

ON DEMAND SESSION 4: NAVIGATION, EMERGING TECHNOLOGIES, & HEALTHCARE ECONOMICS ABSTRACTS

Paper 52: A Cadaveric Accuracy and Precision Analysis of Augmented Reality Enabled Percutaneous Pedicle Screw Insertion

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Paper 53: A Review of Time-demand, Radiation Exposure and Outcomes of Skin-Anchored Intra-operative 3D Navigation in Minimally Invasive Posterior Cervical Laminoforaminotomy

Avani Vaishnav, MBBS, Philip Louie, MD, Hikari Urakawa, MD, Kosuke Sato, MD, Chirag Chaudhary, MBBS, MS (Ortho), Ryan Lee, MBA, Sravisht Iyer, MD, Steven McAnany, MD, Todd Albert, MD, Catherine Himo Gang, MPH, Sheeraz Qureshi
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Paper 54: Outcomes Following Computer-assisted Navigation in Posterior Cervical Fusion

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Paper 55: Augmented Reality - The Future of Spine Surgery?

Franziska Anna Schmidt, MD, Fabian Sommer, MD, Taylor Wong, BA, Sertaç Kirnaz, MD, Raj Nangunoori, MD, Branden Medary, BS, Roger Härtl, MD
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Paper 56: Robotic-Assisted Percutaneous Iliac Screw Fixation: Report of Two Cases and Review Of Literature

Christine Park, BA, Vikram Mehta, MD, MPH, Timothy Wang, MD, Khoi Than, MD, Isaac Karikari, MD, Rory Goodwin, MD, PhD, Muhammad Abd-El-Barr, MD, PhD
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Paper 57: The Efficiency of Disc Space Preparation in Transforaminal Lumbar Interbody Fusion: Clinical Experience and Meta-analysis

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Paper 58: The Learning Curve in Fully Endoscopic Discectomy

Raymond Gardocki, MD, Chad Champion, MD, Catherine Olinger, MD, Kirk Thompson, MD
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Paper 59: Clinical Application of Bone-forming Cell-based Therapy in Spinal Fusion

Olivier Godeaux¹, Alphonse Lubansu²;

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Paper 60: Prediction of Early Recurrence After Full-endoscopic Lumbar Discectomy Using Machine Learning Model

Junseok Bae, Shin Jae Kim, Seok Jin Ko, Sang-Ho Lee
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Paper 61: Federal Drug Administration Trial of Paraspinous Tension Band for Degenerative Spondylolisthesis: Preliminary Safety and Outcomes in 168 Subjects with 12 Months Follow-up

Ivan Cheng, MD¹, **Akaila Cabell, MD¹**, Rick Sasso, MD², Hyun Bae, MD³, Calvin Kuo, MD⁴, Kee Kim, MD⁵, Jeffrey Fischgrund, MD⁶, Khalid Sethi, MD⁷, Harel Deutsch, MD⁸, Elizabeth Yu, MD⁹, Wilson Zachary Ray, MD¹⁰, Jeffrey Gum, MD¹¹, Mick Perez-Cruet, MD⁶, Umesh Metkar, MD¹², Todd Alamin, MD¹, Louis Fielding¹³

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Paper 62: Safe and Improved Bone-removal Using a New Device in Open and Minimal Invasive Approaches: Experience with 653 Patients in Four Centers

John Peloza, MD¹, Larry Khoo, MD², Michael Millgram, MD³, Scott Kutz, MD⁴, Richard Guyer, MD⁵, Jean-Charles Le Huec, MD, PhD⁶, Ely Ashkenazi, MD³

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Paper 63: Outpatient Minimally Invasive Lumbar Fusion Using Multimodal Analgesic Management in The Ambulatory Surgery Setting

Conor Lynch, MS¹, Elliot Cha, MS¹, James Parrish, MPH¹, Nathaniel Jenkins¹, Dustin Massel, MD², Augustus Rush Iii, MD¹, Nadia Hrynewycz, BS¹, Caroline Jadcak, BS¹, Cara Geoghegan, BS¹, Shruthi Mohan, BS¹, Kern Singh, MD¹

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Paper 64: Spine Patient Satisfaction with Telemedicine During the Covid-19 Pandemic

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Paper 65: Hospital Mark-up and Outcomes Following Lumbar Fusions - Moving Towards the Era of Transparency in Prices

Azeem Malik, MBBS, Joseph Drain, MD, Safdar Khan, MD, Jeffery Kim, MD, Elizabeth Yu, MD
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Paper 66: Understanding Return to Work Recommendations After Spinal Surgery

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