



**California Medical Evaluators**  
11620 Wilshire Blvd. Suite 340  
Los Angeles, CA 90025  
**Phone:** 888.853.7944  
**Fax:** 213.478.0550  
info@calmedeval.com



**Dr. Kushagra Verma, MD, MS, QME**  
*Board Certified in Orthopedic Surgery*

*Articulate, Board certified Orthopedic Surgery with more than 15 years of clinical expertise and 1 year of medical-legal expertise. Highly specialized in Orthopedic Spine Surgery.*

## EDUCATION

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- **Cornell University School of Engineering, Ithaca, NY (2004)**  
Bachelor of Science, Biomedical Engineering
- **NYU Graduate School of Arts and Sciences, New York, NY (2005)**  
Master of Science, Molecular Biology
- **NYU Graduate School of Medicine, New York, NY (2010)**  
Doctor of Medicine, MD
- **Thomas Jefferson University, Rothman Institute, Philadelphia, PA (2015)**  
Residency, Orthopedic Surgery
- **University of California, San Francisco, CA (2016)**  
Fellowship, Adult and Pediatric Spine

## PROFESSIONAL EXPERIENCE

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- **Verma Spine, Private Practice, Orthopedic Surgeon (2018 to present)**

## ACADEMIC APPOINTMENTS

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- University of Washington, Assistant Professor (2016 to 2018)
- Long Beach Memorial, Faculty (2019 to present)
- Western University of Health Sciences, Clinical Assistant Professor (2019 to present)

## LICENSURE AND CERTIFICATION

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- American Board of Orthopedic Surgeons
- California Board Certified Medical License
- Washington Board Certified Medical License

## PROFESSIONAL MEMBERSHIPS

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- American Academy of Orthopedic Surgeons
- Scoliosis Research Society

## HONORS AND AWARDS

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- 2010 Recipient of Russell Hibbs Award; Best Clinical Paper, Scoliosis Research Society
- 2011 Finalist for Best Clinical Paper, North American Spine Society
- 2011 Finalist for Thomas Whitecloud Award; Best Clinical Paper, International Meeting for Advanced Spine Techniques
- 2013 Finalist for Best Clinical Paper, North American Spine Society
- 2013 Finalist for Russell Hibbs Award in Clinical Science: Best Clinical Paper, Scoliosis Research Society
- 2014 Recipient of AAOS/OREF/ORS Clinician Scholar Development Program, Scoliosis Research Society
- 2014 Recipient of EOA Resident Travel Grant, Eastern Orthopedic Society
- 2016 Recipient of Young Investigator Award, Society of Lateral Access Surgeons
- 2016 Recipient of K2M Fellowship Award, Accra Ghana, Foundation for Orthopedics and Complex Spine
- 2017 Finalist for Faculty Teaching Award, University of Washington
- 2018 Recipient of Edgar Dawson Traveling Fellowship, Scoliosis Research Society
- 2019 Recipient of Top Doctor Award, Los Alamitos, CA

## RESEARCH & PUBLICATIONS

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### Publications

Baron Lonner, **Kushagra Verma**, Chanland Roonprapunt, Yuan Ren, Casey A Slattery, Ahmet Alanay, Gabrielle Kassin, Mohamad Bazerbashi, Mark A. Buehler, Manoj K Kodigudla, Amey V. Kelkar, Hassan Serhan, Vijay Goel “The Transverse Process Trajectory Technique: An Alternative for Thoracic Pedicle Screw Implantation- Radiographic and Biomechanical Analysis” (*Accepted IJSS, 9/2019*)

Lori A. Dolan, Stuart L. Weinstein, Mark F. Abel.... **Kushagra Verma** “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*

*Deformity, 2019 Nov7(6): 890–898.e4 )*

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?” (*Int J Spine Surg, 2019: April 30;13(2): 153-157*)

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)

**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** a. “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-incision 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 predated?” *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