



Eric Otto Klineberg, M.D., M.S.

Philosophy of Care	My philosophy is to care for each patient as I would like myself or a family member to be treated. I am committed to excellence in surgical care with an emphasis on communication, compassion, and empathy.
Clinical Interests	Dr. Klineberg's clinical interests include all aspects of spinal degeneration, deformity, tumor and fracture. He has a particular interest in adult and pediatric spinal deformity surgery and cervical compression and deformity.
Research/Academic Interests	Dr. Klineberg's research interests focus on enhancement of spinal fusion with stem cells and proteins. He is also actively involved in clinical research investigating spinal deformity and outcomes.
Title	Co-Director of the Spine Center Associate Professor, Department of Orthopaedic Surgery
Specialty	Orthopaedic Surgery, Adult and Pediatric Spinal Surgery
Department	Orthopaedic Surgery
Division	Orthopaedic Surgery
Center/Program Affiliation	Spine Center
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Education	M.D., University of Maryland School of Medicine, Baltimore, Maryland, 2001 M.S., University of Maryland, College Park MD 1996 B.A., Rice University, Houston, Texas, 1994
Internships	General Surgery, University of Washington, Seattle, WA, 2001-2002
Residency	Orthopaedic Surgery, University of Washington, Seattle, WA, 2002-2006
Fellowships	Combined Neurological and Orthopaedic Surgical Spine, Cleveland Clinic Foundation, Cleveland, OH, 2006-2007
Board Certifications	American Board of Orthopaedic Surgery, 2009



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Professional Memberships

American Academy of Orthopaedic Surgeons
AO Spine North America
California Orthopaedic Association
North American Spine Society (NASS)
Scoliosis Research Society
Sierra Sacramento Valley Medical Society (SSMS)
Western Orthopaedic Association

Honors and Awards

Best Podium and Best Poster 2014, International Society for the Advancement of Spine Surgery, 2014
Goldstein Clinical Science Award, Scoliosis Research Society, 2014
Traveling Fellowship Award, American Orthopaedic Association / Japanese Orthopaedic Association, 2012
Featured in InSpine 4-10 BMP Antagonists in Spine Fusion, 2010

Select Recent Publications

Scheer JK, Lafage V, Smith JS, Deviren V, Hostin R, McCarthy IM, Mundis GM, Burton DC, Klineberg E, Gupta M, Kebaish K, Shaffrey CI, Bess S, Schwab F, Ames CP, International Spine Study Group. Maintenance of Radiographic Correction at 2 Years Following Lumbar Pedicle Subtraction Osteotomy is Superior with Upper Thoracic Compared with Thoracolumbar Junction Upper Instrumented Vertebra. *Eur Spine J*, 2015;24(S1): 121-30.

Smith JS, Shaffrey E, Klineberg E, Shaffrey CI, Lafage V, Schwab FJ, Protosaltis T, Scheer JK, Mundis GM, Fu KM, Gupta MC, Hostin R, Deviren V, Kebaish K, Hart R, Burton DC, Line B, Bess S, Ames CP, International Spine Study Group. Prospective Multicenter Assessment of Risk Factors for Rod Fracture Following Surgery for Adult Spinal Deformity. *J Neurosurg Spine*, 2014;21(6): 994-1003.

Smith JS, Singh M, Klineberg E, Shaffrey CI, Lafage V, Schwab FJ, Protosaltis T, Ibrahimi D, Scheer JK, Mundis G, Gupta MC, Hostin R, Deviren V, Kebaish K, Hart R, Burton DC, Bess S, Ames CP, International Spine Study Group. Surgical Treatment of Pathological Loss of Lumbar Lordosis (flatback) in Patients with Normal Sagittal Vertical Axis Achieves Similar Clinical Improvement as Surgical Treatment of Elevated Sagittal Vertical Axis. *J Neurosurg Spine*, 2014;21(2): 160-70.



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Fu KM, Bess S, Shaffrey CI, Smith JS, Lafage V, Schwab F, Burton DC, Akbarnia BA, Ames CP, Boachie-Adjei O, Deverin V, Hart RA, Hostin R, Klineberg E, Gupta M, Kebaish K, Mundis G, Mummaneni PV, International Spine Study Group. Patients with Adult Spinal Deformity Treated Operatively Report Greater Baseline Pain and Disability than Patients Treated Nonoperatively; However, Deformities Differ Between Age Groups. *Spine*, 2014;39(17): 1401-7.

Nelson EM, Monazzam SM, Kim KD, Seibert JA, Klineberg EO. Intraoperative Fluoroscopy, Portable X-Ray and CT: Patient and Operating Room Personnel Radiation Exposure in Spinal Surgery. *Spine J*, 2014;14(12): 2985-91.

Ryan DJ, Protosaltis TS, Ames CP, Hostin R, Klineberg E, Mundis GM, Obeid I, Kebaish K, Smith JS, Boachie-Adjei O, Burton DC, Hart RA, Gupta M, Schwab FJ, Lafage V, International Spine Study Group. T1 Pelvic Angle (TPA) Effectively Evaluates Sagittal Deformity and Assesses Radiographical Surgical Outcomes Longitudinally. *Spine*, 2014;39(15): 1203-10.

Klineberg E, Bui T, Schlenk R, Lieberman I. Retro-Odontoid Calcium Pyrophosphate Dehydrate Deposition: Surgical Management and Review of the Literature. *Evid Based Spine Care J*, 2014;5 (1): 63-9.

Klineberg E, Haudenschild DR, Snow KD, Garitty S, Christiansen BA, Acharya C, Maitra S, Gupta MC. The Effect of Noggin Interference in a Rabbit Posterolateral Spinal Fusion Model. *Eur Spine J*, 2014;23(11): 2385-92.



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Hague RM, Mundis GM, Ahmed Y, El Ahmadieh TY, Wang MY, Mummaneni PV, Uribe JS, Okonkwo DO, Eastlack RK, Anand N, Kanter AS, La Marca F, Akbarnia BA, Park P, Lafage V, Terran JS, Shaffrey CI, Klineberg E, Deviren V, Fessler RG, International Spine Study Group. Comparison of Radiographic Results after Minimally Invasive, Hybrid, and Open Surgery for Adult Spinal Deformity: A Multicenter Study of 184 Patients. *Neurosurg Focus*, 2014;36(5): e13, 1-7.

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