



MEDIA KIT



WELCOME...

Thank you for taking the time to read about Montgomery Brain & Spine, the practice of Dr. Amin Amini, a board-certified neurosurgeon.

Dr. Amini is available to provide expert opinion and information on brain and spine conditions as well as cutting edge and traditional treatment modalities.

Enclosed is information about our practice, Dr. Amini and some of our patient highlights. I invite you to visit our website www.NeurosurgeryMD.com for more information as well as links to patient videos (also on YouTube), animations on surgical techniques, and extensive patient education on brain and spine conditions.

To arrange speaking engagements or interviews please contact our Practice Manager (contact information below).

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MONTGOMERY BRAIN & SPINE FACT SHEET

DR. AMINI WAS RECOGNIZED AS A **2012 TOP DOCTOR** BY THE RESPECTED WASHINGTONIAN MAGAZINE.

DR. AMINI TREATS PATIENTS IN **MONTGOMERY AND PRINCE GEORGE'S COUNTIES** FOR A MULTITUDE OF CONDITIONS INCLUDING: BRAIN TUMORS, SPINAL DEGENERATION, DISC HERNIATION, TRIGEMINAL NEURALGIA, SPINAL OR CRANIAL INFECTIONS, STROKES, GUN SHOT WOUNDS, TRAUMATIC BRAIN AND SPINE INJURIES.

DR. AMINI IS TRAINED IN CUTTING EDGE, **MINIMALLY INVASIVE** TECHNIQUES THAT PROVIDE SUPERIOR CLINICAL OUTCOMES WITH MINIMAL BLOOD LOSS, FASTER RECOVERY TIMES, SMALLER INCISIONS AND SHORTER HOSPITAL STAYS.

DR. AMINI HAS SERVED AS **MEDICAL DIRECTOR** OF NEUROSURGERY AT HOLY CROSS HOSPITAL AND WAS INSTRUMENTAL IN DEVELOPING THEIR NEUROSURGERY PROGRAM.

DR. AMINI COLLABORATES WITH THE HOLY CROSS RADIATION TREATMENT CENTER TO PLAN ADVANCED TECHNOLOGY **STEREOTACTIC RADIOSURGERY** FOR ONCOLOGY PATIENTS.

DR. AMINI PROVIDES NEUROSURGICAL COVERAGE FOR PRINCE GEORGE'S COMMUNITY HOSPITAL, A LEVEL IV ACTIVE **TRAUMA CENTER** IN THE AREA THAT STABILIZES AND TREATS A VARIETY OF CONDITIONS INCLUDING: GUN SHOT WOUNDS, BRAIN TRAUMA AND SPINAL CORD INJURIES.

DR. AMINI HAS GIVEN MANY LECTURES IN THE AREA TO PHYSICIANS, HEALTH CARE PROFESSIONALS AND THE GENERAL PUBLIC ON CUTTING EDGE SURGICAL TECHNOLOGIES, RECOGNIZING SPINAL CONDITIONS AND MANAGEMENT OF BRAIN TUMORS. HE HAS BEEN A **GRAND ROUNDS SPEAKER** AT WASHINGTON ADVENTIST HOSPITAL AND HOLY CROSS HOSPITAL. HE HAS ALSO PRESENTED AT AREA COMMUNITY CENTERS.

DR. AMINI'S EXTENSIVE LIST OF **PUBLICATIONS** IN NEUROSURGERY LITERATURE HAS CONTRIBUTED SIGNIFICANTLY TO ADVANCING THE TREATMENT OF BRAIN AND SPINE DISEASE.



ABOUT THE SURGEON

AMIN AMINI, MD, MSc, FAANS

Since 2008, Dr. Amini has been treating patients in the Maryland area for a variety of neurological conditions. He has served as the Medical Director of Neurological Surgery for the Neurosciences Center at Holy Cross Hospital 2008-2011 where, in addition to his clinical responsibilities, he has also instructed resident doctors, nurses and physician assistants on recognizing and managing neurosurgical conditions. In addition, Dr. Amini provides neurological trauma care at Prince George's Hospital, the busiest trauma center in the metropolitan, DC area.

Dr. Amini completed his residency and chief residency in neurosurgery at the University of Utah Medical Center. His significant research in malignant tumors of the brain and spine, traumatic cervical spine injuries, and endoscopic spine surgeries has contributed to the neurosurgical literature. He has published more than 40 scientific papers, abstracts, and chapters in prestigious neurosurgical journals and text books. Dr. Amini has served as an investigator for research into brain tumors for the National Cancer Institute.

Dr. Amini received his medical degree from Medical College of Virginia. He received his B.S. and M.S. from the University of Maryland College Park in Neurobiology and Cell Biology. Dr. Amini is board-certified by the American Board of Neurological Surgery. He is a member of the American Association of Neurological Surgeons, the Congress of Neurological Surgeons, the Washington Academy of Neurosurgery, and the Maryland Neurological Society.

His particular neurosurgical interests include:

- ❖ Minimally invasive spine surgeries
- ❖ Complex cervical and thoracolumbar spine surgeries
- ❖ Primary and metastatic brain and spinal tumors
- ❖ Stereotactic surgery
- ❖ Spinal trauma
- ❖ Traumatic Brain Injury

Active privileges at:

- ❖ Holy Cross Hospital
- ❖ Prince George's Hospital Center
- ❖ Doctors Community Hospital
- ❖ Shady Grove Adventist Hospital
- ❖ Washington Adventist Hospital
- ❖ Silver Spring Surgery Center



BRAIN & SPINE FACTS

Nearly 700,000 people in the United States are living with brain tumors, either primary or metastatic from another cancer in the body.

The National Cancer Institute (NCI) estimated that in 2012, over 60,000 new diagnoses of primary brain tumors would be made in the United States.

The NCI also estimated that in 2012, 13,700 deaths would be attributed to brain and spinal cord tumors.

Lower back pain affects an estimated 75-85% of all Americans at some time in their lives. Most incidences resolve without needing surgery but about half will recur within a year.

Spine surgery has changed immensely in the past decades with new minimally invasive surgical techniques that can treat patients as an outpatient or with much shorter hospital stays than traditional techniques.

The Center for Disease Control (CDC) estimates 1.7 million people sustain a traumatic brain injury annually. Of them, 52,000 die, 275,000 are hospitalized and 1.3 million are treated and released from an emergency department.

The CDC also estimates that traumatic brain injury is a contributing factor in a third of all injury related deaths in the United States.

The National Spinal Cord Injury Statistical Center (NSCISC) estimates there are 12,000 new cases each year of spinal cord injury.

The NSCISC also estimates there are approximately 270,000 people alive in the United States with spinal cord injury.

The CDC estimates that stroke kills nearly 130,000 American each year. It is a leading cause of death in the United States as well as long term serious disability.

DR. AMINI'S LIST OF PUBLICATIONS

PEER-REVIEWED ARTICLES

1. Stefferl A, Schubart A, Storch M, **Amini A**, Mather I, Lassmann H, Linington C. Butyrophilin, a milk protein, modulates the encephalitogenic T cell response myelin oligodendrocyte glycoprotein in experimental autoimmune encephalomyelitis. **J Immunol** 165: 2859-2865, **2000**
2. **Amini A**, Schmidt MH. Syndrome of inappropriate secretion of antidiuretic hormone and hyponatremia after spinal surgery. **Neurosurg Focus** 16(4): **2004**
3. Liu JK, Gottfried ON, **Amini A**, Couldwell WT. Aneurysms of the petrous internal carotid artery: anatomy, etiology and treatment. **Neurosurg Focus** 17(5): **2004**
4. **Amini A**, Schmidt RH. Endoscopic third ventriculostomy in adult patients: a series of 36 patients. **Neurosurg Focus** 19(6): **2005**
5. **Amini A**, Beisse R, Schmidt MH. Thoracoscopic spine surgery for decompression and stabilization of the anterolateral thoracic and lumbar spine. **Neurosurg Focus** 19(6): **2005**
6. **Amini A**, McCall TD, Osborn AG, Couldwell WT. Remote cerebellar hemorrhage. **AJNR Am J Neuroradiol.** Feb;27(2): **2006**
7. **Amini A**, Schmidt RH, Salzman KL, Chin SS, Couldwell WT. Glioblastoma multiforme of the pineal region. **J Neuro-Oncol.** April: **2006**
8. **Amini A**, Digre K, Couldwell WT. Photophobia in a blind patient: an alternate visual pathway. **J Neurosurg**, Nov;105 (5): **2006**
9. **Amini A**, Liu JK, Kan P, Walker ML, Brockmeyer DL. Cerebrospinal fluid dissecting into spinal epidural space after lumbar puncture causing cauda equina syndrome: case report. **Child's Nerv System**, Dec;22 (12): **2006**
10. Couldwell WT, Liu JK, **Amini A**, Kan P. Zygoma-sparing submandibular-infratemporal interpositional saphenous vein graft bypass for the treatment of a malignant skull base tumor: Technical note. **Neurosurgery**, Oct: **59 (2): 2006**
11. Kan P, **Amini A**, Hansen R, White GL, Walker ML, Kestle JRW. Outcomes after decompressive craniectomy for severe traumatic brain injury in children. **J Neurosurg** Nov;105(5 Suppl): **2006**
12. **Amini A**, Liu JK, Kestle JK, Disseminated medulloblastoma: case illustration. **J Neuro-Oncol**, Dec, **2006**
13. **Amini A**, Chin SS, Schmidt MH. Glioblastomatous transformation of conus medullaris ganglioglioma treated with cordectomy: Case report, **J Neuro-Oncol.** May;82(3): **2007**
14. **Amini A**, Apfelbaum RI, Schmidt MH. Chylorrhea: a rare complication of thoracoscopic diskectomy of thoracolumbar junction. **J Neurosurg Spine** Jun;6(6): **2007**
15. Kan P, Gooch, J, **Amini A**, Ploeger D, Grams, B, Oberg W, Simonsen S, Walker ML, Kestle J: Surgical treatment of spasticity in children: comparison of selective dorsal rhizotomy and intrathecal baclofen pump implantation. **Childs Nerv Syst.** Sep 5; **2007**
16. **Amini A**, Beisse R, Schmidt MH. Thoracoscopic debridement and stabilization of pyogenic vertebral osteomyelitis: Case report. **Surg Laparosc Endosc Percutan Tech.** Aug;17(4): **2007**
17. Ragel BT, **Amini A**, Schmidt MH. Thoracoscopic vertebral body replacement with an expandable cage after ventral spinal canal decompression. **Neurosurgery, Operative Nuances** Nov; 61 (5 Suppl 2) **2007**

18. **Amini A**, Kan P, Schmidt MH, Apfelbaum RI. Anterior Cervical Decompression, Instrumentation, and Fusion in Treatment of Acute Traumatic Subaxial Cervical Spine Injury: A Review of 349 Consecutive Patients. **J Neurosurg Spine** (Submitted)
19. **Amini A**, Ragel BT, Brocke D, Schmidt MH. The X-Stop :A new device with new challenges and complications. **Neurol India** (Submitted)
20. Binning MJ, Hauschild TB, **Amini A**, MacDonald JD. Delayed Post-traumatic Saccular Aneurysm of PICA in an Adolescent. **ACTA Neurosurg** Apr 2009 (Epublished ahead of print)
21. Eskandari R, **Amini A**, Yonemura KS, Couldwell WT. The use of Olympus EndoArm endoscope for spinal and skull-based transphenoidal neurosurgery. **Neurosurgery Operative Neuronces** Dec 51; (6) 2008
22. **Amini A**, Kan P, Schmidt MH, Apfelbaum RI. Bilateral cervical facet dislocation: mechanism, clinical outcomes of treatment by anterior cervical surgery: A review of 43 consecutive patients. (In progress)
23. **Amini A**, Kan P, Schmidt MH, Apfelbaum RI. Unilateral cervical facet dislocation: mechanism, clinical outcomes of treatment by the anterior cervical approach: A review of 34 consecutive patients. (in progress)
24. **Amini A**, Schmidt RH. Anatomic variation of basilar artery position in endoscopic third ventriculostomy. (in progress)
25. **Amini A**, Kan P, Brockmeyer DL. Strip Sagittal Craniectomy in Treatment of Sagittal Craniosynostosis: experience with 310 surgical procedure (in progress)
26. Bownds SE, **Amini A**, Osborn A, Hedlund G, Schmidt M, Koch B, Moore K, Dillon W, Rees J. Spinal Cord Glioblastoma Multiforme. (in progress)

CHAPTERS

1. Liu JK, **Amini A**, Orlandi R, Weiss ML, Couldwell WT: The role of the transsphenoidal surgery in the management of complex lesions involving the skull base. In **Transsphenoidal Surgery**. Laws ER Jr., Lanzino G, (ed.). Philadelphia: Elsevier
2. **Amini A**, Schmidt MH: Procedure: Thoracoscopic discectomy and instrumented fusion for thoracic discitis and osteomyelitis. **Spine Surgery: Tricks of the Trade**: [Vaccaro](#) AR, [Albert](#) TJ, (in press)

PRESENTATIONS

1. **Amini A**, Schmidt RH. Cervical cisternal shunts in patients with pseudotumor cerebri and small ventricles. **Lende Neurosurgical Meeting**, Snowbird, Utah, 2005
2. **Amini A**, Schmidt RH. Cervical cisternal shunts as an alternative to lumboperitoneal shunts, **Rocky Mountain Neurosurgical Meeting**, Snowbird, Utah, 2005
3. **Amini A**, Schmidt RH. Endoscopic third ventriculostomy in adult patients: A series of 36 patients. **Lende Neurosurgical Meeting**, Snowbird, Utah, 2006
4. **Amini A**, Schmidt RH, Salzman KL, Chin SS, Couldwell WT. Glioblastoma Multiforme of the Pineal Region. **Lende Neurosurgical Meeting**, Snowbird, Utah, 2006
5. **Amini A**, Digre K, Couldwell WT. Photophobia in a blind patient: an alternate visual pathway. **Lende Neurosurgical Meeting**, Snowbird, Utah, 2006

6. Liu JK, **Amini A**, Kan P, Couldwell WT. Zygoma-sparing submandibular-infratemporal interpositional saphenous vein graft bypass for the treatment of a malignant skull base tumor. **Lende Neurosurgical Meeting**, Snowbird, Utah, 2006
7. **Amini A**, Apfelbaum RI, Schmidt MH. Thoracoscopic discectomy of thoracolumbar junction and chylorrhea. **Rocky Mountain Neurosurgical Meeting**, Phoenix, Arizona, 2006
8. **Amini A**, Schmidt RH. Endoscopic third ventriculostomy in treatment adult hydrocephalus. **Rocky Mountain Neurosurgical Meeting**, Phoenix, Arizona, 2006 (Resident Award)
9. **Amini A**, Kan P, Schmidt MH, Apfelbaum RI. Anterior Cervical Decompression, Instrumentation, and Fusion in Treatment of Acute Traumatic Subaxial Cervical Spine Injury: A Review of 349 Consecutive Patients. **AANS/CNS Spine Section Meeting**. Phoenix, Arizona, 2007
10. **Amini A**, Ragel A, Cole C, Brodke D, Schmidt MH. X-Stop Dynamic Interspinous Decompression and Stabilization; Early Clinical Experience. **Lende Neurosurgical Meeting**, Snowbird, Utah, 2007
11. Ragel BT, Kan P, **Amini A**, Schmidt MH. Thoracoscopic Placement of Expandable Cages for Anterior Vertebral Body Reconstructions: Initial Experience. **Lende Neurosurgical Meeting**, Snowbird, Utah, 2007
12. **Amini A**, Kan P, Schmidt MH, Apfelbaum RI. Anterior cervical decompression and fusion (ACDF) and traumatic subaxial cervical spine injury (SCSI). **Lende Neurosurgical Meeting**, Snowbird, Utah, 2007
13. **Amini A**, Kan P, Walker ML, Kestle JK, Brockmeyer DL. Strip Sagittal Craniectomy in Treatment of Sagittal Craniosynostosis: experience with 310 surgical procedures. **AANS Annual Meeting**, Washington, DC. 2007
14. **Amini A**, Kan P, Schmidt MH, Apfelbaum RI. Bilateral cervical facet dislocation: mechanism, clinical outcomes of treatment by anterior cervical surgery: A review of 43 consecutive patients. **AANS/CNS Spine Section Meeting**. Orlando, Florida, 2008
15. **Amini A**. Medical Grand Rounds: Back Pain. Holy Cross Hospital, Silver Spring, MD; Nov 2008
16. **Amini A**. Holy Cross Grand Rounds: Minimally Invasive Spine Surgery, Holy Cross Hospital, Silver Spring, MD; Feb 2009
17. **Amini A**. Medical Grand Rounds: Normal Pressure Hydrocephalus. Holy Cross Hospital, Silver Spring, MD; Apr 2009
18. **Amini A**. Community Lecture: Lumbar Stenosis. Leisure World, Silver Spring, MD; Apr 2009
19. **Amini A**. Trends and Technologies in Neurosciences: Transsphenoidal Surgery. GATE Institute, Holy Cross Hospital, Silver Spring, MD; May 2009
20. **Amini A**. Trends and Technologies in Neurosciences: Advances in Minimally Invasive Spine Surgery. GATE Institute, Holy Cross Hospital, Silver Spring, MD; May 2009

ABSTRACTS

1. Stefferl A, Storch M, **Amini A**, Mather I, Lassmann H, Linington C. Milk and self tolerance: Induction of autoimmune CNS disease by a common environmental antigen. **J Neuroimmunol** 90/1, 85, 1998
2. Stefferl A, Storch M, **Amini A**, Mather I, Linington C. Cross-reactivity of myelin oligodendrocyte glycoprotein (MOG) and the milk protein butyrophilin: Implications for the aetiology of multiple sclerosis. **Proc. 26th Gottingen Neurobiology Conference**, Elsner N and Wehner R (eds) Vol II, 740, 1998
3. Rodriguez LF, Liu JK, **Amini A**, Fassett DR, Avery NC, Brockmeyer DL. A novel plate for occipitocervical stabilization in children: technical note and initial experience. **AANS/CNS Pediatric Section Meeting**, San Francisco, California, 2004

4. **Amini A**, Liu JK, Couldwell WT. Zygoma-sparing submandibular-infratemporal interpositional saphenous vein graft bypass for the treatment of a malignant skull base tumor: technical note. **AANS/CNS Cerebrovascular Section Meeting**. New Orleans. Louisiana, 2005
5. **Amini A**, Liu JK, Rodriguez LF, Klimo P Jr, Walker ML. Endoscopic placement of cyst-to-cisterna magna shunt via an infratentorial supracerebellar approach for the treatment of pineal region arachnoid cysts: technical note and report of 4 patients. **AANS Annual Meeting**. New Orleans, Louisiana, 2005
6. Bownds SE, **Amini A**, Osborn A, Hedlund G, Schmidt M, Koch B, Moore K, Dillon W, Rees J. Spinal Cord Glioblastoma Multiforme: Clinical and Imaging spectrum. **NER Foundation Symposium and ASNR 44th Annual Meeting**, San Diego, California, 2006
7. **Amini A**, Schmidt RH, Salzman KL, Chin SS, Couldwell WT. Glioblastoma Multiforme of the Pineal Region. **CNS Annual Meeting**. Chicago, Illinois, 2006
8. **Amini A**, Ragel A, Cole C, Brodke D, Schmidt MH. X-Stop Dynamic Interspinous Decompression and Stabilization; Early Clinical Experience. **AANS/CNS Spine Section Meeting**. Phoenix, Arizona, 2007
9. Cole CD, Ragel BT, **Amini A**, Schmidt MH. Anterior vertebral body reconstruction with expandable cages: evolution from open thoracotomy to endoscopic technique. **AANS Annual Meeting**, Washington, DC. 2007
10. Ragel BT, Cole CD, **Amini A**, Schmidt MH. Anterior vertebral body reconstruction from T3 to L5 with expandable cages: Initial experience. **AANS Annual Meeting**, Washington, DC. 2007
11. **Amini A**, Kan P, Schmidt MH, Apfelbaum RI. Unilateral cervical facet dislocation: mechanism, clinical outcomes of treatment by the anterior cervical approach: A review of 34 consecutive patients. **AANS/CNS Spine Section Meeting**. Orlando, Florida, 2008

ELECTRONIC PUBLICATIONS AND VIDEOS

1. Schmidt MH, Ragel BT, **Amin A**, Cole CB. Thoracoscopic vertebral body replacement with an expandable cage after ventral spinal canal decompression. Video Presentation for Digital Theater, **56th Annual Congress of Neurological Surgeons**. Chicago, Illinois, 2006
2. **Amini A**, Kimbouris A. Chylorrhea and Spine Surgery. Handbook of Spine Surgery (online, in progress).