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<th>Time</th>
<th>Presentation</th>
<th>Authors/Institutions</th>
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<tr>
<td>08:30–10:00</td>
<td><strong>DEGENERATIVE SPINE</strong></td>
<td>Room: Plenary Hall (A6/7) Chairs: Marco Teli, Liverpool, UK; Finn B. Christensen, Aarhus, Denmark</td>
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<td>21</td>
<td>THE ROLE OF SLEEP QUALITY ON SPONTANEOUS REGRESSION OF INTERVERTEBRAL DISC HERNIATION</td>
<td>Alexander Tkachev, Alina Smirnova VolGMU, DTS IIBS, Neurology, Volgorad, Russia</td>
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<td>22</td>
<td>ROLE OF BACTERIA IN DISC DEGENERATION</td>
<td>Máximo-Alberto Diez-Ulloa, Adrian Gallego-Goyanes, Pablo Baltar Orthopaedics, University Hospitalary Complex of Santiago de Compostela, Spain</td>
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<td>23</td>
<td>TUBULAR DISCECTOMY VS CONVENTIONAL MICRODISCECTOMY FOR THE TREATMENT OF LUMBAR DISK HERNIATION - LONG-TERM RESULTS OF RANDOMIZED CONTROLLED TRIAL</td>
<td>Gijsbert Overdevest, Wilco Peul, Ronald Brand, Bart Koes, Ronald Bartels, Wee Fu Tan, Mark Arts Department of Neurosurgery, The Hague Medical Center, The Hague, The Netherlands; Department of Neurosurgery, Leiden University Medical Center, Leiden, The Netherlands</td>
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<td>24</td>
<td>CLASSIFICATION CRITERIA FOR NEUROGENIC CLAUDICATION CAUSED BY LUMBAR SPINAL STENOSIS</td>
<td>Stéphane Genevay, Delphine Courvoisier, Kika Konstantinou, Francisco Kovacs, Marc Marty, James Rainville, Michael Norberg, Jean-François Kaux, Thomas Cha, Jeffrey Katz, Steve Atlas Division of Rheumatology, Universitv Hospital of Geneva, Switzerland</td>
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<td>25</td>
<td>IS THERE AN ASSOCIATION BETWEEN RADIOLOGICAL SEVERITY OF LUMBAR SPINAL STENOSIS AND DISABILITY, PAIN, OR SURGICAL OUTCOME? A MULTICENTER OBSERVATIONAL STUDY</td>
<td>Clemens Weber, Charalampos Giannadakis, Vidar Rao, Asgeir S. Jakola, Ulf S. Nerland, Øystein P. Nygaard, Tore K. Solberg, Sasha Gulati, Ole Solheim Department of Neurosurgery, Stavanger University Hospital, Stavanger, Norway</td>
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<td>26</td>
<td>MORPHOLOGICAL GRADE AND DURAL SAC CROSS-SECTIONAL AREA BOTH SHOW A SIGNIFICANT ASSOCIATION WITH PATIENT-RATED OUTCOME OF SURGERY FOR LUMBAR CENTRAL SPINAL STENOSIS</td>
<td>Anne F Mannion, Daniela Pacífico, David O’Riordan, Mirjam von Büren, Tamas F Fekete, François Porchet, Constantin Schizas Spine Center, Schulthess Klinik Zürich, Switzerland</td>
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<td>27</td>
<td>DIFFUSE IDIOPATHIC SKELETAL HYPEROSTOSIS (DISH) AFFECTS THE CLINICAL RESULTS OF DECOMPRESSION SURGERY IN LUMBAR SPINE</td>
<td>Bungo Otsuki, Shunsuke Fujibayashi, Shimei Tanada, Kazutaka Masamoto, Shuichi Matsuda Graduate school of medicine, Kyoto university, Kyoto, Japan</td>
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<td>29</td>
<td>DETERMINANTS OF PATIENT SATISFACTION AFTER SURGERY FOR CENTRAL SPINAL STENOSIS WITHOUT CONCOMITANT SPONDYLOLISTHESIS - A REGISTER STUDY OF 5,100 PATIENTS</td>
<td>Freyr Gauti Sigmundsson, Bo Jönsson, Björn Strömqvist Department of Orthopedic Surgery, The Spine Section Skane University Hospital, Lund University, Malmö, Sweden</td>
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<td>10:00–10:30</td>
<td><strong>BREAK</strong></td>
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| 10:30–12:00 | **PRESIDENTIAL ADDRESS, MEDAL AND AWARDS LECTURES**                                           | **Room:** Plenary Hall (A6/7)  
**Chair:** Margareta Nordin, Romorantin, France; Hans Joachim Wilke, Ulm, Germany  
**WINNER OF THE 2016 EUROSPINE FULL PAPER AWARD**  
Wire cerclage can restore the stability of the thoracic spine after median sternotomy: an in vitro study with entire rib cage specimens  
Christian Liebsch, Nicolas Graf, Hans-Joachim Wilke  
Institute of Orthopaedic Research and Biomechanics, Centre of Musculoskeletal Research (zmfu), Ulm University, Ulm, Germany  
**WINNER OF 2015/2016 GRAMMER/EUROPEAN SPINE JOURNAL AWARD**  
Changes in perfusion and diffusion in the endplate regions of degenerating intervertebral discs: a DCE-MRI study  
Volkan Emre Arpinar, Scott D. Rand, Andrew P. Klein, Dennis J. Maiman, L. Tugan Muftuler  
**MAX AEBI AWARD FOR CLINICAL SCIENCES**  
Maverick total disc replacement in a real-world patient population: a prospective, multicentre, observational study  
Richard Assaker1, Karsten Ritter-Lang2, Dominique Vardon3, Stéphane Litrico4, Stéphane Fuentes5, Michael Putzier6, Jörg Franke7, Peter Jarzem8, Pierre Guigui9, Gérad Nakach10, Jean-Charles Le Huec11  
1 Service de Neurochirurgie, Centre Hospitalier Re’gional, Universitaire, Hôpital Roger Salengro, Lille, France; 2 Orthopaedium-potsdam, Potsdam, Germany; 3 Clinique du Cours Dilllon, Toulouse, France; 4 Service de Neurochirurgie, Hôpital Pasteur, Centre Hospitalier Universitaire de Nice, Nice, France; Service de Neurochirurgie, Hôpital de la Timone, Marseille, France; 6 Charite’ Berlin, Klinik für Orthopädie, Berlin, Germany; 7 Department of Spinal Surgery, Klinikum Dortmund, Dortmund, Germany; 8 Montreal General Hospital, Quebec, Canada; 9 Service de Chirurgie Orthopédique, Clichy, France; 10 Service de Chirurgie Orthopédique, Centre Hospitalier de Meulan, Meulan, France; 11 Hoˆpital Pellegrin, Centre Hospitalier Universitaire de Bordeaux, Bordeaux, France  
**EUROSPINE PRESIDENTIAL ADDRESS**  
The surgeon’s time capsule  
*Michael Ogan, Vienna, Austria. EUROSPINE President 2016*  
**SOCIETY UPDATE (RESEARCH, MEMBERSHIP)** |                                                                                                                                                                                                                                                                         |
Björn Rydevik, Gothenburg, Sweden, Christoph Siepe, Munich, Germany

11:30
EUROSPINE MEDAL LECTURE 2016
THE NEW WORLD ORDER
Theo Sommer, Former Editor-in-Chief, „Die Zeit“, Germany

12:00–14:00 EUROSPINE LUNCH SYMPOSIA, Thursday

12:00 EUROSPINE LUNCH SYMPOSIA 3: INTERBODY FUSION – A WIDE RANGE OF SURGICAL OPTIONS AND MATERIALS
Room: A1
Chair: Klaus John Schnake, Fürth, Germany

INTRODUCTION: HOW DO WE ACHIEVE THE BEST LUMBAR INTERBODY FUSION?
Klaus John Schnake, Fürth, Germany

THE APPROACH – ANTERIOR, POSTERIOR, OR LATERAL?
- Anterior (ALIF) is superior
  Zdenek Klezl, Derby, UK
- Posterior (PLIF, TLIF) is superior
  Manuel Tavares, Lisbon, Portugal
- Oblique (OLIF) is superior
  Christoph Mehren, Munich, Germany
- Extreme lateral (XLIF) is superior
  Pedro Berjano, Milano, Italy

DISCUSSION

THE TECHNIQUE – CAGE MATERIALS AND DESIGNS
- Why I use titanium
  Stavros Stavridis, Thessaloniki, Greece
- Why I use PEEK
  Peter Vajkoczy, Berlin, Germany
- Why I use coated cages
  Lorin Benneker, Bern, Switzerland
- Why I use PMMA
  Áron Lazary, Budapest, Hungary

DISCUSSION

THE BIOLOGY – BONE GRAFT VS. SUBSTITUTES FOR SPINAL FUSION
Overview
Hans-Jörg Meisel, Halle, Germany

DISCUSSION
## EUROSPIKE 2016
Scientific Programme
Oral presentations

### 12:00
**EUROSPIKE LUNCH SYMPOSIUM 4: HOW TO IMPROVE RESULTS ON DEFORMITIES. IS THE KEY IN THE PREOPERATIVE MANAGEMENT**
Room: A2
Chair: Javier Pizones, Madrid, Spain

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<td>Susana Núñez, Koeln, Germany</td>
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<th>PREOPERATIVE OSTEOTOMY PLANIFICATION</th>
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<td>Çaglar Yilgör, Istanbul, Turkey</td>
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<th>SURGICAL TIPS AND TRICKS TO MINIMISE COMPLICATIONS</th>
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<td>Ibrahim Obeid, Bordeaux, France</td>
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<th>PANEL DISCUSSION QUESTIONS AND ANSWERS</th>
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### 14:00–15:20
**GROWING AND DEGENERATIVE SPINE**
Room: Plenary Hall (A6/7)
Chairs: Everard Munting, Ottignies, Belgium; Martin Gehrchen, Copenhagen, Denmark

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<tr>
<td>Florina Moldovan, Amani Hassan, Mathieu Lévesque, Soraya Barchi, Sirinart Molidperee S, Shunmoogum A Patten, Stefan Parent</td>
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<td>CHU Sainte Justine, Université de Montréal Orthopedics, Montreal, Canada</td>
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<th>33 COMPARISON AND RELIABILITY OF TWO RADIATION-FREE MEASUREMENT TOOLS FOR SPINAL SAGITTAL ANGLES EVALUATION IN PATIENTS WITH ADOLESCENT IDIOPATHIC SCOLIOSIS</th>
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<td>Anne Tabard-Fougère, Alice Bonnefoy-Mazure, Stéphane Armand, Romain Dayer</td>
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<td>Laboratory of kinesiology, University Hospitals and University of Geneva, Geneva, Switzerland</td>
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<th>34 FLEXIBILITY PREDICTS CURVE PROGRESSION IN PROVIDENCE NIGHTTIME BRACING OF PATIENTS WITH ADOLESCENT IDIOPATHIC SCOLIOSIS</th>
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<tr>
<td>Søren Søren Ohrt-Nissen, Dennis Winge Hallager, Martin Gehrchen</td>
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<tr>
<td>Orthopedic Surgery, Spine Unit, Rigshospitalet, Copenhagen, Denmark</td>
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<th>35 SURGICAL OUTCOMES OF PEDIATRIC POSTERIOR VERTEBRAL COLUMN RESECTION IN PATIENTS WITH CONGENITAL SCOLIOSIS: GREATER THAN 10-YEAR FOLLOW-UP</th>
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<td>Dong-Gune Chang, Jae Hyuk Yang, Jung-Hee Lee, Seung-Woo Suh, Jin-Hyok Kim, Se-Il Suk.</td>
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<td>Presenter: Sung Joon Shin</td>
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<tr>
<td>Inje University Sanggye Paik Hospital, Korea University Guro Hospital, Kyung Hee Univeristy Hospital, Seoul, Korea (ROK / South Korea)</td>
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<th>36 LONG-TERM RESULTS OF ANTERIOR SELECTIVE FUSION IN THORACOLUMBAR IDIOPATHIC ADOLESCENT SCOLIOSIS AFTER 17 YEARS FOLLOW-UP</th>
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<td>Renato Delfino, Javier Pizones, Cristina Ruiz-Juretschke, Felisa Sánchez-Mariscal, Lorenzo Zúñiga, Enrique Izquierdo</td>
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<tr>
<td>Hospital Universitario de Getafe, Spine Unit. Orthopaedic Surgery Department, Madrid, Spain</td>
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<tr>
<th>37 PREDICTING MAJOR COMPLICATIONS AFTER SURGICAL TREATMENT OF ADOLESCENT IDIOPATHIC SCOLIOSIS</th>
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Zsolt Szoverfi, Aron Lazary, Bela Fazekas, Peter Pal Varga
National Center for Spinal Disorders, Budapest, Hungary

38 OCCULT INFECTION IN INSTRUMENTED SPINAL SURGERY
Tucker Callanan, Darren Lebl, Samuel Miller, Andrew Sama, Frank Cammisa, Federico Girardi, Brendon Walker, Celeste Abjornson
Hospital for Special Surgery, New York, USA

39 SURGICAL SITE INFECTION AFTER A ROUTINE LUMBAR SURGERY INFLUENCES THE LONG-TERM PATIENT REPORTED TREATMENT OUTCOME
Aron Lazary, Istvan Klemencsics, Adam Biczo, Peter Pal Varga
National Center for Spinal Disorders, Budapest, Hungary

40 EVALUATION OF THE OSTEINDUCTIVITY BETWEEN ACTIVIN A / BMP-2 CHIMERA (AB204) AND RHBMP-2 USING IN VITRO AND LARGE ANIMAL MODEL
Jae Hyup Lee
Seoul National University, College of Medicine, Seoul, Korea (ROK / South Korea)

41 EFFECTS OF DISC DEGENERATION AND VERTEBRAL FUSION ON PRO-INFLAMMATORY MEDIATORS IN A RABBIT INTERVERTEBRAL DISC DEGENERATION MODEL
Davut Dumanlidag, Can Kosay, Guigun Oktay, Didem Keles
Dokuz Eylül University, Izmir, Turkey

15:20–15:50 BREAK

15:50–17:30 CERVICAL SPINE
Room: Plenary Hall (A6/7)
Chairs: Emre Acaroglu, Ankara, Turkey; Joerg Franke, Magdeburg, Germany

42 REEMERGENCE OF SYMPTOMS AFTER SUCCESSFUL TREATMENT WITH CERVICAL DISC ARTHROPLASTY OR ANTERIOR CERVICAL DISCETOMY AND FUSION BETWEEN 2 TO 5 YEARS FOLLOW UP.
Jacques Beaurain, Thierry Dufour, Kris Radcliffe, Joël Delecrin
(1) Neurosurgery Department, University Hospital, Dijon, France; (2) Neurosurgery Department, State Hospital CHR d’Orléans, Orléans, France; (3) Department of Orthopedic Surgery, Thomas Jefferson University, Rothman Institute, Egg Harbor, NJ, USA; (4) Orthopedic and Traumatology Surgery department, Nantes University Hospital, Nantes, France

43 LONG-TERM CLINICAL AND RADIOGRAPHIC OUTCOMES OF AN ARTIFICIAL CERVICAL DISC REPLACEMENT AT TWO LEVELS: RESULTS FROM A LEVEL 1 PROSPECTIVE RANDOMIZED CONTROLLED CLINICAL TRIAL
Todd Lanman, Scott Hodges, Matt Gornet, J. Kenneth Burkus, Jeffrey McConnell, Randall Dryer
Cedars Sinai Medical Center, Institute for Spinal Disorders, Beverly Hills, USA

44 THE INFLUENCE OF HIGH LEVELS OF NECK PAIN ON THE OUTCOME OF CERVICAL ARTHROPLASTY
Sina Tok, Anne F Mannion, Urs Mutter, Hans-Juergen Becker, Francois Pochet
Spine Centre Schulthess Clinic Zurich, Switzerland

45 LONG-TERM PATIENT-RATED OUTCOME AFTER SURGERY FOR CERVICAL MYELOPATHY: AN ANALYSIS OF PROSPECTIVELY COLLECTED DATA FROM A LARGE, CONSECUTIVE GROUP OF PATIENTS UP TO 5 YEARS POSTOPERATIVELY
Francois Pochet, Sina Tok, Hans-Juergen Becker, Dezsoe J Jeszenszky, Tamas Fekete, Frank S Kleinstueck, Anne F Mannion
Spine Centre Schulthess Clinic Zurich, Switzerland

46 THE IMPACT OF CERVICAL SAGITTAL IMBALANCE ON LAMINOPLASTY INDICATED TO PATIENTS WITH CERVICAL MYELOPATHY
47 CERVICAL KYPHOTIC DEFORMITY MANAGED WITH UPPER THORACIC PEDICLE SUBTRACTION OSTEOTOMY: CLINICAL PARAMETERS AND OUTCOME ANALYSIS OF 13 CASES
Sergey Neckrysh, Constantin Schizas, Pavel Krotenkov
Department of Neurosurgery, University of Illinois at Chicago, USA

48 THE CLINICAL USEFULNESS OF PREOPERATIVE DYNAMIC MRI TO SELECT DECOMPRESSION LEVELS IN PATIENTS WITH CERVICAL MYELOPATHY CAUSED BY OSSIFICATION OF THE POSTERIOR LONGITUDINAL LIGAMENT
Chan Yoon, Gang-un Kim, Ho Sung Han, Ho-Joong Kim, Bong-Soon Chang, Choon-Ki Lee, Jin S. Yeom
Seoul National University College of Medicine and Seoul National University Bundang Hospital, Sungnam, Korea (ROK/ South Korea)

49 PREVALENCE AND COMPLICATIONS OF POST-OPERATIVE TRANSFUSION FOR CERVICAL FUSION PROCEDURES IN SPINE SURGERY; AN ANALYSIS OF 11,588 PATIENTS FROM THE ACS-NSQIP DATABASE
Ahmed Aoude, Sultan Aldebeyan, Anas Nooh, Maryse Fortin, Peter Jarzem, Jean Ouellet, Michael Weber
McGill University, Orthopedics, Montreal, Canada

50 REVERSIBLE AXONAL DAMAGE IS REMARKABLE IN PATIENTS WITH ACUTELY WORSENING SYMPTOMS OF COMPRESSION MYELOPATHY: ANALYSIS OF HUMAN CEREBROSPINAL FLUID SAMPLES
Hiroshi Takahashi, Yasuchika Aoki, Arata Nakajima, Masato Sonobe, Fumiaki Terajima, Masahiko Saito, Masahiro Inoue, Keita Koyama, Keiichiro Yamamoto, Koichi Nakagawa
Orthopaedic, Toho University Sakura Medical Center, Sakura, Japan

51 ACCURACY OF POST-OPERATIVE RECALL OF BASELINE NEUROLOGICAL FUNCTION BY PATIENTS UNDERGOING SURGICAL DECOMPRESSION FOR CERVICAL SPONDYLOYTIC MYELOPATHY
Nanfang Xu, Shaobo Wang, Miao Yu, Zhongjun Liu, Xiaoguang Liu
Peking University Third Hospital, Beijing, China

52 INITIAL EVALUATION OF A 3D-PRINTED VERTEBRAL BODY FOR SINGLE-LEVEL ANTERIOR CERVICAL CORPECTOMY AND FUSION
Feng Wei, Nanfang Xu, Zihe Li, Liang Jiang, Xiaoguang Liu, Zhongjun Liu
Peking University Third Hospital, Beijing, China

53 TYPE 2 ODONTOID FRACTURE IN THE ELDERLY AND FUSION OF ATLANTO-ODONTOID JOINT OR CALCIFICATION OF THE TRANSVERSE LIGAMENT OF ATLAS: ANATOMICALLY CLOSE STRUCTURES CORRELATION OR CAUSATION?
Ali Rajabian, Hussein Mehdian, Michael P Grevitt
The Centre for Spinal Studies and Surgery, Queen’s Medical Centre, Nottingham, United Kingdom