

## SOLAS Session 12: Basic Science - Biomechanics/Neural Monitoring

### **Developing Anatomically Representative Endplate Models To Assess Interbody Cage Subsidence Performance**

*G. Fogel<sup>1</sup>, C. Yee Yanagishita<sup>2</sup>, J. Malik<sup>2</sup>, Y. Peng<sup>2</sup>, M. Jekir<sup>2</sup>; <sup>1</sup>Spine Pain Begone Clinic, San Antonio, TX/United States of America, <sup>2</sup>NuVasive, San Diego, CA/United States of America*

### **An Upper Bound Computational Model For Investigation Of Fusion Effects On Adjacent Segment Biomechanics Of The Lumbar Spine**

*C. Zhou<sup>1,2</sup>, T. Cha<sup>1,2</sup>, G. Li<sup>1</sup>; <sup>1</sup>Newton-Wellesley Hospital, Newton, MA/United States of America, <sup>2</sup>Massachusetts General Hospital, Boston, MA/United States of America*

### **Biomechanical Evaluation Of A Novel Posterior Fixation Option To Augment Lateral Lumbar Interbody Fusion: Comparison With Traditional Posterior Spine Fixation**

*G.B. Cornwall<sup>1</sup>, T. Wang<sup>2</sup>, T. Semingson<sup>3</sup>, M. Yap<sup>3</sup>, M. Pelletier<sup>2</sup>, J. Blain<sup>3</sup>, W. Walsh<sup>2</sup>; <sup>1</sup>Shiley-Marcos School of Engineering, University of San Diego, San Diego, CA/United States of America, <sup>2</sup>Surgical Orthopaedic Research Laboratories, University of New South Wales, Sydney, NSW/Australia, <sup>3</sup>Spinal Elements, Carlsbad, CA/United States of America*

### **The Effect Of Lateral Interbody Constructs On In-Vitro Biomechanics: A Comparison Of Expandable Versus Static Spacers In An In-Vitro Model**

*M.B. Janjua<sup>1</sup>, G. Hayward<sup>2</sup>, J. Harris<sup>2</sup>, E. Thai<sup>3</sup>, B. Bucklen<sup>2</sup>; <sup>1</sup>Mercy Health, Rockford, IL/United States of America, <sup>2</sup>Musculoskeletal Education and Research Center (MERC), Globus Medical, Inc., Audubon, PA/United States of America, <sup>3</sup>Department of Mechanical Engineering, Drexel University, Philadelphia, PA/United States of America*

### **When Do We Have To Talk About Sex In Spine Surgery And Back Pain?**

*D. Van Schaik; Orthopaedics, University Hospital Brussels, Brussel/Belgium*

### **Mitigating The Risk Of Cage Subsidence Through Stress-Optimized Body Lattice And Microporous Endplates mitigating The Risk Of Cage Subsidence Through Stress-Optimized Body Lattice And Microporous Endplates**

*G. Fogel<sup>1</sup>, N. Martin<sup>2</sup>, J. Unger<sup>2</sup>, Y. Peng<sup>2</sup>, M. Jekir<sup>2</sup>; <sup>1</sup>Spine Pain Begone Clinic, San Antonio, TX/United States of America, <sup>2</sup>NuVasive, San Diego, CA/United States of America*