ON DEMAND SESSION 3: CERVICAL, COMPLICATIONS, TRAUMA & TUMOR ABSTRACTS

Paper 38: The Psychological Burden of Disease Among Patients Undergoing Cervical Spine Surgery: Are We Underestimating our Patients’ Inherent Disability?

Peter Passias, MD, Sara Naessig, BS, Waleed Ahmad, MS, Katherine Pierce, BS, Oscar Krol, BA, Lara Passfall, BS, Nicholas Kummer, BS, Brooke O’Connell, MS, Constance Maglaras, PhD
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Haiming Wang, Chaochao Zhou, PhD, Yan Yu, Cong Wang, Tsung-Yuan Tsai, Chaofan Han, Guoan Li, Thomas Cha
1Newton-Wellesley Hosp., Newton, MA, 2Tongji Hosp., Shanghai, China, 3Shanghai Jiao Tong Univ., Shanghai, China, 4Massachusetts Gen. Hosp., Boston, MA.

Paper 40: Multimodal Analgesic Management for Cervical Spine Surgery in the Ambulatory Setting: Clinical Case Series and Review of the Literature

Conor Lynch, MS, Elliot Cha, MS, James Parrish, MPH, Nathaniel Jenkins, MS, Michael Nolte, MD, Caroline Jadczak, BS, Shruthi Mohan, Cara Geoghegan, BS, Jeffrey Podnar, MD, Asokumar Buvanendran, MD, Kern Singh, MD
Rush Univ. Med. Ctr., Chicago, IL.

Paper 41: The Human Cervical Spine Is Loaded Twice as Frequently as the Hip and Knee During Walking: An In Vivo Biomechanical Analysis

Chaochao Zhou, PhD, Guoan Li, Cong Wang, Haiming Wang, Yan Yu, Tsung-Yuan Tsai, Thomas Cha
1Newton-Wellesley Hosp., Newton, MA, 2Shanghai Jiao Tong Univ., Shanghai, China, 3Tongji Hosp., Shanghai, China, 4Massachusetts Gen. Hosp., Boston, MA.
Paper 42: In Vivo Cervical Segment Kinematics in Dynamic Axial Twisting of the Head and Neck with a Focus on the Upper Cervical Spine

Runsheng Guo¹, Chaochao Zhou, PhD¹, Cong Wang², Tsung-Yuan Tsai², Yan Yu³, Wei Wang¹, Guoan Li¹, Thomas Cha⁴

Paper 43: The Deleterious Effects of Frailty on Perioperative Outcomes in Spine Surgery Are Mitigated by Minimally Invasive Techniques

Peter Passias, MD¹, Sara Naessig, BS¹, Bhaveen Kapadia, MD², Waleed Ahmad, MS¹, Katherine Pierce, BS¹, Lara Passfall, BS¹, Oscar Krol, BA¹, Nicholas Kummer, BS¹, Carolyn Stickley, BS¹, Jack Zhong, BA¹, Eaman Balouch, MD, PhD¹, Nicholas O’Malley, MS¹, Aaron Buckland, FRACS¹, Steven Hale, MD¹, Claire White-Dzuro, BA¹, Bassel Diebo, MD², Shaleen Vira, MD², Brooke O’Connell, MS¹, Constance Maglaras, PhD¹, Themistocles Protopsaltis, MD¹, Michael Gerling, MD¹
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Paper 44: Treatment of Pressure Injury with a Novel Negative Pressure Device in People with Spinal Cord Injury

Rajeshwar Srivastava, MS (Orthopaedic Surgery), Mukesh Dwivedi, PhD, Amit Bhagat, PhD Scholar, Saloni Raj, MBBS
King George’s Med. Univ., Lucknow, India.

Paper 45: Infection Rate in 212 Consecutive Patients Treated by Minimally Invasive Lumbar Tubular Decompression

Nicolas Coombes, MD, Norberto Fernandez, MD, Eduardo Galaretto Galaretto, MD, Cristian Fuster, MD

Paper 46: Comparison of Outcomes in Percutaneous Fixation of Traumatic Fractures Between Ankylosing Spondylitis and Diffuse Idiopathic Skeletal Hyperostosis

Scott McCarty, MD, Jacob Bruckner, MD, Jael Camacho, MD, Daniel Cavanaugh, MD, Eugene Koh, MD, PhD, Daniel Gelb, MD, Steven Ludwig, MD
Univ. of Maryland, Baltimore, MD.
Paper 47: Role of Metabolites in Bio-fluids as a Prognostic Indicator of Neurological Recovery in Acute Spinal Cord Injury (ASCI)

**Rajeshwar Srivastava, MS**, Alka Singh, PhD, Raja Roy, PhD, Saloni Raj, MBBS
1King George’s Med. Univ., Lucknow, India, 2Ctr. of Bio-Med. Res. [CBMR], Lucknow, India.

Paper 48: Percutaneous Transpedicular Kyphoplasty with PPMA for Treatment of Vertebral Body Compression Fractures: Clinical and Radiological Results on 600 Cases

**Gabriele Carrabs, MD**, Giovanni Sessa, MD, Giovanni Oliva, MD, Angelo Storti, MD
AOSG Moscati - Avellino, Avellino, Italy.

Paper 49: Radiological Evaluation of Lumbar and Thoracic Spine Injuries in Young Male Patients Due to Road Traffic Accidents

**Nikolaos Syrmos**, Georgios Gavridakis
1Aristotle University of Thessaloniki, Thessaloniki, Greece, 2Venizeleio Gen. Hosp., Heraklion, Crete, Greece.

Paper 50: Postoperative Outcomes of Minimally Invasive Pedicle Screw Fixation for Treatment of Unstable Pathologic Neoplastic Fractures

Matthew Chin, MD, Jael Camacho, MD, **Jacob Bruckner, MD**, Daniel Cavanaugh, Eugene Koh, MD, PhD, Daniel Gelb, MD, Steven Ludwig, MD
Univ. of Maryland, Baltimore, MD.

Paper 51: Spinal Lumbar Benign Tumors Treated by Full Endoscopic Interlaminar Approach

**Marcio Ramalho Cunha, MD**, Marcello Roberto Ramalho Cunha, MD, Marcia Luisa Monteiro Cunha, Guilherme Monteiro Cunha, Trauma Center, Natal, Brazil.