya Alijanipour, Michael J. Hefferman, Nicholas K. Baldwin, Andrew G. King
Orthopedic Pediatric Spine Surgery, Children's Hospital of New Orleans, Louisiana State University Health Sciences Center, new Orleans, USA

75 NON-FUSION GROWTH MODULATION WITH ANTERIOR VERTEBRAL BODY TETHERING FOR ADOLESCENT IDIOPATHIC SCOLIOSIS: A PROMISING MINIMAL INVASIVE ALTERNATIVE TO TRADITIONAL TREATMENT.
Barbaros Omer Cebeci, Nuray Sogunmez, Gokhan Ergene, Binnaz Ay, Caglar Yilgor, Ahmet Alanay
School of Medicine, Acibadem University, Istanbul, Turkey

17:00 ADJOURN – END