

# *Alexander M. Mason, MD FAANS*

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## **EMPLOYMENT & RESIDENCY:**

- **Emory University**, Department of Neurosurgery, Atlanta, Georgia.
  - **Assistant Professor**, October 2015-present.
  - Gamma knife, Surgical Clinical Director.
- **University of Colorado, Department of Neurosurgery**, Denver, Colorado.
  - **Adjunct Clinical Instructor** at Denver Health Medical Center, (level 1 trauma), April 2013-present;
  - Volunteer clinical instructor with creation of didactic teaching series for residents, October 2009-February 2011.
- **Boulder Neurosurgical Associates**, Boulder, Colorado. August 2008 – July 2015.
  - **Partner**; Cerebrovascular and neuro-oncologic focus.
  - ABNS Board Certified, 2014.
- **Emory University**, Department of Neurosurgery, Atlanta, Georgia.
  - **Cerebrovascular Fellow** and Clinical Instructor, July 2007 – June 2008.
- **Cleveland Clinic Foundation**, Department of Neurosurgery, Cleveland, Ohio.
  - **Chief Resident**, June 2006 - June 2007 (PGY 7).
  - **Resident** in the Department of Neurosurgery 2003-2007 (PGY 3-7).
  - Resident in Department of Radiology/emphasis in neuroradiology, July 2002 – February 2003.
- **United States Senate**, Washington D.C.
  - Office of Senate Majority Leader Frist, WH, MD; **Health Policy Fellow**, August 2005 – June 2006.
  - Awarded the Charles Plante Public Policy Fellowship, Congress of Neurological Surgeons (CNS).
- **Case Western Reserve University**, Department of Neurosurgery, Cleveland, Ohio.
  - **Resident** in the Department of Neurosurgery 2000 – 2002 (PGY 1-2).

## **EDUCATION:**

- **The Ohio State University College of Medicine**, Columbus, Ohio.
  - Medical Doctor (M.D.), 1996-2000.
  - Graduate studies, cell biology, working toward Masters of Science, 1994-1996.
- **Miami University**, Oxford, Ohio.
  - Bachelor of Arts (B.A.), microbiology, 1989-1994.
  - Major in microbiology.

**HONORS and AWARDS:****Professional Practice**

- Compassionate Doctor Award, Patients' Choice patientschoice.org (2010-2012).
- Patients' Choice Physician, Patients' Choice, patientschoice.org (2008-2012).
- Finalist, Mario Boni Award, Cervical Spine Research Society, European Section, 26<sup>th</sup> CSRS Annual Meeting, Corfu, Greece (2010).
- Received the highest ratings among neurosurgery groups in the Denver metro area for the services provided at Boulder Community Hospital (2010).
- Best Paper Award – Correlation of Clinical Outcomes and Cervical Sagittal Alignment: A Prospective Randomized Clinical Study. 24<sup>th</sup> Annual NASS Meeting, November 10 – 14, 2009, San Francisco, California.

**Residency & Medical School**

- Charles Plante Public Policy Fellowship, awarded by the Congress of Neurological Surgeons (CNS), 2005–2006.
- Award of Excellence (service oriented), Cleveland Clinic Foundation, 2004.
- Outstanding Intern award, University Hospitals of Cleveland, 2001.
- Jonasson Award in Surgery for Exceptional Performance in Surgery, The Ohio State University, 2000.
- Phi Kappa Phi Honor Society, The Ohio State University, 2000.
- Honors, Neurosurgery, Sub-internship, University of Cincinnati, 1999.
- Honors, Neurosurgery, The Ohio State University, 1999.
- Honors, Surgery, Sub-internship, The Ohio State University, 1999.
- Honors, Emergency Medicine, The Ohio State University, 1999.
- Honors, Pediatrics, The Ohio State University, 1999.
- Inductee, Landacre Research Honorary, 1998.
- Samuel J. Roessler Memorial Medical Scholarship, 1997-1998.

**Undergraduate/Other (selected)**

- Research Grant, Department of Microbiology, Miami University, 1994-1995.
- Dean's List, Miami University, 1993, 1994.
- Presidents Award for Excellence in Service, 1993.
- Eagle Scout, Boy Scouts of America, 1989.
- Delegate, Congressional Youth Leadership Council, 1989.

**ORGANIZED NEUROSURGERY:**

- Coding and Reimbursement **Faculty**, *Managing Coding & Reimbursement Challenges in Neurosurgery* presented by AANS. Ongoing faculty at courses, 2007-present.
  - Revision of Coding Resource Book, 2010-present.
  - Ongoing Teaching of coding course at AANS and CNS, 2008-present.
- CNS **Delegate** to Relative Value Update Committee (RUC) determining, defending and valuing codes (rvu) in Neurosurgery to AMA and CMS. 2005-present.

***PUBLICATIONS:*****Accepted/Submitted/In Progress Publications:**

- **Mason A**, Hussain S, Bain M. The significance of the cerebral vascular infundibulum: a historical approach. (*Submitted*, Neurosurgery, 2015)
- **Mason A**, Butler S, Hepker M, Larson, T. Non-traumatic, posterior circulation pseudoaneurysm of the basilar artery perforator with spontaneous resolution: Case Report and Literature Review. (*Submitted*, World Neurosurgery, 2015)
- Burneikiene S, Nelson EL, **Mason A**, Rajpal S, Villavicencio AT. The Duration of Symptoms and Clinical Outcomes in Patients Undergoing Anterior Cervical Discectomy and Fusion for Degenerative Disc Disease and Radiculopathy. *The Spine Journal* 15.3 (2015): 427-432.
- Villavicencio AT, Babuska J, Serxner BJ, Nelson EL, **Mason A**, Burneikiene S. A Preliminary Report on the CO2 Laser for Lumbar Fusion: Safety, Clinical Outcomes and Technical Considerations. *Cureus* 7.4; 2015.
- **Mason A**, Paulsen R, Babuska J, Rajpal S, Burneikiene S, Nelson EL, Villavicencio AT. The accuracy of Pedicle Screw Placement Using Intraoperative Image Guidance Systems: A Meta Analysis. *J Neurosurg Spine*. 2014 Feb; 20(2):196-203.
- Villavicencio AT, Serxner BJ, **Mason A**, Nelson EL, Rajpal S, Faes N, Burneikiene S. Unilateral and Pedicle Screw Fixation in Transforaminal Lumbar Interbody Fusion: Radiographic and Clinical time. *World neurosurgery* 83.4 (2015): 553-559.
- Villavicencio AT, Nelson EL, **Mason A**, Rajpal S, Burneikiene S. Outpatient Instrumented Lumbar Interbody Fusion. *J Spinal Disord Tech*.2013 Aug;26(6):298-304.
- **Mason A**, Ayres K, Burneikiene S, Villavicencio A, Nelson E, Beasley K. A Novel Case of Resolved Post-Herpetic Neuralgia with Subsequent Development of Trigeminal Neuralgia: Case Report and Review of the Literature. *Case Rep Med*.2013:398513.
- LaBorde D, **Mason A**, Riley J, Dion JE, Barrow, DL. Aneurysm of a Duplicate Middle Cerebral Artery; *World Neurosurgery*, 77 (1), 201-4, 2012.
- Burneikiene S, Nelson EL, **Mason A**, Rajpal S, Villavicencio AT. Complications in Patients Undergoing Transforaminal Lumbar Interbody Fusion with Deformity Correction for Degenerative Scoliosis and Spinal Stenosis. *Surg Neurol Int*, 2012;3:25.
- Carr FA, Healy KM, Villavicencio AT, Nelson EL, **Mason A**, Burneikiene S, Hernandez TD. Effect of Patient Pain Expectancies and Preoperative SF-36 Mental Component Summary Scores on Clinical Outcomes Following Anterior Cervical Discectomy and Fusion. *J Neurosurg Spine*. 2011 Nov;15(5):486-490.
- Villavicencio AT, Babuska JM, Ashton A, Busch E, Nelson EL, **Mason A**, Burneikiene S. Prospective Randomized Double-Blinded Clinical Study Evaluating the Correlation of Clinical Outcomes and Cervical Sagittal Alignment. *Neurosurgery* 68:1309-1316, 2011.
- Villavicencio AT, Burneikiene S, Roeca CM, Nelson EL, **Mason A**. Minimally Invasive versus Open Transforaminal Lumbar Interbody Fusion. *Surg Neurol Int*, 1:12, 2010.
- **Mason A**, Cawley CM, Barrow D. Surgical Management of intracranial aneurysms in the endovascular era. *J Korean Neurosurg Soc* 45(3)L: 133-142, 2009.
- Elliott-Lewis E, **Mason A**, Barrow D. Evaluation of a New Bipolar Coagulation Forceps in a Thermal Damage Assessment. *Neurosurgery* 65:1182-87, 2009.
- Nasr C, **Mason A**, Mayberg M, Staugaitis SM, Asa SL. Acromegaly and Somatotroph Hyperplasia with Adenomatous Transformation due to Pituitary Metastasis of a GHRH-Secreting Pulmonary Endocrine Carcinoma. *Journal of Clinical Endocrinology and Metabolism*, 91(12) 4776-4780, 2006.

**Book Chapters:**

- **Mason A**, Cawley CM, Barrow D. Surgical Management of Middle Cerebral Artery Aneurysms in Youmans Neurological Surgery 6<sup>th</sup> ed., p. 3862-3875, Edited: Richard
- Steinmetz M, **Mason A**, Benzel E. Surgical Exposure of the Peripheral Nerves of the Lower Extremity, Part II in Neurosurgical Operative Atlas Second Edition: Spine and Peripheral Nerves; Editors: Christopher Wolfa, MD and Daniel K. Resnick, MD. Thieme. 2007.
- **Mason A**, Steinmetz M, Benzel E. Surgical Exposure of the Peripheral Nerves of the Lower Extremity, Part I in Neurosurgical Operative Atlas Second Edition: Spine and Peripheral Nerves; Editors: Christopher Wolfa, MD and Daniel K. Resnick, MD. Thieme. 2007.
- **Mason A**, Toms S. Hormonal Modulation, Biological Response Modifiers, and Ab1 protein Toxins in the treatment of Malignant Gliomas, in High-Grade Gliomas: Treatment and Diagnosis. Editors: Gene Barnett, MD. Humana Press; 2006.
- Mervis L, **Mason A**. Arachnoiditis, The 5-Minute Neurological Consult, editors J. Lynn, and H. Newton, p.68-70, Lippincott, Williams and Wilkins, 2004.

**PRESENTATIONS:**

- **Mason A**, Hassan S, Butler S, Kohler M, Bain M: Cerebrovascular Infundibula: A Literature review and natural history (Poster). Congress of Neurological Surgeons, New Orleans, LA, 2015. (accepted)
- **Mason A**: Mycotic Aneurysms: A Retrospective Review and Prospective Analysis. Neurosurgery in Jackson (planning committee: Nicholas Hopkins, Robert Spetzler and Daniel Barrow), Jackson Hole, WY. March 2, 2015.
- **Mason A**. Using RhBMP-2 in Spine Surgery: The Bad and The Ugly. 11th Annual Symposium Current Techniques in the Treatment of Cranial and Spinal Disorders. Broomfield, CO, October 18, 2014.
- Villavicencio AT, Serxner BJ, **Mason A**, Rajpal S, Burneikiene S. Unilateral vs. Bilateral Pedicle Screw Fixation in Transforaminal Lumbar Interbody Fusion: Radiographic and Clinical Analysis. CNS Annual Meeting, Boston MA, October 18 – 22, 2014.
- **Mason A**. Cavernous Malformations. A review of the Natural History and Current Treatment recommendations. NEIMS, Cleveland Clinic, Cleveland, Ohio. September 19, 2014.
- **Mason A**. Brain Aneurysms: The Argument for Endovascular Treatment. 10<sup>th</sup> Annual Symposium Current Techniques in the Treatment of Cranial and Spinal Disorders. Broomfield, CO, October 26, 2013.
- **Mason A**. The significance of the cerebral vascular infundibulum: a historical approach. Neurosurgery in Jackson, Hole. March 4, 2014.
- **Mason A**, Paulsen R, Babuska J, Rajpal S, Nelson EL, Burneikiene S, Villavicencio AT. The Accuracy of Pedicle Screw Placement Using Intraoperative Image Guidance: A Meta Analysis. CNS Annual Meeting, San Francisco, CA, October 19 – 23, 2013.
- Villavicencio AT, Serxner BJ, **Mason A**, Beasley KD, Nelson EL, Rajpal S, Faes N, Burneikiene S. Comparative Study of Unilateral and Bilateral Pedicle Screw Fixation in Transforaminal Lumbar Interbody Fusion: Radiological and Clinical Analysis. CNS Annual Meeting, San Francisco, CA, October 19 – 23, 2013.
- Villavicencio AT, Burneikiene S, Nelson EL, **Mason A**. Outpatient Instrumented Transforaminal Lumbar Interbody Fusion. NASS Summer Spine Meeting, Naples, FL July 31 – August 3, 2013.
- Burneikiene S, Serxner BJ, Nelson EL, **Mason A**, Rajpal S, Villavicencio AT. Radiological Outcomes in Patients Undergoing Transforaminal Lumbar Interbody Fusion

- (TLIF) with Interspinous Process Fixation Plate as an Adjunct to Unilateral Pedicle Screws. 2013 American Association of Neurological Surgeons 81st Annual Scientific Meeting, New Orleans, LA, April 27-May 1, 2013.
- Burneikiene S, Villavicencio AT, Nelson EL, **Mason A**, Rajpal S, Beasley K. The Duration of Symptoms and Clinical Outcomes in Patients Undergoing Anterior Cervical Discectomy and Fusion (ACDF) for Degenerative Disc Disease and Radiculopathy. 2013 American Association of Neurological Surgeons 81st Annual Scientific Meeting, New Orleans, LA, April 27-May 1, 2013.
  - Villavicencio AT, Burneikiene S, Nelson EL, **Mason A**. Outpatient Lumbar Interbody Fusion – Changing the Standard of Care. 2013 Annual Meeting of the Neurosurgical Society of America, Sea Island, GA, April 7 – 10, 2013.
  - **Mason A**, Beloy V, Villavicencio AT, Nelson EL, Beasley K, Burneikiene S, Rajpal S. Central cord syndrome with delayed abducens and hypoglossal nerve palsies, a novel triad: Case report, review of proposed mechanisms and relevant literature. 2013 Annual Meeting of the AANS/ CNS Section on Disorders of the Spine and Peripheral Nerves, Phoenix, Arizona, March 6 – 9, 2013.
  - Serxner B, Villavicencio AT, **Mason A**, Nelson EL, Rajpal S, Beasley KD, Burneikiene S. Transforaminal Lumbar Interbody Fusion (TLIF) with Interspinous Process Fixation Plate as an Adjunct to Unilateral Pedicle Screws: Radiological Outcomes. 2013 Annual Meeting of the AANS/ CNS Section on Disorders of the Spine and Peripheral Nerves, Phoenix, Arizona, March 6 – 9, 2013.
  - Villavicencio AT, **Mason A**, Serxner B, Nelson EL, Rajpal S, Beasley KD, Burneikiene S. Predictive Value of the Duration of Symptoms in Patients Undergoing Anterior Cervical Discectomy and Fusion (ACDF) for Degenerative Disc Disease and Radiculopathy. 2013 Annual Meeting of the AANS/ CNS Section on Disorders of the Spine and Peripheral Nerves, Phoenix, Arizona, March 6 – 9, 2013.
  - **Mason A**. Cavernous Malformations. Current Concepts in Treatment. Grand Rounds. University of Louisville Department of Neurosurgery, Louisville, Kentucky, October 26, 2012.
  - Villavicencio AT, Serxner BJ, Nelson EL, **Mason A**, Rajpal S, Burneikiene S. The Duration of Symptoms and Clinical Outcomes in Patients Undergoing Anterior Cervical Discectomy and Fusion (ACDF) for Degenerative Disc Disease and Radiculopathy. NASS 27th Annual Meeting, Dallas, Texas, October 24 – 27, 2012.
  - **Mason A**. Contemporary Utilization of Stereotactic Radiosurgery in Clinical Practice. A Review. 9<sup>th</sup> Annual Symposium Current Techniques in the Treatment of Cranial and Spinal Disorders. Broomfield, Colorado, October 20, 2012.
  - Burneikiene S, Serxner BJ, Rajpal S, Nelson EL, **Mason A**, Villavicencio AT. Association of Duration of Symptoms and Clinical Outcomes in Patients Undergoing Cervical Spinal Fusion for Degenerative Disc Disease and Radiculopathy. CNS Annual Meeting, Chicago, Illinois, October 6 – 10, 2012.
  - Serxner BJ, Burneikiene S, Nelson EL, **Mason A**, Rajpal S, Villavicencio AT. Transforaminal Lumbar Interbody Fusion (TLIF) with Interspinous Process Fixation Plate as an Adjunct to Unilateral Pedicle Screws: Radiological Outcomes. CNS Annual Meeting, Chicago, Illinois, October 6 – 10, 2012.
  - Villavicencio AT, Serxner BJ, Babuska J, Nelson EL, **Mason A**, Rajpal S, Busch E, Ashton A, Burneikiene S. The Duration of Symptoms and Clinical Outcomes in Patients Undergoing Anterior Cervical Discectomy and Fusion (ACDF) for Degenerative Disc Disease and Radiculopathy. Spine Across the Sea, Kauai, Hawaii, July 29 - August 2, 2012.

- Villavicencio AT, Serxner BJ, Burneikiene S, Nelson EL, **Mason A**, Rajpal S. Clinical Outcomes in Patients Undergoing Transforaminal Lumbar Interbody Fusion (TLIF) with Interspinous Process Plate Fixation as an Adjunct to Pedicle Screws. Spine Across the Sea, Kauai, Hawaii, July 29 - August 2, 2012.
- Serxner BJ, Burneikiene S, Nelson EL, **Mason A**, Rajpal S, Villavicencio AT. Preliminary Clinical Outcomes in Patients Undergoing Transforaminal Lumbar Interbody Fusion with Interspinous Process Plate Fixation as an Adjunct to Pedicle Screws. 80<sup>th</sup> AANS Annual Meeting, Miami, Florida, April 14 -18, 2012.
- **Mason A**. Fellowship in Neurointerventional Radiology: The Pros and Cons. Jackson Hole Neurosurgical Meeting, Jackson Hole, Wyoming, March 4, 2012.
- **Mason A**. Current Concepts in Treatment of Neurological Disorders: The Practitioners Guide. 8<sup>th</sup> Annual Symposium Current Techniques in the Treatment of Cranial and Spinal Vascular Disorders. Broomfield, Colorado, October 29, 2011.
- Babuska J, Villavicencio AT, **Mason A**, Nelson EL, Rajpal S, Burneikiene S. Accuracy Comparison for Intraoperative Biplanar and Volumetric Image Guidance: A Systematic review. 2011 CNS annual Meeting, Washington, DC, October 1–6, 2011.
- Villavicencio AT, Nelson EL, **Mason A**, Rajpal S, Carr FA, Burneikiene S. The Safety of Transforaminal Interbody Fusion for Deformity Correction in Degenerative Scoliosis with Spinal Stenosis. 79th AANS Annual Meeting, Denver, Colorado, April 9-13, 2011.
- **Mason A**, Villavicencio AT, Nelson EL, Babuska J, Carr FA, Rajpal S, Burneikiene S. CO<sub>2</sub> Laser-Assisted Lumbar Fusions: Safety, Clinical Outcomes and Technical Considerations. 79th AANS Annual Meeting, Denver, Colorado, April 9-13, 2011.
- Villavicencio AT, Burneikiene S, Nelson EL, **Mason A**. Outpatient Lumbar Fusions – Changing the Standard of Care. 79th AANS Annual Meeting, Denver, Colorado, April 9-13, 2011.
- Villavicencio AT, Carr FA, Hernandez TD, Healy KM, Nelson EL, **Mason A**, Rajpal S, Burneikiene S. Effects of Preoperative SF-36 Mental Component Scores and Patient Pain Expectations on Clinical Outcomes Following Anterior Cervical Discectomy and Fusion. 79th AANS Annual Meeting, Denver, Colorado, April 9-13, 2011.
- Villavicencio AT, Nelson EL, **Mason A**, Rajpal S, Carr F, Burneikiene S. The Safety and Efficacy of Transforaminal Lumbar Interbody Fusion for Deformity Correction in Degenerative Scoliosis with Spinal Stenosis. 27<sup>th</sup> Annual Meeting, AANS/CNS Section on Disorders of the Spine and Peripheral Nerves, Phoenix, Arizona, March 9 – 12, 2011.
- Villavicencio AT, **Mason A**, Nelson EL, Rajpal S, Carr F, Weeks B, Burneikiene S. A Systematic Review of Accuracy and Comparison of Intraoperative Biplanar and Volumetric Image Guidance Systems. 27<sup>th</sup> Annual Meeting, AANS/CNS Section on Disorders of the Spine and Peripheral Nerves, Phoenix, Arizona, March 9 – 12, 2011.
- Villavicencio AT, Nelson EL, **Mason A**, Babuska J, Carr F, Rajpal S, Burneikiene S. CO<sub>2</sub> Laser-Assisted Lumbar Fusions: Safety, Clinical Outcomes and Technical Considerations. 27<sup>th</sup> Annual Meeting, AANS/CNS Section on Disorders of the Spine and Peripheral Nerves, Phoenix, Arizona, March 9 – 12, 2011.
- Hernández T, Healy KM, Nelson EL, **Mason A**, Burneikiene S, Villavicencio AT. Effect of Patient Pain Expectations and Preoperative SF-36 Mental Component Scores on Clinical Outcomes Following Anterior Cervical Discectomy and Fusion. 27<sup>th</sup> Annual Meeting, AANS/CNS Section on Disorders of the Spine and Peripheral Nerves, Phoenix, Arizona, March 9 – 12, 2011.
- Villavicencio AT, Nelson EL, **Mason M**, Babuska J, Carr F, Burneikiene S. Selective Transforaminal Lumbar Interbody Fusion for Degenerative Adult Scoliosis Correction. 2010 CNS Annual Meeting, San Francisco, California, October 16 – 21, 2010.

- Villavicencio AT, Nelson EL, **Mason A**, Babuska J, Burneikiene S. Efficacy of CO<sub>2</sub> Laser-Assisted Lumbar Fusions: Preliminary Clinical Results. 2010 CNS Annual Meeting, San Francisco, California, October 16 – 21, 2010.
- **Mason A**, Carr FA, Hernández T, Healy KM, Nelson EL, Burneikiene S, Villavicencio AT. Effect of Patient Pain Expectations and Preoperative SF-36 Mental Component Scores on Clinical Outcomes Following Anterior Cervical Discectomy and Fusion. 2010 CNS Annual Meeting, San Francisco, California, October 16 – 21, 2010.
- Villavicencio AT, Nelson EL, **Mason A**, Babuska J, Burneikiene S. The Safety of Instrumented Lumbar Interbody Fusions Performed as an Outpatient Procedure. 2010 CNS Annual Meeting, San Francisco, California, October 16 – 21, 2010.
- Villavicencio AT, Nelson EL, **Mason A**, Carr F, Burneikiene S. Outpatient Instrumented Lumbar Interbody Fusion – Changing the Standard of Care. NASS 25<sup>th</sup> Annual Meeting, Orlando, Florida, October 5-9 2010.
- **Mason A**. Advances in Cerebrovascular Neurosurgery. 7<sup>th</sup> Annual Symposium Current Techniques in the Treatment of Cranial and Spinal Disorders. Broomfield, Colorado, September 11, 2010.
- Burneikiene S, Babuska JM, Ashton A, Busch E, Nelson EL, **Mason A**, Villavicencio AT. Prospective Randomized Double Blinded Clinical Study Evaluating the Correlation of Clinical Outcomes and Cervical Sagittal Alignment. 26<sup>th</sup> Annual Meeting of the European Section of the Cervical Spine Research Society, Corfu Island, Greece, May 26 – 29, 2010.
- Villavicencio AT, Burneikiene S, Nelson L, **Mason A**. Feasibility of Interbody Lumbar Fusion Performed on an Outpatient Basis. American Association of Neurological Surgeons Annual Meeting, Philadelphia, Pennsylvania, May 1-5, 2010.
- Villavicencio AT, Burneikiene S, Babuska J, Nelson L, **Mason A**. Correlation of Change in Segmental Sagittal Alignment and Clinical Outcomes after Anterior Cervical Discectomy and Fusion Surgery. American Association of Neurological Surgeons Annual Meeting, Philadelphia, Pennsylvania, May 1-5, 2010.
- Burneikiene S, Villavicencio AT, Nelson L, **Mason A**, McNeely L. CyberKnife Radiosurgery for Spine Tumors. Spinal Cord and Volume Analysis. 7<sup>th</sup> Annual Mazama Spine Summit, Winthrop, Washington, March 3-5, 2010.
- Burneikiene S, Villavicencio AT, Nelson L, **Mason A**. Outpatient Instrument Lumbar Interbody Fusion. Preliminary Results on Safety and Efficacy. 7<sup>th</sup> Annual Mazama Spine Summit, Winthrop, Washington, March 3-5, 2010.
- Villavicencio AT, Nelson L, **Mason A**, Burneikiene S. Feasibility of Outpatient Interbody Lumbar Fusion. AANS/CNS Section on Disorders of the Spine and Peripheral Nerves Annual Meeting, Orlando, Florida, February 17-20, 2010.
- Burneikiene S, Villavicencio AT, Babuska J, Nelson L, **Mason A**. Correlation of Clinical Outcomes and Change in Segmental Sagittal Alignment after Anterior Cervical Discectomy and Fusion Surgery. AANS/CNS Section on Disorders of the Spine and Peripheral Nerves Annual Meeting, Orlando, Florida, February 17-20, 2010.
- Nelson EL, Villavicencio AT, **Mason A**, Burneikiene S. Early Clinical Results of Complex Spinal Instrumentation using Multidimensional Surgical Imaging Systems. 2nd International Spinal Imaging and Navigation Symposium (SINS), Seoul, Korea, November 21, 2009.
- Villavicencio AT, Burneikiene S, Babuska MJ, Ashton A, Busch E, **Mason A**. Correlation of Clinical Outcomes and Cervical Sagittal Alignment: A Prospective Randomized Clinical Study. 24<sup>th</sup> Annual NASS Meeting, San Francisco, California, November 10 – 14, 2009.

- Villavicencio AT, Babuska JM, **Mason A**, Burneikiene S. Preliminary Clinical Experience Using a Minimally Invasive Spinous Process Fusion Plate. 2009 CNS Annual Meeting, New Orleans, Louisiana, October 24 - 29, 2009.
- **Mason A**. Blood in the Brain: Diagnosis, Evaluation and Treatment. Current Techniques in the Treatment of Cranial and Spinal Disorders, Broomfield, Colorado, October 17, 2009.
- Villavicencio AT, Burneikiene S, Babuska JM, **Mason A**. Aspen Spinous Process System: Preliminary Clinical Experience. XIV World Congress of Neurological Surgery (AANS), Boston, Massachusetts, August 30 - September 4, 2009.
- Nelson EL, Burneikiene S, **Mason A**, Villavicencio AT. Preliminary Clinical Experience with the O-arm for Complex Spinal Instrumentation. XIV World Congress of Neurological Surgery (AANS), Boston, Massachusetts, August 30 - September 4, 2009.
- Villavicencio AT, Burneikiene S, **Mason A**. Clinical Use of Osteogenic Protein (OP-1) for Instrumented Posterolateral Fusion. XIV World Congress of Neurological Surgery (AANS), Boston, Massachusetts, August 30 - September 4, 2009.
- Villavicencio AT, Babuska JM, Burneikiene S, Ashton A, Busch E, **Mason A**. Correlation of Clinical Outcomes and Cervical Sagittal Alignment: A Prospective Randomized Clinical Study. XIV World Congress of Neurological Surgery (AANS), Boston, Massachusetts, August 30 - September 4, 2009.
- **Mason A**, Nelson EL, Burneikiene S, Babuska JM, Ashton A, Busch E, Villavicencio AT. Prospective Randomized Clinical Study Evaluating the Correlation of Clinical Outcomes and Cervical Sagittal Alignment. 22<sup>nd</sup> Annual Neurosurgery in the Rockies Meeting, Beaver Creek, Colorado, February 21 – 25, 2009.
- Burneikiene S, Villavicencio AT, Nelson EL, **Mason A**. Clinical use of Osteogenic Protein(OP-1) for Instrumented Posterolateral Fusion. NASS Spring Break, Rio Grande, Puerto Rico, April 23 – 25, 2009.
- Burneikiene S, Villavicencio AT, Nelson EL, Burneikiene S, Babuska JM, Ashton A, Busch E, **Mason A**. Correlation of Clinical Outcomes and Cervical Sagittal Alignment: A Prospective Randomized Clinical Study. NASS Spring Break, Rio Grande, Puerto Rico, April 23 – 25, 2009.
- Villavicencio, AT, Burneikiene S, Nelson EL, **Mason A**. Clinical Evaluation of Osteogenic Protein (OP-1) for Instrumented Posterolateral Fusion. 2009 AANS/CNS Section on Disorders of the Spine and Peripheral Nerves Annual Meeting, Phoenix, Arizona, March 11 – 14, 2009.
- Nelson EL, Burneikiene S, **Mason A**, Villavicencio AT. Preliminary Clinical Experience with the O-arm for Complex Spinal Instrumentation. 2009 AANS/CNS Section on Disorders of the Spine and Peripheral Nerves Annual Meeting, Phoenix, Arizona, March 11 – 14, 2009.
- Villavicencio AT, Nelson EL, Babuska JM, **Mason A**, Burneikiene S. Preliminary Clinical Experience Using a Mini-Open Aspen Spinous Process System. 2009 AANS/CNS Section on Disorders of the Spine and Peripheral Nerves Annual Meeting, Phoenix, Arizona, March 11 – 14, 2009.
- **Mason A**. Cerebrovascular Update: Current Concepts. Current Techniques in the Treatment of Cranial and Spinal Vascular Disorders, Broomfield, Colorado, November 15, 2008.
- **Mason A**. Cavernous Malformations: Evolution, Natural History and Treatment Recommendations. University of Colorado Department of Neurosurgery, Denver, Colorado, February 8, 2008.
- **Mason A**. Washington Update: Reflections on a Year in Washington DC. Grand Rounds presentation for the Department of Neurosurgery, Cleveland Clinic, OH, 2006.



- **Mason A.** Spine Trauma and Common Spinal Pathology, 9<sup>th</sup> Annual Innovations in Neuroscience Nursing Summit, Cleveland, Ohio, 2006.
- **Mason A,** Mayberg M, Staugaitis SM, Asa SL, Nasr C. Acromegaly and Somatotroph Hyperplasia with Adenomatous Transformation due to Pituitary Metastasis of a GHRH-Secreting Pulmonary Endocrine Tumor, The Endocrine Society Meeting, New Orleans, LA, May 2004.
- **Mason A.** The Etiology of Peritumoral Edema in Meningiomas, Grand Rounds Presentation, Department of Neurosurgery, University of Cincinnati, 1999.
- Falcone R, **Mason A.** Widened Mediastinum: The Harbinger of Severe Injury in the Trauma Patient, The Ohio State University, Department of Surgery and Grant Medical Center, Columbus, Ohio, 1997 .
  - Presentation, 36<sup>th</sup> North American Federation Congress of the International College of Surgeons, June, 1999.
  - Presentation, Landacre Research honorary in April, 1998.
- Martin D, Riley P, **Mason A.** Bronchitis and the Prescription of Antibiotics, The Ohio State University, Department of Emergency Medicine, 1996.
- Morris-Hooke A, **Mason A.** Streptococcus equi equine vaccine development for upper respiratory infections. Department of Microbiology, Miami University, 1992-94.

### **RESEARCH EXPERIENCE/STUDIES:**

- A Prospective, Double Blind Study of Retropharyngeal Anesthetic used in Anterior Cervical Disctomies and the Effect on Dysphagia. IRB approved; ongoing. **Lead Investigator.**
- A Prospective, Randomized, Double-blind, Phase II Study to Evaluate the Safety and Efficacy of Topical Thrombin (Human) Grifols as an Adjunct to Hemostasis during Vascular, Parenchymous, Soft Tissue, and Spinal Open Surgeries. Sponsor – Grifols, Inc. (2014 – present); Sub-investigator.
- A Multicenter, Prospective, Randomized Clinical Trial Using Dehydrated Human Amnion/Chorion Membrane (DHACM) in Decompressive Craniectomy Patients to Reduce Postoperative Scarring. Sponsor – MiMedx. (2013 – present). Sub-investigator
- Study of the Safety and Effectiveness of DIAM™ Spinal Stabilization System Versus Conservative Care. Sponsor – Medtronic Spinal and Biologics. (2013 – 2014). Sub-investigator.
- Prospective, Non-randomized Clinical Trial Evaluating ISYS Intracranial Robotic Navigation system. Primary site. Sponsor – Medtronic. (2012 - present). **Lead investigator.**
- Phase 3, Randomized, Single-Blind, Controlled Trial of Topical Fibrocaps™ in Intraoperative Surgical Hemostasis. Sponsor – ProFibrix Inc. (2012 – 2014). Sub-investigator
- Prospective Randomized Clinical Trial Evaluating the Effectiveness of Lower Body Positive Pressure Treadmill Training in Patients after Lumbar Microdiscectomy and Fusion Surgeries. Sponsor – Justin Parker Neurological Institute. (2012 – present). Sub-investigator.
- DuraSeal™ Spine System Post-Approval Study. Sponsor – Covidien, (2011 – present). Sub-investigator.
- Clinical Evaluation of the O-ARM Imaging System. Prospective Clinical Study. Sponsor – Medtronic. (2009 – 2011). Sub-investigator.

- Prospective Randomized Clinical Trial Comparing PEEK and Allograft Spacers in Patients Undergoing Spinal Intervertebral Fusion Surgeries. Sponsor – Justin Parker Neurological Institute. (2011 – present). Sub-investigator.
- A Radiographic and Clinical Study Evaluating a Novel Allogeneic, Cancellous, Bone Matrix Containing Viable Stem and Osteoprogenitor Cells (Trinity Evolution™ Viable Cryopreserved Cellular Bone Matrix in Posterior Lumbar or Transforaminal Lumbar Interbody Fusion. Sponsor – Orthofix Spinal Implants. (2009 – present).
- Evaluation of safety and Effectiveness of the OsseoFix™ Spinal Fracture Reduction System in Treating Spinal Compression Fracture. Sponsor – Alphatec Spine. (2009 – present). Sub-investigator.
- Clinical Evaluation of the O-ARM Imaging System. Prospective Clinical Study. Sponsor – Medtronic (2009 – 2012). Sub-investigator.

### **PROFESSIONAL MEMBERSHIPS AND CERTIFICATIONS:**

- American Board of Neurological Surgery – Board Certified.
- Congress of Neurological Surgeons (CNS), member, 2000 - present.
  - Appointed **RUC representative for neurosurgery**, 2008 - present.
- American Association of Neurological Surgeons (AANS), member, 2001 - present.
  - Ongoing **Faculty**, AANS Coding and Reimbursement Course, 2007 - present.
- American Medical Association, member (AMA), 1996 - present.
- Colorado Neurosurgical Society, 2009 - present.
- Basic life support (BLS), current certification.
- Advanced cardiac life support (ACLS), current certification.
- Class 1A Fire Fighter, State of Ohio, 1990 -1995.

### **PROFESSIONAL PHILANTHROPIC ACTIVITIES:**

- Cleveland Clinic Alumni Philanthropy Committee; appointed member. 2014-present.
- Justin Parker Neurological Institute, Secretary of the Board. 2010-present.
  - 501(c)3 focused on neurological research.

### **PERSONAL:**

- Father of three children (10 year old boy/girl twins and a 5 year-old boy).
- Interests include fly-fishing, cooking, trekking with family.
- Athletics include backcountry skiing and competition in triathlons, marathons and ultra-marathons.