

CURRICULUM VITAE

DAVID A. CAVANAUGH, M.D.

PHYSICIAN/PARTNER



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Professional

Neurosurgeon

Experience

1987 – 2004: Private Practice in Shreveport
Beach and Cavanaugh Neurological Surgery

2004 – Present: Spine Institute of Louisiana

Education and

Training

Neurological Surgery Residency

1982-1987 University of Texas Health Sciences Center, San Antonio

General Surgery Internship

1981-1982 Louisiana State University Medical Center, Shreveport

Doctor of Medicine

1977-1981 Louisiana State University Medical Center, Shreveport

Bachelor of Science

1974 -1978 Louisiana College, Pineville, LA Valedictorian

1970-1974 Pineville High School, Pineville, LA Valedictorian

Accreditations

Diplomat American Board of Neurological Surgery 1990

Fellow American College of Surgeons 1990

Certified Clinical Research Investigator. National Institute of Health, 2007

Diplomat American Board of Spine Surgery 2009

Professional

Memberships

American Board of Spine Surgeons

American Association of Neurological Surgeons

Congress of Neurological Surgeons

American Board of Spine Surgeons

Southern Society of Neurological Surgeons

Louisiana State Neurosurgical Society

American Medical Association

Louisiana State Medical Society

Shreveport Medical Society

North American Spine Society
World Spine Society
American Board of Spine Surgery

Awards

The Spine Journal & NASS 2010 Outstanding Paper Award for Surgical Science. June 2010
Louisiana State Medical Society Community Service Award 2007
Best Doctors in America 2005-2006
Trustees Distinguished Service Award 2004, Louisiana College
Sponsoring Neurosurgeon of the Year 2002, ThinkFirst National Injury Prevention Foundation
Distinguished Alumnus 1996, Louisiana College
Outstanding Young Man 1990, Shreveport Jaycees
C. W. Brister Academic Award 1977, Louisiana College
South Central Bell Science Award 1974, Pineville High School
Scholarship Award 1973, 1974 Pineville High School
Academic Award for Athletes in Rapides Parish 1974
Youth Appreciation Week Award 1973, Optimist Club of Rapides Parish
Louisiana Boys State 1973

Additional

Professional

Activities

Chief of Staff Christus Schumpert Saint Mary 2007-2009
Reviewer for Abstracts, World Spine Society Meeting 2005, 2007
Chairman Board of Directors ThinkFirst National Injury Prevention Foundation 2005-2007
Medical Director ThinkFirst National Injury Prevention Foundation 2003-2005
Chairman Program Advisory Committee ThinkFirst National Injury Prevention Foundation 2003-2005
Executive Committee ThinkFirst National Injury Prevention Foundation Board Directors 2000-2007
Council of State Neurosurgical Societies Louisiana Delegate 1997-2001
President Louisiana State Neurosurgical Society 1999-2001
Vice President Louisiana State Neurosurgical Society 1997-1999
Secretary Louisiana State Neurosurgical Society 1995-1997
Member Board of Directors Shreveport Medical Society 1995-2001, 2007-2009

Sponsoring Neurosurgeon ThinkFirst of the Ark-La-Tex 1996-Present

Chairman Physical Medicine and Rehabilitation Committee Schumpert Medical Center
1992-1996

Publications

1. Nunley PD, Kerr EJ 3rd, Utter PA, **Cavanaugh DA**, Frank KA, Moody D, McManus B, Stone MB. Preliminary Results of Bioactive Amniotic Suspension with Allograft for Achieving One and Two-Level Lumbar Interbody Fusion. *Int J Spine Surg*. 2016 Apr 18;10:12. doi: 10.14444/3012. PubMed PMID: 27162714; PubMed Central PMCID: PMC4852597.
2. Nunley PD, Jawahar A, **Cavanaugh DA**, Gordon CR, Kerr EJ 3rd, Utter PA. Symptomatic adjacent segment disease after cervical total disc replacement: re-examining the clinical and radiological evidence with established criteria. *Spine J*. 2013 Jan;13(1):5-12. doi: 10.1016/j.spinee.2012.11.032. PubMed PMID: 23318108.
3. **Cavanaugh DA**, Utter PA, Jawahar A, Harper JA, Nunley PD. Intramedullary space occupying lesion of the cervical cord: when magnetic resonance imaging is not possible. *Spine J*. 2013 Feb;13(2):206-7. doi: 10.1016/j.spinee.2012.11.027. PubMed PMID: 23267740.
4. Jawahar A, **Cavanaugh DA**, Kerr EJ 3rd, 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 Dec;10(12):1043-8. doi: 10.1016/j.spinee.2010.08.014. PubMed PMID: 20869326.
5. **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 Jul-Aug;162(4):218-21. Review. PubMed PMID: 20882815.
6. 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.
7. **Cavanaugh DA**, Nunley PD, Kerr EJ 3rd, Werner DJ, and Jawahar A. Delayed hyper-reactivity to metal ions after cervical disc arthroplasty: a case report and literature review. *Spine (Phila Pa 1976)*. 2009 Apr 1;34(7):E262-5. Review.
8. Nunley PD, Jawahar A, Mukherjee DP, Ogden A, Khan Z, Kerr EJ, and **Cavanaugh DA** et. Comparison of Pressure-Effects on Adjacent Disc Levels Following 2-Level Lumbar Constructs: Fusion, Hybrid and Total Disc Replacement. *Surg Neurol*. 2008 Sep; 70(30):247-251.
9. Nunley PD, Jawahar A, Kerr EJ 3rd, **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 Feb;9(2):121-7. doi: 10.1016/j.spinee.2007.11.009. PubMed PMID: 18261963.
10. **Cavanaugh DA**, Jawahar A, Lee JA, Wilkinson K, Kerr EJ 3rd, Nunley PD. Intraspinial meningioma in a 101-year old: should age determine the aggressiveness of intervention? *Surg Neurol*. 2008 Feb; 69(2):130-4.
11. Kerr EJ 3rd, Nunley PD, **Cavanaugh DA**, Heard JS, Jawahar A. Primary osteoblastic osteosarcoma in an elderly female: a case report of perplexing presentation. *Anticancer Res*. 2006 Jul-Aug; 26(4B):3117-21.

12. **Cavanaugh DA**, Story JL, Brown WE Jr, Ansell LV, Skerhut HE. Polytetrafluoroethylene interposition grafts in vertebral to carotid artery transposition. A long-term follow-up study. *J Neurosurg.* 1989 Feb;70(2):212-5.
13. Extracranial Occlusive Disease of the Vertebral Artery, Youmans Neurological Surgery Third Edition, W.B. Saunders Co, 1990

Presentations

1. 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.
2. **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.
3. **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.
4. **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.
5. **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.
6. 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.
7. 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.
8. 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
9. **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.

10. Nunley P, **Cavanaugh D**, Kerr E, 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
11. **Cavanaugh DA**. Building a Multispecialty Spine Center. Podium, American Association of Neurological Surgeons. 2013, New Orleans, LA.
12. **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
13. **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.
14. **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.
15. 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.
16. 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.
17. Jawahar A, **Cavanaugh DA**, Nunley PD: Long-Term Results for Improvement of Function after Vertebroplasty in Patients with Osteoporotic Compression Fractures: Does Implant Material Make a Difference? Poster. 2010 Annual meeting of Congress of Neurological Surgeons, October 16-21, 2010, San Francisco, CA.
18. 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, 2010 Orlando, FL
19. Jawahar A, **Cavanaugh DA**, Nunley PD: Adjacent Segment Degeneration in C Spine after Motion Preserving Surgery for DDD: What is the clinical evidence? Podium. 2010 Annual meeting of American College of Spine Surgery, Newport Beach, CA, June 10-12, 2010.
20. Jawahar A, **Cavanaugh DA**, Nunley PD: Correlation of Fill Volume to Subsequent Fracture Rates After Vertebroplasty For Compression Fractures: A Prospective Randomized Trial. Poster 2010 Annual Meeting of American Association of Neurological Surgeons, Philadelphia, May1-5, 2010.
21. **Cavanaugh DA**, Jawahar A; Kerr EJ, and Nunley PD. 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.

22. Kerr EJ, Jawahar A, **Cavanaugh DA**, Wooten T. 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.
23. Nunley PD, **Cavanaugh DA**, Kerr EJ, Jawahar A. Device Displacement following cervical total disc arthroplasty: Analysis of probable causes in five consecutive cases. 2009 Annual Meeting IMSAT, Vienna, Austria.
24. Disc arthroplasty does not reduce adjacent level disc pressures in lumbar spine: Biomechanical study. Podium presentation at the 2009 Annual meeting of American Academy of Orthopedic Surgeons, Las Vegas, NV, 2009
25. Does Cervical Disc Replacement Speed-up Complete Recovery? Analysis of a Prospective Randomized Trial. Annual Meeting of Congress of Neurological Surgeons, Orlando FL, 2008. Total Disc Arthroplasty Affords Quicker Recovery in One-level Degenerative Disc Disease of Cervical Spine: Preliminary Results of a Prospective Randomized Trial. North American Spine Society, 2008, Toronto, Canada.
26. Prospective Randomized Clinical Trial to Compare the Clinical Outcomes of Total Disc Arthroplasty with ACDF in One-level Degenerative Disc Disease of Cervical Spine: Preliminary Results. Spine Arthroplasty Society, 2008, Miami Beach, FL.
27. Prospective Randomized Clinical Trial to Compare the Clinical Outcomes of Total Disc Arthroplasty with ACDF in One-level Degenerative Disc Disease of Cervical Spine: Preliminary Results, Louisiana Association of Neurological Surgeons, 2008, Lake Charles, LA
28. Does type of construct change intradiscal pressure at the adjacent non-operated levels in two-level lumbar fusions? A Biomechanical study. Congress of Neurological Surgery, 2007, San Diego, CA.
29. A Longitudinal Study of the Impact of an Elementary School Injury Prevention Curriculum, World Spine Society, Rio de Janeiro, Brazil August 2005
30. Symposium Director World Spine Society, Establishing Injury Prevention Programs and Proving Their Efficacy, Rio de Janeiro, Brazil August 2005
31. Low Back Pain and Disc Disease, Shreveport-Bossier Nurse Practitioners Association, Bossier City, LA March 2001
32. C1-C2 Transarticular Screw Fixation, Neurosurgery Society of America Annual Meeting, Durango, CO June, 2000
33. C1-C2 Transarticular Screw Fixation, Louisiana State Neurosurgical Society Annual Meeting, Bossier City, LA January 2000
34. Congenital Cerebral Aneurysms, Jim L. Story Society Meeting, San Antonio, TX June 1997
35. The Neuroanatomy of Balance and Coordination, Shreveport-Bossier Physical Therapy Association, Shreveport, LA May 1996
36. Thoracic Neuroenteric Cyst, Case Report and Literature Review, University of Texas Health Sciences Center San Antonio Division of Neurosurgery Scientific Session, San Antonio, TX June, 1994

37. Surgical Treatment of Geniculate Neuralgia, Louisiana State Neurosurgical Society Annual Meeting, Shreveport, LA January 1994
38. Cervical and Lumbar Disc Disease, Schumpert Family Medicine Staff Meeting May 1989
39. Posterior Circulation Aneurysms, A Community Hospital Experience, University of Texas Health Sciences Center San Antonio Division of Neurosurgery Scientific Session San Antonio, TX June 1988
40. Polytetrafluoroethylene Interposition Grafts in Vertebral to Carotid Artery Transposition: A Long-term Follow-up Study. Southern Neurosurgery Society Annual Meeting, Kiawah, NC March, 1987

Community

Member First Baptist Church Shreveport

Activities

Teacher College and Careers Sunday School Class 2002 - 2006

Board of Directors Shreveport Opera 1989-1994

Volunteer

ThinkFirst National Injury Prevention Foundation

Experience

ThinkFirst of the Ark-La-Tex

Interests and

Activities

Piano

Scuba Diving

Snowboarding and Skiing

Golf

Videography