

**WAKE FOREST SCHOOL OF MEDICINE
CURRICULUM VITAE**

NAME: Charles Leon Branch, Jr., M.D.

CURRENT ACADEMIC TITLE: Eben Alexander, Jr. Professor and Chair,
Department of Neurological Surgery
Wake Forest University School of Medicine

CURRENT ADMINISTRATIVE TITLE: Enterprise Chair of Neurological Surgery
Atrium/Advocate Health
Executive Director of the Spine Service Line
Atrium Health Wake Forest Baptist

ADDRESS: Department of Neurological Surgery
Wake Forest Baptist Medical Center
Medical Center Boulevard
Winston-Salem, North Carolina 27157-1029
Telephone: (336) 716-4083

BIRTHPLACE: Montreal, Quebec, Canada

EDUCATION:

1973-1977 Oklahoma Christian College
Oklahoma City, Oklahoma
B. A. (Psychology)
Alpha Chi National Honor Society, 1975

1977-1981 University of Texas Southwestern
Medical School
Dallas, Texas (M.D.)

POSTDOCTORAL TRAINING:

1981-1982 Internship
Department of General Surgery
North Carolina Baptist Hospital
Winston-Salem, North Carolina

1982-1987 Resident
Section on Neurosurgery
North Carolina Baptist Hospital
Winston-Salem, North Carolina
Director: Dr. David L. Kelly, Jr.

January 1985 Rotation in Neurosurgery
Mayo Clinic
Rochester, Minnesota

With: Dr. Edward Laws

1985-1986 Chief Resident
Section on Neurosurgery
Bowman Gray School of Medicine
Winston-Salem, North Carolina
Director: Dr. David L. Kelly, Jr.

July 1987-Sept. 1987 Chief Resident - Clinical Fellowship
Department of Neurological Surgery
University of California - San Francisco
San Francisco, California
Director: Dr. Charles B. Wilson

PROFESSIONAL LICENSURE:

1981 Texas, #F9229
1983 North Carolina, #27027

SPECIALTY CERTIFICATION:

1991 American Board of Neurological Surgeons

ACADEMIC APPOINTMENTS:

8/15/2008- Department of Pediatrics
Professor of Pediatrics
Wake Forest School of Medicine
Winston-Salem, North Carolina

7/1/2002- Eben Alexander, Jr. Professor
Division of Surgical Sciences
Department of Neurological Surgery
Wake Forest School of Medicine
Winston-Salem, North Carolina

7/1/2001- Division of Surgical Sciences
Chair Department of Neurosurgery
Wake Forest School of Medicine
Winston-Salem, North Carolina

2000-2001 Department of Neurosurgery
Acting Chair
Division of Surgical Sciences
Wake Forest University School of Medicine
Winston-Salem, North Carolina

1993-2002 Department of Neurosurgery
Associate Professor
Division of Surgical Sciences
Wake Forest University School of Medicine
Winston-Salem, North Carolina

1988-1993 Department of Neurosurgery

Assistant Professor
Division of Surgical Sciences
Bowman Gray School of Medicine of Wake Forest University
Winston-Salem, North Carolina

1987 Department of Surgery
Section on Neurosurgery, Instructor
Bowman Gray School of Medicine of Wake Forest University
Winston-Salem, North Carolina

EMPLOYMENT:

1987- Division of Surgical Sciences
Department of Neurosurgery
Wake Forest School of Medicine
Winston-Salem, North Carolina

PROFESSIONAL APPOINTMENTS AND ACTIVITIES:

Hospital affiliations: Atrium Health Wake Forest Baptist Medical Center
Winston-Salem, North Carolina
Atrium Health Davie Medical Center
Bermuda Run, North Carolina

Editorial Boards:

1988- *Neurosurgery*, Reviewer
1993-1996 *Clinical Orthopaedics and Related Research*, Reviewer
1998- *Journal of Radiosurgery*, Editorial Board
6/17/1998- *Neurosurgical Focus*, Topics Editor
6/19/1998- *Journal of Spinal Disorders*, Editorial Board
6/2000-9/2004 *The Spine Journal*, Deputy Editor
6/2004 *Spinal Surgery: Official Journal of the Japanese Society of Spinal Surgery*, International Advisory Board
10/2004-9/2009 *The Spine Journal*, Editor-in-Chief
2013-2020 *Journal of Neurosurgery-Spine*, Editorial Board
2014 *Spine Surgery Today*, Editorial Board
2021- Present *International Journal of Spine Surgery*, Editor-in-Chief

INSTITUTIONAL SERVICE:

1989 Medical Student Education and Curriculum
Committee
1992 Psychiatry Task Force

1992 Neuroscience Task Force
1994-2000 Rehabilitation Services Advisory Committee
1994-present Member, Board of Trustees, The Medical Foundation of the Bowman Gray School of Medicine of Wake Forest University and the North Carolina Baptist Hospitals, Inc.
1996 Bowman Gray/Baptist Hospital Medical Center, Neck and Back Program Advisory Committee
1999-2002 Faculty Executive Council
1999-2002 Faculty Steering Committee
1999-2002 Risk & Insurance Management Advisory Council Professional Insurance Committee
1999-2002 Board of Directors, QualChoice of North Carolina
1999-2002 Board of Directors, Aegis Family Health Plan
1999-2005 Graduate Medical Education Committee Wake Forest University Physicians
1996-present Wake Forest University Physicians
1996-2002 WFUP Council Member
1996-1997 WFUP Finance Committee
1997-1999 WFUP Business Operations Committee, Chair
1996-2002 WFUP Executive Committee, Chair (1999-2001)
2000-2015 WFUBMC Neuroscience Service Line Chair
2015 President
2015-2022 Executive Director Spine Service Line
2003-2005 Governing Board, School of Biomedical Engineering of Wake Forest University and Virginia Polytechnic Institute
2004 Search Committee for Chairman of Neurology, Wake Forest University School of Medicine
2009-2010 The Medical Foundation of Wake Forest University Health Sciences and North Carolina Baptist Hospital, Advisory Board
2011-2012 WFU member-elect on the Virginia Tech/Wake Forest University School of Biomedical Engineering and Sciences Governing Board

Visiting Faculty Appointments:

University of Virginia Medical School
Charlottesville, Virginia

University of Kansas Medical School
Kansas City, Kansas

University of Toronto Medical School
Toronto, Canada

Vanderbilt University School of Medicine Nashville, TN

Faculty of Medicine University of Calgary-Department of Neurosurgery
Calgary, Canada

Cedars Sinai Medical Center Spine Institute
Los Angeles, CA
Presentations - History and Development of PLIF Blinderman Memorial Lectureship
Pedicle Screw and Plate Fixation for Spine Deformity Grand Rounds

University of Texas Health Science Center San Antonio, TX

Presentation - History and Development of PLIF Grand Rounds

University of Texas Medical Branch – Galveston, TX
Visiting Surgeon

Brigham & Women’s Neurosurgery – Boston, MA
Visiting Surgeon

NYU Langone Medical Center Neurosurgery – New York, NY
Visiting Surgeon

Kresimir Rotim Neurosurgery – Croatia
Visiting Surgeon

Oklahoma Neurosurgery – Oklahoma, OK
Visiting Surgeon

Northwell Health Neurosurgery
Visiting Professor June 2022

PROFESSIONAL MEMBERSHIPS AND SERVICE:

American Academy of Neurological Surgeons (1996)
Registration Subcommittee (2000)
CSNS Representative (2001)

American Association of Neurological Surgeons (1991)
Candidate Member (1987)

American Association of Neurological Surgeons/Congress of Neurological Surgeons
(1989)

Joint Section on Trauma (1989-1990)
Joint Section on Functional and Stereotactic Neurosurgery (1990)
Joint Section on Disorders of the Spine and Peripheral Nerves (1989)
Joint Section on Disorders of the Spine and Peripheral Nerves, Chair (2006-
07)

Executive Committee (1995-present)
Exhibit Chairman, Annual Meetings (1996 -1998)
Member-at-Large (1998-1999)
Secretary Elect (2001-2002)
Secretary (2002-2005)
Chairperson- Elect (2005-2006)
Chairperson (2006-2007)
Scientific Program Committee (1992)
Annual Meeting Chairman, Education Committee (1992)
Scientific Program Committee, Annual Meeting (1993)
Scientific Program Committee, Annual Meetings (1995-2003)

Neurosurgical Research and Education Foundation (NREF)
Board of Directors 2000 – Present
Vice Chair 2000 - -Present

American Board of Neurological Surgery (2004)
Director- July 2005-June 2011

Chair- May 2010-May 2011
Oral Board Examiner- 2011-Present

American College of Surgeons
Candidate Group (1983)
North Carolina Chapter (1990)

American Medical Association (1985)
Collaborative Spine Research Foundation (2012)
Board of Directors, Secretary-Treasurer (2012)
Board of Directors, Chairman (2014)

Congress of Neurological Surgeons (1988)
Scientific Poster Chairman, Annual Meeting (1989)
Registration Committee Chairman, Annual Meeting (1991)
Sergeant at Arms Committee, Chairman (1992)
Associate Editor, CNS World Directory
Scientific Program Committee, Annual Meeting (1993)
Practical Courses, Chairman, Annual Meeting (1994)
International Committee (1994-95)
Professional Conduct Committee (2004-2006)
Scientific Program Committee-Spine Section Liaison (2008-2009)
Dubai 3rd Annual International Spine Masters, Course Co-Director (May 23-27, 2010)

Liaison Committee, American Association of Neurological Surgeons/American
Academy of Orthopedic Surgeons (1993)

National Committee for Quality Assurance Spine Care Recognition
Program Advisory Committee (2006)

Neurosurgery Research and Education Foundation
Executive Council (2007)
Board of Directors (2018-2019)

Neurosurgical Society of America (1994)
Program Committee (1996-1997; 1999-2000)

North American Skull Base Society (1994)

North American Spine Society (1993)
Board of Directors – 1st Vice President (2006-2007)
Annual Meeting Program Committee (1995, 1996)
CME Committee (1996)
Annual Meeting, Instructional Course Committee
Chairman (1997, 2000, 2001)
Annual Program Subcommittee (1997)
North American Spine Society and Japanese Spine
Research Society, Program Committee, Joint Meeting (1994, 1997, 2003)
Program Chair. Spine Across the Sea (2003)
Planning Committee. Spine Across the Sea (2006)
President Elect (2007-2008)
President (2008-2009)
Scientific Program Committee-President (2008-2009)

North Carolina Medical Society (1985)

North Carolina Neurosurgical Society (1990)
Secretary-Treasurer (11/93-10/95)
President (1995-96, 1996-97)
North Carolina Spine Society (1995)

Scoliosis Research Society-Active Fellow

Society for Minimally Invasive Spine Surgery (2009-present)
Scientific Program Committee Global Spine Forum Nov 2015

Society of Neurological Surgeons
Outcomes Committee (2007-2009)
Committee on Advanced Specialty Training CAST (2011-2017)
Chair 2022-2024

Southern Neurosurgical Society (2001)
Long Range Planning Committee (2001)

Standing Committee Appointments for International Health Affairs Advisory Risk &
Insurance Management Council/Professional Insurance Committee (2003)
Texas Association of Neurological Surgeons (1996)

Western North Carolina Society for Neuroscience (1994)
Winston-Salem Surgical Society (1992)

HONORS AND AWARDS:

Awards:	
1987	Evelyn and Paul Bucy Fellowship
1987	Congress of Neurological Surgeons Clinical Fellowship
1994	The Southeastern Chapter of the American Association of Physicists Medicine Award for best paper of 1993
2007	Best Doctors in America® 2007-Present
2009	Patient's Choice Physician
2010 -Present	America's Top Surgeons
2010-Present	America's Top Doctors
2011-2012	Who's Who in Science and Engineering
2013	Meritorious Service Award of American Association of Neurological Surgeons/Congress of Neurological Surgeons Joint Section on Disorders of the Spine and Peripheral Nerves

PROFESSIONAL INTERESTS:

Research interests:

Spine surgery
Stereotactic surgery
Brain tumor therapy

GRANTS:

PAST GRANT HISTORY:

PI - "Continued Access Arm of a Study of Safety and Effectiveness of the Bryan® Cervical Disc Prosthesis in the Treatment of Degenerative Disc Disease"- \$825/patient-Start: October 2006- 2011

PI- "A Prospective, Randomized, Controlled Pivotal Clinical Investigation of DIAM™ Spinal Stabilization System in Patients with Degenerative Lumbar Spinal Stenosis"- \$91,300-Start: January 2007-2011

PI- Prospective Spine Treatment Outcome Study-Start: 2006-2011

PI- DIAM Spinal Stabilization System-Pivotal Study vs Conservative Care - 2011

PI-A post-Approval Investigation of the BRYAN Cervical Disc Device at a Single Level for Symptomatic Cervical Disc Disease—2011

PI- "A Pilot Prospective, Non-Randomized Clinical Investigation of Telamon P™ Implant/Infuse™ Bone Graft Impacted Implant Used In Conjunction with the Cd Horizon® Spinal System For Posterior Lumbar Fusion In Patients With Symptomatic Degenerative Disc Disease" -Start: 2002, Close: 2008

PATENTS:

Received

United States

6,174,311 Interbody fusion grafts and instrumentation, 01/16/2001

6,193,757 Expandable intervertebral spacers, 02/27/2001

6,395,031 Expandable intervertebral spacers, 05/28/2002

6,200,322 Minimal exposure posterior spinal interbody instrumentation and technique,
3/13/2001

6,395,031 Expandable intervertebral spacers, 05/28/2002

6,610,065 Interbody fusion implants and instrumentation, 8/26/2003

6,833,006 Expandable intervertebral spacers, 12/21/2004

6,945,933 Instruments and Methods for Minimally Invasive Surgery,
9/20/2005

7,223,233 Illuminating a surgical space, 5/29/2007

7,217,293 Expandable Intervertebral Spacer, 5/15/2007

7,479,160 Interbody Fusion Grafts and Instrumentation, 1/20/2009

7,513,869 Instruments and Methods for Minimally Invasive Retraction and Surgery,
4/7/2009

7,524,285 Instruments and Methods for Minimally Invasive Retraction and Surgery,
4/28/2009

7,537,616 Impacted Orthopedic Bone Support Implant, 5/26/2009

- 7,556,601 Systems and Techniques for Illuminating a Surgical Space,
7/7/2009
- 7,578,820 Devices and Techniques for a Minimally Invasive Disc Space
Preparation
and Implant Insertion, 8/25/2009
- D 603,967 Surgical Head Support Adapter 11/10/2009
- 7,625,374 Interbody Fusion Grafts and Instrumentation, 12/1/2009
- 7,637,953 Interbody Fusion Grafts and Instrumentation, 12/29/2009
- 7,655,042 Expandable Intervertebral Spacers, 2/2/2010
- 7,794,477 Spinal Implants and methods with extended multi-axial anchor
assemblies,
9/14/2010
- 7,959,651 Systems and techniques for illuminating a surgical space,
6/14/2011
- 7,981,029 Instruments and methods for minimally invasive tissue retraction
and surgery,
7/19/2011
- 7,993,403 Expandable Intervertebral spacers, 8/9/2011
- 7,998,209 Interbody fusion grafts and instrumentation, 08/16/2011
- 8,012,188 Spinal implants and methods with extended multi-axial anchor
assemblies,
08/24/2010
- 8,221,502 Expandable spinal implants, 7/17/2012
- 8,353,937 Spinal Stabilization Systems and Methods, 1/15/2013
- 8,403,878 Subdural Drainage Catheter With Flow Restoration Mechanism,
3/26/2013
- 9,095,445 Vertebral Interbody Spacer 8/4/2015
- 9,095,489 Surgical head support adapter 8/4/2015
- 9,126,006 Subdural Drainage Catheter with self-contained mechanism for
flow restoration 9/8/2015
- 9,220,607 Pivotal Interbody Implant System, 12/29/2015
- 1,1065,130 Expandable Interbody Implant, 7/18/2021

Europe

- EP 1124510 Interbody Fusion Graft, 8/8/2001
- EP 1124512 Expandable Intervertebral Spacers, 8/22/2001
- EP 1459711 Expandable Intervertebral Spacers, 9/22/2004
- EP 1514519 Interbody Fusion Grafts and Instrumentation, 3/16/2005
- EP 1515646 Instruments and Methods for Minimally Invasive Tissue
retraction and Surgery, 3/23/3005
- EP 1663020 Devices and Techniques for Minimally Invasive Disc Space
Preparation and Implant Insertion, 6/7/2006
- EP 1545370 Systems and Techniques for Illuminating a Surgical Space,
6/29/2005
- EP 1699389 Expandable Spinal Implant, 9/13/2006
- EP 1727477 Instruments and Methods for Minimally Invasive Tissue
retraction and Surgery, 12/6/2006
- EP 1813228 Expandable Intervertebral Spacers, 8/1/2007
- EP 1827268 Spinal Implants and Methods of Extended Multi-Axial Anchor
Assemblies, 9/5/2007
- EP 10180605.7 Instruments and methods for minimally Invasive tissue
retraction and surgery, 11/19/2010

BIBLIOGRAPHY:

Monograph:

Branch CL, Gates RL, Susman JL, et al. Low back pain. Monograph, Edition No. 185, Homestudy Self-Assessment Program. Kansas City, MO: American Academy of Family Physicians, Oct. 1994;1-45.

Chapters in Books:

Branch CL Jr., Kelly DL Jr., Lynch GC. Surgical exposure of peripheral nerves. In: Wilkins RH, Rengachary SS, eds. Neurosurgery. New York: McGraw-Hill, 1985:1846-1863.

Kelly DL Jr., Branch CL Jr. Acoustic neurinoma. In: Long DM, ed. Current therapy in neurological surgery. 2nd ed. Baltimore: Decker, 1989:65-67.

Branch CL, Branch CL Jr. Posterior lumbar interbody fusion--the keystone technique. In: Lin PM, ed. Lumbar interbody fusion. Rockville, MD: Aspen, 1989:211-219.

Branch CL, Branch CL Jr. Operative management of failed back syndrome. In: Youmans J, ed. Neurological Surgery, 3rd ed. Philadelphia, PA: W.B. Saunders, 1990:2731-2748.

Branch CL Jr. Multiple brain metastases: are they surgical lesions? In: Barrow DL, ed. Perspectives in neurological surgery. St. Louis, MO: Quality Medical Publishing, Inc., 1990:35-44.

Hadley MN, Branch CL Jr., Geisler FH, Sonntag VKH. Management of cervical spine instability. In: Barrow DL, ed. Perspectives in neurological surgery. St. Louis, MO: Quality Medical Publishing, Inc., 1990:45-75.

Branch CL Jr. Peripheral nerve tumors. In: Benzel EC, ed. Practical Approaches to Peripheral Nerve Surgery. Park Ridge, IL: American Association of Neurological Surgeons, 1992:197-208.

Branch CL Jr. Posterior lumbar interbody fusion. In: Hardy RW, Jr., ed. Book Lumbar Disc Disease, New York: Raven Press, 1992:187-200.

Lyerly MA, Branch CL Jr. Anatomy and radiology of thoracic and thoracolumbar trauma. In: Rea CL, Miller CA (eds.). Spinal Trauma: current Evaluation and Management. Park Ridge, IL: American Association of Neurological Surgeons, 1993:105-116.

Branch CL Jr. Ventral thoracic and lumbar spine anatomy. In: Benzel EC (ed.): Surgical Exposure of the Spine: An Extensile Approach. Park Ridge, IL: The American Association of Neurological Surgeons, 1995; 27-37.

Branch CL Jr., Kelly DL Jr., Lynch GC. Surgical exposure of peripheral nerves. In: Wilkins RH, Rengachary SS (eds). Neurosurgery, 2nd ed., vol. III. New York: McGraw-Hill, 1996; 3147-3167.

Branch CL Jr. Stabilizing lumbar spondylolisthesis with decompression, fusion, and instrumentation. Al-Mefty O, Chapters in Books: (Continued)

Origitano TC, Harkey HL (eds.): Controversies in Neurosurgery. New York: Thieme Medical Publishers, Inc., 1996; 272-273.

Rajaraman V, Jackson CH, Branch CL Jr, Petrozza PH. Supratentorial and pituitary surgery. In: Albin MS, Melvin S (eds.): Textbook of Neuroanesthesia with Neurosurgical and Neuroscience

Perspectives. New York: McGraw-Hill, 1996; 931-957.

Branch CL Jr. The case for posterior lumbar interbody fusion. In: Loftus CM (ed.). Clinical Neurosurgery, Vol. 43. Baltimore, MD: Williams & Wilkins Co., 1996; 252-267.

Jones DS, Wray SD, Branch CL Jr. Posterior Lumbar Interbody Fusion: Historical and technical Overview. In: Batjer, HH, Loftus CM (eds.): Textbook of Neurological Surgery: Principles and Practice, Vol. 2. Philadelphia, PA: Lippincott Williams & Wilkins, 2003; 2167-2171.

Jones DS, Branch CL. History and over. In Haid RW Jr, McLaughlin MR, Fessler RG (eds.): Lumbar Interbody Fusion Techniques: Cages, Dowels, And Grafts, St. Louis, MO: Quality Medical Publishing, Inc, 2003:201-215.

McLaughlin MR, Branch CL Jr, Haid RW Jr, Subach BR. Technique for impacted posterior lumbar interbody fusion. In Haid RW Jr, McLaughlin MR, Fessler RG (eds.): Lumbar Interbody Fusion Techniques: Cages, Dowels, And Grafts, St. Louis, MO: Quality Medical Publishing, Inc, 2003:216-226.

Kim PK, Branch CL Jr. The Lumbar Degenerative Disc: Confusion, Mechanics, Management. In Clinical Neurosurgery, Vol. 53. Philadelphia, PA: Lippincott, Williams & Wilkins Co., 2006; 18-25.

Stevens EA, Branch CL, Jr. Fusion: posterior approaches. In: Phillips FM, Laurysen C, eds. The Lumbar Intervertebral Disc. New York, NY: Thieme; 2010:216-225

Neal MT, Rodriguez A, Branch CL. Cortical Bone Trajectory Pedicle Screw Fixation Mast Technique. In: Landriel F, Vecchi E. Frontiers in Neurosurgery Video Atlas of Spine Surgical Techniques Volume 2. Potomac, MD: Bentham eBooks; 2016: 327-334.
<http://ebooks.benthamscience.com/book/9781681081229>

Benjamin Frenkel, Mark & J. Renfrow, J & L. Branch, Charles. (2017). Cortical Bone Screw Fixation. Essentials of Spinal Stabilization. 389-399. 10.1007/978-3-319-59713-3_29.

Jaclyn J. Renfrow, Mark B. Frenkel, Charles L. Branch, Jr. – Minimally Invasive Midline Lumbar Fusion (MIDLIF). In: Lumbar Interbody Fusion by Elsevier. 2019:77-85

Journal Articles:

Branch CL Jr, Albertson DA, Kelly DL Jr. Post-traumatic acalculous cholecystitis on a neurosurgical service. Neurosurgery 1983; 12:98-101.

Branch CL Jr, Laster DW, Kelly DL Jr. Left atrial myxoma with cerebral emboli. Neurosurgery 1985; 16:675-680.

Branch CL Jr, Challa VR, Kelly DL Jr. Aneurysmal bone cyst with fibrous dysplasia of the parietal bone. J Neurosurg 1986; 64:331-335.

Branch CL Jr, Davis CH Jr. False aneurysms complicating carotid endarterectomy. Neurosurgery 1986; 19:421-425.

Branch CL, Branch CL Jr. Posterior lumbar interbody fusion with the keystone graft: technique and results. Surg Neurol 1987; 27:449-454.

Branch CL Jr, Laws ER Jr. Metastatic tumors of the sella turcica masquerading as primary pituitary tumors. J Clin Endocrinol Metabol 1987; 65:469-474.

Branch CL Jr, Britton BH, Kelly DL Jr. Neurological-otological treatment of acoustic tumors at the Wake Forest University Medical Center. NC Med J 1987; 48:401-403.

Branch CL Jr, Lee KS, McWhorter JM. Cadaveric dura as a vascular patch graft in the canine carotid artery model. Surg Forum 1987; 38:484-485.
Kelly DL Jr, Britton BH, Branch CL Jr. Cooperative neuro-otologic management of acoustic neuromas and other cerebellopontine angle tumors. South Med J 1988; 81:557-561.

Elster AD, Branch CL Jr. Transalar sphenoidal encephaloceles: clinical and radiologic findings. Radiology Journal 1989; 170:245-247.

Lee KS, Gower DJ, Branch CL Jr, Kelly DL Jr, McWhorter JM, Bell WO. Surgical repair of aneurysms of the posterior inferior cerebellar artery - a clinical series. Surg Neurol 1989; 31:85-91.

Branch CL Jr, Kelly DL Jr, Davis CH Jr, McWhorter JM. Fixation of fractures of the lower cervical spine using methyl methacrylate and wire: technique and Journal results in 99 patients. Neurosurgery 1989; 25:503-513.

Curling OD Jr, Branch CL Jr, Nicastro JF. Arthroscopically guided transpedicular decompression of thoracolumbar burst fractures: a new technique. J Neurosurg 1990; 72:338A.

Branch CL Jr. Codman® Neurolase® CO₂ microsurgical laser system surgical considerations. Neuro News 1990; 17. Wilson TA, Branch CL Jr. Thoracic disk herniation. Am Fam Phys 1992;45(5):2162-2168.

Branch CL Jr, Coric D, Olds W, Ekstrand K. Stereotactic radiosurgery: a review of "Gamma" and "Linac knife" technology and the unit at the Wake Forest Medical Center. NCMJ 1992; 53:395-399.
Ekstrand KE, Olds WW, Branch CL. A simple test phantom for stereotactic computed tomography. Med Phys 1993; 20:391-393.

Wilson JA, Branch CL Jr. Neuromuscular blockade in head-injured patients with increased intracranial pressure: continuous versus intermittent use. J Neurosurg Anes 1994; 6:139-141.

Branch CL Jr. Anatomic principles guiding surgery of degenerative lumbar spine disease. Clin Neurosurg 1994; 41:258-269.

Rozzelle CJ, Wofford JL, Branch CL. Predictors of hospital mortality in older patients with subdural hematoma. J Am Ger Soc 1995;240-244.

Coric D, Branch CL Jr, Graham AW. Pedicle screw and plate/rod fixation of the thoracic and lumbar spine: Safety and efficacy in 113 patients. Neurological Surgery 1995; 6(2):85-94.

Coric D, Branch CL Jr, Wilson JA, Robinson JC. Arteriovenous fistula as a complication of C1-2 transarticular screw fixation. Case report and review of the literature. J Neurosurg 1996; 85:340-343.

Coric D, Branch CL Jr, Jenkins JD. Revision of anterior cervical pseudarthrosis with anterior allograft fusion and plating. J Neurosurg 1997; 86:969-974.

Jenkins JD, Coric D, Branch CL Jr. A clinical comparison of one- and two-screw odontoid fixation. J Neurosurg 1998; 89:366-370.

Delcker A, Knappertz VA, Wilson J, Branch C, Bell T, Tegeler C. Transcranial 3D B-mode imaging in a case of cerebral hemorrhage. J Neuroimaging 1998; 8(3):173-175.

Branch CL Jr. Anterior cervical fusion: The case for fusion without plating. *Clin Neurosurg* 1999; 45:22-24.

Wilson JA, Bowen S, Branch CL Jr., Meredith JW. Review of 31 cases of anterior thoracolumbar fixation with the anterior thoracolumbar locking plate system. *Neurosurg Focus* 1999; 7(1): 1-8.

Namen AM, Ely EW, Tatter SB, Case LD, Lucia MA, Smith A, Landry S, Wilson JA, Glazier SS, Branch CL, Kelly DL, Bowton DL, Haponik EF. Predictors of successful extubation in neurosurgical patients. *Am J Respir Crit Care Med* 163; 2001:658-664.

Alexander JT, Branch CL Jr, Subach BR, Haid RW. Applications of a resorbable Interbody spacer via a posterior lumbar Interbody fusion technique. *Orthopedics (Supplement)* 25;2002: s1185-s1189.

Alexander JT, Branch CL Jr, Subach BR, Haid RW. Applications of a resorbable Interbody spacer via a posterior lumbar Interbody fusion technique. *J of Neurosurg* 97;2002: 468-472.

Austin RC, Branch CL Jr, Alexander JT. Novel bioabsorbable interbody fusion spacer-assisted fusion for correction of spinal deformity. *Neurosurg Focus*. 2002; 14:1-6.

Vaccaro AR, Singh K, Haid R, Kitchel S, Wuisman P, Taylor W, Branch C, Garfin S. The use of bioabsorbable implants in the spine. *Spine J* 2003; 3:227-237.

Couture DE, Branch CL, Jr. Spinal pseudomeningoceles and cerebrospinal fluid fistulas. *Neurosurg Focus* 2003;15 (6): 1-5.

Couture, DE, Branch CL, Jr. Posterior lumbar interbody fusion with bioabsorbable spacers and local autograft in a series of 27 patients. *Neurosurg Focus* 2004;16 (3):1-5.

Schuler, TC, Subach, BR, Branch CL, Foley, KT, Burkus, JT, the Lumbar Spine Study Group. Segmental lumbar lordosis: manual versus computer-assisted measurement using seven different techniques. *J SpinalDisord Tech* 2004; 17:372-379.

Haid RW, Branch CL, Alexander JT, Burkus JK. Posterior lumbar interbody fusion using recombinant human bone morphogenetic protein type 2 with cylindrical interbody cages. *Spine J*. 2004 Sep-Oct;4(5):527-38; discussion 538-9

Barnes B, Alexander JT, Branch CL, Jr. Postoperative level 1 anticoagulation therapy and spinal surgery: practical guidelines for management. *Neurosurg Focus* 2004;17(4): E5.

Branch CL Jr. Balance: a team effort [editorial]. *Spine J*. 2005;5(2):121-122.

Glassman, S., Gornet, M.F., Branch, C., Polly Jr., D, Peloza, J., Schwender, J.D., Carreon, L. MOS Short Form 36, and Oswestry Disability Index outcomes in lumbar fusion: a multicenter experience. *The Spine J*. 2006;6:21-26.

Balamucki CJ, Stieber VW, Ellis TL, Tatter SB, Deguzman AF, McMullen KP, Lovato J, Shaw EG, Ekstrand KE, Bourland JD, Munley MT, Robbins M, Branch C. Does dose rate affect efficacy? The outcomes of 256 Gamma Knife surgery procedures for trigeminal neuralgia and other types of facial pain as they relate to the half-life of cobalt. *J Neurosurg*. 2006 Nov;105(5):730-5.

Kim PK, Branch CL Jr: The lumbar degenerative disc: confusion, mechanics, management. *Clin Neurosurg* 2006; 53:18-25.

Polly DW, Glassman SD, Schwender JD, Burkus JK, Branch C, Schaffrey C, Gornet M, and Lumbar

Spine Study Group. SF-36 PCS benefit/cost ratio of lumbar fusion: comparison to other surgical interventions. *Spine* 2007; 32(11) Supplement: S20-S26.

Stieber V, Robbins M, deGuzman A, Tatter S, Ekstrand K, McMullen K, Branch C, Shaw E, Bourland JD, Lovato J, Munley M, Ellis T, et al: Determination of a clinical value for the repair half-time (T1/2) of the trigeminal nerve based on outcome data from gamma knife radiosurgery for facial pain. *Radiat Res* 2007;168(2):143-148. <http://dx.doi.org/10.1667/RR0620.1>

Branch CL: Neurosurgery and spine: a vital synergy--Chairperson address, 2007 Annual Meeting of Section of Disorders of Spine and Peripheral Nerves [editorial]. *J Neurosurg Spine* 2007;7(4):377-378. <http://dx.doi.org/10.3171/SPI-07/10/377>

Glassman SD, Branch CL Jr: Evidence-based medicine: raising the bar [editorial]. *Spine J* 2007 ;7(5) :513-515. <http://dx.doi.org/10.1016/j.spinee.2007.04.011>

Stevens EA, Strowd R, Branch CL, Jr. Minimally invasive en bloc resection of a spinal hemangioblastoma. *AANS Online Case Studies*; E pub, 2008.

Branch CL Jr: 2009 Presidential Address: Building bridges. *Spine J* 2010;10(1):1-4 (PMID: 20129238).

Stevens EA, Marsh R, Wilson JA, Sweasey TA, Branch CL, Powers AK. A review of surgical intervention in the setting of traumatic central cord syndrome. *Spine J* 2010;10(10):874-880 DOI: 10.1016/j.spinee.2010.07.388. (PMID: 20869001P0).

Lee JY, Hohl JB, Fedorka CJ, Devin C, Brodke DS, Branch CL, Vaccaro AR. Surgeons agree to disagree on Journal surgical options for degenerative conditions of the cervical and lumbar spine. *Spine (Phila Pa 1976)*. 2011 Feb 1;36(3): E203-E212 (PMID: 21192301).

Branch, CL Jr: Physician-directed [sic] (off-label) use of recombinant bone morphogenic protein-2: let us do it well! [editorial]. *Spine J*. 2011; 11(6):469-470. <http://dx.doi.org/10.1016/j.spinee.2011.04.005>

Neal MT, Hsu W, Urban JE, Angelo NM, Sweasey TA, Branch CL. The Subdural Evacuation Port System: Outcomes from a single institution experience and predictors of success. *Clinical Neurology and Neurosurgery*, June 2013: 115(6): 658– 664. (PMID 22863544)

Rodriguez A, Neal MT, Liu A, Somasundaram A, Hsu W, Branch CL Jr. Novel placement of cortical bone trajectory screws in previously instrumented pedicles for adjacent-segment lumbar disease using CT image-guided navigation. *Neurosurg Focus*. 2014 Mar;36(3): E9. doi: 10.3171/2014.1.FOCUS13521.

Devin CJ, Chotai S, McGirt MJ, Vaccaro AR, Youssef JA, Omdorff DG, Arnold PM, Frempong-Boadu AK, Lieberman IH, Branch CL, Hedayat HS, Liu A, Wang JC, Isaacs RE, Radcliff KE, Patt JC, Archer KR. Intrawound Vancomycin Decreases the Risk of Surgical Site Infection after Posterior Spine Surgery- A Multicenter Analysis. *SPINE*. 2015 Dec 10. [Epub ahead of print] PMID:26656042, DOI:10.1097/BRS.0000000000001371

Frenkel MB, Frey CD, Renfrow JJ, Wolfe SQ, Powers AK, Branch CL, A call for consistent radiographic definition of lumbar lordosis. *J Neurosurgery*. 2018 May 4, DOI: 10.3171/2017.11.SPINE17976

Branch CL, Boop F, Haglund MM, Dempsey RJ, Introduction Neurosurgical opportunities in global health inequities. *Neurosurg Focus*. 2018 Oct;45(4): E1. doi: 0.3171/2018.7.FOCUS18367. No abstract available. PMID:30269592

West JL, Fargen KM, Hsu W, Branch CL, Couture DE. A review of Big Data analytics and potential for implementation in the delivery of global neurosurgery. *Neurosurg Focus*. 2018 Oct;45(4): E16. doi: 10.3171/2018.7.FOCUS18278. PMID:30269593

Day AL, Branch, CL, Giannotta SL. Commentary: modern training and credentialing in neuroendovascular acute ischemic stroke therapy. *Neurosurgery* 2019 July: 85: S1. <https://doi.org/10.1093/neuros/nyz085>

Nitin Agarwal, MD, Diego D. Luy, BS, Joanne M. Bonaminio, BA, Chris A. Philips, Kathryn A. Dattomo, MNA, CAE, CFRE, Robert F. Heary, MD, Charles L. Branch Jr., M0, Jon H. Robertson, MD, Michael W. Groff, MD, Regis W. Haid Jr., MD. Chronicling the philanthropic arm of neurological surgery: a review of the growth and development of the Neurosurgery Research & Education foundation. *J Neurosurgery*, 2020

[Neurosurgery residency and fellowship education in the United States: 2 decades of system development by the One Neurosurgery Summit organizations.](#)

Selden NR, Barbaro NM, Barrow DL, Batjer HH, **Branch CL**, Burchiel KJ, Byrne RW, Dacey RG, Day AL, Dempsey RJ, Derstine P, Friedman AH, Giannotta SL, Grady MS, Harsh GR, Harbaugh RE, Mapstone TB, Muraszko KM, Origitano TC, Orrico KO, Popp AJ, Sagher O, Selman WR, Zipfel GJ. Selden NR, et al. Among authors: **branch cl**. *J Neurosurg*. 2021 Aug 6:1-10. doi: 10.3171/2020.10.JNS203125. Online ahead of print. *J Neurosurg*. 2021. PMID: 34359022

Abstracts:

Branch CL Jr., Davis CH Jr. False aneurysm complicating carotid endarterectomy. *Neurosurgery* 1985; 16:726.

Branch CL Jr., Branch CL. The keystone PLIF: description and review of 182 cases with the spinous process as the bone graft in posterior lumbar interbody fusion. *Neurosurgery* 1985; 16:727-728.

Kelly DL Jr., Branch CL Jr. Cooperative neurootological management of acoustic neurinomas and other cerebellopontine angle tumors. *Neurosurgery* 1987; 21:120.

Branch CL, Kelly DL, Alexander E, Davis CH, McWhorter JM. Fixation of lower cervical spine fractures using methyl methacrylate and wire: technique and results in 99 patients. *Neurosurgery* 1987; 21:116.

Lee KS, Branch CL Jr., Kelly DL Jr., McWhorter JM. Aneurysms of the posterior inferior cerebellar artery: a clinical study. *Neurosurgery* 1988; 23:262.

Curling OD, Branch CL Jr., Nicastro JF. Arthroscopically-guided transpedicular decompression of thoracolumbar burst fractures: a new technique. *J Neurosurg* 1990; 72:338A.

Rozzelle CJ, Wofford JL, Branch CL. Factors influencing outcome of subdural hematoma in the elderly. *Clin Res* 1993; 41:530A.

Jenkins JD, Branch CL, Kelly DL. A comparison of anterior cervical instrumentation systems. *North American Spine Society, Proceedings*, 1995; 215.

Branch CL: Neurosurgery and spine: a vital synergy--Chairperson address, 2007 Annual Meeting of Section of Disorders of Spine and Peripheral Nerves [editorial]. *J Neurosurg Spine* 2007;7(4):377-378. <http://dx.doi.org/10.3171/SPI-07/10/377>

Glassman SD, Branch CL Jr: Evidence-based medicine: raising the bar [editorial]. *Spine J* 2007;7(5):513-515. <http://dx.doi.org/10.1016/j.spinee.2007.04.011>

Jenkins JD, Branch CL, Kelly DL. A comparison of anterior cervical instrumentation systems. North American Spine Society, Proceedings, 1995; 282.

Coric D, Branch CL. Pedicle screw plate/rod fixation: safety and efficacy in 113 patients. North American Spine Society, Proceedings, 1995; 300.

Robinson JC, Branch CL Jr. Acquired thoracic stenosis. North American Spine Society, Proceedings, 10th Annual Meeting, Washington, DC, October 18-21, 1995; 319.

Tatter SB, Namen AM, Ely EW, Lucia MA, Case DL, Landry S, Haponik EF, Wilson JA, Glazier SS, Branch, CL Jr., Kelly DL Jr. Predictors of successful extubation in neurosurgical patients. *Neurosurgery* 2000; 47(2): 536 (abstract).

Alexander J, Branch C Jr. Recombinant human bone morphogenic protSD stem-2 in a posterior lumbar interbody fusion construct *Spine J* 2002;2(5 Suppl 1):48. [abstract].

Ramsey AF, Ekstrand K, Lovato J, Stieber V, Huang T, Bourland J, Deguzman A, Branch C, Ellis T, Tatter S. Edema following Gamma-Knife radiosurgery for intracranial meningiomas. *Int J Radiat Oncol Biol Phys* 2002;54(2 Suppl):146-147. [abstract]

Ellis TL, Deguzman AF, Shaw E, Tatter SB, Ekstrand K, Bourland JD, Branch C, Munley MT, Huang TW, Stieber VW. The Outcome of Gamma Knife Radiosurgery For Facial Pain Varies By Pre-Treatment Burchiel Classification Pain Type: Results From 256 Gamma Knife Radiosurgery Procedures For Facial Pain [Abstract]. *Int J Radiat Oncol Biol Phys* 2005;63(2 Suppl 1): S104-S105.

Ellis TL, Deguzman AF, Tatter SB, Bourland JD, Munley M, Ekstrand K, Shaw EG, Branch C, Huang TW, Stieber VW. The Effect of Dose Rate On The Outcomes Of 256 Gamma Knife Radiosurgery Procedures For Facial Pain [Abstract]. *Int J Radiat Oncol Biol Phys* 2005;63(2 Suppl 1): S106-S107.

Abitbol JJ, Glassman S, Polly D, Shaffrey C, Branch C, and Burkus K. Age stratified outcome analysis of surgical decompression and fusion for lumbar degenerative spondylolisthesis [Abstract]. 2007 International Society of the Study of the Lumbar Spine, Hong Kong, China. June 10-14, 2007. 2007 World Spine IV: The Fourth Interdisciplinary Congress on Spine Care, Istanbul, Turkey. July 29-August 1, 2007. (*In review*, International Meeting on Advanced Spine Techniques, Paradise Island, Bahamas. July 11-14, 2007. 2007 North American Spine Society, Austin, TX. October 23-27.) Berven S, Glassman SD, Gornet M, Branch CL, Dimar JL, Hu SS. The Discriminate Validity of the SF-36 in Lumbar Spine Surgical Candidates [Abstract]. 2007 American Academy of Orthopedic Surgeons, San Diego, CA. February 14-18, 2007.

Miscellaneous:

Handbook of Physiology, Section I: The Nervous System. Vol. III, The Sensory Processes, Parts I and II. For: *Surgical Neurology* 1985; 23:207. (Book Review)

Head Injury, 2nd ed. Cooper PR, ed. Baltimore: Williams and Wilkins, 1987. For: *Surgical Neurology*, 1987;477-478. (Book Review)

Branch CL Jr, McWhorter JM. Introduction. *Neurosurgery* 1988;22(1 pt. 2):169.

Branch CL Jr. Observations on the selection of a neurosurgical residency training program: a resident's prospective. *Neurosurgery* 1988;22(1 pt. 2):172.

Advances and Technical Standards in Neurosurgery. Symon L, et al., eds. New York: Springer-Verlag, 1988. For: Surg Neurol 1990; 16:78. (Book Review)

Principles of Microsurgery for Lumbar Disc Disease. McCulloch JA. New York: Raven Press, 1989. For: Surg Neurol 1990; 33:78-79. (Book Review)

Surgery of Spine Trauma. Meyer PR Jr., ed. New York: Churchill Livingstone, 1989. For: J Neurosurg 1990; 72:980-981. (Book Review)

LECTURES AND ORAL PRESENTATIONS:

Branch CL Jr., Davis CH Jr. False aneurysm complicating carotid endarterectomy. Southern Neurosurgical Society Annual Meeting, Phoenix, Arizona, 1985.

Branch CL Jr., Branch CL. The keystone PLIF: description and review of 182 cases with the spinous process as the bone graft in posterior lumbar interbody fusion. Southern Neurosurgical Society Annual Meeting, Phoenix, Arizona, 1985.

Branch CL Jr., Kelly DL Jr. Cooperative neuro-otologic management of acoustic neurinomas and other cerebellopontine angle tumors. Southern Neurosurgical Society Annual Meeting, Kiawah, South Carolina, March 1987.

Branch CL Jr., Kelly DL Jr., Alexander E Jr., Davis CH Jr., McWhorter JM. Fixation of lower cervical spine fractures using methylmethacrylate and wire: technique and results in 99 patients. Southern Neurosurgical Society Annual Meeting, Kiawah, South Carolina, March 1987.

Branch CL Jr., Kelly DL Jr., Alexander E Jr., Davis CH Jr., McWhorter JM. Methylmethacrylate and wire as a surgical stabilization technique for traumatic and other cervical spine fracture dislocations: a 25-year clinical series of 209 patients. American Association of Neurological Surgeons Annual Meeting, Dallas, Texas, May 1987.

Branch CL Jr., Lee KS, McWhorter JM. Cadaveric dura as a vascular patch graft in the canine carotid artery model. American College of Surgeons Clinical Congress, San Francisco, California, October 1987.

Branch CL, Jr. Persistent trigeminal artery as a potential complicating factor of transsphenoidal pituitary surgery. Neurosurgical Society of America meeting, Hot Springs, Virginia, April 9, 1988.

Branch CL Jr. Surgical management of acoustic neuroma. Association of Operating Room Nurses meeting, Forsyth Hospital, Winston-Salem, North Carolina, February 7, 1989.

Branch CL Jr. Multiple brain metastases: are they surgical lesions? Richard Lende Winter Neurosurgery Conference, Snowbird, Utah, February 7, 1989.

Branch CL Jr. Identification and referral of potential organ donors from a neurosurgical perspective. AHEC Seminar, Hickory, North Carolina, October 18, 1989.

Curling OD, Branch CL Jr., Nicastro JF. Arthroscopically-guided transpedicular decompression of thoracolumbar burst fractures: a new technique. AANS/CNS, Joint Section on Disorders of the Spine and Peripheral Nerves, Annual Meeting, Captiva Island, Florida, February 7-11, 1990.

Branch CL Jr. Arthroscopically-guided transpedicular decompression of thoracolumbar burst fracture: a new technique. Scientific Section of the American Association of Neurological Surgeons Annual Meeting, Nashville, Tennessee, April 30, 1990.

Branch CL Jr. Deep venous thrombosis--awareness and prophylaxis. Department of Surgery of the Greater Laurel Beltsville Hospital, Baltimore, Maryland, September 17, 1990.

Branch CL Jr. Bowman Gray School of Medicine Experiences with stereotactic radiosurgery. Phillips International User Meeting, Williamsburg, Virginia, September 7-9, 1990.

Branch CL Jr. Peripheral nerve injury and repair. Congress of Neurological Surgeons, Los Angeles, California, October 22, 1990.

Branch CL Jr. Management of brain metastases. Congress of Neurological Surgeons, Los Angeles, California, October 22, 1990.

Branch CL Jr. Stereotactic Radiosurgery. North Carolina Medical Society 1990 Fall Conference, Pinehurst, North Carolina, November 10, 1990.

Branch CL Jr. Head and spinal injuries on the ski slopes. Winter Emergency Symposium, Banner Elk, North Carolina, February 9, 1990.

Branch CL Jr. Posterior lumbar interbody fusion with and without Steffe plate fixation. AANS/CNS 7th Annual Meeting of the Joint Section of Disorders of the Spine and Peripheral Nerves, Rancho Mirage, California, February 13-17, 1991.

Branch CL Jr. Methyl methacrylate fusion technique. AANS/CNS 7th Annual Meeting of the Joint Section of Disorders of the Spine and Peripheral Nerves, Rancho Mirage, California, February 13-17, 1991.

Branch CL Jr. Hooks, Rods, plates, and screws: how and when to stabilize. AANS/CNS 7th Annual Meeting of the Joint Section of Disorders of the Spine and Peripheral Nerves, Rancho Mirage, California, February 13-17, 1991.

Branch CL Jr., Faircloth WB. Posterior lumbar inter body fusion with and without Steffe plate fixation. Southern Neurosurgical Society Meeting, Sea Island, Georgia, March 10, 1991.

Branch CL Jr. Methods and problems of cervical spine stabilization. American Association of Neurological Surgeons, 59th Annual Meeting, New Orleans, Louisiana, April 20-25, 1991.

Branch CL Jr. Stereotactic surgery. Frye Regional Medical Center, Hickory, North Carolina, June 13, 1991.

Branch CL Jr. Bowman Gray's experience with stereotactic radiosurgery. Stereotactic User meeting, Amelia Island, Florida, September 6-8, 1991.

Branch CL Jr. Anatomy and radiology of thoracic and thoracolumbar spine fractures. 8th Annual Meeting, AANS/CNS Joint Section on Disorders of the Spine and Peripheral Nerves meeting in Miami, Florida, February 7, 1992.

Branch CL Jr. Posterior lumbar interbody fusion for recurrent lumbar disk disease. Neurological Society of America Annual Meeting, Banff, Alberta, Canada, June 13-17, 1992.

Branch CL Jr. Posterior lumbar interbody fusion: who, what, when, why and how. University of Virginia, Charlottesville, Virginia, July 16, 1992.

Branch CL Jr. Assessment of cervical spine stability. University of Virginia, Charlottesville, Virginia, July 17, 1992.

Branch CL Jr. Peripheral nerve neoplasms - an overview. University of Virginia, Charlottesville, Virginia, July 18, 1992.

Branch CL Jr. Common entrapment neuropathies. Congress of Neurological Surgeons Meeting, Washington, DC, November 4, 1992.

Branch CL Jr. Peripheral nerve tumors. Congress of Neurological Surgeons Meeting, Washington, DC, November 4, 1992.

Branch CL Jr. Practical course on cervical spine stabilization. Congress of Neurological Surgeons Meeting, Washington, DC, November 4, 1992.

Branch CL Jr. Moderator. Bone healing and fixation. General Session, Joint Section on Disorders of the Spine and Peripheral Nerves, American Association of Neurological Surgeons/Congress of Neurological Surgeons, Tucson, Arizona, February 17, 1993.

Branch CL Jr. Posterior lumbar interbody fusion: results of a series and its place in the management of recurrent disc herniation. Southern Neurosurgical Society meeting, Williamsburg, Virginia, April 1-4, 1993.

Branch CL Jr. Posterior subaxial cervical spine stabilization. 61st Annual Meeting, American Association of Neurological Surgeons, Boston, Massachusetts, April 24, 1993.

Branch CL Jr. Panelist, Seminar on "Thoracolumbar Fractures: Evaluation, Therapy, and Long-Term Expectations." American Association of Neurological Surgeons, Boston, Massachusetts, April 27, 1993.

Branch CL Jr. Panelist, Seminar on "Applications of Ionizing Radiation in Brain Tumor Management." American Association of Neurological Surgeons, Boston, Massachusetts, April 28, 1993.

Branch CL Jr. Practical course on "Cervical Spine Stabilization and Instrumentation." Congress of Neurological Surgeons, 43rd Annual Meeting, Vancouver, British Columbia, Canada, October 3, 1993.

Branch CL Jr. Panelist, Seminar on "Thoraco-lumbar Fractures." Congress of Neurological Surgeons, 43rd Annual meeting, Vancouver, British Columbia, Canada, October 5, 1993.

Branch CL Jr. Moderator, "Controversies in Clinical Management." General Scientific Session, 43rd Annual Meeting, Congress of Neurological Surgeons, British Columbia, Canada, October 5, 1993.

Branch CL Jr. Degenerative disease of lumbar spine. General Scientific Session, 43rd Annual Meeting, Congress of Neurological Surgeons, Vancouver, British Columbia, Canada, October 5, 1993.

Branch CL Jr. Posterior cervical stabilization course. Joint Section on Disorders of the Spine and Peripheral Nerves, American Association of Neurological Surgeons/Congress of Neurological Surgeons, 10th Annual Meeting, Ft. Lauderdale, Florida, February 9, 1994.

Branch CL Jr. Head and spinal cord injuries. Presented to the medical staff of the Hospital of Patrick and Henry County, Virginia, Stuart, Virginia, February 15, 1994.

Branch CL Jr. Posterior cervical fixation techniques. Workshop on Cervical Spine Instability: Instrumentation and Other Methods of Management. American Association of Neurological Surgeons Annual Meeting, San Diego, California, April 9, 1994.

Branch CL Jr. Panelist for discussion on "Surgical Management of Thoracic Spine Lesions." American Association of Neurological Surgeons Annual Meeting, San Diego, California, April 13, 1994.

Branch CL Jr. Anterior surgical approaches to the cervical spine. American Association of Neurological Surgeons Annual Meeting, San Diego, California, April 14, 1994.

Branch CL Jr. Moderator, "Cervical Disorders," and "Non-surgical Management of Cervical Disc Disease. Joint Meeting, North American Spine Society and the Japanese Spine Research Society, Maui, Hawaii, April 15, 22-1994.

Branch CL Jr. Moderator of round-table discussion on "Cervical Spine Trauma." Joint Meeting of the North American Spine Society and the Japanese Research Society, Maui, Hawaii, April 15-22, 1994.

Branch CL Jr. Indications for posterior cervical fixation after trauma. Joint Meeting of the North American Spine Society and the Japanese Research Society, Maui, Hawaii, April 15-22, 1994.

Branch CL Jr. Pedicle screw and plate/rod fixation of the thoracic and lumbar spine: safety and efficacy in 150 patients. Presented at the Neurosurgical Society of America Annual Meeting, Blaine, Washington, May 23, 1994.

Branch CL Jr. Member of panel for course entitled "Consultant's Corner on Spinal Disorders." 44th Annual Meeting, Congress of Neurological Surgeons, Chicago, Illinois, October 2, 1994.

Branch CL Jr. Course Director, "Cervical Stabilization and Halo Application." 44th Annual Meeting, Congress of Neurological Surgeons, Chicago, Illinois, October 2, 1994.

Branch CL Jr. Options for failed back treatment. 44th Annual Meeting, Congress of Neurological Surgeons, Chicago, Illinois, October 5, 1994.

Branch CL Jr. Pedicle screw fixation of the thoracic and lumbar spine: safety and efficacy in 113 patients. Joint Section of Spinal Disorders of the AANS and CNS, Phoenix, Arizona, February 18, 1995.

Branch CL Jr. The biomechanics of cervical spine trauma and internal fixation. Seminar on Spine Trauma, American Academy of Orthopedic Surgery, Orlando, Florida, February 20, 1995.
LECTURES AND ORAL PRESENTATIONS: (continued)

Branch CL Jr. Director of course on "Cervical Spine Instability: Instrumentation and other methods of management. American Association of Neurological Surgeons meeting, Orlando, Florida, April 23, 1995.

Branch, CL Jr. Panelist, "Indications for Lumbar Fusion: When and What to Fuse?" American Association of Neurological Surgeons meeting, Orlando, Florida, April 24, 1995.

Branch, CL Jr. Co-Moderator, AANS/CNS Joint Section on Disorders of the Spine and Peripheral Nerves, Scientific Session, American Association of Neurological Surgeons Meeting, Orlando, Florida, April 25, 1995.

Branch CL Jr. Co-Director, Course on "Cervical Spine Instrumentation I: C2-T1." Congress of Neurological Surgeons, 45th Annual Meeting, San Francisco, California, October 15, 1995.

Branch CL Jr. Co-Director, Course on "Cervical Spine Instrumentation II: Occiput-C2." Congress of Neurological Surgeons, 45th Annual Meeting, San Francisco, California, October 15, 1995.

Branch CL Jr. "The Case for PLIF." Congress of Neurological Surgeons, 45th Annual Meeting, San

Francisco, California, October 18, 1995.

Branch CL Jr. "Anterior revision of failed anterior cervical fusion with allograft interbody fusion and plating." 1st International R. Roy-Camille Meeting on Spine, Paris, France, January 20, 1996.

Branch CL Jr. "Anterior fusion in cervical fractures, using the Orion plate." San Carlos University Hospital, Madrid, Spain, February 9, 1996.

Branch CL Jr. "Anterior cervical stabilization with the Orion plate in degenerative pathology." San Carlos University Hospital, Madrid, Spain, February 9, 1996.

Branch CL Jr. Moderator, "Symposium I: Bone." 12th Annual Meeting, Joint Section on Disorders of the Spine and Peripheral Nerves of the American Association of Neurological Surgeons and Congress of Neurological Surgeons, Lake Buena Vista, Florida, February 29, 1996.

Branch CL Jr. "Anterior revision of failed anterior cervical fusion with allograft interbody fusion and plating." Neurosurgical Society of America, 49th Annual Meeting, Laguna Niguel, California, May 7, 1996.

Branch CL Jr. "Treatment of cervical myelopathy and radiculopathy." 1996 Annual Meeting of the North Carolina Spine Society, Charlotte, North Carolina, June 1, 1996.

Branch, CL Jr. Instructor, course on "Craniovertebral junction and upper cervical spine stabilization." Congress of Neurological Surgeons 46th Annual Meeting, Montreal, Canada, September 29, 1996.

Branch, CL Jr. Instructor, course on "Posterior cervical stabilization techniques." Congress of Neurological Surgeons 46th Annual Meeting, Montreal, Canada, September 29, 1996.

Branch, CL Jr. Moderator, Degenerative lumbar spondylolisthesis: "To fuse or not to fuse?" Congress of Neurological Surgeons 46th Annual Meeting, Montreal, Canada, October 1, 1996.

Branch CL Jr. Instructor, course on "Cervical stabilization." Joint Section on Disorders of the Spine and Peripheral Nerves of the American Association of Neurological Surgeons and Congress of Neurological Surgeons, 12th Annual Meeting, Lake Buena Vista, Florida, March 1, 1996.

Branch CL Jr. Instructor, course entitled "Special Course II--Occipito cervical stabilization." 13th Annual Meeting, Section on Disorders of the Spine and Peripheral Nerves, American Association of Neurological Surgeons and Congress of Neurological Surgeons, Newport Beach, California, February 21, 1997.

Branch CL Jr. Moderator for presentation of papers, 13th Annual Meeting, Section on Disorders of the Spine and Peripheral Nerves, American Association of Neurological Surgeons and Congress of Neurological Surgeons, Newport Beach, California, February 21, 1997.

Branch CL Jr. Plenary Lecture. Posterior lumbar interbody fusion (PLIF) as effective treatment for primary midline disc herniation. 8th International Conference on Lumbar Fusion & Stabilization, San Antonio, Texas, October 2, 1997.

Branch CL Jr. Moderator: Instrumentation for spinal correction, stabilization, and spinal fusion augmentation. 8th International Conference on Lumbar fusion & Stabilization, San Antonio, Texas, October 2, 1997.

Branch CL Jr. Moderator: Cervical spine. North American Spine Society, 12th Annual Meeting, New

York, New York, October 25, 1997.

Branch CL Jr. The Case for PLIF. Section on Disorders of the Spine and Peripheral Nerves of the American Association of Neurological Surgeons and Congress of Neurological Surgeons, 14th Annual Meeting, Rancho Mirage, California, February 13, 1998.

Branch CL Jr. Coordinator: Special Course VII--consultants Corner: Cervical. Joint Section on Disorders of the Spine and Peripheral Nerves of the American Association of Neurological Surgeons and Congress of Neurological Surgeons, 14th Annual Meeting, Rancho Mirage, CA, February 13, 1998.

Branch CL Jr. Instructor, course on "Cervical spine instability: Instrumentation and other methods of management." American Association of Neurological Surgeons, 66th Annual Meeting, Philadelphia, Pennsylvania, April 26, 1998.

Branch CL Jr. Director, Practical Clinic 013, "Lumbar interbody fusion and interbody techniques." American Association of Neurological Surgeons, 66th Annual Meeting, Philadelphia, Pennsylvania, April 27, 1998.

Branch CL Jr. Director, Practical Clinic 029, "Lumbar interbody fusion and interbody techniques." American Association of Neurological Surgeons, 66th Annual Meeting, Philadelphia, Pennsylvania, April 27, 1998.

Branch CL Jr. Panelist, "Indications and techniques of lumbar interbody fusion." American Association of Neurological Surgeons, 66th Annual Meeting, Philadelphia, Pennsylvania, April 29, 1998.

Branch CL Jr. Instructor, course on "Lumbar fusion - Interbody fusion using threaded cylindrical cortical bone dowels and/or cages - BAK vs. thorascopic cages. Neurosurgical Society of America, 51st Annual Meeting, Quebec, Canada, May 15, 1998.

Branch CL Jr., Wray S, White BT. Lecture. Posterior lumbar interbody fusion using pre-sized allograft bone and segmental internal fixation: an alternative to threaded interbody fusion. Neurosurgical Society of America, 52nd Annual Meeting, Scottsdale, AZ, March 28, 1999.

Fehlings MG, Boker D-K, Branch C, Geisler F, Haid R, Johnston R, Kalfas I, Paramore C, Rodts G, Sonntag V, Taylor W, Traynellis V, Winking M. Clinical and radiological evaluation of the Codman anterior cervical plate: results of a prospective, multi-center study with two-year follow-up. Cervical Spine Research Society, 27th Annual Meeting, Seattle, Washington, December 16-18, 1999.

Connolly E, Branch C. Point Counterpoint: Management of chronic back pain and interbody fusion. American Academy of Neurological Surgeons, 62nd Annual Meeting, Colorado Springs, CO, October 13, 2000.

Wray S, Wilson JA, Branch CB Jr. Patient outcome following posterior interbody fusion using threaded fusion cages: a prospective study. Southern Neurosurgical Society, Austin, Texas, March 17, 2001.

Branch CL Jr., moderator. Lumbar spine fusion: Indications, patient selection and current techniques. American Academy of Neurological Surgeons, 2001 Annual Meeting, Toronto, Ontario, Canada, April 24, 2001.

Branch CL Jr., panelist. Indications and techniques of lumbar interbody fusion. American Academy of Neurological Surgeons, 2001 Annual Meeting, Toronto, Ontario, Canada, April 25, 2001.

Branch CL Jr. Recurrent herniated lumbar disc. Congress of Neurological Surgeons, 51st Annual Meeting, Section on Disorders of the Spine and Peripheral Nerves II, San Diego, California, October 3, 2001.

Branch CL Jr., panelist. Approaches to spinal neoplasms. Congress of Neurological Surgeons, 51st Annual Meeting, San Diego, California, October 3, 2001.

Branch CL Jr. Lumbar interbody fusion: a personal 20-year journey. Georgia Neurosurgical Society, Fall Meeting, Atlanta, GA, November 17, 2001. (Honored Guest Speaker)

Branch, CL Jr. Innovative approaches to recurrent lumbar discs. Georgia Neurosurgical Society, Fall Meeting, Atlanta, GA, November 18, 2001. (Honored Guest Speaker)

Branch CL Jr., panelist. Controversies in Spine Surgery. American Academy of Neurological Surgeons/Congress of Neurological Surgeons Section on Disorders of the Spine and Peripheral Nerves, 2002, Orlando, FL, February 27, 2002.

Branch CL Jr., Director, Practical Clinic 012, "Modern Techniques and Future Trends in Lumbar Interbody Fusion". American Academy of Neurological Surgeons, 2002 Annual Meeting, Chicago, IL, April 6, 2002.

Alexander JT, Branch CL Jr. Recombinant human bone morphogenetic protein-2 in a posterior lumbar interbody fusion construct: 2-year clinical and radiologic outcomes. Congress of Neurological Surgeons, 52nd Annual Meeting, Philadelphia, PA, September 21-26, 2002 (open paper).

Alexander JA, Branch CL Jr. Recombinant human bone morphogenetic protein-2 in a posterior lumbar interbody fusion construct: 2-year clinical and radiological outcomes. North American Spine Society, 17th Annual Meeting, Montreal, Canada, October 30, 2002.

Branch CL Jr, moderator. Degenerative Spondylolisthesis: Controversies in Management. 2003 Annual Meeting American Association of Neurological Surgeons, 2003 Annual Meeting, San Diego, CA, April 26-May 1, 2003.

Branch CL Jr, speaker. Treatment Strategies for Degenerative Spondylosis. Neurological Society of Alabama Annual Meeting, Destin, FL, May 17-18, 2003.

Haid R, Branch CL, panelist. Minimally Invasive Spine Surgery. Neurosurgery Society of America, 2003 Annual Meeting, Sunriver Resort, OR, June 8-11, 2003.

Foley K, Branch CL Jr. Minimally Invasive Lumbar Fusion, and Fixation: 39 Cases with Minimum 12-Month Follow-Up. Neurosurgery Society of America, 2003 Annual Meeting, Sunriver Resort, OR, June 8-11, 2003.

Branch CL Jr. BMP in posterior applications. Section on Disorders of the Spine and Peripheral Nerves of the American Association of Neurological Surgeons and Congress of Neurological Surgeons, 20th Annual Meeting, San Diego, California, March 18, 2004.

Branch CL Jr. PLIF is best. Section on Disorders of the Spine and Peripheral Nerves of the American Association of Neurological Surgeons and Congress of Neurological Surgeons, 20th Annual Meeting, San Diego, California, March 20, 2004.

Branch CL Jr., Speaker, Practical Clinic 016, Modern Techniques and Future Trends in Lumbar Interbody Fusion. American Academy of Neurological Surgeons, 2004 Annual Meeting, Orlando, FL, May 1, 2004.

Branch CL Jr., Moderator, Scientific Session V. American Academy of Neurological Surgeons, 2004

Annual Meeting, Orlando, FL, May 3, 2004.

Branch CL Jr., Panelist, Seminar 314, Spondylolisthesis: Controversies in Management. American Academy of Neurological Surgeons, 2004 Annual Meeting, Orlando, FL, May 5, 2004.

Branch CL Jr., Moderator, Seminar 404, Lumbar spine case presentation. American Academy of Neurological Surgeons, 2004 Annual Meeting, Orlando, FL, May 6, 2004.

Branch CL Jr., Panelist, Bone Physiology and Spinal Prosthetics (*Biological Agents for Enhancing Fusion*). The Society of Neurological Surgeons, 95th Meeting, New Orleans, LA, May 25, 2004.

Barnes B, Alexander JT, Branch CL Jr., Couture D, Prospective study of hydrosorb implants for PLIF show late increase in pseudoarthrosis rate at 35 months mean follow-up. Section on Disorders of the Spine and Peripheral Nerves of the American Association of Neurological Surgeons and Congress of Neurological Surgeons, 21st Annual Meeting, Phoenix, AZ, March 10, 2005.

Branch CL Jr., Heary RF, Interbody vs. posterolateral fusion. Section on Disorders of the Spine and Peripheral Nerves of the American Association of Neurological Surgeons and Congress of Neurological Surgeons, 21st Annual Meeting, Phoenix, AZ, March 12, 2005.

Powers A, Branch CL Jr., Minimally invasive posterior Interbody fusion. North Carolina Spine Society Annual Meeting, Greensboro, NC, September 10, 2005.

Glassman S, Gornet MF, Branch CL Jr., Polly D Jr., Pelozza J, Schwender JD, Carreon L, SF-36 outcomes after lumbar spine fusion: a multi-center experience. North American Spine Society, 20th Annual Meeting, Philadelphia, PA, September 28, 2005.

Polly D Jr., Branch CL Jr., Burkus JK, Shaffrey C, Glassman S, Gornet MF, Mathews HH, Pelozza J, Schwender J, SF-36 PCS benefit/cost ratio of lumbar fusion: comparison to other surgical interventions. North American Spine Society, 20th Annual Meeting, Philadelphia, PA, September 29, 2005.

Benzel EC, Branch CL Jr., moderators, General session: motion preservation, North American Spine Society, 20th Annual Meeting, Philadelphia, PA, September 30, 2005.

Branch CL Jr., moderator, Outstanding paper award presentation, North American Spine Society, 20th Annual Meeting, Philadelphia, PA, September 30, 2005.

Branch CL Jr., The degenerative lumbar disc: management, mechanics, and confusion. Congress of Neurological Surgeons 55th Annual Meeting, Boston, MA, October 10, 2005.

Branch CL Jr., Lumbar Interbody fusion: the gold standard. Southern Neurological Society 2006 Annual Meeting, Southampton, Bermuda, March 4, 2006.

Branch CL Jr., panelist, The evolution of lumbar spine surgery anterior/posterior. Disorders of the Spine and Peripheral Nerves of the American Association of Neurological Surgeons and Congress of Neurological Surgeons, 22nd Annual Meeting, Lake Buena Vista, FL, March 16, 2005.

Branch CL Jr., Treatment of cervical radiculopathy with minimally invasive posterior foraminotomy. Neurosurgical Society of America, 59th Annual Meeting, Ojai, CA, June 4, 2006.

Branch CL Jr., moderator, General Session: Disc Arthroplasty. The North American Spine Society and The Japanese Spine Research Society Spine Across the Sea meeting, Maui, HI, July 24, 2006.

Branch CL Jr., Web-based Case Logs. The Society of Neurological Surgeons, 98th Meeting in the 87th Year, San Francisco, CA, May 8, 2007.

Powers AK, Wilson JA, Branch CL Jr., Optimal timing of surgery for traumatic central cord syndrome. Congress of Neurological Surgeons 2007 Annual Meeting, San Diego, CA, September 17, 2007.

Branch CL Jr., moderator, Surgical intervention for lumbar spine disease: what the literature supports. Congress of Neurological Surgeons 2007 Annual Meeting, San Diego, CA, September 18, 2007.

Branch CL Jr., expert discussion, Evidence based surgical therapies for patients with lumbar spondylolisthesis, Congress of Neurological Surgeons 2007 Annual Meeting, San Diego, CA, September 18, 2007.

Branch CL Jr, faculty, Spine and nerve oral board and recertification review, AANS/CNS Section on Disorders of the Spine, and Peripheral Nerves, 24th Annual Meeting, Orlando, FL, February 27, 2008.

Branch CL Jr, moderator, Clinical and socioeconomic implications of spinal surgery, AANS/CNS Section on Disorders of the Spine, and Peripheral Nerves, 24th Annual Meeting, Orlando, FL, February 29, 2008.

Branch CL Jr., co-director, Modern Techniques and Future Trends in Lumbar Interbody Fusion, AANS 2008 Annual Meeting, Chicago, IL, April 26, 2008.

Branch CL Jr., moderator, Spondylolisthesis: controversies in management, AANS 2008 Annual Meeting, Chicago, IL, April 28, 2008.

Branch CL Jr., discussant, Perioperative complications of multilevel thoracolumbar spinal fusions in elderly patients, AANS 2008 Annual Meeting, Chicago, IL, April 28, 2008.

Branch CL Jr., panelist, New and evolving technologies for minimally invasive surgery of the lumbar disc, AANS 2008 Annual Meeting, Chicago, IL, April 30, 2008.

Branch CL Jr., discussant, Recurrent Disc: Fuse or No Fusion, 25th Annual Meeting of AANS/CNS Section on Disorders of the Spine and Peripheral Nerves, Phoenix, AZ, March 14, 2009.

Branch CL Jr., moderator, Surgical intervention for lumbar spine: what the literature supports, Congress of Neurological Surgeons 2009 Annual Meeting, New Orleans, LA, October 27, 2009.

Branch CL Jr., moderator, Section on disorders of the spine and peripheral nerves: new development in the management of spinal trauma, Congress of Neurological Surgeons 2009 Annual Meeting, New Orleans, LA, October 28, 2009.

Branch CL Jr., moderator, Surgical intervention for lumbar spine: what the literature supports, Congress of Neurological Surgeons 2009 Annual Meeting, New Orleans, LA, October 27, 2009.

Branch CL Jr., Quality measures should be subsequently specific, and I suggest using a standardized clinical outcome metric system for spine surgery, Congress of Neurological Surgeons 2009 Annual Meeting, New Orleans, LA, October 28, 2009.

Branch CL Jr., Critical concepts in adult spine deformity surgery, North American Spine Society 24th Annual Meeting, San Francisco, CA, November 10, 2009.

Branch CL Jr., Presidential address: building bridges, North American Spine Society 24th Annual Meeting, San Francisco, CA, November 11, 2009.

Branch CL Jr., speaker, Teamwork: strategic partnerships with faculty, AAMC Group on Institutional Advancement Professional Development Conference, Tucson, AZ, April 9, 2010.

Branch CL Jr., faculty, Spinal stabilization, fusion, and instrumentations: biomechanics and techniques, AANS 2010 Annual Meeting, Philadelphia, PA, May 1, 2010.

Branch CL Jr., panelist, New and evolving technologies for minimally invasive surgery of the lumbar disc, AANS 2010 Annual Meeting, Philadelphia, PA, May 4, 2010.

Branch CL Jr., speaker, Accessing your Local Politicians, AANS 2010 Annual Meeting, Philadelphia, PA, May 4, 2010.

Branch CL Jr., panelist, Maintenance of certification: status and trends, AANS 2010 Annual Meeting, Philadelphia, PA, May 5, 2010.

Branch CL Jr., discussant, Long-term outcome after less invasive surgery for decompression of lumbar stenosis – a randomized comparison of unilateral laminotomy, bilateral laminotomy and laminectomy, AANS 2010 Annual Meeting, Philadelphia, PA, May 5, 2010.

Branch CL Jr., speaker, Back pain solutions: is surgery for you? Best Health Wake Forest University Baptist Medical Center, Winston Salem, NC, May 11, 2010.

Branch CL Jr., speaker, MIS fusion techniques: case studies and Q & A. Dubai 3rd Annual International Spine Masters, Dubai, UAE, May 23, 2010.

Branch CL Jr., moderator, MIS fixation. Dubai 3rd Annual International Spine Masters, Dubai, UAE, May 24, 2010.

Branch CL Jr., speaker, MIS fixation: mini open fixation approaches. Dubai 3rd Annual International Spine Masters, Dubai, UAE, May 24, 2010.

Branch CL Jr., speaker, Other MIS techniques and issues: MIS Plate Fixation. Dubai 3rd Annual International Spine Masters, Dubai, UAE, May 25, 2010.

Branch, CL Jr. The history of posterior lumbar interbody fusion: no clinical puzzle more interesting. North Carolina Spine Society 2011 Annual Meeting, Durham, NC August 26, 2011.

Branch, CL Jr, Mobasser, J-P. Transforaminal Lumbar Interbody Fusion (TLIF). [AANS Operative Grand Rounds Video Conference Archive](#), September 23, 2011.

Branch, CL Jr., keynote speaker, Neurosurgery, and the History of Lumbar Interbody Fusion: No Clinical Puzzle More Interesting. SCANS Meeting, Charleston, SC, Sep 16, 2011.

Branch, CL Jr., keynote speaker, Evidence Based Spine Surgery; The Good, the Bad, and the Ugly. SCANS Meeting, Charleston, SC, Sep 17, 2011.

Branch, CL Jr. moderator, Guidelines for Surgical Management: Lumbar Spine Surgery. CNS 2011 Annual Meeting, Washington, DC, October 4, 2011.

Branch, CL Jr., faculty, Cases, and complications with the masters: lumbar fusion: open is the best way. 28th Annual Meeting of AANS/CNS Section on Disorders of the Spine and Peripheral Nerves, Orlando, FL, March 7, 2012.

Branch, CL Jr., presenter, David Cahill Memorial Controversies I: in depth debates: black disc disease: is there a role for surgery? 28th Annual Meeting of AANS/CNS Section on Disorders of the Spine and Peripheral Nerves, Orlando, FL, March 8, 2012.

Guidelines for Diagnosis and Treatment of Degenerative Lumbar Spinal Stenosis. 2012 Annual Meeting of the Congress of Neurological Surgeons Chicago, Illinois, October 8, 2012.

Branch, CL Jr., faculty, Cases and Complications with the Masters: MIS Options in Lumbar Fusion MIS Options in Lumbar Fusion. 29th Annual Meeting of AANS/CNS Section on Disorders of the Spine and Peripheral Nerves, Phoenix, AZ, March 7, 2013.

Branch, CL Jr., moderator, Top Papers, and Socioeconomic Session. 29th Annual Meeting of AANS/CNS Section on Disorders of the Spine and Peripheral Nerves, Phoenix, AZ, March 8, 2013.

Branch, CL Jr., moderator, David Cahill MEMORIAL Controversies V: Treatment for Symptomatic Grade I L4–5 Degenerative Spondylolisthesis Posterior Approach 29th Annual Meeting of AANS/CNS Section on Disorders of the Spine and Peripheral Nerves, Phoenix, AZ, March 8, 2013.

Branch, CL Jr., discussant, Oral Platform Presentations III. 29th Annual Meeting of AANS/CNS Section on Disorders of the Spine and Peripheral Nerves, Phoenix, AZ, March 7, 2013.

Branch, CL Jr., moderator, Minimally Invasive Spinal Neurosurgery: Indications, Techniques And Complications, 81st Annual Meeting of American Association of Neurological Surgeons, New Orleans, LA, April 29, 2013

Branch, CL Jr., panelist, New and Evolving Technologies for Minimally Invasive Lumbar Disc Surgery. 81st Annual Meeting of American Association of Neurological Surgeons, New Orleans, LA, April 30, 2013.

Branch, CL Jr., invited speaker, Richard C. Schneider Lecture: Safe at Any Speed—Advancing the Culture of Safety in Spine Surgery. 81st Annual Meeting of American Association of Neurological Surgeons, New Orleans, LA, May 1, 2013.

Branch, CL Jr., invited speaker, Wilder Penfield Memorial Lecture: Dr. William Cone and Spinal Surgery in North America – An Unheralded Legacy of the Montreal Neurological Institute. Canadian Neurologic Sciences Federation Annual Meeting, Montreal, Canada, June 13, 2013.

Branch, CL Jr, faculty, MAST® MIDLF™ Launching Mexico, Medtronic Minimally Access Spinal Technology. Medtronic Academia Medical Education: Minimally Access Spinal Technology, Guadalajara, Mexico, Aug 19-20, 2013.

Branch, CL Jr., faculty, MAST® MIDLF™ + TLIF, Medtronic Minimally Access Spinal Technology. Medtronic Academia Medical Education: Minimally Access Spinal Technology, Sunnyvale, CA, Sep 7, 2013.

Branch, CL Jr., faculty, Medtronic Procedural Solutions for Degenerative Lumbar Spine Training Course, Miami, FL, January 23-24, 2014.

Branch, CL Jr., faculty, MAST® MIDLF™ Launching Argentina, Medtronic Minimal Access Spinal Technology. Medtronic Academia Medical Education: Minimally Access Spinal Technology, Buenos Aires, Argentina, March 19-20, 2014.

Branch CL Jr., moderator, Minimally Invasive Spinal Neurosurgery: Indications, Techniques and Complications, 82nd AANS Annual Scientific Meeting, San Francisco, CA, April 8, 2014.

Branch CL Jr., panelist, New and Evolving Technologies for Minimally Invasive Lumbar Disc Surgery, 82nd AANS Annual Scientific Meeting, San Francisco, CA, April 9, 2014.

Branch, CL Jr., invited speaker, PLIF Through a Midline Hybrid Minimally Invasive Approach, IV Cominco Congresso Brasileiro do Cirurgia e Técnicas Minimamente Invasivas da Coluna Vertebral, Sao Paulo, Brasil, August 1, 2014.

Branch, CL Jr., keynote speaker, Good Partners, Neurologic and Orthopedic Medical Device Technologies, Association of University Technology Managers Partnering Forum, Winston Salem, NC, September 24, 2014.

Branch, CL Jr., A Hybrid Minimally Invasive Posterior Interbody Fusion Technique, The Neurosurgical Atlas, AANS Operative Grand Rounds. <http://www.neurosurgicalatlas.com/grand-rounds/a-hybrid-minimally-invasive-posterior-interbody-fusion-technique>. Accessed Dec 14, 2014.

Branch, CL Jr., Sagittal Imbalance and Minimally Invasive Spine Surgery, The Neurosurgical Atlas, AANS Operative Grand Rounds. <http://www.neurosurgicalatlas.com/grand-rounds/sagittal-imbalance-and-minimally-invasive-spine-surgery>. Accessed Jan 14, 2015.

Branch, CL Jr., Course Director, Invention, and innovation in neurosurgery, 83rd AANS Annual Scientific Meeting, Washington, DC, May 2, 2015.

Branch, CL Jr., Speaker, Alternatives to transpedicular approaches to achieving arthrodesis, 83rd AANS Annual Scientific Meeting, Washington, DC, May 3, 2015.

Branch, CL Jr., Director, New and evolving technologies for minimally invasive lumbar disc surgery, 83rd AANS Annual Scientific Meeting, Washington, DC, May 4, 2015.

Branch, CL Jr., Seminar Director, Minimally invasive spinal neurosurgery: indications, techniques, and complications, 83rd AANS Annual Scientific Meeting, Washington, DC, May 5, 2015.

Branch, CL Jr., Speaker, Debate: MISS vs. Open for spinal deformity-Mild lumbar degenerative scoliosis with recurrent stenosis, The Definitive Meeting in MISS, Las Vegas, NV, Nov 6, 2015.

Benzel E, Branch CL Jr., Frankel B, Malhotra N, Ozturk A, Steinmetz M, Voyadzis J. Comprehensive Interventional Facial Pain Management, 84th AANS Annual Scientific Meeting, Chicago, IL, April 30, 2016.

Barker F, Benzel E, Bisson E, Boop F, Branch C Jr., Heilman C, Hurlbert R, Quinones-Hinojosa, Rao G, Scarrow A, Selden N, Tomei K. Leadership Development Course – Senior Resident, 84th AANS Annual Scientific Meeting, Chicago, IL, April 30, 2016.

Branch C Jr, Fessler R, Foley K, Hart D, Tumialan L. Minimally Invasive Spinal Neurosurgery: Indications, Techniques and Complications, 84th AANS Annual Scientific Meeting, Chicago, IL, May 2, 2016.

Branch C Jr. Sonntag Lecture The World is Not Flat - Neither Is Your Spine, 84th AANS Annual Scientific Meeting, Chicago, IL, May 2, 2016.

Branch Jr C, Chou D, Mobasser J, Park P, Wang M. New and Evolving Technologies for Minimally Invasive Lumbar Disc Surgery, 84th AANS Annual Scientific Meeting, Chicago, IL, May 3, 2016.

Benzel E, Branch Jr C, Frankel B, Malhotra N, Steinmetz M, Voyadzis. Alternatives to Transpedicular approaches to Achieving Arthrodesis, 2017 AANS Annual Scientific Meeting, Los Angeles, April 23, 2017.

Branch Jr C, Fessler R, Foley K, Hart D, Park P, Tumialan L. Minimally Invasive Spinal Surgery:

Indications, Techniques and Complications, 2017 AANS Annual Scientific Meeting, Los Angeles, April 25, 2017.

Branch Jr C, Fessler R, Mobasser J, Tumialan L, Wang M. New and Evolving Technologies for Minimally Invasive Lumbar Disc Surgery, 2017 AANS Annual Scientific Meeting, Los Angeles, April 26, 2017.

Kishida K, Branch CL Jr, Laxton A Dopamine, serotone, and norepinephrine micro-fluctuation during conscious choice and subjective experience in humans. The American Academy of Neurological Surgeons, 81st Annual Meeting, Rome Italy. September 18-21, 2019.

Branch Jr C, Systemic Disruption for panel discussion: Banking on our brains for the greatest ROI. Inside the BrainHealth Project. San Francisco, CA. October 21, 2019.

UT Austin Dell School of Medicine Neurosurgery – Recent Advances in Expandable Lumbar Fusion Cages October 2021

Northwell Health Zucker School of Medicine Neurosurgery – Expandable Lumbar Fusion Cages: Benefit or Boondoggle June 2022

Invited Lecture:

South East Europe Neurosurgery Society Mtg. Opatjia, Croatia Sept 2022 – Expandable Lumbar Fusion Cages: Benefit or Boondoggle

Atrium Health Neuroscience Grand Rounds Charlotte, NC June 2022 - Novel Technology Development with Expandable Lumbar Fusion Devices

POSTERS:

Branch CL Jr., Ball M, McWhorter JM. A method for estimation of subdural hematoma volume based upon computed tomographic appearance in cadavers. American Association of Neurological Surgeons Annual Meeting, Atlanta, Georgia, 1985.

Branch CL Jr., Laws ER. Sellar metastases masquerading as primary pituitary tumors. Congress of Neurological Surgeons Annual Meeting, Honolulu, Hawaii, September 1985.

Branch CL Jr., Kelly DL Jr., Alexander E Jr., Davis CH Jr., McWhorter JM, Holliday PO III. Methylmethacrylate and wire as a surgical stabilization technique for traumatic cervical spine fractures--a review of 163 cases. AANS and CNS, Joint Section on the Spine, Annual Meeting, Boca Raton, Florida, January 14-17, 1987.

Branch CL, Branch CL Jr. Treatment of failed back syndrome with posterior lumbar interbody fusion in comparison to other techniques. American Association of Neurological Surgeons Annual Meeting, Dallas, Texas, May 1987.

Branch CL Jr., Lee KS, McWhorter JM. Cadaveric dura as a vascular patch graft in the canine carotid artery model. Congress of Neurological Surgeons Annual Meeting, Baltimore, Maryland, October 1987.

Branch CL Jr. Neurologic improvement and quality of life after craniotomy for whole brain radiation therapy for metastatic brain tumors. American Association of Neurological Surgeons Annual Meeting, Washington, DC, April 1-6, 1989.

Lindley JC, Branch CL, Wheeler KT. Radiation protection with mediators of central nervous system injury. Congress of Neurological Surgeons Annual Meeting, Atlanta, Georgia, October 28-November 2, 1989.

Lindley JG, Angelo JN, Branch CL Jr., Kelly DL. Thoracic vertebral chordoma. AANS/CNS, Joint Section on Disorders of the Spine and Peripheral Nerves, Annual Meeting, Captiva Island, Florida, February 7-11, 1990.

Branch CL Jr., Lyerly MA. Spine-tract: a new retraction system for lateral approaches to the spine. American Association of Neurological Surgeons/Congress of Neurological Surgeons, Joint Section on Disorders of the Spine and Peripheral Nerves, Miami, Florida, February 5-9, 1992.

Wilson T Jr., Branch CL Jr. Incidental thoracic disc disease: a three-year MRI experience with consideration of mass effect as a surgical indication. American Association of Neurological Surgeons/Congress of Neurological Surgeons, Joint Section on Disorders of the Spine and Peripheral Nerves, Miami, Florida, February 5-9, 1992.

Rozzelle CJ, Wofford JL, Branch CL. Factors influencing outcome of subdural hematoma in an elderly inpatient population. The Eighth Annual Bowman Gray School of Medicine Medical Student Research Day. Bowman Gray School of Medicine, Winston-Salem, North Carolina, September 14, 1992.

Lyerly MA, Branch CL Jr. Vertebroctomy with posterior stabilization in the aged: Do benefits outweigh the risks? Joint Section on Disorders of the Spine and Peripheral Nerves, American Association of Neurological Surgeons/Congress of Neurological Surgeons, Tucson, Arizona, February 17-21, 1993.

Lyerly MA, Branch CL Jr. Methylmethacrylate and wire stabilization of upper cervical spine fracture/dislocations: a 30-year experience. Congress of Neurological Surgeons, 43rd Annual Meeting, Vancouver, British Columbia, Canada, October 2-7, 1993.

Robinson JC, Branch CL. Degenerative thoracic stenosis. Joint Section on Disorders of the Spine and Peripheral Nerves and the American Association of Neurological Surgeons 11th Annual Meeting, Phoenix, Arizona, February 14-18, 1995.

Wilson JA, McCutchen TM, Lyerly MA, Branch CL. Low morbidity and mortality for carotid endarterectomy done under regional anesthesia: a retrospective study of 716 cases. Congress of Neurological Surgeons, 45th Annual Meeting, San Francisco, California, October 16-18, 1995.

Coric D, Branch CL Jr., Wilson JA, Robinson JC. Arteriovenous fistula as a complication C1-C2 transarticular screw fixation: Case report and a review of the literature. Congress of Neurological Surgeons, 45th Annual Meeting, San Francisco, California, October 16-18, 1995.

Jenkins JD, Branch CL, Kelly DL. A comparison of anterior cervical instrumentation systems. Congress of Neurological Surgeons, 45th Annual Meeting, San Francisco, California, October 16-18, 1995.

Jenkins JD, Branch CL, Kelly DL. A comparison of anterior cervical instrumentation systems. North American Spine Society, 10th Annual Conference, Washington, DC, October 19, 1995.

Coric D, Branch CL Jr. Pedicle screw fixation of the thoracic and lumbar spine: safety and efficacy in 113 patients. North American Spine Society, 10th Annual Conference, Washington, DC, October 19, 1995.

Jenkins JD, Branch CL Jr., Coric D. A clinical comparison of one-versus two-screw anterior odontoid fixation in 37 patients. Joint Section on Disorders of the Spine and Peripheral Nerves of the American Association of Neurological Surgeons and Congress of Neurological Surgeons, 12th Annual Meeting, Lake Buena Vista, Florida, February 28-March 2, 1996.

Coric D, Branch CL Jr., Jenkins J. Anterior revision of failed anterior cervical fusion with allograft

interbody fusion and plating. Joint Section on Disorders of the Spine and Peripheral

Nerves of the American Association of Neurological Surgeons and Congress of Neurological Surgeons, 12th Annual Meeting, Lake Buena Vista, Florida, February 28-March 2, 1996.

Jenkins JD, Branch CL Jr., Coric D. A clinical comparison of one versus two screw odontoid fixation. Congress of Neurological Surgeons 46th Annual Meeting, Montreal, Canada, September 28-October 3, 1996.

Coric D, Branch CL Jr. Posterior lumbar interbody fusion (PLIF) as effective treatment for primary midline disc herniations. Congress of Neurological Surgeons, 46th Annual Meeting, Montreal, Canada, September 28-October 3, 1996.

Coric D, Branch CL Jr., Jenkins JD. Revision of anterior cervical pseudarthrosis with anterior allograft fusion and plating. Congress of Neurological Surgeons, 46th Annual Meeting, Montreal, Canada, September 28-October 3, 1996.

Branch CL Jr., Coric D. Anterior revision of failed anterior cervical fusion with allograft interbody fusion and plating. Neurosurgical Society of America Annual Meeting, Laguna Niguel, Virginia, May 4-8, 1996.

Branch CL Jr., Coric D. Surgical treatment of subaxial cervical and thoracic chordoma: report of two cases and review of the literature. Section on Disorders of the Spine and Peripheral Nerves of the American Association of Neurological Surgeons and Congress of Neurological Surgeons, 13th Annual Meeting, Newport Beach, California, February 19-22. 1997.

Branch CL, Coric D. Posterior lumbar interbody fusion (PLIF) as effective treatment for primary midline disc herniations. Section on Disorders of the Spine and Peripheral Nerves of the American Association of Neurological Surgeons and Congress of Neurological Surgeons, 13th Annual Meeting, Newport Beach, California, February 19-22. 1997.

Branch CL Jr., Coric D. Posterior lumbar interbody fusion (PLIF) as effective treatment for primary midline disc herniations. The North American Spine Society and The Japanese Spine Research Society Spine Across the Sea meeting in Kamuela, Hawaii, March 16-20, 1997.

Bowen SR, Wilson JA, Branch CL Jr. A review of 16 cases of thoracolumbar fractures treated with anterolateral decompression, fusion, and anterior locking plate stabilization. American Association of Neurological Surgeons, 65th Annual Meeting, Denver Colorado, April 12-17, 1997.

Coric D, Branch CL Jr. Surgical treatment of subaxial cervical and thoracic chordoma: report of two cases and review of the literature. American Association of Neurological Surgeons, 65th Annual Meeting, Denver, Colorado, April 12-17, 1997.

Coric D, Branch CL Jr., Jenkins JD. Post laminectomy spondylolisthesis treated with allograft PLIF and transpedicular screw fixation. North American Spine Society, 12th Annual Meeting, New York, New York, October 22-25, 1997.

Fehlings MG, Branch C, Geisler F, Haid R, Johnston WA, Kalfas I, Paramore C, Sonntag VKH, Taylor W, Traynelis V, Winking H. Clinical and radiological evaluation of the Codman anterior cervical plate: Interim one-year results of a prospective, multi-center study (abstract). Joint Section on Disorders of the Spine and Peripheral Nerves of the American Association of Neurological Surgeons and Congress of Neurological Surgeons, 14th Annual Meeting, Rancho Mirage, California, February 11-14, 1998.

Branch CL Jr. Lumbar microdiscectomy utilizing a unique retractor designed for use with a surgical endoscope. Joint Section on Disorders of the Spine and Peripheral Nerves of the American Association of Neurological Surgeons and Congress of Neurological Surgeons, 14th Annual Meeting, Rancho Mirage, California, February 11-14, 1998.

White BT, Branch CL. Early fusion failure with posterior lumbar threaded fusion cages in elderly osteopenic patients. Joint Section on Disorders of the Spine and Peripheral Nerves of the American Association of Neurological Surgeons and Congress of Neurological Surgeons, 14th Annual Meeting, Rancho Mirage, CA, February 11-14, 1998.

Coric D, Branch CL Jr. Post laminectomy spondylolisthesis treated with allograft posterior lumbar interbody fusion (PLIF) and transpedicular screw fixation. Joint Section on Disorders of the Spine and Peripheral Nerves of the American Association of Neurological Surgeons and Congress of Neurological Surgeons, 14th Annual Meeting, Rancho Mirage, California, February 11-14, 1998.

Coric D, Branch CL Jr., Watson N, Miller C. A prospective assessment of allograft fusions with single photon emission computed tomography (SPECT): preliminary results. Joint Section on Disorders of the Spine and Peripheral Nerves of the American Association of Neurological Surgeons and Congress of Neurological Surgeons, 14th Annual Meeting, Rancho Mirage, California, February 11-14, 1998.

White B, Wilson J, Branch C. Early fusion with posterior lumbar threaded fusion cages. North Carolina Spine Society Meeting, Winston-Salem, North Carolina, April 30-May 2, 1999.

Jones DS, Branch CL. Instrumented fusion in the management of post-laminectomy lumbar spinal stenosis. Joint Section on Disorders of the Spine and Peripheral Nerves of the American Association of Neurological Surgeons and Congress of Neurological Surgeons, 16th Annual Meeting, Indian Wells, CA, February 23-26, 2000.

Wray SD, White BT, Wilson JA, Branch CL Jr. Threaded fusion cages: A prospective study with one-year follow-up. Congress of Neurological Surgeons Annual Meeting, San Antonio, TX, September 23-28, 2000.

Wray SD, Scales JC, Opatowski MJ, Wilson JA, Branch CL Jr. Radiographic evaluation of segmental angulation following single-level posterior lumbar interbody fusion using pre-sized impacted allograft wedges. Congress of Neurological Surgeons, 51st Annual Meeting, San Diego, CA, September 29-October 4, 2001(poster).

Scales JC, Wray SD, Wilson JA, Alexander JT, Branch CL Jr. Radiographic fusion rates following posterior lumbar interbody fusion using pre-sized impacted allograft bone. Congress of Neurological Surgeons, 51st Annual Meeting, San Diego, CA, September 29-October 4, 2001(poster).

Branch CL Jr., Geibel PT. RhBMP-2 as a possible autograft replacement for PLIF procedures. Congress of Neurological Surgeons, 51st Annual Meeting, San Diego, CA, September 29-October 4, 2001(poster).

Tibbs RE, Alexander JT, Branch CL Jr. MacroPore™: A bioresorbable interbody fusion device early clinical experience with twelve-month follow-up. Congress of Neurological Surgeons, 52nd Annual Meeting, Philadelphia, PA, September 21-26, 2002 (poster).

Schuler T, Branch CL Jr, Gornet M, Foley, K. Radiographic measurement of lumbar lordosis: comparison of a new computerized technique with manual measurement. The North American Spine Society and The Japanese Spine Research society Spine Across the Sea meeting, Maui, HI, July 27-31, 2003(poster).

Eickman JP, Branch CL Jr. Maintenance of kyphosis correction in thoracic and lumbar burst fractures treated with short segment utilizing intermediate screws at the fractured level. 25th Annual Meeting of the AANS/CNS Section on Disorders of the Spine and Peripheral Nerves, Phoenix, AZ, March 11-14, 2009(poster).

Branch CL, Eickman J, Geibel P, Mayr M, Labiak J. Posterior lumbar Interbody fusion using recombinant human bone morphogenetic protein tyle 2 with polyetheretherketone cages. North American Spine Society 24th Annual Meeting, San Francisco, CA, November 11, 2009(poster).

Liu A, Sun D, Rodriguez A, Branch CL, Hsu W. Spine surgery in octogenarians. 83rd AANS Annual Scientific Meeting, Washington, DC May 2-6, 2015(poster).

Frenkel M, Countryman C, Mathes A, Branch, CL. Cortical Bone Trajectory Screws for Minimally Invasive Midline Fusion, 2017 CNS Annual Scientific Meeting, Boston, MA, October 9-10, 2017.

COMMUNITY ACTIVITIES AND SERVICE:

1990-present	Director, Medical Mission of South Fork Church of Christ Cap Haitian, Haiti Mabaruma, Guyana
1991-present	Carolina Bible Camp and Retreat Center Board of Directors Chairman, 1996-2001
1992	Clinical Advisory Board Home Health Professionals
1993	Board of Development Oklahoma Christian University of Science and Arts Executive Committee, 1995-1998
1994-2000	Advisory Board Carolina LifeCare
1995-present	Eastern European Mission Board of Directors
1995-2000	Board of Directors, Think First Foundation National Head and Spine Injury Prevention Program
1995-2001	Director, Wake Forest University Baptist Medical Center Think First Program Southeast Regional Chairman, Think First Foundation Fund Raising Program Manager, Spinal Cord Injury Prevention Program Regional Fund
1999	United Way Chairman, Leadership Circle, Wake Forest University Baptist Medical Center

Part II.

**WAKE FOREST UNIVERSITY SCHOOL OF MEDICINE
TEACHING PORTFOLIO**

RECURRENT TEACHING RESPONSIBILITIES - INTRAMURAL

- A. Medical students - Unit V - "Neurosurgical Trauma," lecture given to 3rd year medical students, 50 minutes, 5 times per year, at 7:00 a.m. in Room G-28, the Hanes Bldg., April 7, 1997; April 29, 1997, July 8, 1997, September 16, 1997.

"Standardized Patient Assessment," evaluator, November 2005, 2.2 hours.

"Standardized Patient Assessment," evaluator, 2013, 2 hours.

- B. Graduate Education

- C. Other Health Professional Students

- D. Continuing Medical Education

Neurology Grand Rounds - "Instrumented Fusion in the Treatment of Degenerative Lumbar Disc Disease," 1 hour lecture, 7:30- a.m.- 8:30 a.m., Room 1064, Hanes Building, May 1, 2001.

- E. Committees and Administration related to Medical Education

- F. Mentoring/Advising