



Michael T Nolte, M.D.

EDUCATION/TRAINING

- 2022-2023 **Spine Surgery Fellowship**
Thomas Jefferson University and the Rothman Orthopaedic Institute - Philadelphia, PA
- 2017-2022 **Orthopaedic Surgery Residency**
Rush University Medical Center, Chicago, IL
- 2013-2017 **Doctor of Medicine**
University of Michigan Medical School, Ann Arbor, MI
- 2009-2013 **Bachelor of Science, Biological Sciences**
University of Notre Dame, Notre Dame, IN
- 2005-2009 **High School Diploma**
Marquette University High School, Milwaukee, WI

LICENSURE & CERTIFICATION

State of Wisconsin; ACTIVE, 82494-20
ABOS Part I Examination; PASS, 95th percentile

TEAM AFFILIATIONS

Philadelphia Eagles, National Football League, 2022-2023
Philadelphia 76ers, National Basketball Association, 2022-2023
Philadelphia Phillies, Major League Baseball, 2022-2023
Chicago Bulls, National Basketball Association, 2017-2022
Chicago White Sox, Major League Baseball, 2017-2022

HONORS & AWARDS

- Golden Apple Award, Outstanding Chief Resident, Department of Orthopaedic Surgery, *Rush University Medical Center* - 2022
- Chief Resident Best Research Award, Department of Orthopaedic Surgery, *Rush University Medical Center* - 2022
- Best Clinical Science Study Award, "Epidemiology, Risk Factors and Clinical Impact of Juvenile Modic Changes in Pediatric Patients with Low Back Pain," *International Society for the Study of the Lumbar Spine* - 2022
- Best Paper Finalist, "Usage Trends and Safety Profile of Recombinant Human Bone Morphogenetic Protein-2 for Spinal Column Tumor Surgery: A National Matched Cohort Analysis." *Annual Meeting of the North American Spine Society* - 2022
- Best Paper, "Catastrophic Acute Failure of Pelvic Fixation in Adult Spinal Deformity Requiring Revision Surgery: A Multicenter Review of Incidence, Failure Mechanisms, and Risk Factors." *Annual Meeting of the North American Spine Society* - 2021
- Best Paper Finalist, "Pediatric Back Pain: a Scoring System to Guide Use of Magnetic Resonance Imaging" *Annual Meeting of the Pediatric Orthopaedic Society of North America* - 2021
- Best Paper Finalist, "The Development of a Predictive Scoring System for Discharge to a Facility Following Surgical Treatment of Adult Spinal Deformity" *Annual Meeting of the Rush University Surgical Society* - 2019

Best Paper Finalist, "Degenerative Cervical Spondylolisthesis: Does Adjacent Level Surgical Stabilization Result In Progressive Listhesis?" *Annual Meeting of the American Academy of Orthopaedic Surgeons* - 2019

Highest Score Amongst National Class, *Orthopaedic In-Training Examination (OITE)* - 2018

Best Paper, "Blood Transfusions and Surgery: Does Age of Blood Matter?" *Annual Reed O. Dingman Research Symposium* - 2016

Graduated with Honors, Academic Distinction and Research Distinction, *University of Michigan Medical School* - 2017

David Porter Memorial Merit Scholarship, Joel and Hilda Hamburger Merit Scholarship, *University of Michigan Medical School* - 2013-2017

Graduated Glynn Family Honors Program, Magna Cum Laude, and Phi Beta Kappa, *University of Notre Dame* - 2013

Grant Recipient, NHLBI Summer Internship Program, *National Institutes of Health* - 2011

JOURNAL POSITIONS

Reviewer

SPINE, The Spine Journal, Journal of the American Academy of Orthopaedic Surgeons, Global Spine Journal, International Journal of Spine Surgery, North American Spine Society Journal

PUBLICATIONS

Nguyen A, Harvey J, Federico VP, [Nolte MT](#), Khanna K, Gandhi S, Sheha E, Phillips FM. The Effect of Changes in Segmental Lordosis on Global and Adjacent Segment Lordosis After L5-S1 ALIF. *Global Spine Journal*. Accepted August 3, 2023. *In Press*.

Munim MA, Berlinberg E, Federico VP, [Nolte MT](#), Prabhu M, Pawlowski H, Patel KS, Colman MW. Usage Trends and Safety Profile of Recombinant Human Bone Morphogenetic Protein-2 for Spinal Column Tumor Surgery: A National Matched Cohort Analysis. *Global Spine Journal*. 2023 Aug 5:21925682231194248

Federico VP, Zavras AG, Nie JW, Butler AJ, Munim MA, [Nolte MT](#), Lopez GD, An HS, Colman MW, Phillips FM. Does disc distraction after cervical total disc arthroplasty impact range of motion and patient-reported outcomes?. *Journal of Neurosurgery: Spine*. 2023 Jun 2;1(aop):1-0

Zavras AG, Federico VP, Butler AJ, [Nolte MT](#), Dandu N, Phillips FM, Colman MW. Relative Efficacy of Cervical Total Disc Arthroplasty Devices and Anterior Cervical Discectomy and Fusion for Cervical Pathology: A Network Meta-Analysis. *Global Spine Journal*. 2023 Apr 26:21925682231172982.

Federico VP, Zavras AG, Butler A, [Nolte MT](#), Munim MA, Lopez GD, DeWald C, An HS, Colman MW, Phillips FM. Medicare Reimbursement Rates and Utilization Trends in Sacroiliac Joint Fusion. *JAAOS-Journal of the American Academy of Orthopaedic Surgeons*. 2022 May 13:10-5435.

Nguyen AQ, Ukogu C, Harvey JP, Federico VP, [Nolte MT](#), Khanna K, Sheha ED, Gandhi SD, Phillips FM. Increased cage angle effects on radiographic outcomes after stand-alone anterior lumbar interbody fusion. *Journal of Neurosurgery: Spine*. 2023 May 5;1(aop):1-9.

Rudisill SS, Saleh NZ, Hornung AL, Zbeidi S, Ali RM, Siyaji ZK, Ahn J, [Nolte MT](#), Lopez GD, Sayari AJ. YouTube as a source of information on pediatric scoliosis: a reliability and educational quality analysis. *Spine Deformity*. 2022 Aug 20:1-7.

[Nolte MT](#), Luchetti T, Bohl D, Kogan M. Comparison of waterproof versus cotton cast liners on cast index in pediatric forearm fractures. *Acta Orthopædica Belgica*. 2022 Dec 1;88:733-7.

Zavras AG, Sullivan TB, Federico VP, [Nolte MT](#), Munim MA, Phillips FM, Colman MW. Preoperative Multifidus Muscle Quality is Associated With Patient Reported Outcomes After Lateral Lumbar Interbody Fusion. *Global Spine Journal*. 2022 Aug 19:21925682221120400.

Nolte MT, Gandhi SD, Nguyen AQ, Siyaji ZK, Piracha AZ, Khanna K, Rush III AJ, Sheha ED, Phillips FM. Rates of Postoperative Complications and Approach-related Neurological Symptoms After L4–L5 Lateral Transposas Lumbar Interbody Fusion Compared With Upper Lumbar Levels. *Clinical Spine Surgery*. 2022 Aug 10:10-97.

Martin CT, Holton KJ, Kim HJ, Hu SS, Yoon T, Lieberman IS, Nolte MT, DeWald CJ, Colman MW, Phillips FM, Anand N, Polly DW, et al. Catastrophic acute failure of pelvic fixation in adult spinal deformity requiring revision surgery: a multicenter review of incidence, failure mechanisms, and risk factors. *Journal of Neurosurgery: Spine*. 2022 Sep 2;38(1):98-106

Zavras AG, Federico VP, Nolte MT, Butler AJ, Dandu N, Munim MA, Harper DE, Lopez GD, DeWald CJ, An HS, Singh K, Phillips FM, Colman MW. Risk Factors for Subsidence following Anterior Lumbar Interbody Fusion. *Global Spine Journal*. Accepted May 11, 2022. *In Press*.

Lynch CP, Cha EDK, Jenkins NW, Parrish JM, Nolte MT, Geoghegan CE, Jadcak CN, Mohan S, Singh K. Influence of Preoperative Depressive Burden on Achieving a Minimal Clinically Important Difference Following Lumbar Decompression. *Clinical Spine Surgery*. 2022 May 5:10-97

Federico VP, Higgins J, Nolte MT, Kogan M. Promoting Wellness in Orthopaedic Surgery Residency. *Journal of the American Academy of Orthopaedic Surgeons*. 8 Mar 2022; 6(3):1-8

Colman MW, Zavras AG, Federico VP, Nolte MT, Singh K, Phillips FM. A Longitudinal Assessment of Segmental Motion of the Cervical Spine Following Total Disc Arthroplasty: A Comparative Analysis of Devices. *Journal of Neurosurgery: Spine*. 2022 Apr 15;1(aop):1-7

Zavras AG, Dandu N, Nolte MT, Butler AJ, Federico VP, Sayari AJ, Sullivan TB, Colman MW. Segmental Range of Motion Following Cervical Total Disc Arthroplasty at Long-Term Follow Up: A Systematic Review and Meta-Analysis. *Journal of Neurosurgery: Spine*. 2022 Apr 22;1(aop):1-9.

Mallow GM, Zepeda D, Kuzel TG, Barajas N, Aboushaala K, Nolte MT, Espinoza-Orias A, Oh C, Colman MW, Kogan M, Phillips FM, An HS, Samartzis D. ISSLS PRIZE in Clinical Science 2022: Epidemiology, Risk Factors and Clinical Impact of Juvenile Modic Changes in Pediatric Patients with Low Back Pain. *European Spine Journal*. 2022 Feb 7:1-1

Zavras AG, Nolte MT, Piracha AZ, Qadri T, Caicedo D, Sayari AJ, Shepard NA, Colman MW. Table-Mounted versus Self-Retaining Retraction: An Assessment of Postoperative Dysphagia Following Anterior Cervical Spine Surgery. *Global Spine Journal*. Accepted December 29, 2021. *In Press*.

Zavras AG, Nolte MT, Siyaji ZK, Sayari AJ, Singh K, Colman MW. Stand-Along Cage versus Anterior Plating for One- and Two-Level Anterior Cervical Discectomy and Fusion: A Randomized Controlled Trial. *Clinical Spine Surgery*. Accepted December 15, 2021. *In Press*.

Nolte MT, Harada GK, LeDuc R, Sayari AJ, Basques BA, Louie PK, Colman MW, Goldberg EJ, DeWald CJ, Phillips FM, Kogan M, An HS, Samartzis D. Pediatric Back Pain: a Scoring System to Guide Use of Magnetic Resonance Imaging. *Journal of Pediatric Orthopaedics*. 2022 Feb 1;42(2):116-22.

Nolte MT, Cha EDK, Lynch CP, Jacob KC, Patel MR, Geoghegan CE, Jadcak CN, Mohan S, Singh K. Change in Patient Reported Outcome Measures as Predictors of Revision Lumbar Decompression Procedures. *Neurospine*. 2021 Dec;18(4):863

Nolte MT, Parrish JM, Jenkins NW, Cha EDK, Lynch CP, Jacob KC, Patel MR, Jadcak CN, Geoghegan CE, Mohan S, Podnar J, Buvanendran A, Singh K. Multimodal Analgesic Management for Lumbar Decompression Surgery in the Ambulatory Setting: Clinical Case Series and Review of the Literature. *World Neurosurgery*. 2021 Oct 1;154:e656-64

Jenkins NW, Parrish JM, Nolte MT, Jadcak CN, Geoghegan CE, Mohan S, Hrynewycz NM, Singh K. Charlson Comorbidity Index: An Inaccurate Predictor of Minimally Invasive Lumbar Spinal Fusion Outcomes. *Int Journal of Spine Surgery*. 2021 Aug 1;15(4):770-9

Rush AJ, Shepard N, Nolte MT, Siemionow K, Phillips F. Augmented Reality in Spine Surgery: Current State of the Art. *International Journal of Spine Surgery*. 2022 Oct 1;16(S2):S22-7

Nolte MT, Tornetta P 3rd, Mehta S, Ponce BA, Grabowski G, Turner NS, Spitnale MJ, Kogan M. Resident Wellness During the COVID-19 Pandemic: A Nationwide Survey of Orthopaedic Residents. *Journal of the American Academy of Orthopaedic Surgeons*. 2021 May 15;29(10):407-13

Jenkins NW, Parrish JM, [Nolte MT](#), Jadczyk CN, Mohan S, Geoghegan CE, Hrynewycz NM, Podnar J, Buvanendran A, Singh K. Multimodal Analgesic Management for Cervical Spine Surgery in the Ambulatory Setting. *Int Journal of Spine Surgery*. 2021 Apr 1;15(2):219-27.

Sayari AJ, Harada GK, Basques BA, Louie PK, Gandhi SD, Banks L, Sung AS, [Nolte MT](#), Gosse J, An HS. Duration of Symptoms Does Not Affect Clinical Outcome after Lumbar Arthrodesis. *Clinical Spine Surgery*. 2021 Mar 18;34(2):E72-9.

[Nolte MT](#), Parrish JM, Jenkins NW, Cha EDK, Lynch CP, Jadczyk CN, Mohan S, Geoghegan CE, Hrynewycz NM, Singh K. Validation of VR-12 Physical Function in Minimally Invasive Transforaminal Lumbar Interbody Fusion. *Int Journal of Spine Surgery*. 2021 Nov 1;155:e362-8

[Nolte MT](#), Parrish JM, Jenkins NW, Cha EDK, Lynch CP, Mohan S, Geoghegan CE, Jadczyk CN, Hrynewycz NM, Singh K. The Influence of Comorbidity on Postoperative Outcomes Following Lumbar Decompression. *Clinical Spine Surgery*. 2021 Aug 16;34(7):E390-6

[Nolte MT](#), Harada GK, Louie PK, McCarthy MH, Sayari AJ, Mallow GM, Siyaji Z, Germscheid N, Cheung JP, Neva MH, El-Sharkawi M, Valacco M, Sciubba DM, Chutkan NB, An HS, Samartzis D. COVID-19: Current and Future Challenges in Spine Care and Education – A Worldwide Study. *Journal of Orthopaedic Research – Spine*. 2020 Dec 5;3(4):e1122.

Lu Y, Agarwalla A, Patel BH, [Nolte MT](#), Cancienne JM, Verma NN, Cole BJ, Forsythe B. Influence of Worker's Compensation Status on Postoperative Outcomes in Patients following Biceps Tenodesis: A Matched-Pair Cohort Analysis. *Journal of Shoulder & Elbow Surgery*. 2020 Dec 1;29(12):2530-7.

[Nolte MT](#), Louie PK, Basques BA, Varthi AG, Paul JC, Khurana T, Chaudhri A, Samartzis D, Goldberg EJ, An HS. Patients Undergoing Three Level or Greater Decompression-Only Surgery for Lumbar Spinal Stenosis Have Similar Outcomes to Those Undergoing Single-Level Surgery at Two Years. *Int Journal of Spine Surgery*. 2021 Oct 1;15(5):945-52

Lynch CP, Cha ED, [Nolte MT](#), Mohan S, Jadczyk CN, Geoghegan CE, Singh K. Feasibility of Outpatient Cervical Laminoplasty. *Journal of Orthopaedic Experience and Innovation*. 2020 Oct 2; 17139.

Jenkins NW, Parrish JM, [Nolte MT](#), Hrynewycz NM, Brundage TS, Singh K. Validating the VR-12 physical function instrument after anterior cervical discectomy and fusion with SF-12, PROMIS, and NDI. *HSS Journal*. 2020 Dec;16(2_suppl):443-51

[Nolte MT](#), Lynch CP, Cha ED, Geoghegan CE, Jadczyk CN, Mohan S, Singh K. Transition to Outpatient Minimally Invasive Transforaminal Lumbar Interbody Fusion. *Journal of Orthopaedic Experience and Innovation*. 2020 Aug 6:13907.

[Nolte MT](#), Jenkins NW, Parrish JM, Mohan S, Geoghegan CE, Jadczyk CN, Hrynewycz NM, Singh, K. The Influence of Sex on Clinical Outcomes in Minimally Invasive Lumbar Decompression. *Int Journal of Spine Surgery*. 2021 Aug 1;15(4):763-9.

Parrish JM, Jenkins NW, [Nolte MT](#), Massel DH, Hrynewycz NM, Brundage TS, Singh K. A Validation of Patient Health Questionnaire-9 for Cervical Spine Surgery. *Spine*. 2020 Dec 1;45(23):1668-75.

Kogan M, Klein SE, Hannon CP, [Nolte MT](#). Orthopaedic Education During the COVID-19 Pandemic. *Journal of the American Academy of Orthopaedic Surgeons*. 2020 Jun 1.

Sayari AJ, Harada GK, Louie PK, McCarthy MH, [Nolte MT](#), Mallow GM, Siyaji Z, Germscheid N, Cheung JP, Neva MH, El-Sharkawi M, Valacco M, Sciubba DM, Chutkan NB, An HS, Samartzis D. Personal Health of Spine Surgeons Can Impact Decision-Making and Healthcare Delivery During the COVID-19 Pandemic – A Worldwide Study. *Neurospine*. 2020 Jun 1;17(2):313.

Kunze KN, Khan JM, Louie PK, Ferguson J, Basques BA, [Nolte MT](#), Dewald CJ. High-Grade Spondylolisthesis in Adults: Current Concepts in Evaluation and Management. *Int Journal of Spine Surgery*. 2020 Jun 1;14(3):327-40.

Parrish JM, Jenkins NW, [Nolte MT](#), Massel DH, Hrynewycz NM, Brundage TS, Myers JA, Singh K, Minimally Invasive Spine Study Group. Predictors of Inpatient Admission in the Setting of Anterior Lumbar Interbody Fusion. *Journal of Neurosurgery: Spine*. 2020 May 22;33(4):446-54.

MacLean IS, Lu Y, Patel BH, Agarwalla A, [Nolte MT](#), Lavoie-Gagne O, Forsythe B. A Risk Stratification Nomogram to Predict Inpatient Admissions following Total Shoulder Arthroplasty in Medicare-Aged Patients. *Orthopaedics*. 2022 Jan 1;45(1):43-9.

Iyer S, Yoo JS, Jenkins NW, Parrish JM, Khechen B, Haws BE, [Nolte MT](#), Brundage TS, Hrynewycz NM, Phillips FM, Singh K. All Disclosure is Good Disclosure: Patient Awareness of the Sunshine Act and Perceptions of Surgeon-Industry Relationships. *Clinical Spine Surgery*. 2020 Apr 27;33(3):E96-100.

[Nolte MT](#), Louie PK, Harada GK, Khan JM, Ferguson J, Dewald CJ, An HS. Sagittal Balance in Adult Idiopathic Scoliosis. *Clinical Spine Surgery*. 2020 Mar 31;33(2):53-61.

Khan JM, Harada GK, Basques BA, [Nolte MT](#), Louie PK, Iloanya M, Tchalukov K, Berkowitz M, Derman P, Colman M, An HS. Patients with predominantly back pain at the time of lumbar fusion for low-grade spondylolisthesis experience similar clinical improvement to patients with predominantly leg pain: mid-term results. *The Spine Journal*. 2020 Feb 1;20(2):276-82.

[Nolte MT](#), Nasser JS, Chung KC. A Systematic Review of Orthopedic Global Outreach Efforts Based on WHO-CHOICE Thresholds. *Hand Clinics*. 2019 Nov 1;35(4):487-97.

[Nolte MT](#), Basques BA, Louie PK, Khan JM, Varthi A, Paul J, An HS. Patients Undergoing Revision Microdiscectomy for Recurrent Lumbar Disk Herniation Experience Worse Clinical Outcomes and More Revision Surgeries Compared With Patients Undergoing a Primary Microdiscectomy. *Journal of the American Academy of Orthopaedic Surgeons*. 2019 Sep 1;27(17):e796-803.

Iyer S, Louie PK, [Nolte MT](#), Phillips FM. The Relationship Between Low-Grade Infection and Degenerative Disk Disease: A Review of Basic Science and Clinical Data. *Journal of the American Academy of Orthopaedic Surgeons*. 2019 Jul 15;27(14):509-18.

Movassaghi K, Basques BA, Louie PK, Khan JM, Derman PB, [Nolte MT](#), Paul JC, Goldberg EJ, An HS. The Duration of Symptoms Does Not Impact Clinical Outcomes Following Lumbar Decompression Surgery. *Spine*. 2019 Mar 1;44(5):305-8.

Bohl DD, [Nolte MT](#), Ong K, Lau E, Calkins TE, Della Valle CJ. Computer-assisted navigation is associated with reductions in the rates of dislocation and acetabular component revision following primary total hip arthroplasty. *Journal of Bone and Joint Surgery*. 2019 Feb 6; 101(3):250-6.

[Nolte MT](#), Elboghady IM, Iyer S. Anesthesia and postoperative pain control following spine surgery. *Seminars in Spine Surgery*. 2018 Sep 1; 30(3): 154-159

Yamamoto M, Kurimoto S, Iwatsuki K, Nishizuka T, [Nolte MT](#), Hirata H. Sonography-guided arthroscopic excision is more effective for treating volar wrist ganglion than dorsal wrist ganglion. *Acta Orthopædica Belgica*. 2018 Mar 1;84:1-2018.

[Nolte MT](#), Shauver MJ, Chung KC. Normative Values of the Michigan Hand Outcomes Questionnaire for Patients with and without Hand Conditions. *Plastic and Reconstructive Surgery*. 2017 Sep 1;140(3):425e-33e.

[Nolte MT](#), Shauver MJ, Chung KC, Giladi AM. Effect of policy change on the use of long-distance transport and follow-up care for patients with traumatic finger amputations. *Journal of Hand Surgery*. 2017 Aug 1;42(8):610-7.

Yamamoto M, Natsume T, Kurimoto S, Iwatsuki K, Nishizuka T, [Nolte MT](#), Hirata H. Patients with benign hand tumors are indicated for surgery according to patient-rated outcome measures. *Journal of Plastic, Reconstructive & Aesthetic Surgery*. 2017 Apr 1;70(4):487-94.

Chung KC, [Nolte MT](#), Mahmoudi E. Management strategies in surgical research: the multidisciplinary team. *Journal of Hand Surgery (European Volume)*. 2017 Feb;42(2):213-215.

[Nolte MT](#), Maroukis BL, Chung KC, Mahmoudi E. A systematic review of economic analysis of surgical mission trips using the World Health Organization criteria. *World Journal of Surgery*. 2016 Aug 1;40(8):1874-84.

[Nolte MT](#), Shauver MJ, Chung KC. Analysis of four recruitment methods for obtaining normative data through a Web-based questionnaire: a pilot study. *Hand*. 2015 Jan 14;10:529-534.

[Nolte MT](#), Shauver MJ, Chung KC. Structure and establishing validity in survey research. *Plastic and Reconstructive Surgery*. 2015 Jan 1;135(1):216e-222e.

Ahmad SM, Tansey TR, Busser BW, [Nolte MT](#), Jeffries N, Gisselbrecht SS, Rusan NM, Michelson AM. Two forkhead transcription factors regulate the division of cardiac progenitor cells by a Polo dependent pathway. *Cell: Developmental Cell*. 2012 Jul 17;23(1):97-111.

TEXTBOOK CHAPTERS

[Nolte MT](#), Phillips FM. Cervical Disc Replacement. Rush International Spine Education (RISE) initiative. Published Lectureship Series. 2022.

[Nolte MT](#), DeWald CJ. Management of Perioperative Blood Loss in Spine Surgery. Spinal Deformities: The Comprehensive Text. *In Press*.

[Nolte MT](#), DeWald CJ. Prevention of Surgical Site Infections in Spine Surgery. Spinal Deformities: The Comprehensive Text. *In Press*.

[Nolte MT](#), Basques BA, DeWald CJ. High-Grade Spondylolisthesis in Adults: Current Concepts in Evaluation and Management. Spinal Deformities: The Comprehensive Text. *In Press*.

[Nolte MT](#), Colman MW. Tumor Classification and Staging Systems in Orthopaedic Spine Surgery. Surgical Spinal Oncology: Modern Multidisciplinary Strategies.

[Nolte MT](#), DeWald CJ. Spondylolysis and Spondylolisthesis. Miller's Essential Orthopaedics. 2nd Edition.

PODIUM PRESENTATIONS – NATIONAL/INTERNATIONAL

[Nolte MT](#), Munim MA, Butler A, Zavras AG, Federico VP, Walsh JM, Phillips FM, Colman MW. The Effect of Intraoperative Prone Position on Psoas Morphology and Great Vessel Anatomy: Consequences for Prone Lateral Approach to the Lumbar Spine. North American Spine Society Annual Meeting. Chicago, IL. 2022 Oct 12.

Munim MA, Berlinberg E, [Nolte MT](#), Federico VP, Prabhu M, Pawlowski H, Colman MW. Usage Trends and Safety Profile of Recombinant Human Bone Morphogenetic Protein-2 for Spinal Column Tumor Surgery: A National Matched Cohort Analysis. North American Spine Society Annual Meeting. Chicago, IL. 2022 Oct 12.

Zavras AG, Federico VP, [Nolte MT](#), Dandu N, Munim MA, Harper DE, Lopez GD, DeWald CJ, An HS, Singh K, Phillips FM, Colman MW. Risk Factors for Subsidence following Anterior Lumbar Interbody Fusion. North American Spine Society Annual Meeting. Chicago, IL. 2022 Oct 12.

Butler AJ, Munim MA, Federico VP, [Nolte MT](#), Phillips FM, Colman MW. Accuracy of Pedicle Screw Placement Using an Augmented-Reality Assisted Navigation System. Society for Minimally Invasive Spine Surgery Annual Meeting. Las Vegas, NV. 2022 Sep 29.

Butler AJ, Zavras AG, Munim MA, Federico VP, [Nolte MT](#), Phillips FM, Colman MW. Implant Size and Position Affects Patient Reported Outcomes After Lateral Lumbar Interbody Fusion. Society for Minimally Invasive Spine Surgery Annual Meeting. Las Vegas, NV. 2022 Sep 29.

Federico VP, Zavras AG, Butler A, Munim MA, [Nolte MT](#), Gabriel S., Rush, AJ, Colman, MW, Phillips, FM. Comparison of Reimbursement Rates Between Anterior Lumbar Interbody Fusion and Lumbar Disc Replacement From 2007 to 2022. Society for Minimally Invasive Spine Surgery Annual Meeting. Las Vegas, NV. 2022 Sep 29.

Federico VP, Zavras AG, Butler A, Munim MA, [Nolte MT](#), Gabriel S., Rush, AJ, Colman, MW, Phillips, FM. Does Disc Distraction After Cervical Total Disc Arthroplasty Impact Range of Motion and Patient Reported Outcomes? Society for Minimally Invasive Spine Surgery Annual Meeting. Las Vegas, NV. 2022 Sep 29.

Zavras AG, Federico VP, Butler A, Munim MA, [Nolte MT](#), Gabriel S., Rush, AJ, Colman, MW, Phillips, FM. Relative Efficacy of Cervical Total Disc Arthroplasty Devices and ACDF for Cervical Pathology: A Network Meta-Analysis. Society for Minimally Invasive Spine Surgery Annual Meeting. Las Vegas, NV. 2022 Sep 29.

Munim MA, Zavras AG, [Nolte MT](#), Butler AJ, Walsh JM, Colman MW. The Effect of Intraoperative Prone Positioning on Psoas Morphology and Great Vessel Anatomy: Consequences for Prone Lateral Approach to the Lumbar Spine. AO Spine Global Spine Congress. Las Vegas, NV. 2022 Jun 4.

Zavras AG, Federico VP, [Nolte MT](#), Dandu N, Munim MA, Harper DE, Lopez GD, DeWald CJ, An HS, Singh K, Phillips FM, Colman MW. Risk Factors for Subsidence following Anterior Lumbar Interbody Fusion. AO Spine Global Spine Congress. Las Vegas, NV. 2022 Jun 4.

Zavras AG, Sullivan TB, Federico VP, Nolte MT, Munim MA, Phillips FM, Colman MW. Preoperative Multifidus Muscle Quality is Associated with Patient Reported Outcomes after Lateral Lumbar Interbody Fusion. AO Spine Global Spine Congress. Las Vegas, NV. 2022 Jun 4.

Colman MW, Zavras AG., Federico VP, Nolte MT, Singh K, Phillips FM. A Longitudinal Assessment of Segmental Motion of the Cervical Spine Following Total Disc Arthroplasty: A Comparative Analysis of Devices. International Society for the Advancement of Spine Surgery Annual Meeting. Nassau, Bahamas. 2022 June 3.

Munim MA, Berlinberg E, Nolte MT, Federico VP, Prabhu M, Pawlowski H, Colman MW. Usage Trends and Safety Profile of Recombinant Human Bone Morphogenetic Protein-2 for Spinal Column Tumor Surgery: A National Matched Cohort Analysis. International Society for the Advancement of Spine Surgery Annual Meeting. Nassau, Bahamas. 2022 June 3.

Federico VP, Zavras AG, Butler A, Munim MA, Nolte MT, Gabriel S., Rush, AJ, Colman, MW, Phillips, FM. Does Disc Distraction After Cervical Total Disc Arthroplasty Impact Range of Motion and Patient Reported Outcomes? International Society for the Advancement of Spine Surgery Annual Meeting. Nassau, Bahamas. 2022 June 3.

Colman MW, Zavras A, Federico V, Nolte MT, Singh K, Phillips FM. A Longitudinal Assessment of Segmental Motion of the Cervical Spine Following Total Disc Arthroplasty: A Comparative Analysis of Devices. American Academy of Orthopaedic Surgeons Annual Meeting. Chicago, IL. 2022 March 26.

Zavras A, Siyaji Z, Dandu N, Nolte MT, Sayari AJ, Sullivan TB, Colman MW. Range of Motion on Flexion and Extension at Long-Term Follow-Up After Cervical Total Disc Arthroplasty: A Systematic Review and Meta-Analysis. American Academy of Orthopaedic Surgeons Annual Meeting. Chicago, IL. 2022 March 26.

Zavras AG, Federico VP, Nolte MT, Dandu N, Munim MA, Harper DE, Lopez GD, DeWald CJ, An HS, Singh K, Phillips FM, Colman MW. Risk Factors for Subsidence following Anterior Lumbar Interbody Fusion. American Academy of Orthopaedic Surgeons Annual Meeting. Chicago, IL. 2022 March 26.

Zavras AG, Nolte MT, Sayari AJ, Colman MW. Porous Titanium versus Bone Morphogenetic Protein-2 in Non-Perous PEEK: A Clinical Comparison of Patients Undergoing Anterior Lumbar Interbody Fusion. American Academy of Orthopaedic Surgeons Annual Meeting. Chicago, IL. 2022 March 26.

Zavras AG, Sullivan TB, Federico VP, Nolte MT, Munim MA, Phillips FM, Colman MW. Preoperative Multifidus Muscle Quality is Associated with Patient Reported Outcomes after Lateral Lumbar Interbody Fusion. American Academy of Orthopaedic Surgeons Annual Meeting. Chicago, IL. 2022 March 26.

Albert H, Sayari AJ, Barajas JN, Harada GK, Nolte MT, Samartzis D, Tkachev A. Novel Inflammatory-Preserving Treatment for Symptomatic Lumbar Disc Herniation: a Prospective Multi-Imaging and Clinical Outcomes Study. Orthopaedic Research Society Annual Meeting. Tampa, FL. 2022 Feb 7.

Zavras A, Sullivan TB, Nolte MT, Singh K, Phillips FM, Colman MW. Failure in Cervical Total Disc Arthroplasty: Single Institution Experience, Systematic Review of the Literature, and Proposal of a Novel TDA Failure Classification System. Cervical Spine Research Society Annual Meeting. Atlanta, GA. 2021 Dec 3.

Zavras A, Siyaji Z, Piracha A, Qadri T, Nolte MT, Sayari AJ, Singh K, Colman MW. Stand-Alone Cage versus Cage and Plate Constructs for Primary One- and Two-Level Anterior Cervical Discectomy and Fusion: A Prospective Randomized Controlled Trial. Cervical Spine Research Society Annual Meeting. Atlanta, GA. 2021 Dec 3.

Zavras A, Siyaji Z, Dandu N, Nolte MT, Sayari AJ, Sullivan TB, Colman MW. Range of Motion on Flexion and Extension at Long-Term Follow-Up After Cervical Total Disc Arthroplasty: A Systematic Review and Meta-Analysis. Cervical Spine Research Society Annual Meeting. Atlanta, GA. 2021 Dec 3.

Zavras AG, Rossi D, Nolte MT, Shepard N, Singh K, Colman MW. ISOVUE Contraast for Intraoperative Assessment of Discectomy Quality in TLIF: A Preliminary Report of a Prospective Randomized Controlled Trial. AO Spine Global Spine Congress. Paris, France. 2021 Nov 3.

Zavras A, Siyaji Z, Piracha A, Qadri T, Nolte MT, Sayari AJ, Singh K, Colman MW. Stand-Alone Cage versus Cage and Plate Constructs for Primary One- and Two-Level Anterior Cervical Discectomy and Fusion: A Prospective Randomized Controlled Trial. AO Spine Global Spine Congress. Paris, France. 2021 Nov 3.

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