

CURRICULUM VITAE

**EUBULUS J. KERR, III, M.D.**

PHYSICIAN/PARTNER

Spine Institute of Louisiana

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Assistant professor  
Department of Orthopaedic Surgery

Louisiana State University Health Sciences Center  
1501 Kings Highway  
Shreveport, LA 71103  
(318) 675-6180

**EDUCATION:**

Undergraduate: Colorado State University  
Fort Collins, Colorado  
Biochemistry, Chemistry  
Bachelor of Science – Biochemistry, 1990

Medical School: Wayne State University School of Medicine  
Detroit, Michigan  
Doctor of Medicine, 1996  
Honors: Junior Yr. Clinical Clerkships, 1995  
Recognition of Excellence Medical Pharmacology, 1994

Internship: Indiana University Medical Center  
Indianapolis, Indiana, 1996-1997

Residency: Indiana University Medical Center  
Indianapolis, Indiana  
Orthopaedic Surgery, 1997-2001

Spine Fellowship: Frank Phillips, M.D.  
Todd Wetzel, M.D.  
Pernendu Gupta, M.D.  
University of Chicago Spine Center  
Weiss Memorial Hospital  
Chicago, Illinois  
Spine Fellowship, 2002

**SPECIALIZED TRAINING:**

Medtronic Satellite Training, Operated with Dr. Jorge Isaza, January 2006  
SpinalMotion Kineflex Artificial Disc Comprehensive Training Program, November 2005  
Charite ' Artificial Disc Comprehensive Training Program, December 16, 2004  
Orthovita, Advances in Vertebroplasty, September 2004

**CERTIFICATIONS:**

American Board of Spine Surgery – Certified September 25, 2006  
American Board of Orthopaedic Surgeons – Certified September 2004, Recertified June 2015

**LICENSES:**

Louisiana – 2004 – Present  
Illinois – 2001 – 2004

**MEDICAL PRACTICE:**

Spine Institute of Louisiana – Shreveport, Louisiana – 2004 – Present  
Louisiana State University Health Sciences Center – Assistant Professor – Department of  
Orthopedic Surgery – 2006 - Present  
Center for Orthopaedic Surgery and Sports Medicine – Indianapolis, Indiana – 2002 to 2004

**HOSPITAL AFFILIATIONS:**

Specialists Hospital Shreveport  
Christus Schumpert Health System  
Willis Knighton Health System

**PROFESSIONAL AFFILIATIONS:**

North American Spine Society  
American Academy of Orthopaedic Surgeons  
Louisiana State Medical Society  
Shreveport Medical Society

**PROFESSIONAL POSITIONS & APPOINTMENTS:**

Partner - Spine Institute of Louisiana  
Assistant Professor – Louisiana State University Health Sciences Center, Department of  
Orthopaedic Surgery  
Medtronic Visiting Surgeon's Program – Educator for DLIF Procedure  
Board of Directors -- Spine Institute of Louisiana Foundation, Inc.  
Board of Directors – Musculoskeletal Institute of Louisiana  
Board of Managers – Specialists Hospital Shreveport  
Medtronic Inside Track Program – Instructor

**PERSONAL INFORMATION:**

Date of Birth: January 22, 1968  
Place of Birth: Palo Alto, California  
Marital Status: Married to Gina Rauh Kerr  
Children: Sophia, Sloane, Kennady, and Eubulus IV (EJ)

**EXTRACURRICULAR ACTIVITIES:**

Hunting, Basketball, Tennis

**PUBLICATIONS:**

Nunley PD, Kerr EJ, Utter PA, et al. Preliminary Results of Bioactive Amniotic Suspension with Allograft for Achieving One and Two-Level Lumbar Interbody Fusion. *Int J Spine Surg*. 2016;10:12.

Nunley PD, Jawahar A, Cavanaugh DA, Gordon CR, Kerr EJ, Utter PA. Symptomatic adjacent segment disease after cervical total disc replacement: re-examining the clinical and radiological evidence with established criteria. *Spine J*. 2013;13(1):5-12.

Nunley PD, Jawahar A, Kerr EJ, et al. Factors affecting the incidence of symptomatic adjacent-level disease in cervical spine after total disc arthroplasty: 2- to 4-year follow-up of 3 prospective randomized trials. *Spine (Phila Pa 1976)*. 2012;37(6):445-451.

Kerr EJ, Jawahar A, Wooten T, Kay S, Cavanaugh DA, Nunley PD. The use of osteoconductive stem-cells allograft in lumbar interbody fusion procedures: an alternative to recombinant human bone morphogenetic protein. *J Surg Orthop Adv*. 2011;20(3):193-197.

Jawahar A, Cavanaugh DA, Kerr EJ, Birdsong EM, Nunley PD. Total disc arthroplasty does not affect the incidence of adjacent segment degeneration in cervical spine: results of 93 patients in three prospective randomized clinical trials. *Spine J*. 2010;10(12):1043-1048.

Cavanaugh DA, Jawahar A, Harper J, McLaren BK, Wooten T, Kerr EJ, Nunley PD. Cervical ganglioneuroma in an adult man: case report and literature review of a rare occurrence. *J La State Med Soc*. 2010;162(4):218-221.

Nunley PD, Jawahar A, Kerr EJ, Cavanaugh DA, Howard C, Brandao SM. Choice of plate may affect outcomes for single versus multilevel ACDF: results of a prospective randomized single-blind trial. *Spine J*. 2009;9(2):121-127.

Kerr EJ, Jawahar A, Kay S, Cavanaugh DA, Nunley PD. Implant design may influence delayed heterotopic ossification after total disk arthroplasty in lumbar spine. *Surg Neurol*. 2009 Dec; 72(6):747-51; discussion 751.

Cavanaugh DA, Nunley PD, Kerr EJ, Werner DJ, Jawahar A. Delayed hyper-reactivity to metal ions after cervical disc arthroplasty: a case report and literature review. *Spine (Phila Pa 1976)*. 2009;34(7):E262-265.

Kerr EJ, Jawahar A, Kay S, Cavanaugh DA, Nunley PD. Implant Design may Influence Delayed Heterotopic Ossification after Total Disc Arthroplasty in Lumbar Spine: A Case Report. *Surg Neuro*. 2009;72(6): 747-751.

Cavanaugh DA, Jawahar A, Lee JA, Wilkinson K, Kerr EJ, Nunley PD. Intraspinial meningioma in a 101-year old: should age determine the aggressiveness of intervention? Surg Neurol. 2008;69(2):130-134.

Nunley PD, Jawahar A, Mukherjee DP, Ogden A, Khan Z, Kerr EJ, Cavanaugh DA. Comparison of pressure effects on adjacent disk levels after 2-level lumbar constructs: fusion, hybrid, and total disk replacement. Surg Neurol. 2008;70(3):247-251; discussion 251.

Kerr EJ, Nunley PD, Cavanaugh DA, Heard JS, Jawahar A. Primary osteoblastic osteosarcoma in an elderly female: a case report of perplexing presentation. Anticancer Res. 2006;26(4B):3117-3121.

### **BOOK CHAPTERS:**

Phillips FM, Pfeifer B, Lieberman I, Kerr E, Choi I, Pazianos A:  
Minimally Invasive Treatments of Osteoporotic Vertebral Compression Fractures:  
Vertebroplasty and Kyphoplasty. AAOS Instructional Course Lecture Series, Ch. 48  
PP559-569, 2003

### **RESEARCH ACTIVITIES:**

A 2 and 5 year comparative evaluation of clinical outcomes in the treatment of moderate lumbar spinal stenosis with the Superion® Indirect Decompression System (IDS) vs. direct decompression surgery for FDA Actual Conditions of Use Study. 2017-Present

Post-Market, 10 Year Follow Up of Mobi-C® Cervical Disc for One and Two Level Treatment of Cervical Disc Disease  
2016-Present

Clinical Investigation Plan for Post Approval 'Real Conditions of Use' Study, A 2 and 5 year comparative evaluation of clinical outcomes in the treatment of degenerative spinal stenosis with concomitant low back pain by decompression with and without additional stabilization using the coflex Interlaminar Technology for FDA real conditions of use study. 2016-Present

A phase 3, open-label study to evaluate the safety of oliceridine (TRV130) in patients with acute pain for which parenteral opioid therapy is warranted. 2016-Present

Prospective, Concurrently Controlled, Multi-Center Study to Evaluate the Safety and Effectiveness of the Spinal Kinetics™ M6-C Artificial Cervical Disc Compared to Anterior Cervical Discectomy and Fusion (ACDF) for the Treatment of Symptomatic Cervical Radiculopathy. 2016- Present

The Investigational Plan for the Evaluation of the ACADIA™ Facet Replacement System  
2015-Present

Clinical Study Protocol for the Investigation of the Simplify™ Cervical Artificial Disc  
2015-Present

A single-arm, prospective, multi-center study of Nucel® in patients receiving interbody fusion for one and two level degenerative disease of the lumbar spine. 2015-Present

A Multicenter, Open-label Study of SI-6603 in Patients with Lumbar Disc Herniation (Phase III). 2015-Present

A Prospective, Multicenter, Randomized, Double-blind, Placebo-controlled Study to Evaluate the Efficacy and Safety of a Single Injection of rexlemestrocel-L Alone or combined with Hyaluronic Acid (HA) in Subjects with Chronic Discogenic Lumbar Back Pain Through 12 Months. 2015-Present

A Phase 2b, Randomized, Double-Blind, Placebo-Controlled Study to Evaluate The Safety and Efficacy of Staphylococcus Aureus 4-Antigen Vaccine (SA4Ag) in Adults Undergoing Elective Posterior Instrumented Lumbar Spinal Fusion Procedures. 2015-Present

A Multicenter, Randomized, Double-blind, Controlled, Comparative Study of SI-6603 in Patients with Lumbar Disc Herniation (Phase III). 2014-Present

Minimally Invasive Surgery for the Treatment of Adult Spinal Deformity: A Multicenter Registry. 2013-Present

Axiomed “Freedom Lumbar Artificial Disc”, FDA, Investigational Device Evaluation (IDE) study site. 2008—Present

A Prospective, Multi-center, Randomized Study Comparing the VertiFlex® Superior™ Interspinous Spacer (ISS) to the X-STOP® Interspinous Process Decompression (IPD®) System in Patients with Moderate Lumbar Spinal Stenosis. 2008 – 2017

Multi-Center Retrospective and Observational Data Registry for Clinical and Radiographic Outcomes of Spine Surgeries performed with the RAVINE® Lateral Access System.  
2014-2016

A Multi-Center, Prospective, Randomized, Controlled Clinical Trial Comparing the Safety and Effectiveness of the Mobi-C® Prosthesis to Conventional Anterior Cervical Discectomy and Fusion in the Treatment of Symptomatic Degenerative Disc Disease (DDD) in the Cervical Spine. 2006 - 2016

A non-randomized safety and efficacy study of patients receiving Nucel® bone graft for one or two level interbody fusion for degenerative disease of the lumbar spine. (Nucel-03)  
2013-2015

Treatment of Lumbar Spinal Stenosis with X-STOP® PEEK Spacer in Moderately Symptomatic Patients 2013-2015

A Study to Compare VITOSS Bioactive + BMA Versus Osteocel Plus through Radiological and Clinical Outcomes in Extreme-Lateral Interbody Fusions (XLIF) 2010

KAST Study: The Kiva™ System as a Vertebral Augmentation Treatment – A Safety and Effectiveness Trial 2010-2014

Allosource (National Principal Investigator and medical monitor): A non-randomized prospective feasibility study of Adipose derived stem cell seeded on demineralized matrix (Allostem®) in patients receiving fusion for one and two level degenerative disease of the lumbar spine 2010—2013

Clinical Trial Comparing the Blackstone Advent™ Cervical Disc to Anterior Cervical Discectomy and Fusion (ACDF) for the Treatment of One Level Degenerative Disc Disease (Principal Investigator). 2008 – 2013

Kineflex/C™ Cervical Disc Arthroplasty, FDA, Investigational Device Evaluation (IDE) study site. – 2005—2013

Kineflex™ Lumbar Disc Arthroplasty, FDA, Investigational Device Evaluation (IDE) study site. – 2006 to 2013

A Non-Randomized, Prospective, Multicenter Feasibility Study of the Disc Dynamics DASCOR® Disc Arthroplasty Device in the Treatment of Degenerative Disc Disease (Pilot Study). 2008 - 2010

Comparison of Dynamic Stabilization of the Lumbar Spine with the Stabilimax NZ Dynamic Spine Stabilization System to Posterolateral Instrumented Fusion. 2007-2010

A Randomized, Controlled Clinical Study to Evaluate the Safety and Effectiveness of Cortoss® Synthetic Cortical Bone Void Filler in Vertebral Augmentation. FDA, Investigational Device Evaluation (IDE) study site. 2006 – 2009

Comparison of Static Versus Dynamic Plating in Anterior Cervical Fusion for 1, 2 & 3 Level Fusions. Class I, Prospective, Randomized, IRB approved Study. 2002-2008

Pars Fracture Fixation for Grade I Spondylolisthesis using ISOLA Instrumentation, a Unique Construct. 2001

Osiris: Lumbar interbody fusion procedures with osteoconductive mesenchymal stem-cells allograft: safe and effective alternative to bone morphogenetic protein.

Investigation of: “An In Vitro Model of Fibroblast Activity and Adhesion Formation During Flexor Tendon Healing”. – 1995 – 1996

Investigation of: “Glutamine Activity During Compensatory Metabolic Acidosis in Pig Kidney Tubule Cells” - Colorado State University – 1990

### **PRESENTATIONS:**

#### **International:**

Minimally Invasive Transforaminal Lumbar Interbody Fusion: Indications, Technique and Advantages

17<sup>th</sup> Annual London Imperial Spine Course

London, England – March 2011

Kerr EJ, Jawahar A, Cavanaugh DA and Nunley PD: Lumbar interbody fusion procedures with osteoconductive mesenchymal stem-cells allograft: safe and effective alternative to bone morphogenetic protein. Podium, 14<sup>th</sup> Annual European Federation of Neurological Surgery Congress, Geneva, Switzerland - September 2010

Kyphoplasty combined with Percutaneous Osteotomy for the Treatment of Kyphosis Associated with Non-Acute Osteoporotic Vertebral Fractures.

Phillips FM, Campbell-Hupp M, Kerr E.

10<sup>th</sup> International Meeting on Advanced Spine Techniques,

Rome, Italy – May 2002

Balloon Kyphoplasty for the Treatment of Painful Spinal Deformity Resulting From Osteoporotic Vertebral Compression Fractures.

Phillips FM, Ho E, Campbell-Hupp M, Kerr E, Wetzel T, Gupta P.

North American Spine Society 17<sup>th</sup> Annual Meeting.

Montreal, Canada – 2002

#### **National:**

Nunley P, Kerr E, Cavanaugh D, Utter A, Frank K, Stone M. Factors Predictive of Return to Work Time after Cervical Disc Arthroplasty and ACDF: A Multivariable Analysis.

Proceedings from 16th International Society for the Advancement of Spine Surgery, April 6-8, 2016, Las Vegas, NV.

Cavanaugh D, Nunley P, Kerr E, Utter A, Frank K, Stone M. Comparison of One-Level and Two-Level treatments for Cervical Disc Arthroplasty and Anterior Cervical Discectomy and Fusion. Proceedings from the 84th AANS Scientific Meeting, April 30-May 4, 2016, Chicago, IL.



Cavanaugh D, Nunley P, Kerr E, Utter A, Frank K, Stone M .Preoperative Predictors of Patient Outcomes at 60 Months Following Single Level Cervical Surgery with CDA or ACDF. Proceedings from the 84th AANS Scientific Meeting, April 30-May 4, 2016, Chicago, IL.

Cavanaugh D, Nunley P, Kerr E, Utter A, Frank K, Stone M. Comparison of One-Level and Two-Level treatments for Cervical Disc Arthroplasty and Anterior Cervical Discectomy and Fusion. Proceedings from the 67th Southern Neurosurgical Society Annual Meeting. March 2-5, 2016, San Antonio, Texas.

Cavanaugh D, Nunley P, Kerr E, Utter A, Frank K, Stone M. One-Level versus Two-Level treatments for Cervical Degenerative Disc Disease using Cervical Disc Arthroplasty and Anterior Cervical Discectomy and Fusion. Proceedings from the 41st Louisiana Neurosurgical Society Annual Meeting. January 15-17, 2016, New Orleans, LA.

Nunley P, Cavanaugh D, Kerr E, Utter A, Stone M. Heterotopic Ossification and Endplate Sizing in One-Level CDA Patients: Patient Outcomes from a Randomized, Prospective, Clinical Trial. Proceedings from 15th International Society for the Advancement of Spine Surgery, April 15-17, 2015, San Diego, CA.

Nunley P, Cavanaugh D, Kerr E, Utter A, Stone M. Endplate Coverage and Heterotopic Ossification in Two-level CDA Patients from an FDA IDE Randomized, Prospective, Clinical Trial. Proceedings from 15th International Society for the Advancement of Spine Surgery, April 15-17, 2015, San Diego, CA.

Utter PA, Nunley PD, Cavanaugh DA, Kerr EJ, Stone M. Heterotopic Ossification and Endplate Coverage in One- and Two- Level TDR Patients: Results from a Randomized, Prospective, Clinical Trial through Five Years. American Academy of Neurological Surgeons, 79th Annual Meeting. May 4, 2015

Cavanaugh DA, Nunley PD, Kerr EJ, Utter PA, Stone MA. Adjacent Segment Degeneration Incidence Reduced after Total Disc Replacement Compared with Anterior Discectomy and Fusion for Treatment of One and Two Level Cervical Degenerative Disc Disease: 4-Year Results from an FDA IDE Clinical Trial (Abstract 105) Podium, 30th Annual Meeting of the AANS/CNS Section on Disorders of the Spine and Peripheral Nerves, March 5-8, 2014, Orlando, FL.

Nunley P, Cavanaugh D, Kerr EJ, Utter A, Stone M. Radiographic Adjacent Segment Pathology after Treatment with TDR or ACDF at One or Two Levels. Spine J. 2014, Nov. 14(11): S23 - S24

Cavanaugh DA, Jawahar A, Utter PA, Kerr EJ, Nunley PD. Use of adult mesenchymal stem cell based allograft in anterior lumbar interbody fusion: Clinical evidence of safety and efficacy. 63rd annual meeting of Southern Neurosurgical Society, Amelia Island, Florida; March 2012

Cavanaugh DA, Nunley PD, Kerr EJ. Factors affecting the choice of anterior procedure (TDR versus ACDF) for cervical radiculopathy: Analysis of 3-7 years follow-up from 4 randomized controlled trials. Podium, 36th Annual Meeting of Louisiana Neurosurgical Society. 2011, New Orleans, LA.

Cavanaugh DA, Nunley PD, Kerr EJ, Utter PA. Cervical total disc arthroplasty: overview and facts-check, Podium, Jim Story Society Meeting, 2011, San Antonio, TX.

Kerr EJ, Jawahar A, Cavanaugh DA and Nunley PD: Lumbar interbody fusion procedures with osteoconductive mesenchymal stem-cells allograft: safe and effective alternative to bone morphogenetic protein. Podium, 14th Annual European Federation of Neurological Surgery Congress, September 2010, Geneva, Switzerland.

Jawahar A, Cavanaugh DA, Gordon C, Kerr EJ and Nunley PD: Incidence of Adjacent Level Disease Is Equivalent in Cervical Spine after ACDF and Total Disc Arthroplasty: Multi-Institutional Experience from Three Prospective Randomized Trials. Podium. 2010 Annual meeting of Congress of Neurological Surgeons, October 16-21, 2010 - San Francisco, CA.

Jawahar A, Cavanaugh DA, Kerr EJ, Birdsong E and Nunley PD: Total Disc Arthroplasty Does Not Affect the Incidence of Adjacent Segment Disease in Cervical Spine: Results of 93 Patients in three prospective, Randomized Clinical Trials. Podium. 2010 Annual Meeting of North American Spine Society. October 10-14, Orlando, FL

David A. Cavanaugh, MD; Ajay Jawahar, MD; Eubulus J. Kerr, MD and Pierce D. Nunley, MD. Incidence, Timing and Probable Causes of Device Displacement following Cervical Total Disc Arthroplasty. 2009 Annual meeting of Congress of Neurological Surgeons, October 24-28, 2009, New Orleans, LA.

Eubulus J. Kerr, MD; Ajay Jawahar, MD; Terry Wooten, RT. Assessment of fusion rates in adult patients undergoing Lumbar Interbody Fusion procedures with osteoinductive stem-cells allograft material. 2009 Annual meeting of Congress of Neurological Surgeons, October 24-28, 2009, New Orleans, LA.

Total disc arthroplasty versus ACDF for single level cervical disc disease: results of a prospective randomized single-blind trial. Annual Meeting of North American Spine Society, Toronto, Oct 2008

Prospective randomized trial to compare the results of total disc arthroplasty with anterior cervical discectomy and fusion: Preliminary results. Annual meeting of Congress of Neurological Surgeons, Orlando, October 2008.

Assessment of fusion rates in adult patients undergoing Lumbar Interbody Fusion procedures with osteoinductive stem-cells allograft material. Accepted for presentation at the Annual meeting of Congress of Neurological Surgeons, New Orleans, October 2009

Device Displacement and reoperation following cervical total disc arthroplasty: Analysis of probable causes in three consecutive cases. Annual meeting of Louisiana Association of Neurological Surgeons, January 2009

Incidence, Timing and Probable Causes of Device Displacement following Cervical Total Disc Arthroplasty. Annual meeting of Louisiana Association of Neurological Surgeons, January 2009

Balloon Kyphoplasty for the Treatment of Painful Spinal Deformity Resulting from Osteoporotic Vertebral Compression Fractures  
Phillips FM, Ho E, Campbell-Hupp M, Kerr E, Wetzell F, Gupta P,  
AOA 116<sup>th</sup> Annual Meeting  
Charleston, South Carolina – June 2003

Preliminary Report “Direct Repair of Spondylolysis in an Adult Population using a Pedicle Screw, Rod and Slotted Connector Construct and Bone Graft of the Pars Defect.”  
Spine + Science + Management Program  
New Orleans, Louisiana - 2000

Grand Rounds Presentations: University of Chicago Medical Center:  
September 2000 - Cervical Spine Injuries in Football Players  
August 2000 - Cervical Radiculopathy- Diagnosis and Non-operative management  
July 2000 - Management of Spinal Cord Injury

### **POSTERS:**

Kyphoplasty Combined with Percutaneous Osteotomy for the Treatment of Kyphosis Associated with Non-Acute Osteoporotic Vertebral Fractures.  
Phillips FM, Kerr E, Campbell-Hupp M.  
ISSLS Annual Meeting, Vancouver, Canada - 2003

Initial Experience with Percutaneously Inserted Pedicle Screw-Rod System Following Anterior Lumbar Arthrodesis.  
Phillips FM, Kerr E, Wetzell FT, Gupta P.  
10<sup>th</sup> International Meeting on Advanced Spine Techniques,  
May 2002, Rome, Italy

Initial Experience with Percutaneously Inserted Pedicle Screw-Rod System Following  
Anterior Lumbar Arthrodesis  
Phillips FM, Kerr E, Wetzel FT, Gupta P  
World Spine II, Chicago 2003