

**Curriculum Vitae****Kushagra Verma M.D., M.S., FAAOS**

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Home: 1213 Walnut Ave  
Manhattan Beach, CA 90266

Personal: 240-678-3725

Practice: 3851 Katella Ave. Ste 255  
Los Alamitos, CA 90720

Office: 562-732-4578  
Fax: 562-452-9207

Email: kush@vermaspine.com  
Website: www.vermspine.com

**Personal Data**

Place of Birth: Tacoma Park, MD  
Date of Birth: 03/31/1981  
Citizenship: United States

**Education**

2005 – 2010 (M.D.) NYU, School of Medicine (New York, NY)  
Medical Doctorate

2004 – 2005 (M.S.) NYU, Graduate School Arts and Science (New York, NY)  
Molecular Biology

1999 – 2004 (B.S.) Cornell University, School of Engineering (Ithaca, NY)  
Biomedical Engineering

**Post Graduate Training**

2015 – 2016 University of California, San Francisco (San Francisco, CA)  
Adult and Pediatric Spine Fellowship, Spinal Deformity

2010 – 2015 Thomas Jefferson University, Rothman Institute (Philadelphia, PA)  
Orthopaedic Surgery Residency

**Academic Appointments**

2016 – 2018 University of Washington (Seattle, WA)  
Assistant Professor of Orthopaedics and Sports Medicine  
Adult and Pediatric Spine and Spine Deformity

2019 – Long Beach Memorial (Long Beach, CA)  
Faculty, Sports Medicine Fellowship

Faculty, Family Medicine Residency

2019 – Western University of Health Sciences (Pomona, CA)  
Clinical Assistant Professor Surgery

**Honors**

- 2018 Recipient of Edgar Dawson Traveling Fellowship  
(Scoliosis Research Society)
- 2017 Finalist for Faculty Teaching Award  
(University of Washington)
- 2016 Recipient of K2M Fellowship Award, Accra Ghana  
(Foundation For Orthopaedics and Complex Spine)
- 2016 Recipient of Young Investigator Award  
(Society of Lateral Access Surgeons)
- 2014 Recipient of AAOS/OREF/ORS Clinician Scholar Development Program  
(Scoliosis Research Society)
- 2014 Recipient of EOA Resident Travel Grant  
(Eastern Orthopaedic Society)
- 2013 Finalist for Russell Hibbs Award in Clinical Science: Best Clinical Paper,  
(Scoliosis Research Society)
- 2013 Finalist for Best Clinical Paper  
(North American Spine Society)
- 2011 Finalist for Thomas Whitecloud Award; Best Clinical Paper  
(International Meeting for Advanced Spine Techniques)
- 2011 Finalist for Best Clinical Paper  
(North American Spine Society)
- 2010 Recipient of Russell Hibbs Award; Best Clinical Paper  
(Scoliosis Research Society)

**Board Certification**

- USMLE: Step 1 – June 18<sup>th</sup>, 2007  
Step 2 – May 7<sup>th</sup>, 2009 (CK), March 30<sup>th</sup>, 2010 (CS)  
Step 3 – March 2<sup>nd</sup>, 2011
- ABOS: Part 1 – July 9<sup>th</sup>, 2015  
Part 2 – July 24<sup>th</sup>, 2018

**Current Medical License(s) to Practice**

- California 3/18/2015 to 3/31/2023
- Washington 8/19/16 to 3/31/2019

**Current Additional License(s) to Practice**

- DEA exp 5/31/2024
- Fluoroscopy exp 10/31/2022

**Hospital Privileges**

- Long Beach Memorial Medical Center
- Miller Children’s Hospital-Long Beach

Los Alamitos Medical Center  
DOCS Surgical Hospital  
DOCS Surgical Center  
Diagnostic and Interventional Surgery Center  
(Marina Del Rey)

**Professional Organizations**

American Academy of Orthopedic Surgeons (AAOS)  
Scoliosis Research Society (SRS)

**Journal Reviewer**

Spine Deformity  
CORE  
Clinical Spine Surgery

**Committee Assignments**

Scoliosis Research Society:  
Adult Deformity Committee (2017-2018, 2018-2019)  
Global Outreach Committee (2018-2019)

**Course Faculty/Invited Lectures**

- 7/2019 (1) "Safety during Complex Deformity Surgery: Lessons from Global Outreach"
  
- 2/2019 (1) "Classification of Adult Deformity: Occiput to Pelvis"  
(2) "Case Presentations: Adult Deformity"  
(3) "Facet Arthropathy as a Pain Source Evaluation and Management"  
*Faculty Shelby Spine Conference (Park City, UT)*
  
- 10/2018 "Sharing Our Best Global Algorithms for the Treatment of Complex Spinal Deformity"  
*Faculty, 53<sup>rd</sup> Annual Scoliosis Research Society (Bologna, Italy)*
  
- 9/2018 (1) "Pre-operative optimization for Adult Spinal Deformity"  
(2) "High Grade Spondylolisthesis"  
*Faculty 3<sup>rd</sup> Annual Global Spine Outreach Symposium (Monterrey, Mexico)*
  
- 8/2017 "How to Approach Adult Deformity Early in Practice, Rebuilding a Spine Deformity Center"  
*Faculty, Eighth Annual ONE Spine Residents & Fellows Course (Seattle, WA)*
  
- 7/2017 "Neuromuscular Scoliosis: Techniques For Correction, Complications, And Global Outreach"  
*Faculty, 2<sup>nd</sup> Annual Spinal Deformity Symposium (Seattle, WA)*
  
- 7/2017 "Principles of Adult Deformity, Cervical and Lumbar"  
*Faculty, UW MIS Spine Cadaver Course (Seattle, WA)*

- 5/2017 “Adolescent Scoliosis and Adult Spinal Deformity- Discussion on Care & Treatment”  
*Online UWMC CME Lecture (Seattle, WA)*
- 6/2016 “Management of Blood Loss in Spinal Deformity Surgery”  
*UCSF Spine Symposium (San Francisco, CA)*
- 5/2015 “Demographic Factors Affect Quality of Life Outcomes in America, Asia, and Africa”  
*Jefferson Orthopaedic Society (Philadelphia, PA)*
- 4/2015 “International Volunteerism”  
*Grand Rounds, Rothman Institute (Philadelphia, PA)*
- 5/2013 “Antifibrinolytics For The Management of Blood Loss For Adolescent and Adult Spinal Deformity Surgery”  
*Jefferson Orthopaedic Society (Philadelphia, PA)*

### **Surgeon Volunteerism**

- 12/2022 *Align 33 (FOCOS, Ghana)*
- 4/2019 *Global Spine Outreach (GSO, Mexico)*
- 09/2018 *Global Spine Outreach (GSO, Mexico)*
- 5/2018 *Global Spine Outreach (GSO, Columbia)*
- 3/2018 *Global Spine Outreach (GSO, Mexico)*
- 11/2017 *Global Spine Outreach (GSO, Columbia)*
- 6/2017 *Global Spine Outreach (GSO, Columbia)*
- 8/2016 *Foundation of Orthopaedics and Complex Spine (FOCOS, Ghana)*
- 4/2013 *Foundation of Orthopaedics and Complex Spine (FOCOS, Ghana)*
- 11/2009 *Foundation of Orthopaedics and Complex Spine (FOCOS, Ghana)*
- 1/2009 *Mariposa Foundation (Dominican Republic)*

### **Peer Reviewed Publications (47)**

Baron Lonner, **Kushagra Verma** The Transverse Process Trajectory Technique: An Alternative for Thoracic Pedicle Screw Implantation-Radiographic and Biomechanical Analysis ( *Spine Surg* 2021 Apr;15(2):315-323. doi: 10.14444/8041. Epub 2021 Apr 1.)

Casey Slattery, **Kushagra Verma** “Outcome Measures in Adult Spine Surgery: How Do We Identify the Outcomes of Greatest Utility for Research? (*Clinical Spine Surgery*, 2019: May; 32(4):164-165)

Sigurd Berven, Matthew Baron, Vedat Deviren, Steven Glassman, Keith Bridwell, **Kushagra Verma** “The Assessment of Clinically Significant Differences in Treating Spinal Deformity Utilizing the SRS Questionnaire: What is the Threshold of Change that is Meaningful to Patients?” (*IJ Spine Surg*, 2019 Apr 30;13(2):153-157)

Lori A. Dolan, PhD,<sup>1</sup> Stuart L. Weinstein, MD,<sup>2</sup> Mark F. Abel, MD,<sup>3</sup> Patrick P. Bosch, MD,<sup>4</sup> Matthew B. Dobbs, MD,<sup>5</sup> Tyler O. Farber, BS,<sup>2</sup> Matthew F. Halsey, MD,<sup>6</sup> M. Timothy Hresko, MD,<sup>7</sup> Walter F. Kregel, MD,<sup>8</sup> Charles T. Mehlman, DO, MPH,<sup>9</sup> James O. Sanders, MD,<sup>10</sup> Richard M. Schwend, MD,<sup>11</sup> Suken A. Shah, MD,<sup>12</sup> and **Kushagra Verma, MD, MS** “Bracing in Adolescent Idiopathic Scoliosis Trial (BrAIST): Development and Validation of a Prognostic Model in Untreated Adolescent Idiopathic Scoliosis using the Simplified Skeletal Maturity System” (*Spine Deform*. 2019 Nov; 7(6): 890–898.e4.)

**Kushagra Verma**, Casey Slattery, Oheneba Boachie. “Surgeon Volunteerism Taken A Step Further: My Experience with FOCOS From Medical School To An Attending” (*J Bone Joint Surg Am*. 2019; 101:854-5)

Casey Slattery, Jonathan Kark, Theodore Wagner, **Kushagra Verma**. “The Use of Tranexamic Acid to Reduce Surgical Blood Loss: A Review Basic Science, Subspecialty Studies, and The Evolution of Use in Spine Deformity Surgery. (*Clinical Spine Surgery*; 2019 Feb 15)

Deeptee Jain, **Kushagra Verma**, Jun Mizutani, Bobby Tay, Shane Burch, Vedat Deviren. “Comparison of Stand-Alone, Transposas Lateral Interbody Fusion at L3-4 and Cranial vs Transforaminal Interbody Fusion at L3-4 and L4-5 for the Treatment of Lumbar Adjacent Segment Disease” (*Int J Spine Surg*. 2018 Aug 31;12(4):469-474.)

Tyler Kreitz, Alexi Adan, Saty Verma, **Kushagra Verma** “Predictors of Research Productivity Among Orthopaedic Residents: A Prospective Study” (*J Am Acad Orthop Surg*. 2018 Sep 24 doi: 10.5435)

David Gendelburg, Casey Slattery, **Kushagra Verma** “Guidelines on How to Perform a Meta-Analysis: Strengths and Weaknesses of Design” (*Clin Spine Surg*. 2018 Sep 15. doi: 10.1097)

Courtney Toombs, **Kushagra Verma**, Baron S Lonner, David Feldman, Joseph Dryer, Thomas Errico, “Analysis of Factors Associated with Blood Loss in Neuromuscular Scoliosis Surgery” (*HJD Journal*, 2018;76(3):207-15)

Casey Slattery, Boris Kovalenko, **Kushagra Verma** “Congenital Shoulder Dislocation Identified at Birth After a Non-Traumatic Twin Caesarian Delivery: Case Report, Management Recommendations, And A Review of The Literature” (*Radiol Case Rep*. 2018 Jul 18;13(5):920-924)

Casey Slattery, **Kushagra Verma**, Fernando Rios, Gregory Mundis Jr, Oheneba Boachie-adjei, Anthony Rinella “Approaching Spine Research in an Outreach Setting – What Type of Infrastructure Is Conducive for Conducting Research?” (*Clin Spine Surg.* 2018 Aug 4)

Casey Slattery, Samantha Sokol, **Kushagra Verma** “Understanding Classification Systems in Spine Deformity” (*Clin Spine Surg, 2018*)

Casey A. Slattery, **Kushagra Verma** “Classification in Brief: Lenke Classification of Adolescent Idiopathic Scoliosis” (*CORR, 2018*)

**Kushagra Verma**, Casey A. Slattery, Henry Duah, Kawdwo Poku Yankey, Oheneba Boachie-Adjei “Comprehensive Assessment of Outcomes from Patients with Severe Early Onset Scoliosis Treated with A Vertebral Column Resection: Results from An SRS Global Outreach Site (FOCOS) in Ghana” (*JPO, April 30, 2018* doi: 10.1097)

Casey A. Slattery, **Kushagra Verma** “Classification in Brief: Schwab Classification of Adult Spinal Deformity” (*Clin Orthop Relat Res.* 2018 Sep;476(9):1890-1894)

Khanna K, Padegimas EM, Zmistowski B, Howley M, **Verma K.** “The Drivers of Medicare Reimbursement for Thoracolumbar Fusion: An Analysis of Data from The Centers For Medicare and Medicaid Services” *Spine (Phila Pa 1976).* 2017 Mar 23)

Mizutani J, **Verma K**, Endo K, Ishii K, Abumi K, Yagi M, Hosogane N, Yang J, Tay B, Deviren V, Ames C. “Global Spinal Alignment in Cervical Kyphotic Deformity: The Importance of Head Position and Thoracolumbar Alignment in the Compensatory Mechanism. (*Neurosurgery.* 2017 Jun 7. doi: 10.1093)

Michael Safaee, Joseph A Osorio, **Kushagra Verma**, Shay Bess, Christopher I. Shaffrey, Justin S. Smith, Robert Hart, Vedat Deviren, Christopher P. Ames "Proximal junctional kyphosis prevention strategies: a video technique guide" (*Oper Neurosurg, 2017, Oct 1;13(5):581-585*)

Anthony Boniello, **Kushagra Verma**, Thomas Errico, Austin Peters, Tessa Hunke, Kirsten Boenigk, Baron S. Lonner “Preoperative Autologous Blood Donation Does Not Effect Pre-precision Hematocrit in Adolescent Idiopathic Scoliosis. A Retrospective Cohort of a Prospective Randomized Trial.” (*Int J Spine Surg.* 2016 Aug 16;10:27)

**Kushagra Verma**, Senthil Nathan, Carly Comer, Yuan Ren, Baron Lonner, Suken A. Shah “A Normative Baseline For The SRS-22 From Over 1000 Healthy Adolescents In India: Which Demographic Factors Affect Outcome?” (*Spine, 2017, Jul 1;42(13):1011-2016*)

Eric Padegimas, **Kushagra Verma**, Benjamin Zmistowski, Richard Rothman, James Purtill, Michael Howley “Medicare Reimbursement for Total Joint Arthroplasty—What are the Driving Forces?” (*JBJS Am, 2016, Jun 15; 98(12): 1001 -1006*)

**Kushagra Verma**, Anthony Boniello, Jeffrey Rihn “Fixation Options for Posterior Fusion in the Lumbar Spine” (*JAAOS, 6/2016, Vol 24(6): p357 - 364*)

**Kushagra Verma**, Eitan Kohan, Christopher Ames, Dana L. Cruz, Vedat Deviren, Sigurd Berven, Thomas Errico “A Comparison of Two Different Dosing Protocols for Tranexamic Acid in Posterior Spinal Fusion for Spinal Deformity: A Prospective, Randomized Trial” *IJSS*, Nov 2015: Vol 9: 65; doi: 10.14444/2065

Prakash Sitoula, **Kushagra Verma**, Laurens Holmes Jr, Peter G. Gabos, James O. Sanders, Petya Yorgova, Geraldine Neiss, Kenneth Rogers, Suken A. Shah “The Simplified Skeletal Maturity Method and its Correlation with Curve Progression in Idiopathic Scoliosis” *Spine*, Jul 2015: Vol 40(13): 1006-1013

**Kushagra Verma**, Jake Fennessy, Ronald Huang, Pascal Jabbour, Jeffrey Rihn “Spinal dural arterovenous fistula presenting as a recurrent nucleus pulposus herniation: Case Report and Literature Review” *JBJS CC*, Jul 8, 2015: 5(3):e59

Sapan D. Gandhi, **Kushagra Verma**, Suken A. Shah, Baron S. Lonner. “Management of Blood Loss in Spinal Deformity Surgery” *Curr Ortho Practice* May/June, Vol 16(3): 291-298

Austin Peters, **Kushagra Verma**, Kseniya Slobodyanyuk, Thomas Cheriyan, Baron S. Lonner, Thomas Errico “Antifibrinolytics reduce blood loss in adult spinal deformity surgery: a prospective, randomized trial” *Spine*, Apr 15, 2015: 40(8):E443-9

Danielle Ponzio, David Pedowitz, **Kushagra Verma**, Mitchell Malenfort, Steven Raikin. “Does Postoperative Bunion Taping Prevent Recurrence?” *FAI*, July 2015, 36(7):820-6

Per Trobisch, **Kushagra Verma** “Vertebral Body Replacement by Posterior Approach for Metastatic Disease in the Thoracic Spine - Modified Technique Using an Expandable Cage” *Oper Orthop Traumatol*, June 27, 2015: 27(3):270-80

**Kushagra Verma**, Prakash Sitoula, Peter Gabos, Kerry Loveland, James O. Sanders, Satyendra Verma, Suken A. Shah “Inter and Intra-Observer Reliability of The Simplified Skeletal Maturity Scoring System” *Spine* 2014: Vol 39(26): pE1592 – E1598

**Kushagra Verma**, Thomas Errico, Austin Peters, Tessa Hunke, Kirsten Boenigk, Baron S. Lonner “The Relative Efficacy of Antifibrinolytics in Adolescent Idiopathic Scoliosis: A Prospective Randomized Trial” *JBJS* May 2014, 96(10): 1-10

**Kushagra Verma**, Baron Lonner, Courtney S. Toombs, Paige Ferrise, Bettye Wright, Akilah King, Oheneba Boachie-Adjei. ”International Utilization of the SRS-22 Instrument to Assess Outcomes in Adolescent Idiopathic Scoliosis. What Can We Learn From A Medical Outreach Group in Ghana? *JPO*, February 2014

**Kushagra Verma**, Tracey Crothers, Brian Neuman, Alexander Vaccaro, Joshua Heller “A Case of Intradural Extramedullary Spinal Tuberculosis Diagnosed 8 Years After Treatment of the Primary Infection” *JBJS CC* 2013, 3(4): 1-5

Chris Diefenbach, Marc Ialenti, Baron Lonner, Jonathan Kamerlink, **Kushagra Verma**, Thomas Errico “Cost analysis of neuromuscular scoliosis correction surgery in 73 consecutive cases.” *Bull Hosp Jt Dis* 2013, 71(4): 272-7

**Kushagra Verma**, Baron Lonner, Laura Dean, David Vecchione, Kathryn Kean “Predictors of Postoperative Infection In Spine Deformity Surgery – Which Curves Are At Greatest Risk?” *Bull Hosp Jt Dis* 2013, 71(4): 257-64

**Kushagra Verma**, Sapan D. Gandhi, Mitchell Maltenfort, Todd Albert, Alan Hilibrand, Alexander Vaccaro, Kristin Radcliff “The Rate of Adjacent Segment Disease in Cervical Disc Arthroplasty Versus Single Level Fusion: A Meta-Analysis of Prospective Studies” *Spine* 2013, Dec 15;38(26):2253-7

Anthony Boniello, **Kushagra Verma**, Julie Sees, Freedman Miller, Kirk Dabney “Delayed Abdominal Compartment Syndrome Following Posterior Spinal Fusion with Unit Rod Instrumentation: Case Report and Literature Review” *Spinal Deformity* 2013, Nov; 1(6): 464-7

**Kushagra Verma**, David Vecchione, Laura Dean, Thomas Errico, Baron Lonner “Reduction of MAP during surgical exposure safely reduces operative blood loss and transfusion requirements in AIS” *Spine Deformity* 2013, Mar; 1(2):115-122

Marc Ialenti, Baron Lonner, **Kushagra Verma**, Laura Dean, Thomas Errico “Estimating operating blood loss in AIS: Can blood loss be predicated?” *JPO* 2013, Jun; 33(4):372-6

Jonathan Berliner, **Kushagra Verma**, Baron Lonner, Neil Bharucha, Phedra Penn,. “Discriminative validity of the Scoliosis Research Society 22 questionnaire among five curve-severity subgroups of adolescents with idiopathic scoliosis” *Spine J*, 2013 Feb;(13)2:127-133

Per Trobisch, Pedro Ricart, **Kushagra Verma** “Clinical and demographic characteristics of online community members – Does it represent reality?” *The Spine J*. 2011 Sep;11(9): 826-31

**Kushagra Verma**, Baron Lonner, Kristin Kean, Laura Dean, Antonio Valdevit “Maximal pulmonary recovery after spinal fusion for adolescent idiopathic scoliosis: Does surgical approach have a lasting effect?” *Spine J*. 2011 Jun 15;36(14):1086-95

**Kushagra Verma**, Joshua Auerbach, Kristin E Kean, Firas Chamas, Matthew Vorsanger, Baron S Lonner “Anterior spinal fusion for thoracolumbar scoliosis: Comprehensive assessment of radiographic, clinical, and pulmonary outcomes on 2 years follow-up” *J Pediatr Orthop*. 2010 Oct-Nov;30(7):664-9.

**Kushagra Verma**, Thomas Errico, Kenneth Vaz, Baron S Lonner, “A prospective, randomized, double-blinded control study comparing blood loss prevention of tranexamic acid (TXA) to epsilon aminocaproic acid (EACA) for corrective spinal surgery” *BMC Surg*. 2010 Apr 6;10:13

**Kushagra Verma**, Lonner BS, Jane Hoashi, Itzhak Engel, Laura Dean, Yael Goldstein “Demographic factors affect SRS-22 performance in healthy adolescents: A comparative baseline for adolescent idiopathic scoliosis” *Spine* 2010 Nov 15;35(24):2134-9\*



Kenneth Vaz, **Kushagra Verma**, Themis Protopsaltis, Frank Schwab, Baron Lonner, Thomas Errico “Bone Grafting Options for Lumbar Spine Surgery: A Review Examining Clinical Efficacy and Complications” *IJSS* 2010,4;75-86

### **Book Chapters (8)**

**Kushagra Verma**, Baron Lonner, Thomas Errico “Untreated Late-Onset Idiopathic Scoliosis and Revision Surgery in Adults” *Harms Study Group (Submitted 2/2018)*

Casey A. Slattery, **Kushagra Verma**, Sam Sokol, Sigurd Berven “Sagittal Plane Malalignment and Degenerative Scoliosis in the Aging Spine” *Spine Surgery in an Aging Population: Surgical and Non-Surgical Options, Thieme Publishers (In Press, 2019)*

John Oren, **Kushagra Verma**, John K. Houten, and Thomas J. Errico. “History of Spinal Instrumentation - The Modern Era”. *Benzel, Spine Surgery 4<sup>th</sup> Edition, Ch.2 (2016)*

**Kushagra Verma**, Alan S. Hilibrand “Cervical traction and reduction techniques” *Clinical Decision Support System: Spine Surgery (2015)*

Carly Comer, **Kushagra Verma**, Suken A. Shah. “Infantile Scoliosis” *Clinical Decision Support System: Spine Surgery (2015)*

Eitan Kohan, **Kushagra Verma**, John Abraham. “Complications of Sacropelvic Reconstruction for Tumor” *Spine Instrumentation, 2<sup>nd</sup> Edition. Ch47 (2015)*

**Kushagra Verma**, Jeffrey Rihn, Alexander Vaccaro. “Transfacet, Translaminar, and Cortical Screw Fixation of the Lumbar Spine.” *Lumbar Spine Surgery, Jaypee Publishers (2014)*

**Kushagra Verma**, John K. Houten, and Thomas J. Errico. “History of Spinal Instrumentation - The Modern Era”. *Benzel, Spine Surgery 3<sup>rd</sup> Edition, Ch.2 (2012)*

### **Non-Peer Reviewed Publications (5)**

#### Manuscripts (2)

Sapan D. Gandhi, **Kushagra Verma**, Todd Albert, Alan Hilibrand, Alexander Vaccaro, Kristin Radcliff “How Often is Adjacent Segment Disease Reported? A Systematic Review of Prospective Studies Comparing Total Disc Arthroplasty vs. ACDF” (*Seminars in Spine Surgery, 2013 Sept; 25(13): 205-208*)

Christina Gutowski, **Kushagra Verma**, Suken A. Shah, Peter Gabos “Its Always Sunny In The Operating Room: The Effects of Weather on Operative Pediatric Volume at One Institution” (*Jefferson Orthopaedic Society Journal, May, 2014*)

#### Media/Other (3)

**Kushagra Verma** “Rheumatoid Arthritis Are at Increased Risk of Joint Damage in the Neck” *US News and World Report, July 28<sup>th</sup> 2017*

**Kushagra Verma.** “Turning Compassion Into Action: A Medical Student’s Perspective” *FOCOS Annual Report (2008-2009)*

**Kushagra Verma,** Sourav Bhunia. “Evaluation of the Abiocor motor efficiency using a continuous flow hydraulic test” *Abiomed Registry, Company Confidential (2002)*

### **Presentations (89)**

Baron Lonner, **Kushagra Verma**, Yuan Ren, Chanland Roonprapunt, Ahmet Alanay, Mohamad Bazerbashi, Mark A. Buehler, Manoj K Kodigudla, Amey V. Kelkar, Vijay Goel  
“The Transverse Process Trajectory Technique- A New Pathway to the Thoracic Pedicle in the Deformed Spine” *Submitted to Scoliosis Research Society (SRS): 2018*

Lori A. Dolan, Stuart L. Leslie Weinstein, Prakash Sitoula, **Kushagra Verma**, Kenneth J. Rogers, Suken A. Shah, Mark F. Abel, Oheneba Boachie-Adjei, Jacques L. D'Astous, Matthew B Dobbs Dobbs, John B/ Emans, John M. Flynn, Daniel W. Green, Matthew F. Halsey, Kim W. Hammerberg, Michael T. Hresko, Henry J. Iwinski, Antony Kallur, Walter F. Krengel, Charles T. Mehlman, Peter O. Newton, Jean A. Ouellet, Nigel J. Price, Christopher W. Reilly, James O. Sanders, Michael L Schmitz, Richard M. Schwend, Peter F. Sturm, W. Timothy Ward  
“Development and Validation of Prognostic Model Using the Sanders Maturity Stage in Untreated AIS” *Submitted to Scoliosis Research Society (SRS): 2018*

### Podium (35)

Prakash Sitoula MD, **Kushagra Verma MD**, Peter G. Gabos MD, James O. Sanders, Kenneth J. Rogers PhD, Suken A. Shah MD “Correlation of the Sanders Skeletal Maturity Stage with Risser Stage in Adolescents with Idiopathic Scoliosis” *American Academy of Orthopaedic Surgeons (AAOS): 2018*

Prakash Sitoula MD, **Kushagra Verma MD**, Peter G. Gabos MD, James O. Sanders, Kenneth J. Rogers PhD, Suken A. Shah MD “Correlation of the Sanders Skeletal Maturity Stage with Risser Stage in Adolescents with Idiopathic Scoliosis” *Scoliosis Research Society (SRS): 2017*

Deeptee Jain, **Kushagra Verma**, Jun Mizutani, Bobby Tay, Shane Burch, Vedat Deviren  
“Stand-alone minimally invasive lateral lumbar interbody fusion for the treatment of adjacent segment disease: a case series” *Society of Lateral Access Surgeons (SOLAS): 2016*

**Kushagra Verma**, Deeptee Jain, Vedat Deviren Multilevel Stand Alone Anterior Interbody Fusion: A Comprehensive Assessment of Radiographic, Operative, And Clinical Outcomes With Up to Two Years Follow-Up” *Society of Lateral Access Surgeons (SOLAS): 2016*

Eric Padegimas, Benjamin Zmistowski, **Kushagra Verma**, James Purtill "What Factors Affect Inpatient Charges for Total Joint Arthroplasty - Is it Quality?" *American Academy of Orthopaedic Surgeons (AAOS): 2015*

Benjamin Zmistowski, **Kushagra Verma**, Eric Padegimas, James Purtill "Medicare Reimbursement for Total Joint Arthroplasty: What are the Driving Forces?" *American Academy of Orthopaedic Surgeons (AAOS): 2015*

**Kushagra Verma**, Eric Padegimas, Benjamin Zmistowski, Suken A. Shah, Todd Albert, Alexander Vaccaro, Kristen Radcliff, Alan Hilibrand “How Does State Income and The Number of Uninsured Patients Relate To Hospital Charges For Spine Care?” *Eastern Orthopaedic Association (EOA): 2014*

**Kushagra Verma**, Suken A. Shah, Firoz Miyanji, Peter O. Newton, Burt Yaszay, Maty Petcharaporn, Tracey Bastrom, Unni Narayanan, Paul D. Sponseller “Restoring Sagittal Balance Improves Clinical Outcomes For Cerebral Palsy Patients with Spinal Deformity” *Eastern Orthopaedic Association (EOA): 2014*

**Kushagra Verma**, Senthil Nathan, Yuan Ren, Baron Lonner, Suken A. Shah A Normative Baseline For The SRS-22 From Over 1000 Healthy Adolescents In South East Asia: Which Demographic Factors Affect Outcome? *Eastern Orthopaedic Association (EOA): 2014*

Eric Padegimas, Benjamin Zmistowski, **Kushagra Verma**, James Purtill "What Factors Affect Inpatient Charges for Total Joint Arthroplasty" *Eastern Orthopaedic Association (EOA): 2014*  
**\*Awarded EOA resident travel grant**

**Kushagra Verma**, Suken A. Shah, Geraldine Neiss, Petya Yorgova, Leok Lim Lau, Firoz Miyanji, Peter O. Newton, Burt Yaszay, Maty Petcharaporn, Tracey Bastrom, Unni Narayanan, Paul D. Sponseller “Restoring Sagittal Balance Improves Clinical Outcomes For Non-Ambulatory Cerebral Palsy Patients with Spinal Deformity” *International Meeting for Advanced Spine Techniques (IMAST): 2014*

Danielle Ponzio, **Kushagra Verma**, Mitchell Malenfort, David Pedowitz, Steven Raikin “Does Post-Operative Bunion Taping Prevent Recurrence?” *Jefferson Orthopaedic Society (JOS): 2014*

Prakash Sitoula, **Kushagra Verma**, Laurens Holmes Jr, Peter G. Gabos, James O. Sanders, Petya Yorgova, Geraldine Neiss, Kenneth Rogers, Suken A. Shah “The Simplified Skeletal Maturity Method and its Correlation with Curve Progression in Idiopathic Scoliosis” *Association of Spine Surgeon of India (ASSICON): 2014*

Danielle Ponzio, **Kushagra Verma**, Mitchell Malenfort, David Pedowitz, Steven Raikin “Does Post-Operative Bunion Taping Prevent Recurrence?” *American Academy of Orthopaedic Surgeons (AAOS): 2014*

Austin Peters, **Kushagra Verma**, Kseniya Slobodyanyuk, Thomas Cheriyan, Baron S. Lonner, Thomas Errico “Antifibrinolytics Reduce Blood Loss In Adult Spinal Deformity Surgery: A prospective, Randomized Trial” *American Academy of Orthopaedic Surgeons (AAOS): 2014*

**Kushagra Verma**, Christina Gutowski, Eleanor Lewin, James Costanzo, Peter Gabos “Its Always Sunny In The Operating Room: The Effects of Weather on Operative Pediatric Volume at One Institution” *Eastern Orthopaedic Association (EOA): 2013*

Prakash Sitoula, **Kushagra Verma**, Laurens Holmes Jr, Peter G. Gabos, James O. Sanders, Petya Yorgova, Geraldine Neiss, Kenneth Rogers, Suken A. Shah “The Simplified Skeletal Maturity

Method and its Correlation with Curve Progression in Idiopathic Scoliosis” *Eastern Orthopaedic Association (EOA): 2013*

Austin Peters, **Kushagra Verma**, Kseniya Slobodyanyuk, Thomas Cheriyan, Baron S. Lonner, Thomas Errico “Antifibrinolytics Reduce Blood Loss In Adult Spinal Deformity Surgery: A prospective, Randomized Trial” *North American Spine Society (NASS): 2013\**  
**\* Finalist, Best Clinical Paper**

Prakash Sitoula, **Kushagra Verma**, Laurens Holmes Jr, Peter G. Gabos, James O. Sanders, Petya Yorgova, Geraldine Neiss, Kenneth Rogers, Suken A. Shah “The Simplified Skeletal Maturity Method and its Correlation with Curve Progression in Idiopathic Scoliosis” *Scoliosis Research Society (SRS): 2013*

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