

CURRICULUM VITAE

MARK N. HADLEY, MD, FACS

**Charles A. and Patsy W. Collat Endowed Professor of
Neurological Surgery**

**Department of Neurological Surgery
University of Alabama at Birmingham**

March 30, 2017

Mark N. Hadley, MD, FACS

Business Address: University of Alabama at Birmingham
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Home Address: 1792 Twin Bridge Drive
Birmingham, AL 35243
205-967-6678

Personal: Born February 14, 1956, San Francisco, CA
Wife: Lori Frances Hadley
Children: Christopher (28)
Jack (21)
Mollie (18)

Rank/Title:

- **Charles A. and Patsy W. Collat Endowed Professor, Department of Neurosurgery**
- **Professor, UAB Collat School of Business, MIDE program**

Hospital Appointments:

- University of Alabama at Birmingham Medical Center
- Veteran's Administration Hospital, Birmingham, AL
- Children's Hospital of Alabama

Military Experience:

- Major, United States Air Force, Active Duty July 1988 – June 1991
- Deployed, Gulf War, November 1990 – May 1991

EDUCATION:

Undergraduate: Stanford University, Stanford CA
August 1974 – June 1978
Bachelor of Arts in Economics

Graduate: Albany Medical College, Albany, NY
July 1978 – June 1982
Doctor of Medicine

Post-Graduate: University of California Davis Medical Center, Sacramento, CA
July 1982 – June 1983

General Surgery Internship

Post-Graduate: Barrow Neurological Institute
St. Joseph's Hospital and Medical Center, Phoenix, AZ
July 1983 – June 1988
Neurological Surgery Residency

Medical Licensure: California: G50404 (1982)
Arizona: 14786 (1983)
Alabama: 15626 (1991)

Specialty Board Certification: American Board of Neurological Surgery #92087
November 1992

Other: Fellow, American College of Surgeons
October 2000

PROFESSIONAL APPOINTMENTS:

Academic

Charles A. and Patsy W. Collat Endowed Professor of Neurological Surgery
Department of Neurosurgery, Department of Surgery
University of Alabama at Birmingham
2006 - present

Professor, Marketing and Industrial Distribution (MIDE) Program
UAB Collat School of Business
University of Alabama at Birmingham
February 2009 – present

Professor, Neurological Surgery
Division of Neurosurgery, Department of Surgery
University of Alabama at Birmingham
October 1997 to 2006

Director Neurological Surgery Residency Training Program
Division of Neurosurgery, Department of Surgery
University of Alabama at Birmingham
June 1, 2001 - present

Director Neurological Surgery Spine Fellowship Program
Division of Neurosurgery, Department of Surgery
University of Alabama at Birmingham
January 1995 – July 2009

Team Neurosurgeon
University of Alabama at Birmingham Athletic Program
January 1996 - present

Team Neurosurgeon
University of Alabama Football Program
January 1994 – December 1996

Associate Professor of Neurological Surgery
Division of Neurosurgery, Department of Surgery

University of Alabama at Birmingham
October 1, 1993 – September 1997

Director, Resident and Medical Student Education

Division of Neurosurgery, Department of Surgery
University of Alabama at Birmingham
September 1991 - January 1997

Medical Director

UAB, THINK FIRST, Head and Spinal Cord Injury Prevention Program Division of
Neurosurgery, Department of Surgery
University of Alabama at Birmingham
September 1991 – December 2002

Assistant Professor of Neurological Surgery

Division of Neurosurgery, Department of Surgery
University of Alabama at Birmingham
July 1, 1991 -September 1993

Assistant Director of Surgical Education

Department of Surgery, David Grant USAF Medical Center, Travis AFB, CA
January 1989 - June 1991

Chief of Neurological Surgery

David Grant USAF Medical Center, Travis AFB, CA
July 1988 - June 1991

Staff Neurosurgeon

North Bay Medical Center, Fairfield, CA
July 1988 - June 1991

HONORS:

- National Merit Scholarship, National Organization of Elks, 1974.
- National ranking in track and field, high school, 880 yd and mile runs.
- Athletic (Track) - Academic Scholarship to Stanford University, 1974-78
- Al Master's - Stanford University Scholastic - Athletic Award, 1978
- United States Air Force Health Professions Scholarship, 1979-1982.
- Mayfield Resident Spine Award - Joint (AANS/CNS) Section on Spinal Disorders: Congress of Neurological Surgeons Annual Meeting, New York City, October 1984
- Western Federation of Neurological Sciences Resident Prize: Western Federation Meeting, San Diego, CA, March 1987
- Rocky Mountain Neurosurgical Society Resident Prize: Rocky Mountain Neurosurgical Society Meeting, Deer Park, Utah, June 1987
- Dr. Leslie B. Smith Medal for distinguished educational achievement: Maricopa County Medical Society, Scottsdale, AZ, January 1988
- Department of the Air Force, Air Force Commendation Medal for Meritorious Service, August 1988 – July 1991.
- Alpha Omega Alpha Honor Society, Alumnus member, 2004
- Golden Key International Honour Society, 2007
- Charles A. and Patsy W. Collat Endowed Chair in Neurological Surgery, University of Alabama at Birmingham, 2006
- Director, American Board of Neurological Surgery, 2012 to present

- United States Congressional Recognition for Contribution to the Updated Guidelines for the Management of Acute Cervical Spine and Spinal Cord Injuries, September 27, 2013
- **Charles A. and Patsy W. Collat Friend of MIDE Award for Outstanding Teaching and Student Engagement, UAB Collat School of Business, Department of Marketing, Industrial Distribution and Economics, 2014**
- Inclusion in *America's Top Doctors 2001 - 2016*, by Castle Connolly, New York
- Top 1% in Specialty, Neurosurgery, US News and World Report 2011-2016.
- **W. Jerry Oakes Resident Teaching Award, Department of Neurosurgery, 2016.**

PROFESSIONAL MEMBERSHIPS:

- Aequanimitas Neurosurgical Society
- Alpha Omega Alpha Honor Society
- American Academy of Neurological Surgery
- American Association of Neurological Surgeons
- Society of Neurological Surgeons
- American Medical Association
- American College of Surgeons
- Congress of Neurological Surgeons
- AANS/CNS Section on Disorders of the Spine and Peripheral Nerves
- AANS/CNS Section on Trauma and Critical Care
- Golden Key International Honor Society
- Jefferson County Medical Society
- Medical Association of the State of Alabama
- Neurosurgical Society of Alabama
- Southern Neurosurgical Society

PROFESSIONAL SOCIETY PARTICIPATION:

American Board of Neurological Surgery

- Director, 2012-2018
- Chair, Primary (Written) Examination Committee, 2013-2015
- Chair, Professional Conduct Committee, 2015 – present

American Academy of Neurological Surgery

- Executive Committee (Ex-Officio), 2006 – 2014
- Executive Committee, 2014 - present
- Future Sites Committee Chair, 2006 – 2014
- Local Arrangements Chair, 2011, 2014
- President-Elect, 2014-15
- President, 2015-16

American Association of Neurological Surgeons

- JNS Publishing Task Force, 2010
- JNSPG Advisory Committee, 2010 – 2015
- JNSPG Advisory Committee Chair, 2015- present

Congress of Neurological Surgeons

- Sergeant at Arms Committee: 1986-88
- Host Committee: 1986, 1988, 1989 (co-chairman), 1992.
- Committee on Education
 - Subcommittee on Self-Assessment and Sponsorship: 1988 - 2000 (Chairman, 1993 – 1997)
 - Subcommittee on Research: 1988 – 1998

- General Scientific Committee: 1988 to 1992
- Public Relations Committee: 1989
- Videotape Library (Chairman): October 1989 to 1991
- Publications Committee: 1992 to 1999
- Annual Meeting Exhibits Chairman, 1994 – 2000
- Executive Committee, October 1, 1994 to 2004
- Scientific Program Chairman, Annual Meeting, 1996-1997
- Annual Meeting Chairman, Annual Meeting, 1997-1998
- Secretary, Congress of Neurological Surgeons, 1997 through 2000
- Vice President, Congress of Neurological Surgeons, 2000-2001
- President-Elect, Congress of Neurological Surgeons, 2001-2002
- President, Congress of Neurological Surgeons, 2002-2003
- Immediate Past President, Congress of Neurological Surgeons, 2003-2004
- Chairman, Professional Conduct Committee, 2003-2004
- Co-Chairman, PARC, 2010 – 2014
- Director, CNS Foundation, 2013 to 2015.
- *NEUROSURGERY* Publishing Task Force, 2015-2016
- *NEUROSURGERY* Advisory Committee, *Chair*, 2015-present

American College of Surgeons

- Advisory Council for Neurological Surgery, 2001 – 2006

AANS/CNS Section on Disorders of the Spine and Peripheral Nerves

- Spine and Spinal Cord Injury Guidelines Committee Chairman, 2000 –2002
- Executive Committee: 1989, 1992 – 1999
- Annual Meeting Exhibits Chairman: 1989-90, 1992-1995
- Awards Committee Chairman: 1993-1995
- Rules and Regulations Committee Chairman 1995-1998

National THINK FIRST Head and Spinal Cord Injury Prevention Program

- National Fundraising Chairperson, 1994-1995

Society of Neurological Surgeons

- Resident Curriculum/Matrix Task Force, 2006 to present
- Medical Student Education/Promotion Committee, 2014 - present

Southern Neurosurgical Society

- Exhibits Chairman: 1995 – 1997
- Executive Council: 1996 - 1998

UNIVERSITY ACTIVITIES:

University of Alabama at Birmingham

Program Director, Department of Neurological Surgery Residency Training Program, 2001 - present

Program Director, Division of Neurological Surgery Spinal Fellowship Training Program, 1995 – 2009

UAB Product and Technology Assessment Team (PTAT) 2009 - present

Medical Director, THINK FIRST, Head and Spinal Cord Injury Prevention Program 1991–2002

Curriculum Committee, First and Second Year Medical Student Education, UAB School of Medicine, 1992 - 1998

Director Neurosurgery Clinic, Kirklin Clinic, 1994 - 2004
Director Kirklin Clinic Rehabilitation Services, 1993 – 1996
Director UAB/HSF Orthotics Laboratory, 1994 – 1999
Clinical Practice Committee, 1994 – 1998
Faculty Council, 1995 – 1998

TEACHING RESPONSIBILITIES:

Director, Neurological Surgery Residency Training Program

Department of Neurosurgery, Department of Surgery, University of Alabama at Birmingham
June 1, 2001 – present

Provides monthly Program Director's teaching conference to neurosurgical residents, fellows, and rotating medical students.

Professor, UAB Collat School of Business

Medical Industrial Distribution Program and Economics Program, University Of Alabama at Birmingham, February 2009 – present

Director, Neurological Surgery Spine Fellowship Program

Division of Neurosurgery, Department of Surgery, University of Alabama at Birmingham
January 1995 - 2009

Faculty Instructor

Division of Neurosurgery Residency Training Program, University Of Alabama at Birmingham
July 1991 - present

Attending, UAB Resident's (Charity) Clinic

Neurosurgery Clinic Division of Neurosurgery, Kirklin Clinic, University of Alabama at Birmingham, July 1991 – 1999

Director, Resident and Medical Student Education

Division of Neurosurgery, Department of Surgery, University of Alabama at Birmingham
September 1991 -January 1997

Course Co-Director, Second Year Medical Student Neurosciences Course

University of Alabama at Birmingham School of Medicine, January 1993 - January 1997

Preceptor, Third Year Medical Student Neurology/Neurosciences Clerkship

September 1993 - 2003

Preceptor/Mentor, Masters of Science Candidate, Mohammad M. A. Hannoush

Department of Mechanical Engineering, Graduate School, University of Alabama at Birmingham, January 1995 - January 1997

Neurosurgery Post-Graduate Spine Fellows Trained:

David M. Pryputniewicz, MD	July 2008 – June 2009
Richard A. S. Reid, MD	July 2007 – June 2008
Ryan P. Jewell, MD	July 2006 – June 2007
Jeffrey J. Laurent, MD	July 2005 – June 2006
Richard A.S. Reid, MD	Jan 2005 – July 2005
Benjamin R. Cohen, MD	July 2004 – June 2005
Patrick R. Pritchard, MD	July 2003 – June 2004
David A. Vincent, MD	July 2002 – June 2003
Bassam A. Hadi, MD	July 2001 – June 2002
John A. Sandin, MD	July 2000 – June 2001

Charles A. Wolff, MD	July 1999 – June 2000
Michael P. B. Kilburn, MD	July 1998 – June 1999
Putnam Wolcott, MD	July 1997 – June 1998
Patrick S. Chan, MD	July 1996 – June 1997
Carl Laurysen, MD	July 1995 – June 1996

EDITORIAL BOARD ACTIVITY:

Editorial Board

- ***Journal of Neurosurgery: Spine*, 2008 – present**
 - Senior Editor: 2014-2016
 - JNS PG Finance Committee member 2010-present
- ***NEUROSURGERY*, January 1999 – present**
 - ***NEUROSURGERY Advisory Committee***
- *Spinal Surgery*, Journal of the Japanese Society of Spinal Surgery, 2004 – 2008
- *Perspectives in Neurological Surgery*. 1989 - 1992
- **Editor**, *Video Perspectives in Neurological Surgery*, CNS-QMP Videotape Neuroscience Journal, 1990 - 1996
- **Editor**, *Perspectives in Neurological Surgery*, 1993 - 1997
- **Editor**, *Self Assessment for Neurological Surgeons (SANS VI)*, American Association of Neurological Surgeons/Congress of Neurological Surgeons, 1993 – 1997

Ad-hoc Editorial Board Activity

Journals:

Spine
Nutrition
Neurosurgery Clinics of North America
Techniques in Neurosurgery

Research:

Whitaker Foundation
AMA Diagnostic and Therapeutic Technology Assessment Grants

Advisory Board Activity

MD-PI Scientific Advisory Board

VISITING PROFESSORSHIPS:

Hadley MN. The Surgical Treatment of Spinal Cord Pathology. Visiting Professor, Emory University, Atlanta, Georgia, April 7-11, 1989

Hadley MN. The Management of Vertebral Column Instability. Visiting Professor, State University of New York, Buffalo, NY, October 11-14, 1989

Hadley MN. The Experimental Results of Nimodipine in the Treatment of Focal Cerebral Ischemia. Visiting Professor, State University of New York, Buffalo, NY. October 11-14, 1989

Hadley MN. Maximization of a Neurosurgical Residency. Visiting Professor, State University of New York, Buffalo, NY, October 11-14, 1989

- Hadley MN. Management of patients with chronic pain of malignant origin. Visiting Professor, UCLA Medical Center, Los Angeles, CA, November 27, 1989
- Hadley MN. Traumatic Cervical Spine Injuries. Visiting Professor, UCLA Medical Center, Los Angeles, CA November 27, 1989
- Hadley MN. Current concepts in the treatment of cerebrovascular disease. Visiting Professor, Denver, Colorado, December 5, 1989
- Hadley MN. Advances in the Management of Cerebral Ischemia. Visiting Professor, UCLA Neurosurgery Grand Rounds, UCLA Medical Center, Los Angeles, CA, January 3, 1990
- Hadley MN. The Transoral Approach to Superior Cervical Spine Pathology. Visiting Professor, Allegheny General Hospital, Pittsburgh, PA, January 17, 1990
- Hadley MN. Spinal Stabilization and Fusion: Indications, Applications, Complications. Visiting Professor, University of Alberta Medical School. Calgary, Alberta, Canada, May 11-14, 1995
- Hadley MN. Perfusion Pressure and Spinal Cord Procedures; Optimizing Neurological Outcome. Visiting Professor, Washington University of St. Louis, St. Louis, MO, October 20-22, 1997
- Hadley MN. Lumbar Spinal Stenosis: Pathogenesis, Management and Surgical Treatment. Visiting Professor, Washington University of St. Louis, St. Louis, MO, October 20-22, 1997
- Hadley MN. Contemporary Treatment Paradigms for Patients with Spinal Disorders. Visiting Professor, Louisiana State University, Shreveport, LA, November 13-14, 1998
- Hadley MN. Contemporary Treatment Paradigms for Patients with Spinal Disorders. Visiting Professor, University of Virginia Medical Center, Charlottesville, VA, March 6-7, 1999
- Hadley MN. Progeny: The Development of Neurosurgical Trainees. John R. Green Honored Lectureship, Barrow Neurological Institute, Phoenix, AZ, February 9, 2000.
- Hadley MN. Acute Central Spinal Cord Injury Revisited: Contemporary Management Guidelines. Northwestern University Medical School, Department of Neurosurgery. Chicago, IL, April 6-7, 2001.
- Hadley MN. Blood Loss During Thoracolumbar Stabilization and Fusion. Management Considerations. Northwestern University Medical School, Department of Neurosurgery. Chicago, IL, April 6-7, 2001.
- Hadley MN. Acute Central Spinal Cord Injury Revisited. J. Jay Keegan Memorial Lectureship, University of Nebraska College of Medicine, Omaha, NE, May 18, 2001.
- Hadley MN. Guidelines for the Management of Cervical Spine and Spinal Cord Injuries. Cleveland Clinic, Cleveland, Ohio, May 16-18, 2002.
- Hadley MN. Medical Evidence-Based Guidelines on the Management of Acute Cervical Spine and Spinal Cord Injuries. University of Wisconsin, Madison, WI, June 20-22, 2002

- Hadley MN. Guidelines for the Management of Acute Cervical Spine and Spinal Cord Injuries. University of Colorado, Department of Neurosurgery, Denver, CO, November 15, 2002.
- Hadley MN. Intrathecal baclofen therapy for spasticity. 23rd Annual Meeting of the Japanese Congress of Neurological Surgeons, Osaka, Japan, May 16, 2003.
- Hadley MN. Perfusion pressure management in the perioperative treatment of spinal cord pathology. 23rd Annual Meeting, Japanese Congress of Neurological Surgeons, Osaka, Japan, May 16, 2003.
- Hadley MN. The far lateral approach to ventral thoracic spinal pathology. 17th Microsurgical Anatomy Seminar for Neurosurgery, Osaka, Japan. May 19, 2003.
- Hadley MN. Neurosurgery at a Professional Crossroads. Honored Guest of the Texas Association of Neurological Surgeons, 2004 Annual Meeting, Austin TX, May 14-15, 2004.
- Hadley MN. Medical Evidence-Based Guidelines on the Management of Acute Cervical Spine and Spinal Cord Trauma, University of Virginia, Charlottesville, VA, September 10, 2004
- Hadley MN. Neurosurgery at a Professional Crossroads. The 10th David D. Weaver Lecture, University of Virginia, Charlottesville, VA, September 11, 2004.
- Hadley MN. Medical evidence-based guidelines on the management of acute cervical spine and spinal cord injuries. University of Pittsburgh, Department of Neurosurgery, April 27, 2005.
- Hadley MN. The Far lateral approach to ventral thoracic spinal pathology. University of Pittsburgh, Department of Neurosurgery, April 27, 2005.
- Hadley MN. Guidelines for the performance of fusion procedures for degenerative disease of the lumbar spine. University of Vermont, Burlington VT, June 2005.
- Hadley MN. Medical evidence-based guidelines on the management of acute cervical spine and spinal cord injuries. West Virginia University School of Medicine, Department of Neurosurgery, Morgantown, WV, June 23, 2006.
- Hadley MN. Medical evidence-based guidelines on the management of acute cervical spine and spinal cord injuries. Cruzamora Visiting Professor, University of Miami Department of Neurosurgery, January 11-12, 2007.
- Hadley MN. Perfusion pressure in the perioperative management of spinal cord pathology. Cruzamora Visiting Professor, University of Miami Department of Neurosurgery, January 11-12, 2007.
- Hadley MN. Medical evidence-based guidelines on the management of acute cervical spine and spinal cord injuries. Cedars-Sinai Department of Neurosurgery, Los Angeles, CA, March 2007.
- Hadley MN. Perfusion pressure in the perioperative management of spinal cord pathology. Cedars-Sinai Department of Neurosurgery, Los Angeles, CA, March 2007.

Hadley MN. Medical evidence-based guidelines on the management of acute cervical spine and spinal cord injuries. Honored Guest, Rocky Mountain Neurosurgical Society Annual Meeting, Jackson Hole, WY, June 16-20, 2007.

Hadley MN. Perfusion pressure in the perioperative management of spinal cord pathology. Honored Guest, Rocky Mountain Neurosurgical Society Annual Meeting, Jackson Hole, WY, June 16-20, 2007.

Hadley MN. Medical Evidence-Based Guidelines and the Practice of Spinal Surgery. George T. Tindall Distinguished Professor, Department of Neurosurgery, Emory University, Atlanta, GA, July 21-22, 2011.

Hadley MN. Perfusion pressure in the perioperative management of spinal cord pathology. George T. Tindall Distinguished Professor, Department of Neurosurgery, Emory University, Atlanta, GA, July 21-22, 2011.

Hadley MN. Medical Evidence-Based Guidelines and the Practice of Spinal Surgery. Department of Neurosurgery, Case Western Reserve University, Cleveland, OH, February 7, 2012.

Hadley MN. Perfusion pressure in the perioperative management of spinal cord pathology. Case Western Reserve University, Cleveland, OH, February 8, 2012.

Hadley MN. Bronson Ray Lecture, Visiting Professor, Bone Healing, Fusion, and Bone Morphogenetic Proteins in Spinal Surgery. Weill Cornell Medical College, New York, NY, May 8, 2013.

Hadley MN. Bone Healing, Fusion, and Bone Morphogenetic Proteins in Spinal Surgery. Visiting Professor, Mayo Clinic, Rochester, MN, December 3-4, 2013.

Hadley MN. Perfusion Pressure Management in the Peri-operative Treatment of Spinal Cord Pathology. Visiting Professor, University of California San Francisco, May 29, 2014.

Hadley MN. Building an academic practice in spine surgery. 1st Annual Andrew T. Parsa Memorial Symposium. Columbia University Department of Neurosurgery, New York, NY. May 29, 2015.

Hadley MN. Perfusion Pressure Management in the Peri-operative Treatment of Spinal Cord Pathology. Visiting Professor, Department of Neurosurgery, NYU Langone Medical Center, New York, NY. June 6, 2014

Hadley MN. Perfusion Pressure Management in the Peri-operative Treatment of Spinal Cord Pathology . 7th Annual Heilbrun Lecture, University of Utah School of Medicine, Salt Lake City, UT, June 12, 2015.

GRANT SUPPORT / FUNDING

Since Arrival at UAB July 1991

Evaluation of the long-term effects of surgical management of spinal cord perfusion strategies using a porcine spinal cord injury model. Floyd C and Hadley MN. Department of Defense SC150126, \$2,166,941.00, 10/01/16 – 09/30/18.

A Multicenter, Randomized Controlled Trial of Cerebrospinal Fluid Drainage in Acute Spinal Cord Injury. Hadley MN and Theodore N (PI). Department of Defense SCIRP SC130237, \$1,653,933.77, 03/01/2013-02/28/2018.

Perfusion Assessment using Diffusion-Perfusion MRI (dp-MRI) Following Acute Spinal Cord Injury. Hadley MN and Patwardhan RV (PI), University of Alabama at Birmingham, Birmingham, AL. IRB Protocol #F000901001, \$10,000. 1/2001 – 12/2001.

Amantadine to Improve Neuro-recovery in TBI. Grant #H133G80025 (PI: Jay Meythaler). National Institute on Disability & Rehab Research. 1998 -2001, \$121,292

Prospective Assessment of Continuous Infusion of Intrathecal Baclofen for Spasticity due to Cerebral Disorders. Research Agreement/Contract with Medtronic, Inc., Goleta, GA. 1997 -1999, \$120,000.

A Study Evaluating the Effects of the Osteogenic Protein Device on Neurological Tissue in a Canine Laminectomy and Posterolateral Fusion Model. MN Hadley, PI, University of Alabama at Birmingham, Stryker Biotech Inc., Boston, MA. 1997 –1998, \$139,000.

Radiographic and Clinical Outcome of Posterior Thoracolumbar Fusions Supplemented with Synthes Universal Instrumentation. MN Hadley, PI, University of Alabama at Birmingham, Synthes Spine, Paoli, PA. 1997 –1999, \$5,170.

Prospective Assessment of Intrathecal Baclofen in the Treatment of Spastic Hypertonia due to Acquired Brain Injury. JM. Meythaler, MN Hadley, University of Alabama at Birmingham, Medtronic Inc., Goleta, CA. 1995 - 1997, \$60,000.

Alternatives in Pedicle Hook Design for Thoracic Spinal Fixation-Experimental and Finite Element Analysis. Masters Thesis project: Mohammad M.A. Hannoush. MN Hadley, PI, University of Alabama at Birmingham, Acromed Corp, Cleveland, OH. 1995 –1997, \$10,000.

Grant Support prior to arrival at UAB

Therapeutic Management of Cerebral Ischemia in Primates. MN Hadley, RF Spetzler (PI). Barrow Neurological Institute, Phoenix AZ. NIH Grant # RO1NS20481-01A3, \$900,000. 1985-1990

Induced Cardiac Arrest and Brain Ischemia. MN Hadley, D Rigamonti, RF Spetzler (PI), Barrow Neurological Institute, Phoenix, AZ. Arizona Disease Control Research Commission Grant, \$50,000. 1987- 1990

Identification of the Mechanisms of Traumatic Spinal Cord Injury. MN Hadley, VKH Sonntag (PI). Barrow Neurological Institute, Phoenix, AZ. Arizona Disease Control Research Commission Grant, \$25,000. June 1987 - May 1990

Comparative Peripheral Nerve Anastomoses: An analysis of microepineurial suture and CO₂ laser anastomotic techniques. MN Hadley, AG Shetter (PI). Barrow Neurological Institute, Phoenix, AZ. Arizona Disease Control Research Commission Grant, \$18,000. October 1986- June 1988

Participation in Multi-Center Clinical Trials

A Randomized, Stratified Double-blinded, Multi-center Study of the Efficacy and Safety of SYGEN R. (GMT) vs. Placebo Following Standard Methylprednisolone Therapy in the Treatment of Acute Spinal Cord Injury. MN Hadley (co-investigator) UAB, Fred H. Geisler, Columbia, MD (PI). FIDIA Pharmaceutical Corp., Washington, DC. Initiated October 1992 – June 1997.

Surgery for Spinal Cord Compression Due to Cancer. MN Hadley (co-investigator) UAB, Roy Patchell, Lexington, KY (PI). University of Kentucky Research Foundation, Lexington, KY. September 1992 - December 1996

The National Acute Spinal Cord Injury Study (NASCIS II). MN Hadley, VKH Sonntag (co-investigators), Barrow Neurological Institute, Phoenix, AZ. NIH-Yale University sponsored study. June 1985 - June 1988

Internally Supported Clinical and Laboratory Research

The Aggressive Medical Resuscitation of the Spinal Cord Injured Patient, Hadley MN, Vale FL, Jackson AB. University of Alabama at Birmingham, Birmingham, AL 1992 –1996

Intraoperative Ondansetron vs. Placebo in the Prevention of Postoperative Nausea and Vomiting. Hadley MN (PI), Bernhard S, Mazak D, Rosner MJ. University of Alabama at Birmingham, November 1995 - November 1996

Evaluation of Blood Loss and Replacement During Thoracolumbar Stabilization Procedures. Hadley MN (PI), University of Alabama at Birmingham, Birmingham, AL June 2000 – June 2004. IRB Protocol Number X000504003.

Effects of Calcium Antagonists on Intracranial Pressure, a Primate Model. Hadley MN, Spetzler RF. Barrow Neurological Institute, Phoenix, AZ. 12/85 – 4/86

Comparative Transoral Dural Closure Techniques via the Transoral Approach in a Canine Model. Hadley MN, Martin NA, Spetzler RF. Barrow Neurological Institute, Phoenix, AZ. 5/85 – 10/85

Total Parenteral Nutrition versus Enteral Nutrition in Patients with Acute Head Injury. Hadley MN, Harrington T, Schiller WR. Barrow Neurological Institute, Phoenix, AZ, 6/84-6/85.

FUNDING: PUBLIC EDUCATION / INJURY PREVENTION

THINK FIRST, Head and Spinal Cord Injury Prevention Program University of Alabama Injury Prevention and Public Education Program directed at High School and Middle School Students throughout Alabama. (295 General Assemblies, 110,000 students reached in 1999-2001). \$706,000 to date which included: Alabama DOT grants of \$220,000.00, Barber's Dairies \$40,000, Barry, Bullock and Cook \$32,000, Am South Bank grant of \$150,000, Junior League of Birmingham \$41,000, and Southern Company \$140,000.00.

The Program encompasses the THINK FIRST program for high, middle schools, THINK FIRST Prom Time, co-sport. by Prom time sober, THINK FIRST FOR KIDS, elementary school program, HELMET HEADS, co-sponsored by Barber's Dairies, SAFE KIDS, co-sponsored by Barry, Bullock and Cook, and BUCKLE-UP BABY, co-sponsored by the Junior League of Birmingham.

BIBLIOGRAPHY

Manuscripts published in refereed journals

1. Hadley MN, Carter LP. Sacral fracture with pseudomeningocele and CSF Fistula. Case report and review of the literature. *Neurosurgery* 16:843-846, 1985.
2. Hadley MN, Spetzler RF, Masferrer R, Martin NA, Carter LP. Occipital artery to extradural vertebral artery bypass procedure: Case report, *J Neurosurgery* 63:622-625, 1985.
3. Hadley MN, Browner C, Sonntag VKH. Axis fractures: A comprehensive review of management and treatment in 107 cases. (Mayfield Award paper) *Neurosurgery* 17:281-290, 1985.
4. Hadley MN, Graham TW, Dasplit CP, Spetzler RF. Otolaryngologic manifestations of posterior fossa arachnoid cysts. *Laryngoscope* 95:678-681, 1985.
5. Hadley MN, Shetter AG, Amos MR. Use of the Brown-Roberts-Wells stereotactic frame for functional neurosurgery. *Applied Neurophysiol* 48:61-68, 1985.
6. Shetter AG, Hadley MN, Wilkinson E. Administration of intraspinal morphine sulfate in the treatment of intractable cancer pain. *Neurosurgery* 18(6):740-747, 1986.
7. Hadley MN, Sonntag, VKH, Pittman HW. Suprascapular nerve entrapment. A report of seven cases. *J Neurosurg* 64:843-848, 1986.
8. Hadley MN, Sonntag VKH, Graham TW, Masferrer R, Browner C. Axis fractures from motor vehicle accidents. The need for occupant restraints. *Spine* 11(9):861-864, 1986.
9. Blazier CJ, Hadley MN, Spetzler RF. The transoral surgical approach to craniovertebral pathology. A case report with discussion. *J Neurosci Nurs* 18(2):57-62, 1986.
10. Martin NA, Hadley MN, Spetzler RF, Carter LP. Management of asymptomatic carotid atherosclerosis. *Neurosurgery* 18(4):505-513, 1986.
11. Hadley MN, Harrington T, Schiller WR, Thompson RA, Wilkinson E, Raudzens PA.. Nutritional support and neurotrauma: A critical review of early nutrition in 45 acute head injury patients. *Neurosurgery*, 19(3):367-373, 1986.
12. Spetzler RF, Martin NA, Hadley MN. Microsurgical endarterectomy under barbiturate protection: a prospective study. *J Neurosurg* 65:63-73, 1986.
13. Hadley MN, Shetter AG. Intrathecal opiate administration for analgesia. *Contemp Neurosurg*, (19):1-5, 1986.
14. Spetzler RF, Hadley MN, Martin NA, Hopkins LN, Carter LP, Budney J. Vertebrobasilar insufficiency. Part I: Micro-surgical treatment of extracranial vertebrobasilar disease: *J Neurosurg*, 66(5):648-661, 1987.
15. Hopkins LN, Martin NA, Hadley MH, Spetzler RF, Budney J, Carter LP. Vertebrobasilar insufficiency. Part II: Microsurgical treatment of intracranial disease. *J Neurosurg*, 66(5):662-674, 1987.

16. Hadley MN, Spetzler RF, Fifield MS, Bichard WD, Hodak JA. The effect of nimodipine on intracranial pressure: Volume-pressure studies in a primate model. *J Neurosurg*, 66:387-393, 1987.
17. Hadley MN, Martin NA, Spetzler RF, Johnson PC. Multiple intracranial aneurysms due to Coccidioides Immitis. *J Neurosurg*, 66(3):453-456, 1987.
18. Hadley MH, Sonntag VKH. Acute axis fractures. Diagnosis and treatment. *Contemp Neurosurg*, 9(2):1-6, 1987.
19. Browner CM, Hadley MN, Sonntag VKH, Mattingly LG. Halo immobilization brace care: An innovative approach. *J Neurosci Nurs*, 19:24-30, 1987.
20. Hadley MN, Spetzler RF. Contemporary application of the extracranial bypass for cerebral revascularization. *Contemp Neurosurg* 9(25): 1-6, 1987.
21. Rigamonti D, Drayer BP, Johnson PC, Hadley MN, Zabramski J, Spetzler RF. The MRI appearance of cavernous malformations (angioma). *J Neurosurg*, 67:518-524, 1987.
22. Hadley MN, Browner CM, Liu SS, Sonntag VKH. A new subtype of acute odontoid fractures (Type II A). *Neurosurgery* 22(1) Part I:67-71,1988.
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PAPERS PRESENTED AT MEETINGS

1. Hadley MN, Shetter AG, Wilkinson E. The administration of epidural or intrathecal morphine as treatment for intractable pain due to carcinoma Presented at Rocky Mountain Neurosurgical Society Meeting, Colorado Springs, Colorado, June 10-14, 1984.
2. Spetzler RF, Hadley MN. Management of posterior fossa ischemia. Presented at Rocky Mountain Neurosurgical Society Meeting, Colorado Springs, Colorado, June 10-14, 1984.
3. Spetzler RF, Hadley MN. Neurosurgical treatment of vertebrobasilar insufficiency. Presented at Western Neurosurgical Society Meeting, Colorado Springs, Colorado, September 9-12, 1984.
4. Hadley MN, Browner CM, Sonntag VKH. Axis fractures. A review of management and treatment in 107 cases. Mayfield Resident Spine Award Presentation. Congress of Neurological Surgeons Meeting. New York, New York, October 1-5, 1984.
5. Carter LP, Hadley MN, Spetzler RF. Regional cortical blood flow in EC-IC bypass. Presented at Seventh International Symposium on Microsurgical Anastomoses for Cerebral Ischemia, Phoenix, Arizona, October 14-17, 1984.
6. Spetzler RF, Hadley MN, Masferrer R, Zabramski J. Management of vertebrobasilar insufficiency. Presented at Seventh International Symposium on Microsurgical Anastomoses for Cerebral Ischemia, Phoenix, Arizona, October 14-17, 1984.
7. Hadley MN, Browner CM, Sonntag VKH. Axis fractures. A review of management and treatment in 107 cases. Presented at Cervical Spine Research Society Meeting. New Orleans, Louisiana, December 5-10, 1984.
8. Hadley MN, Graham TG, Daspit PC, Spetzler RF. Otolaryngologic manifestations of posterior fossa arachnoid cysts. Presented at the Western Section Otolaryngologic Society Meeting. Santa Barbara, California, January 5, 1985.
9. Hadley MN, Browner CM, Sonntag VKH. A review of management and treatment in 107 cases. Presented at the Joint Section of Spinal Disorders Meeting. Orlando, Florida, February 6-9, 1985.
10. Hadley MN, Spetzler RF. The transoral approach to the craniovertebral junction. Presented at the Joint Section of Spinal Disorders Meeting. Orlando, Florida, February 6-9, 1985.

11. Hadley MN, Browner CM, Sonntag VKH. Axis fractures. A comprehensive review of management and treatment in 107 cases. American Association of Neurological Surgeons and Congress of Neurological Surgeons First Meeting of the Joint Section on Spinal Disorders, February 8, 1985.
12. Hadley MN, Spetzler RF. The transoral approach to the craniocervical junction. Presented at the International Symposium on Surgery in and Around the Brainstem and the Third Ventricle. Hanover, Germany, February 18-20, 1985.
13. Spetzler RF, Hadley MN. Revascularization of the brainstem and posterior fossa. Presented at the International Symposium on Surgery in and Around the Brainstem and the Third Ventricle. Hanover, Germany, February 18-20, 1985.
14. Spetzler RF, Hadley MN. Neurosurgical management of posterior fossa ischemia Presented at the Southern Neurosurgical Society Meeting, Phoenix, Arizona, March 1985.
15. Hadley MN, Browner CM, Sonntag, VKH. Axis fractures. Society of Neurological Surgeons Meeting, Phoenix, Arizona, May 5-8, 1985.
16. Sonntag VKH, Hadley MN. Suprascapular nerve palsy. The Society of Neurological Surgeons, 76th Annual Meeting in its 65th year, Phoenix, Arizona May 16, 1985.
17. Hadley MN, Browner CM, Sonntag VKH. Axis fracture. A comprehensive review of management and treatment in 107 cases. The First International Summer Conference, Mombassa, Kenya, Africa, June 18, 1985.
18. Sonntag VKH, Hadley MN. Suprascapular nerve entrapment: A report of seven cases. The First International Neurosurgical Summer Conference. Mombassa, Kenya, Africa, June 20, 1985.
19. Hadley MN, Browner CM, Sonntag VKH. Thoracolumbar junction fractures. Management and treatment of 110 cases. Congress of Neurological Surgeons Meeting, Honolulu, Hawaii, October 1-4, 1985.
20. Zabramski JM, Hadley MN, Browner CM, Rekate H, Sonntag VKH. Pediatric spinal cord and vertebral column injuries. American Association of Neurological surgeons, Section of Pediatric Neurological Surgeons, 14th Annual Meeting, Houston, Texas, December 4-6, 1985.
21. Zabramski JM, Hadley MN, Sonntag VKH. Pediatric spinal cord and vertebral column injuries. Pediatric Section of AANS Meeting, December 6, 1985.
22. Hadley MN, Browner CM, Sonntag VKH. Thoracolumbar junction fractures. Richard Lende Winter Neurosurgical Conference, Snowbird, Utah, February 1-5, 1986.
23. Hadley MN. The Neurological examination of the spinal cord injury patient. The Third Symposium on Emergency Care of the Acute Spinal Cord Injured. Phoenix, Arizona, February 6, 1986.
24. Hadley MN, Zabramski JM, Sonntag VKH, Rekate H. Pediatric spine trauma A review of 100 cases. AANS/CNS Joint Section on Spinal Disorders Meeting, San Diego, California, February 19-22, 1986.

25. Hadley MN, Sonntag VKH, Amos RA, Hodak JA. Three dimensional computerized tomography in the diagnosis of vertebral column pathology. AANS/CNS Joint Section on Spinal Disorders Meeting, San Diego, California, February 19-22, 1986.
26. Zabramski JM, Hadley MN, Sonntag VKH. Spinal cord injury without evidence of radiologic AANS/CNS Joint Section on Spinal Disorders Meeting, San Diego, California, February 19-22, 1986.
27. Zabramski JM, Hadley MN, Sonntag VKH. Cranial-spinal trauma in all-terrain vehicle accidents. AANS/CNS Joint Section on Spinal Disorders Meeting, San Diego, California, February 19-22, 1986.
28. Hadley MN, Martin NA, Spetzler RF. The transoral approach to the brainstem, clinical and experimental considerations. The Research Society of Neurological Surgeons Meeting, Phoenix, Arizona, March 2-5, 1986.
29. Sonntag VKH, Hadley MN. Axis fractures: A comprehensive review of management and treatment. Trends in Neurosurgery, Symposium, Vienna, Austria, May 17, 1986.
30. Sonntag VKH, Hadley MN. Early management of cervical spine injuries. Trends in Neurosurgery, Symposium, Vienna, Austria, May 17, 1986.
31. Sonntag VKH, Hadley MN. Neurosurgical management of thoracolumbar junction fractures. Trends in Neurosurgery, Symposium, May 17, 1986.
32. Sonntag VKH, Hadley MN. Non-operative management of cervical spine injuries. Congress of Neurological Surgeons Meeting, New Orleans, Louisiana, September 14-19, 1986.
33. Hadley MN, Martin MA, Spetzler RF, Johnson PC, Sonntag VKH. Comparative transoral dorsal closure techniques. Congress of Neurological Surgeons Meeting, New Orleans, Louisiana, September 14-19, 1986.
34. Hadley MN, Liu SS, Browner CM, Sonntag VKH. A surgical subtype of odontoid type II fractures. (Type IIA). Congress of Neurological Surgeons Meeting, New Orleans, Louisiana, September 14-19, 1986.
35. Zabramski JM, Hadley MN, Sonntag VKH, Rekate HL. The syndrome of spinal cord injury without evidence of radiographic abnormality. Congress of Neurological Surgeons Meeting, New Orleans, Louisiana, September 14-19, 1986.
36. Hadley MN, Zabramski JM, Sonntag VKH, Rekate HL. Pediatric spinal trauma. AANS Pediatric Section Meeting, Pittsburgh, Pennsylvania, December 5, 1986.
37. Sonntag VKH, Hadley MN. Medical management of acute spinal cord injuries. AANS/CNS Joint Section on Spinal Disorders Meeting, Boca Raton, Florida, January 13-17, 1987.
38. Hadley MN, Dickman CA, Browner CM, Sonntag VKH. The management of acute traumatic atlas fractures. AANS/CNS Joint Section on Spinal Disorders Meeting, Boca Raton, Florida, January 13-17, 1987.

39. Hadley MN, Spetzler RF, Fifield MS, Bichard WD, Hodak JA. The effect of nimodipine on intracranial pressure: Volume-pressure studies in a primate model. Richard Lende Winter Neurosurgery Conference, Snowbird, Utah, January 31-February 7, 1987.
40. Hadley MN, Spetzler RF, Martin NA, Fifield MS, Bichard WD, McCormick JM, Sonntag VKH, Johnson PC. Comparative transoral aural closure techniques: A canine model. Richard Lende Winter Neurosurgery Conference, Snowbird, Utah, January 31-February 7, 1987.
41. Shetter AG, Hadley MN. Trigeminal Neuralgia. Richard Lende Winter Neurosurgery Conference, Snowbird, Utah, January 31-February 7, 1987.
42. Hadley MN, Spetzler RF, Fifield MS, Bichard WD, Hodak JA. The effect of nimodipine on intracranial pressure: Volume-pressure studies in a primate model. Federation of Western Societies of Neurological Science, San Diego, California, March 29-April 1, 1987.
43. Hadley MN, Spetzler RF, Martin NA, Fifield MS, Bichard WD, McCormick JM, Sonntag VKH, Johnson PC. Comparative transoral aural closure techniques: A canine model. Federation of Western Societies of Neurological Science, San Diego, California, March 29-April 1, 1987.
44. Hadley MN, Spetzler RF, Fifield MS, Bichard WD, Hodak JA. The effect of nimodipine on intracranial pressure: Volume-pressure studies in a primate model. Rocky Mountain Neurosurgical Society Meeting, Deer Valley, Utah, June 20-25, 1987.
45. Hadley MN, Spetzler EF, Martin NA, Fifield MS, Bichard WD, McCormick JM, Sonntag VKH, Johnson PC. Comparative transoral aural closure techniques: A canine model. Rocky Mountain Neurosurgical Society Meeting, Deer Valley, Utah, June 20-25, 1987.
46. Hadley MN, Dickman CA, Browner CM, Sonntag VKH. The management of acute traumatic atlas fractures. Rocky Mountain Neurosurgical Society Meeting, Deer Valley, Utah, June 20-25, 1987.
47. Dickman CA, Hadley MN, Sonntag VKH. Treatment of combination C1-C2 fractures. Congress of Neurological Surgeons Meeting. Baltimore, MD, October 24-29, 1987.
48. Spetzler RF, Hadley MN, Sonntag VKH. The transoral approach to extradural pathology at the cervicomedullary junction. Congress of Neurological Surgeons Meeting. Baltimore, MD, October 24-29, 1987.
49. Hadley MN, Beggs J, Shetter AG. Comparative rat sciatic nerve anastomoses. Congress of Neurological Surgeons Meeting. Baltimore, MD, October 24-29, 1987.
50. Hadley MN, Sonntag VKH, Rekate HL. The infant whiplash shake injury syndrome: A clinical and pathological study. Pediatric Section American Association of Neurological Surgeons. Chicago, IL, December 8-11, 1987.
51. Hadley MN, Sonntag VKH, Pittman HW. Suprascapular nerve entrapment: A summary of nine cases. Joint Section on Disorders of the Spine and Peripheral Nerves of the American Association of Neurological Surgeons and Congress of Neurological Surgeons. Phoenix, Arizona, February 16-20, 1988.

52. Hadley MN, Spetzler EF, Zabramski JM. Efficacy of IV nimodipine in the treatment of focal cerebral ischemia in a primate model. Workshop: Pre-clinical Studies with Nimodipine. Rye Brook, NY, March 7-9, 1988.
53. Hadley MN, Spetzler RF, Zabramski JM. Efficacy of IV nimodipine in the treatment of focal cerebral ischemia in a primate model. Presented at Rocky Neurosurgical Society Meeting, Lake Tahoe, Nevada, June 1988.
54. Hadley MN, Dickman CA, Sonntag VKH. Acute axis fractures. A review of 229 cases. Congress of Neurological Surgeons Meeting, Seattle, Washington, September 24-29, 1988.
55. Hadley MN. New Perspectives in management of CSF fistulas. Congress of Neurological Surgeons Meeting, Seattle, Washington, September 24-25, 1988.
56. Hadley MN. Management of disc space infections. Congress of Neurological Surgeons Meeting, Seattle, Washington, September 24-25, 1988.
57. Hadley MN. Imaging of the spine. Is myelography obsolete? Congress of Neurological Surgeons Meeting, Seattle, Washington, September 24-25, 1988.
58. Hadley MN. Cerebral Ischemia and Revascularization. DGMC/Tahoe Medical Symposium, Lake Tahoe, California. January 29, 1989.
59. Hadley MN. Contemporary Imaging of the Spine. A comparison of myelography, CT and MRI. Richard Lende Winter Neurosurgery Conference, Snowbird, Utah, February 3-10, 1989.
60. Hadley MN. Pediatric Spinal Trauma. AANS-CNS Spine Section Meeting, Cancun, Mexico, February 10-15, 1989.
61. Hadley MN. Hemodynamic Monitoring in the Neurosurgical Intensive Care Unit. AANS Annual Meeting, Washington DC, April 2-7, 1989.
62. Hadley MN. The Surgical Treatment of Vertebral Column and Spinal Cord Pathology. Visiting Professor, Emory University, Atlanta, Georgia, April 7-11, 1989.
63. Hadley MN. The Experimental Results of Nimodipine in the Treatment of Focal Cerebral Ischemia. Fourth International Symposium on Calcium Antagonists. Florence, Italy, May 25-27, 1989.
64. Hadley MN. The Management and Treatment of Back Pain of Neurogenic Origin. Invited speaker, Edwards AFB Hospital, Edwards AFB, California, May 3-6, 1989.
65. Hadley MN. The Surgical Treatment of Vertebral Column and Spinal Cord Pathology. Visiting Professor, State University of New York Buffalo, NY, October 11-14, 1989.
66. Hadley MN. The Experimental Results of Nimodipine in the Treatment of Focal Cerebral Ischemia. Visiting Professor, State University of New York Buffalo, NY. October 11-14, 1989.
67. Hadley MN. Maximization of a Neurosurgical Residency. Visiting Professor, State University of New York Buffalo, NY, October 11-14, 1989.

68. Hadley MN. The Transoral Approach. Surgical Pathology and Operative Techniques. CNS Annual Meeting, Atlanta, GA, October 27-November 2, 1989.
69. Hadley MN. Hemodynamic Monitoring in Neurosurgical Intensive Care Unit Patients. CNS Annual Meeting, Atlanta, GA, October 27-November 2, 1989.
70. Hadley MN. The Halo Immobilization Device: Merits, Applications and Drawbacks. CNS Annual Meeting, Atlanta, GA, October 27-November 2, 1989.
71. Hadley MN. The Contemporary Management of Patients with Aneurysmal Subarachnoid Hemorrhage. Visiting Professor, Veterans Administration Medical Center, Martinez, CA, November 8, 1989.
72. Hadley MN. Recent Advances in the Management of Subarachnoid Hemorrhage. Southern California Neurosurgical Society Meeting, Los Angeles, CA, November 15, 1989.
73. Hadley MN. Management of patients with chronic pain of malignant origin. Visiting Professor, UCLA Medical Center, Los Angeles, CA, November 27, 1989.
74. Hadley MN. Traumatic Cervical Spine Injuries. Visiting Professor, UCLA Medical Center, Los Angeles, CA November 27, 1989.
75. Hadley MN. Current concepts in the treatment of cerebrovascular disease. Visiting Professor, Denver, Colorado, December 5, 1989.
76. Hadley MN. Advances in the Management of Cerebral Ischemia Visiting Professor, UCLA Neurosurgery Grand Rounds, UCLA Medical Center, Los Angeles, CA, January 3, 1990.
77. Hadley MN. The Transoral Approach to Superior Cervical Spine Pathology. Visiting Professor, Allegheny General Hospital, Pittsburgh, PA, January 17, 1990.
78. Hadley MN. Neurosurgical Emergencies. David Grant USAF Medical Center Tahoe Symposium, Lake Tahoe, CA, January 28, 1990.
79. Hadley MN. Intraspinal Morphine or the Treatment of Chronic Pain of Malignant Origin. Infusaid Inc. Annual Meeting, Ft Lauderdale FL, January 29, 1990.
80. Hadley MN. The Transoral Approach: Pathology and operative techniques. Visiting Professor, UC Davis Medical Center, Sacramento, CA, March 23, 1990.
81. Hadley MN. Access to the inferior clivus and superior cervical spine via the transoral operative approach. Air Force Clinical Surgeons Meeting, Washington DC, April 4, 1990.
82. Ow RK, Hadley MN. Management of metastatic gliosarcoma to the cervical spine. (Resident Award Paper), Air Force Clinical Surgeons Meeting, Washington DC, April 4, 1990.
83. Desvigne L, Hadley MN. Contemporary application of EC-IC revascularization procedures. Air Force Clinical Surgeons Meeting, Washington DC, April 4, 1990.

84. Hadley MN. Experimental Models of Focal Ischemia. Second Annual Symposium on Nimodipine. Miami Beach FL, April 26, 1990.
85. Hadley MN. Management of Atlantoaxial Injuries. Congress of Neurological Surgeons Meeting, Nashville, TN, April 30, 1990.
86. Hadley MN. The Transoral Approach to the Superior Cervical Spine. Visiting Professor. University of Alabama at Birmingham, June 14, 1990.
87. Hadley MN. Separation of Sensory, Motor and Reflex Modalities Following Microdissectomy. 1990 Travel Club Meeting, Bermuda, July 25, 1990.
88. Hadley MN. Experimental Results of Cerebral Ischemia with Nimodipine. International Symposium on Cerebral Ischemia, Mexico City, Mexico August 9-10, 1990.
89. Hadley MN. Contemporary Management of Patients with SAH. International Symposium on Cerebral Ischemia. Mexico City, Mexico August 9-10, 1990.
90. Hadley MN. Maximization of a Neurosurgical Residency. Visiting Professor, Univ. of Alabama at Birmingham, September 14, 1990.
91. Hadley MN. Management of Cervical Spondylosis. Congress of Neurological Surgeons Annual Meeting, Los Angeles, CA. October 21-25, 1990.

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92. Hadley MN. In Situ Split-thickness Autogenic Cranial Bone Grafting. 1991 Aequanimitas Travel Club Meeting, Adirondack Mountains, NY. July 28, 1991.
93. Hadley MN. Video Imaging in Neurological Surgery. Congress of Neurological Surgeons Annual Meeting, Orlando, FL. October 30, 1991.
94. Hadley MN. Techniques of Cervical Spinal Instrumentation. The 8th Annual Meeting of the Joint Section of the Spine and Peripheral Nerves. Miami, FL. February 5-9, 1992.
95. Hadley MN. Hemodynamic Monitoring: Critical Care Course on Use of The Swan Ganz Catheter. The American Association of Neurological Surgeons 60th Annual Meeting. San Francisco, CA, April 12, 1992.
96. Hadley MN. Rheumatoid Disease of the Cervical Spine. The American Association of Neurological Surgeons 60th Annual Meeting. San Francisco, CA, April 15, 1992.
97. Hadley MN. Instrumentation and Stabilization of the Cervical Spine. Southern Neurosurgical Society Annual Meeting. Washington, D.C., April 4, 1992.
98. Hadley MN. The Management of Spinal Instability. Alabama Neurosurg. Soc. Annual Meeting. Perdido, AL. May 15-18, 1992.
99. Hadley MN. The Pathophysiology of Rheumatoid Arthritis of the Spine. Alabama Neurosurg. Soc. Annual Meeting. Perdido, AL. May 15-18, 1992.
100. Hadley MN. Instrumentation and Fusion of the Cervical Spine. Univ. of Florida Annual Spine Course. Orlando, FL. Sept. 6-8, 1992.

101. Hadley MN. Operative Approaches/Options for Cervical Spine Disease (without instrumentation). Congress of Neurological Surgeons Annual Meeting. Washington DC, November 1-4, 1992.
102. Hadley MN. Contemporary Use of Cervical Spinal Stabilization and Internal Fixation Hardware. Congress of Neurological Surgeons Annual Meeting. Washington, DC, November 1-4, 1992.
103. Hadley MN. The Contemporary Management of The Critically Ill Neurosurgical Patient. Barrow Neurological Institute Symposium. Phoenix, AZ. February 10-13, 1993.
104. Hadley MN. Recent Advances in the Surgical Treatment of Acute Spine Injuries. The Joint Section of Disorders of the Spine and Peripheral Nerves. Tucson, AZ. February 17-21, 1993.
105. Hadley MN. Neurosurgical Critical Care: Monitoring Devices and Techniques. American Association of Neurological Surgeons Annual Meeting, Boston, MA, April 24-29, 1993.
106. Hadley MN, Cuffe MJ. Destructive Dialysis Spondylarthropathy: Report on Nine Cases. American Association of Neurological Surgeons Annual Meeting, Boston, MA, April 24-29, 1993.
107. Hadley MN. Spinal Injuries in Children. American Association of Neurological Surgeons Annual Meeting, Boston, MA, April 24-29, 1993.
108. Hadley MN. Complications of lumbosacral pedical screw fixation. Avoidance, recognition and treatment. University of Florida Annual Spine Course, 1993.
109. Hadley MN. Neurosurgical Critical Care. Congress of Neurological Surgeons Annual Meeting, Vancouver, BC, October 3, 1993.
110. Greene KA, Hadley MN, Sonntag VKH. Trends in Management of Acute Traumatic Axis Fractures: Review of 315 Cases. Congress of Neurological Surgeons Annual Meeting, Vancouver, BC, October 2-7, 1993.
111. Hadley MN. Primary and Metastatic Vertebral Tumors. Congress of Neurological Surgeons Annual Meeting, Vancouver, BC, October 2-7, 1993.
112. Hadley MN. Management of Lesions of the Thoracic Spine. Congress of Neurological Surgeons Annual Meeting, Vancouver, BC, October 2-7, 1993.
113. Hadley MN. Cervical Spine Reconstruction and Internal Fixation Hardware. Neurosurgical Society of Alabama Annual Meeting, Orange Beach, AL May 22, 1994.
114. Hadley MN. *Think First*, National Head and Spinal Cord Injury Prevention Program. Neurosurgical Society of Alabama Annual Meeting, Orange Beach, AL May 22, 1994.
115. Hadley MN. Allograft vs. Autograft Iliac Crest Bone for Cervical Interbody Fusion. Neurosurgical Society of Alabama Annual Meeting, Orange Beach, AL, May 22, 1994.

116. Hadley MN. Pediatric Spinal Cord and Vertebral Column Injuries. Fluid and Electrolyte Management in the Intensive Care Unit. American Association of Neurological Surgeons Annual Meeting. San Diego, CA, April 12-18, 1994.
117. Hadley MN. Critical Care for the Neurosurgeon. Traumatic Injuries of the Occipital Cervical Junction. Introduction to Thoracolumbar Biomechanics. Congress of Neurological Surgeons Annual Meeting. Chicago, IL October 1-6, 1994.
118. Hadley MN. Acute Medical and Surgical Treatment of Spinal Cord Injuries: A Prospective Study. AANS/CNS Section on Disorders of the Spine and Peripheral Nerves Annual Meeting. Phoenix, AZ, February 14-18, 1995.
119. Hadley MN. Management of Athletic Head and Spinal Cord Injuries. Alabama Athletic Trainers Meeting. Gulf Shores, AL, May 5-6, 1995.
120. Hadley MN. Allograft vs. Autograft Bone as Cervical Interbody Fusion Substrate, a Prospective Study. American Association of Neurological Surgeons Annual Meeting. Orlando, FL, April 22-26, 1995.
121. Hadley MN. Spinal Stabilization and Fusion: Indications, Applications, Complications. Visiting Professor, University of Alberta Medical School. Calgary, Alberta, CANADA, May 11-14, 1995.
122. Hadley MN, Rauzzino M. Pediatric Spinal Cord Injuries. Congress of Neurological Surgeons Annual Meeting, San Francisco, CA, October 13-19, 1995.
123. Hadley MN. Consultant's Corner: Case Presentations. Congress of Neurological Surgeons Annual Meeting, San Francisco, CA, October 13-19, 1995.
124. Hadley MN. Critical Care Practical Course Lecture: Nutritional Support/Electrolyte Management. Congress of Neurological Surgeons Annual Meeting, San Francisco, CA, October 13-19, 1995.
125. Hadley MN. Spinal Cord Injury. Congress of Neurological Surgeons Annual Meeting, San Francisco, CA, October 13-19, 1995.
126. Hadley MN. Smoking, Bone Healing and Spinal Fusion. Joint Section on Disorders of the Spine and Peripheral Nerves Annual Meeting. Orlando, FL, February 28-March 2, 1996.
127. Laurysen C, Moore K, Hadley MN. Symptomatic Pseudarthrosis of the Cervical Spine. Joint Section on Disorders of the Spine and Peripheral Nerves Annual Meeting. Orlando, FL, February 28-March 2, 1996.
128. Hadley MN. Management and Association of Cervical Spine and Head Injuries. Sports Related Concussion: Neurological and Neurosurgical Evaluation and Management Conference. Pittsburgh, PA, March 23, 1996.
129. Laurysen C, Moore K, Hadley MN. Symptomatic Pseudarthrosis of the Cervical Spine. Southern Neurosurgical Society Annual Meeting. Miami Beach, FL, March 28-31, 1996.
130. Hadley MN. "How I Do It", Cervical Spine Injuries. Congress of Neurological Surgeons Annual Meeting. Montreal, Canada, September 30, 1996.

131. Hadley MN. Complication Avoidance During Lumbar Fusion. Congress of Neurological Surgeons Annual Meeting. Montreal, Canada, October 1, 1996.
132. Hadley MN. Bone Grafting and Biology of Spinal Fusion. Congress of Neurological Surgeons Annual Meeting. Montreal, Canada, October 2, 1996.
133. Cai C, Whitaker JN, Moore TA, Hadley MN. Cervical Cord Compression in Patients with Multiple Sclerosis. Congress of Neurological Surgeons Annual Meeting. October 3, 1996.
134. Hadley MN. Spinal Injuries in Athletes. Sports Related Concussion and Nervous System Injuries. AANS/CNS Section on Trauma and Critical Care Meeting. Orlando, FL. February 8-10, 1997.
135. Hadley MN. Management of Thoracic Spine Fractures without Internal Fixation. Joint Section on Spine Annual Meeting. Newport Beach, CA. February 19-22, 1997.
136. Hadley MN. Pedicle Screw Fixation of the Thoracolumbar Spine. Joint Section on Spine Annual Meeting. Newport Beach, CA. February 19-22, 1997.
137. Fulmer B, Oakes J, Hadley MN. Adult Patients with Spinal Dysraphism. Joint Section on Spine Annual Meeting. Newport Beach, CA. February 19-22, 1997.
138. Hadley MN. The Relative Merits of Interval Training for Endurance Athletes. Neurosurgery in Jackson Hole Annual Meeting. Jackson Hole, WY. February 23-27, 1997.
139. Hadley MN. The Rationale for the Use of Intrathecal Baclofen in the Treatment of Spasticity and Hypertonia. 1997 Aequanimitas Neurosurgical Society Meeting, Mountain Lake, Virginia. July 25-27, 1997.
140. Rauzzino M, Meythaler J, Hadley MN. Intrathecal Baclofen in the Treatment of Patients with Spasticity of Acquired Brain Injury Origin. Congress of Neurosurgical Surgeons Annual Meeting, New Orleans, LA. Sept. 27-Oct. 2, 1997.
141. Hadley MN, Moore TA. Perfusion Pressure and Spinal Cord Procedures; Optimizing Neurological Outcome. Visiting Professor, Washington University of St. Louis, St. Louis, MO, October 20-22, 1997.
142. Hadley MN. Lumbar Spinal Stenosis: Pathogenesis, Management and Surgical Treatment. Visiting Professor, Washington University of St. Louis, St. Louis, MO, October 20-22, 1997.
143. Hadley MN. Anterior Cervical Fusion: The need for Internal Fixation. Joint Section on Disorders of the Spine Annual Meeting, Palm Desert, CA, February 9, 1998.
144. Hadley MN. Contemporary Treatment Paradigms: Spinal Injury. Congress of Neurological Surgeons Annual Meeting, General Scientific Session II, Seattle, Washington, October 6, 1998
145. Hadley MN. Contemporary Treatment Paradigms for Patients with Spinal Disorders. Visiting Professor, Louisiana State University, Shreveport, LA, November 13-14, 1998.

146. Hadley MN. Lumbar Spine Fusion Controversies: The Use of Cages vs. Pedicle Screw Fixation. Joint Section on Disorders of the Spine Annual Meeting, Orlando, FL, February 13, 1999.
147. Hadley MN. Contemporary Treatment Paradigms for Patients with Spinal Disorders. Visiting Professor, University of Virginia Medical Center, Charlottesville, VA, March 6-7, 1999.
148. Hadley MN. Posterior Lumbar Fusion: Rationale, Indications and Techniques. CNS Annual Meeting, Boston, MA, November 4, 1999.
149. Hadley MN. Cervical and Thoracic Spinal Deformities; Management and Treatment. Spinal Deformity Correction Practical Course. CNS Annual Meeting, Boston, MA, November 3, 1999.
150. Hadley MN. Progeny: The Development of Neurosurgical Trainees. John R. Green Honored Visiting Professorship, Barrow Neurological Institute, Phoenix, AZ, February 9, 2000.
151. Wolff C, Moore TA, Hadley MN. The management of cervical spinal deformity. Experience with 70 consecutive cases. Neurosurgery in Jackson Hole, Jackson Hole, WY. March 5, 2000.
152. Hadley MN. Complications of high-dose intrathecal baclofen therapy withdrawal. Aequanimitas Neurosurgical Society Annual Meeting, Jackson Hole, WY, August 6-9, 2000.
153. Hadley MN. Spinal Deformity Practical Course. Congress of Neurological Surgeons Annual Meeting, San Antonio, TX, September 26, 2000.
154. Wolff C, Moore TA, Hadley MN. The surgical management of progressive cervical spinal deformity. Experience with 75 consecutive patients. Congress of Neurological Surgeons Annual Meeting, San Antonio, TX, September 27, 2000.
155. Hadley MN. Cervical spinal cord and vertebral column injury guidelines. Congress of Neurological Surgeons Annual Meeting, San Antonio, TX, September 28, 2000.
156. Paramore CG, Wolff C, Hadley MN. The use of virtual fluoroscopy in anterior cervical spine surgery. AANS/CNS Section on Disorders of the Spine and Peripheral Nerves Annual Meeting, Phoenix, AZ, February 16, 2001.
157. Hadley MN. The management of acute central cervical spinal cord injury: Rationale for early treatment. AANS/CNS Section on Disorders of the Spine and Peripheral Nerves Annual Meeting, Phoenix, AZ, February 17, 2001.
158. Hadley MN. Acute Central Spinal Cord Injury Revisited: Contemporary Management Guidelines. Northwestern University Medical School, Department of Neurosurgery. Chicago, IL, April 6-7, 2001.
159. Hadley MN, Moore TA. Blood Loss During Thoracolumbar Stabilization and Fusion. Management Considerations. Northwestern University Medical School, Department of Neurosurgery. Chicago, IL, April 6-7, 2001.

160. Hadley MN, Moore TA. Blood Loss During Thoracolumbar Stabilization and Fusion. J. Jay Keegan Memorial Lectureship, University of Nebraska College of Medicine, Omaha, NE, May 18, 2001.
161. Hadley MN. Guidelines for the Management of Acute Cervical Spinal and Spinal Cord Injuries. Tri-state Neurosurgical Society Annual Meeting, Omaha NE, May 19, 2001.
162. Hadley MN. Guidelines for the Management of Acute Cervical Spinal and Spinal Cord Injuries. Alabama State Neurosurgical Society Annual Meeting, Sandestin, FL, May 12, 2001.
163. Hadley MN, Walters BC, Grabb PA, Oyesiku NM, Przybylski GJ, Resnick DK, Ryken TC. Guidelines for the Management of Acute Cervical Spine and Spinal Cord Injuries. Congress of Neurological Surgeons Plenary Session IV. San Diego, CA, October 4, 2001.
164. Hadley MN. What Every Trauma Surgeon Needs to Know about Spinal Cord Injury: Evidence-Based Medicine Guidelines for Acute Cervical Spinal Cord Injuries. American College of Surgeons 87th Annual Meeting, New Orleans, LA, October 10, 2001.
165. Hadley MN. Medical Evidence-Based Guidelines for the Management of Acute Cervical Spine and Spinal Cord Injuries. The American Academy of Neurological Surgery 63rd Annual Meeting, November 14-17, 2001.
166. Hadley MN. Spine Trauma Guidelines. American Association of Neurological Surgeons and Congress of Neurological Surgeons Section on Disorders of the Spine and Peripheral Nerves 18th Annual Meeting, Orlando, FL, February 28, 2002.
167. Hadley MN. Cervical Spondylitic Myelopathy. Which Operation? Comment to Crockard et al. American Association of Neurological Surgeons 2002 Annual Meeting, Chicago IL, April 9, 2002.
168. Hadley MN. Special Course I. Spinal Cord Injury: What's New in 2002? American Association of Neurological Surgeons 2002 Annual Meeting, Chicago IL, April 11, 2002.
169. Hadley MN. Medical Evidence-Based Guidelines for the Management of Acute Cervical Spine and Spinal Cord Injuries. Cleveland Clinic, Cleveland, Ohio, May 16, 2002.
170. Hadley MN. Acute Central Spinal Cord Injury Revisited: Contemporary Management Guidelines. Cleveland Clinic, Cleveland, Ohio, May 17, 2002.
171. Hadley MN. Medical Evidence-Based Guidelines for the Management of Acute Cervical Spine and Spinal Cord Injuries. University of Wisconsin, Madison, WI, June 21, 2002.
172. Walters BC, Hadley MN, Grabb PA, Oyesiku NM, Przybylski GJ, Resnick DK, Ryken TC, Mielke DH. Update on Guidelines for Acute Traumatic Cervical Spine and Spinal Cord Injuries. Congress of Neurological Surgeons Annual Meeting, Philadelphia, PA, September 24, 2002.
173. Hadley MN. The Acute Central Cervical Spinal Cord Injury Revisited: Evidence-Based Guidelines for the Management of Acute Cervical Spinal Cord Injuries. The American Academy of Neurological Surgery, Annual Meeting, Scottsdale, AZ, October 17, 2002.

174. Hadley MN. Guidelines for the Management of Acute Spine and Spinal Cord Injuries. University of Colorado, Department of Neurosurgery, Denver, CO, November 15, 2002.
175. Hadley MN. Cervical Spine Injury Guidelines. Southern Neurosurgical Society Annual Meeting, Orlando, FL, March 14, 2003.
176. Hadley MN. Intrathecal baclofen therapy for spasticity. 23rd Annual Meeting of the Japanese Congress of Neurological Surgeons, Osaka, Japan, May 16, 2003.
177. Hadley MN, Moore TA. Perfusion pressure management in the perioperative treatment of spinal cord pathology. 23rd Annual Meeting of the Japanese Congress of Neurological Surgeons, Osaka, Japan, May 16, 2003.
178. Hadley MN, Moore TA. The far lateral approach to ventral thoracic spinal pathology. 17th Microsurgical Anatomy Seminar for Neurosurgery, Osaka, Japan. May 19, 2003.
179. Hadley MN, Moore TA. Perfusion Pressure Management in Peri-operative Treatment of Patients with Cervical Cord Pathology. 2003 Aequanimitas Neurosurgical Society Annual Meeting, San Diego, CA, July 10-13, 2003.
180. Hadley MN. Medical Evidence-Based Guidelines on the Management of Acute Cervical Spine and Spinal Cord Trauma. World Spine II, August 10, 2003, Chicago, IL.
181. Hadley MN. The Value of Neurosurgery. 53rd Annual Meeting, Congress of Neurological Surgeons Presidential Address, Denver, Colorado, Monday, October 20, 2003.
182. Spurlock TG, Hadley MN, Morawetz RB. Socio-economic Impact of Networking with Non-allopathic Clinicians. Congress of Neurological Surgeons Annual Meeting, Denver, Colorado, October 20, 2003.
183. Moore TA II, Matz PG, Hadley MN. Hemodynamic Monitoring and Hypertensive Therapy for the Spinal Cord Intraoperatively and in the Critical Care Unit. Congress of Neurological Surgeons Annual Meeting, Denver, Colorado, October 21, 2003.
184. Hadley MN. The Value of Neurosurgery. Annual Meeting of AANS/CNS Section on Disorders of the Spine and Peripheral Nerves, February 2004.
185. Hadley MN. Neurosurgery at a Professional Crossroads. Honored Guest of the Texas Association of Neurological Surgeons, 2004 Annual Meeting, Austin TX, May 14-15, 2004.
186. Hadley MN. Medical Evidence-Based Guidelines on the Management of Acute Cervical Spine and Spinal Cord Trauma, AO ASIF Advanced Concepts in the Management of Spinal Disorders Guest Lecturer. September 10, 2004, Ponte Vedra Beach, FL.
187. Hadley MN. Medical Evidence-Based Guidelines on the Management of Acute Cervical Spine and Spinal Cord Trauma, University of Virginia, Charlottesville, VA, September 10, 2004
188. Hadley MN. Neurosurgery at a Professional Crossroads. The 10th David D. Weaver Lecture, University of Virginia, Charlottesville, VA, September 11, 2004.

189. Hadley MN. Medical evidence-based guidelines on the management of acute cervical spine and spinal cord injuries. University of Pittsburgh, Department of Neurosurgery, April 27, 2005.
190. Hadley MN. The Far lateral approach to ventral thoracic spinal pathology. University of Pittsburgh, Department of Neurosurgery, April 27, 2005.
191. Hadley MN. Guidelines for the performance of fusion procedures for degenerative disease of the lumbar spine. University of Vermont, Burlington VT, June 2005.
192. Hadley MN. Guidelines for the performance of fusion procedures for degenerative disease of the lumbar spine. Aequanimitas Neurosurgical Society Annual Meeting, Watercolor Resort, Seaside Florida, June 25, 2005.
193. Hadley MN. Progeny: Developing disciples of the medical sciences. GCRC Residency Rotation UAB Medical School, University of Alabama at Birmingham, August 17, 2005.
194. Laurent JJ, Bisson EF, Hadley MN. *Spinal Surgery: Quo Vadis?* Congress of Neurological Surgeons Annual Meeting, Boston, MA, 2005.
195. Hadley MN. Medical evidence-based guidelines on the management of acute cervical spine and spinal cord injuries. Visiting Professor, West Virginia University School of Medicine, Department of Neurosurgery, Morgantown, WV, June 23, 2006.
196. Moore TA III, Wolff CL III, Hadi BA, Hadley MN. Blood loss during thoracolumbar stabilization and fusion procedures. The American Academy of Neurological Surgery Annual Meeting, Greensboro, GA, October 19, 2006.
197. Hadley MN. Medical evidence-based guidelines on the management of acute cervical spine and spinal cord injuries. Cruzamora Visiting Professor, University of Miami Department of Neurosurgery, January 11-12, 2007.
198. Hadley MN. Perfusion pressure in the perioperative management of spinal cord pathology. Cruzamora Visiting Professor, University of Miami Department of Neurosurgery, January 11-12, 2007.
199. Hadley MN. Medical evidence-based guidelines on the management of acute cervical spine and spinal cord injuries. Cedars-Sinai Department of Neurosurgery, Los Angeles, CA, March 2007.
200. Hadley MN. Perfusion pressure in the perioperative management of spinal cord pathology. Cedars-Sinai Department of Neurosurgery, Los Angeles, CA, March 2007.
201. Hadley MN. Emergency Neurosurgical Care and Neurotrauma Care: A National Perspective. The Neurosurgical Society of Alabama Annual Meeting, Watercolor, FL, May 17-20, 2007.
202. Hadley MN. Medical evidence-based guidelines on the management of acute cervical spine and spinal cord injuries. Honored Guest, Rocky Mountain Neurosurgical Society Annual Meeting, Jackson Hole, WY, June 16-20, 2007.

203. Hadley MN. Perfusion pressure in the perioperative management of spinal cord pathology. Honored Guest, Rocky Mountain Neurosurgical Society Annual Meeting, Jackson Hole, WY, June 16-20, 2007.
204. Hadley MN. Common sense approach to the treatment of spine disorders. Congress of Neurological Surgeons Annual Meeting, Orlando, FL, September 24, 2008.
205. Hadley MN. Spine trauma and spinal cord injury. Congress of Neurological Surgeons Annual Meeting, Luncheon Seminar, Orlando, FL, September 24, 2008.
206. Hadley MN. Cervical Disease: Treating spondylotic myelopathy, AANS/CNS Section on Disorders of the Spine and Peripheral Nerves, Marriott Desert Ridge Resort & Spa, Phoenix AZ, March 11, 2009.
207. Hadley MN. Cost Controls for Neurological Spinal Surgery. Aequanimitas Neurosurgical Society Annual Meeting, Elkhart Lake, WI, July 22, 2009.
208. Hadley MN. Case Presentation, Stroke following thoracolumbar complex spinal surgery. Aequanimitas Neurosurgical Society Annual Meeting, Lake Burton, GA, July 28, 2010.
209. Hadley MN. Spine surgery in the geriatric population: Current strategies and controversies. Congress of Neurological Surgeons Annual Meeting, Luncheon Seminar, San Francisco, CA, October 18-20, 2010.
210. Hadley MN. Cervical Arthroplasty, AANS/CNS Section on Disorders of the Spine and Peripheral Nerves, Orlando, FL, March 2011.
211. Hadley MN. Bone healing, bone grafts and rhBMP in Spinal Surgery. Aequanimitas Neurosurgical Society Annual Meeting, Lake Tahoe, CA, July 15-16, 2011.
212. Hadley MN. Medical Evidence-Based Guidelines and the Practice of Spinal Surgery George T. Tindall Distinguished Professor, Department of Neurosurgery, Emory University, Atlanta, GA, July 21-22, 2011.
213. Hadley MN. Perfusion pressure in the perioperative management of spinal cord pathology. George T. Tindall Distinguished Professor, Department of Neurosurgery, Emory University, Atlanta, GA, July 21-22, 2011.
214. Hadley MN. Guidelines for the Management of Acute Cervical Spine and Spinal Cord Injuries: An Update, 2012. Academy of Neurological Surgery Annual Meeting, Scottsdale, AZ, October 22, 2011.
215. Hadley MN. Medical Evidence-Based Guidelines and the Practice of Spinal Surgery. Department of Neurosurgery, Case Western Reserve University, Cleveland, OH, *February 7, 2012*
216. Hadley MN. Perfusion pressure in the perioperative management of spinal cord pathology. Case Western Reserve University, Cleveland, OH. February 8, 2012
217. Hadley MN. Defining and Achieving Excellence in Spinal Surgery. AANS/CNS Section on Disorders of the Spine and Peripheral Nerves, 2012 Annual Meeting, Orlando, FL, March 8, 2012.

218. Hadley MN, Walters BC, et al. Guidelines for the Management of Acute Cervical Spine and Spinal Cord Injuries: An Update, 2012. American Association of Neurological Surgeons Annual Meeting, Miami, FL, April 17, 2012.
219. Hadley MN. The True Value of Cervical Arthroplasty, “Best of the Best” JNS presentation. American Association of Neurological Surgeons Annual Meeting, Miami, FL, April 17, 2012.
220. Hadley MN. Bone Healing, Fusion, and Bone Morphogenetic Proteins in Spinal Surgery. Department of Surgery Grand Rounds, University of Alabama, Birmingham, AL, April 30, 2012.
221. Hadley MN. A (Personal) History of the Barrow Neurological Institute. BNI 50th Anniversary Lecture, 2012 BNI Symposium, Phoenix AZ, May 17, 2012.
222. Griessenauer CJ, Bauer DF, Moore TA, Pritchard PR, Hadley MN. Surgical manifestations of thoracic arachnoid pathology: Case series of twenty-eight patients and review of the literature. AANS/CNS Section on Disorders of the Spine and Peripheral Nerves, Phoenix, AZ, March 9, 2013.
223. Hadley MN. Bone Healing, Fusion, and Bone Morphogenetic Proteins in Spinal Surgery. Interurban Society, Chicago, IL. March, 2013.
224. Hadley MN. Bronson Ray Lecture, Visiting Professor, Bone Healing, Fusion, and Bone Morphogenetic Proteins in Spinal Surgery. Weill Cornell Medical College, New York, NY, May 8, 2013.
225. Hadley MN. Electrophysiologic Monitoring as diagnostic and therapeutical tools in spinal surgery. American Academy of Neurological Surgery Annual Meeting. Newport Beach, CA, September 27 2013.
226. Hadley MN. Guidelines for the Management of Acute Cervical Spine and Spinal Cord Injuries. Congress of Neurological Surgeons Annual Meeting, San Francisco, CA, October 22, 2013.
227. Hadley MN. Acute spine and spinal cord trauma: The Medical Evidence and controversies of top-flight care. Congress of Neurological Surgeons Annual Meeting, Consensus Session II, San Francisco, CA, October 22, 2013.
228. Hadley MN. Introduction and Development of the Cervical Spine Trauma Guidelines. Congress of Neurological Surgeons Annual Meeting, Consensus Session II, San Francisco, CA, October 22, 2013.
229. Hadley MN. Bone Healing, Fusion, and Bone Morphogenetic Proteins in Spinal Surgery. Mayo Clinic, Rochester, MN, December 3-4, 2013.
230. Hadley MN. Preparation for the ABNS Written Examination, AANS Annual Meeting, San Francisco, CA, April 9, 2014.
231. Hadley MN. Perfusion Pressure Management in the Peri-operative Treatment of Spinal Cord Pathology. Visiting Professor, University of California San Francisco, May 29, 2014.

232. Hadley MN. The aging human spine and pain from spinal cord injury. The 9th Annual UCSF Spine Symposium, University of California San Francisco, May 30-31, 2014.
233. Hadley MN. Evidence-based medicine update of cervical trauma. The 9th Annual UCSF Spine Symposium, University of California San Francisco, May 30-31, 2014.
234. Hadley MN. Perfusion Pressure Management in the Peri-operative Treatment of Spinal Cord Pathology. Advances in Brain Tumor Management, AANS/Columbia University Department of Neurosurgery, New York, NY, June 6 2014
235. Hadley MN. MOC Preparation, Congress of Neurological Surgeons Annual Meeting, Boston, MA, October 20, 2014
236. Hadley MN. Guidelines for the Management of Acute Cervical Spine and Spinal Cord Injuries, Congress of Neurological Surgeons Annual Meeting, Boston, MA, October 21, 2014.
237. Hadley MN. The diagnostic and therapeutic merits of electrophysiological monitoring for surgery of the human spinal column and spinal cord. American Association of Neurological Surgeons Annual Meeting. Washington DC. May 6, 2015.
238. Hadley MN. Building an academic practice in spinal neurosurgery. 1st Annual Andrew T. Parsa Memorial Symposium, Columbia University Department of Neurosurgery, May 29, 2015.
239. Hadley MN. Perfusion Pressure Management in the Peri-operative Treatment of Spinal Cord Pathology. The 7th Annual Heilbrun Lecture. University of Utah School of Medicine, Salt Lake City, UT, June 12, 2015.
240. Hadley MN. Professionalism, supervision and advice for PGY-1 Neurosurgical Residents. SNS Neurosurgery Boot Camp 2015. Emory University, Atlanta, GA, July 24, 2015.
241. Hadley MN. Acute Cervical Spine and Spinal Cord Trauma. CNS 2015 Annual Meeting, New Orleans, LA, September 30, 2015
242. Hadley MN. 2015 Primary/Written Examination Report. ABNS November 2015 Meeting, Houston, TX, November 11, 2015.
243. Hadley MN. 2016 Primary/Written Examination Report. ABNS April 2016 Meeting, Houston, TX, April 16, 2016
- 2.44 Hadley MN. Update on Lumbar Stenosis. AANS 2016 Annual Meeting , Chicago, IL, May 2, 2016
245. Hadley MN. SNS Neurosurgery Boot Camp 2016. Emory University, Atlanta, GA, July 22, 2016.
246. Hadley MN. Intra-Operative Monitoring and Spinal Cord Surgery: Standard of Care? Aequanimitas Neurosurgical Society Annual Meeting, Montage Palmetto Bluff, South Carolina, July 29, 2016.

247. Hadley MN. Evidence Toward Guidance. Presidential Address, American Academy of Neurological Surgery Annual Meeting. Jackson Hole, WY, September 16, 2016.
248. Hadley MN (Moderator). Management of Degenerative Thoracic Spine Disease. W27, 2016 CNS Annual Meeting, San Diego, CA, September 27, 2016.
249. Hadley MN (Moderator). Guidelines for the Management of Acute Cervical Spine and Spinal Cord Injuries: A Contemporary Medical Evidence-Based Review. W31, 2016 CNS Annual Meeting, San Diego, CA, September 28, 2016.

POSTER PRESENTATIONS

1. Hadley MN, Shetter AG, Wilkinson E. The administration of intraspinal or intraventricular morphine sulfate for the treatment of chronic cancer pain. 1985 AANS Meeting, Atlanta, Georgia, April 21-25, 1985.
2. Spetzler RF, Hadley MN, Martin NA, Carter LP. Management of vertebrobasilar insufficiency. 1985 AANS Meeting, Atlanta, Georgia, April 21-25, 1985.
3. Hadley MN, Sonntag VKH, Browner CM. Treatment of thoracolumbar junction fractures. A review of 110 cases. 1986 AANS/CNS Joint Section on Spinal Disorders Meeting, San Diego, California, February 19-22, 1986.
4. Hadley MN, Sonntag VKH, Amos MR, Hodak JA. Three-dimensional computerized tomography in the diagnosis of vertebral column pathology. The Annual Meeting of the American Association of Neurological Surgeons, April 13-17, 1986.
5. Williams F, Awad I, Hadley MN, Spetzler RF, Carter LP. Neurological complications after non-penetrating trauma to the cervical carotid artery. The Annual Meeting of the American Association of Neurological Surgeons, April 13-17, 1986.
6. Graham TW, Hadley MN, Harrington T, Schiller WR. Nutritional support and neurotrauma: A critical review of early nutrition in 45 acute head injury patients. The Annual Meeting of the American Association of Neurological Surgeons, April 13-17, 1986.
7. Hadley MN, Zabramski JM, Browner C, Rekate H, Sonntag VKH. Pediatric spinal trauma The Annual Meeting of the American Association of Neurological Surgeons, April 13-17, 1986.
8. Hadley MN, Shetter AG, Amos MR. Functional neurosurgery with the Brown-Wells stereotaxic frame: A comparison of positive contrast ventriculography and CT-derived stereotaxic coordinates. The Annual Meeting of the American Association of Neurological Surgeons, April 13-17, 1986.
9. Zabramski JM, Hadley MN, Browner C, Schiller W, Young D, Sonntag VKH. Cranial/Spinal trauma in all-terrain-vehicle injuries. The Annual Meeting of the American Association of Neurological Surgeons, April 13-17, 1986.

Since arrival at UAB

10. Frizzell T, Hadley MN. The Pathophysiology of Rheumatoid Arthritis of the Cervical Spine. The Annual Meeting of The American Association of Neurological Surgeons, April 10-14, 1993, Boston, MA.
11. Argires PJ, Hadley MN, Moore KA, Willing S. Acute MRI to predict spinal instability following cervical spine trauma. The Annual Meeting of the American Association of Neurological Surgeons, April 9-14, 1994, San Diego, CA.
12. Laurysen C, Lyttle R, Hadley MN. Recurrent Idiopathic Spinal Subdural Hemorrhage. AANS/CNS Section on Disorders of the Spine and Peripheral Nerves Annual Meeting. Newport Beach, CA. February 19-22 1997.
13. Laurysen C, Moore K, Rauzzino M, Hadley MN. Spinal Reconstruction without Internal Fixation. AANS/CNS Section on Disorders of the Spine and Peripheral Nerves Annual Meeting. Newport Beach, CA. February 19-22 1997.
14. Wolff CL, Kilburn MPB, Moore TA, Hadley MN. Progressive Cervical Kyphosis: Management Considerations and Outcome in 71 Consecutive Patients. AANS/CNS Section on Disorders of the Spine and Peripheral Nerves Annual Meeting, Palm Desert, CA, February 12-15, 2000.
15. Wolff CL, Moore TA, Hadley MN. Blood Loss During Thoracolumbar Stabilization and Fusion Procedures, AANS/CNS Section on Disorders of the Spine and Peripheral Nerves Annual Meeting, Phoenix, AZ, February 16-18, 2001.
16. Ammar KN, Pritchard PR, Matz PG, Hadley MN. Thoracic Spinal Cord Herniation: A Diagnostic and Therapeutic Challenge. Congress of Neurological Surgeons Annual Meeting, October 17-21, 2004.
17. Reid RAS, McNeely PD, Hadley MN. Controversies in the treatment of asymptomatic adult patients with Chiari I malformation and syringomyelia. Canadian Neurosurgery, Montreal, June 11, 2006
18. Bauer DF, Pritchard PR, Moore TA, Hadley MN. Thoracic arachnoid pathology: An analysis of 26 cases. Joint Section on Disorders of the Spine and Peripheral Nerves Annual Meeting. Scottsdale, AZ, February 2011.
19. Gordon AS, Amburgy JW, Moore TA, Hadley, MN. Imaging characteristics of symptomatic bone overgrowth from rhBMP after lumbar interbody fusion. Congress of Neurological Surgeons Annual Meeting, San Francisco, CA, October 19-23, 2013.