

Curriculum Vitae

Amir A. Ahmadian, M.D.

Neurosurgeon
NeuSpine Institute

Contact Information

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Education

2015 **Neurosurgical Residency** Tampa General Hospital USF-health
2008 **M.D.**, Medical College of Georgia
2003 **B.S.**, Neuroscience & Behavioral Biology, Emory University
2001 **A.A.**, Oxford College of Emory University

Post Graduate Education

2014 – 2015 Chief Resident, Neurological Surgery, University of South Florida

2008 - 2015 Residency, Neurological Surgery, University of South Florida

2012 Clinical Fellowship (infolded), Orthopedic Surgery, Alfred I. DuPont Nemours Hospital for Children (Director: Dr. Suken Shah)

Special Training

2012 Special Training, Pediatric Neurosurgery, All Children's Hospital, Johns Hopkins Medicine (Jan-July)

2013 Special Training, Neurosurgical Oncology, Moffitt Cancer Center (June-Oct)

2014 Special Training, Pediatric Spine deformity, Shriners' Hospital for Children, Tampa (June 2014 – July 2015)

Certifications

2009 Diplomat, National Board of Medical Examiners
2012 Clinical Fellow, Pediatric Spine Deformity and Scoliosis

Medical Licensures

Active Florida

Employment History

- 10/17 – Present **NeuSpine Institute**
Practicing Neurosurgeon
- 6/15 – 10/17 **Neurosurgery of West Florida.**
Practicing Neurosurgeon
- 6/12-5/14 **James A. Haley Veterans Affairs Hospital department of Neurosurgery,**
chart review
- 7/03-7/04 **Clinical (Neuro – Imaging) Research Specialist, EMORY UNIVERSITY**
Under Dr. Butler at Emory University Hospital department of Rehabilitation
Medicine I worked on the national clinical trial called “EXCITE.” Modalities
included transcranial magnetic stimulation (TMS), fMRI and statistical
parametric mapping. The data resulted in a publication and national conference
poster.
- 8/01-7/03 **Research Specialist, Department of Pharmacology EMORY UNIVERSITY**
Under Dr. Yue Feng at Emory School of Medicine Department of Pharmacology.
I undertook 4 projects involving molecular neuro– pharmacology of Fragile-X
syndrome (techniques included PCR, RT-PCR, enzymatic reactions, northern
blot, western blot, DNA/RNA cloning, and cell culture). Data resulted in two
publications and two national conference presentations.

Appointments / Nomination

- 2016-Present Neurosurgical Liaison & Neuro-Critical Care, RMCBP Trauma

Professional Society Membership

- 2009-present General Member, Congress of Neurological Surgeons
- 2009-present General Member, American Association of Neurological Surgeons
- 2011-present General Member, Southern Neurosurgical Society
- 2015-present General Member, Florida Neurosurgical Society
- 2006-2011 **αφα** Medical Honors Society
- 2005-present General Member, American Medical Association

Research Experience

- 2012-2013 Minimally Invasive/ Deformity Spine Research Fellowship
Project: Clinical research in minimally invasive spine surgery
Department: Neurosurgery, University of South Florida, Tampa, FL
Principle Investigator: Dr. Juan Uribe MD
- 2005-2007 Medical Student Summer Research
Project: Accuracy of Stereotactic Surgery
Department: Neurological Surgery, Emory University, Atlanta, GA
Principle Investigator: Dr. Robert E. Gross M.D. Ph.D.
- 2003-2004 Research Specialist
Project: EXCITE phase 3 trials (transcranial magnetic stimulation with stroke
rehabilitation) Department: Rehabilitation Medicine, Emory University, Atlanta,
GA (June 2003-May 2004) Principle Investigator: Dr. Stephen L. Wolf ph.D.

2001-2003 Research Specialist
Project 1: FMRP gene expression in oligodendrocyte progenitors (fragile X syndrome) Project 2: Quacking viable mutation in myelin producing cells.
Department: Department of Pharmacology , Emory University, Atlanta, GA
Principle Investigator: Dr. Yue Feng M.D. Ph.D.

Honors And Awards

- Society for Minimally Invasive Spine Surgery; first place oral presentation
- Medical Honors Society: Alpha Omega Alpha
- Neuroscience Honors Society: Nu Rho Psi
- Academic Honors Society: Alpha Epsilon Upsilon
- Superior Violin ensemble {GA southeastern Competition} (1998)

Service

2005 Health People Atlanta health fair
2004 Medical Mission, Honduras, Catarina hospital, san perdo sula
2002 Emory Neuromuscular Clinic
2002 Salvation Army, Atlanta GA
1999-2001 Hands on Atlanta
1999-2000 Volunteer EMS/EMT

Teaching Service

Undergraduate Student Teaching

2002 Supplemental Instructor, Chemistry, Oxford College

Medical Education Teaching

2016-present Regional Medical Center Bayonet Point Residency Neuro-Critical Care Faculty
2014-2015 Co-Chief of Clinical and Surgical Resident Education (Chief Year)
2014 Instructor Departmental Education Course, Spine Instrumentation Techniques
2012-2013 Co-director Departmental Resident Education, Department of Neurosurgery
2011-2014 Research mentor for Medical Students, clinical research in Neurosurgery
2006-2008 Mentor for Medical Student, special interest Neurosurgery

Publications

Peer-reviewed journal articles

1. Konrad Bach, **Amir Ahmadian**, Armen R. Deukmedjian, Juan Uribe., Minimally Invasive Surgical Techniques in Adult Degenerative Spinal Deformity: A systematic Review. Clin Orthop Relat Res, June 2014 PMID: 24488750
2. **Amir Ahmadian**, Konrad Bach, Bryan Bolinger, Gregory Malham, David Okonkwo, Adam Kanter, Juan Uribe, Stand-alone Minimally Invasive Lateral Lumbar Interbody Fusion: clinical outcomes, JNS-Spine (submitted 2014)
3. Michael S. Park, Armen R. Deukmedjian, **Amir Ahmadian**, Juan Uribe., Global Sagittal Balance: Experience with the Lateral Retroperitoneal Approach, Contemporary Neurosurgery, (Submitted October 2013)
4. **Amir Ahmadian** and Juan Uribe., Mini-open Lateral Retro-pleural Thoracic Corpectomy for Osteomyelitis, JNS-focus: video supplement; August 2013.PMID: 23829847
5. Armen R. Deukmedjian, **Amir Ahmadian**, Konrad Bach, Alexandros Zouzas, Juan Uribe., Minimally Invasive Lateral Approach for Adult Degenerative Scoliosis: lessons learned, JNS-focus, August 2013 PMID: 23905955
6. **Amir Ahmadian**, Jotham Manwaring, Devon Truong, Jeane McCarthy, Luis Rodriguez, Carolyn Carey, Gerald F. Tuite., Accidental Intracranial Infusion of Parenteral Nutrition in a preterm Neonate: *a case based review*. (in revision 2013)
7. Armen R. Deukmedjian, **Amir Ahmadian**, Juan Uribe., Minimally Invasive Treatment of Spinal Deformity in High Risk Patients. SpineUniverse August 2013.
8. **Amir Ahmadian**, Sean Verma, Gregory Mundis, Rod Oskouian, Donald Smith, Juan Uribe., MIS-lateral Retroperitoneal Transpsoas Interbody Fusion for L4/L5 Spondylolisthesis: *Clinical outcomes*. JNS-spine July 2013 PMID: 23889186
9. Jotham Manwaring, **Amir Ahmadian**, Stacie Stapleton, Ignacio Gonzalez-Gomez, Luis Rodriguez, Carolyn Carey, Gerald F. Tuite., Pediatric Microcystic Meningioma: a clinical, histological and radiographic case based review. Child Nerv Syst 2013. PMID:23250249
10. **Amir Ahmadian**, Armen R. Deukmedjian, Naomi Abel, Elias Dakwar, Juan S. Uribe., Analysis of Lumbar Plexopathies and Nerve Injury after Retroperitoneal Transpsoas Approach: *diagnostic standardization and review*. JNS-spine 2013 PMID: 23259543
11. **Amir Ahmadian**, Naomi Abel, Juan S. Uribe; Functional Recovery of Severe Obturator and Femoral nerve Injuries after Lateral Retroperitoneal Transpsoas Surgery, JNS-spine 2013 PMID: 23432325
12. Jotham Manwaring, Konrad Bach, **Amir Ahmadian**, Armen R. Deukmedjian, Smith D and Uribe J., Management of Sagittal Balance in Adult Spinal Deformity with the Minimally Invasive Anterolateral Lumbar interbody fusion: a radiographic study. March 2014. PMID: 24628129
13. Deukmedjian A., Dakwar E., **Ahmadian A**, Smith D and Uribe J.; Early Outcomes of Minimally Invasive Anterior Longitudinal Ligament Release for Correction of Sagittal Imbalance in Patients with Adult Spinal Deformity. Scientific World Journal. JNS-spine 2012 PMID: 23304089
14. **Ahmadian A**, Mizzi A, Banasiak M, Downes K, Camporesi EM, Thompson Sullebarger J, Vasan R, Mangar D, van Loveren HR, Agazzi S. Cardiac manifestations of subarachnoid hemorrhage. Heart Lung Vessel. 2013 PMID: 24364008
15. Dakwar E., **Ahmadian A.**, Uribe J., The anatomic relationship of the diaphragm to the thoracolumbar junction during the minimally invasive lateral extracolumbic (retropleural/retroperitoneal) approach. *J Neurosurgery Spine*, Jan 2012. PMID:22225484
16. **Amir Ahmadian**, Elias Dakwar, Fernando L. Vale, Juan S. Uribe. Occipitocervical Fusion via Occipital Condylar Fixation: *A Clinical Case Series*. J Spinal Disord Tech. June 2014.PMID: 24866907

17. **Ahmadian A.**, Tuite G., Garcia M., Baaj A., Carey C., Rodriguez L., Storrs B., Decompressive Craniectomy with Massive Intractable Intraoperative Cerebral Edema: Utilization of Silicone sheet for temporary scalp closure. *JNS peds* 2012
PMID:22793163
18. Youssef A.S., **Ahmadian A.**, Ramos E., Vale F., Van Loveren H., Combined Subgaleal/Myocutaneous Technique for Temporalis Muscle Dissection, *Journal of neurological surgery skull base* 2012.
19. Vale FL, **Ahmadian A**, Youssef AS, Tatum WO, Benbadis SR. Long-term outcome of vagus nerve stimulation therapy after failed epilepsy surgery. *Seizure*. 2011 Apr;20(3):244-8. Epub 2010 Dec 31. PMID: 21196125
20. Lulic D, **Ahmadian A**, Baaj AA, Benbadis SR, Vale FL. Vagus nerve stimulation. *Neurosurg Focus*. 2009 Sep;27(3):E5. PMID: 19722820
21. Rahimi SY, McDonnell DE, **Ahmadian A.**, Vender JR. Medieval Neurosurgery : Contribution from the Middle East, Spain and Persia. *Neurosurgery Focus* 23 (1): E14 July 2007. PMID: 17961054
22. Wang H., Ku L., Osterhout D., Li W., **Ahmadian A.**, Zifan L., and Feng Y. Developmentally-programmed FMRP expression in oligodendrocytes: a potential role of FMRP in regulating translation in oligodendroglia progenitors. *Human Molecular Genetics*, 13: 1, pg 79-89, 2004.
23. Zifan L., Zhang Y., Ku L., Wang H., **Ahmadian A.**, and Feng Y. The quaking viable mutation affects qkl mRNA expression specifically in myelin-producing cells of the nervous system. *Nucleic Acids Research*, 31:15 4616-4624. 2003.

Abstracts/Presentation

Amir Ahmadian, Armen R. Deukmedjian, Konrad Bach, Juan S. Uribe, “ Stand-Alone Lateral Interbody Fusion: Clinical Outcomes”; Southern Neurological Society; Oral presentation San Juan, Puerto Rico Feb 2014

Armen R. Deukmedjian, Konrad Bach, **Amir A. Ahmadian**, Micheal S. Park, Juan S. Uribe, “ Percutaneous Wireless Pedicle Screw Placement: Initial clinical experience”; Society for Minimally Invasive Spine Surgery; Oral presentation Las Vegas 2013.

Blazej A Pruszczynski, **Amir Ahmadian**, Klane K. White, William Mackenzie, “Spinal Cord Injury Following Extremity Surgery In Children With Thoracic Kyphosis: Case Series” POSNA 2013.

Amir Ahmadian, Armen R. Deukmedjian, Konrad Bach, Juan S. Uribe, “ MIS Lateral Approaches for Adult Spinal Deformity: when & how”; Society for Lateral Access Surgery; Oral presentation San Diego 2013.

Amir Ahmadian, Alex Zouzias, Juan S. Uribe, “ MIS Retro-pleural Approach in the Treatment of Giant Calcified Thoracic Disc; Society for Lateral Access Surgery; Oral presentation San Diego 2013.

Amir Ahmadian, Armen R. Deukmedjian, Naomi Abel, Juan S. Uribe., Analysis of Lumbar Plexopathies and Nerve Injury after Retroperitoneal Transpsoas Approach; AANS spine section; oral presentation Arizona 2013.

Amir Ahmadian, Sean Verma, Gregory Mundis, Rod Oskouian, Donald Smith, Jaun Uribe., MIS-lateral Retroperitoneal Transpsoas Interbody Fusion for L4/L5 Spondylolisthesis: *Clinical outcomes*. AANS; Digital Poster Arizona 2013

Amir Ahmadian, Armen R. Deukmedjian, Naomi Abel, Juan S. Uribe., Analysis of Lumbar Plexopathies and Nerve Injury after Retroperitoneal Transpsoas Approach: *diagnostic standardization*; Society for minimally invasive spine surgery (SMISS); oral presentation Miami,FL 2012

A. Samy Youssef M.D., Ph.D. **Amir Ahmadian M.D.**, Edwin Ramos M.D., Fernando Vale M.D., Harry R. van Loveren, M.D., Combined Subgaleal/Myocutaneous Technique for Temporalis Muscle Dissection. Congress of Neurosurgery;2012 PMID: 24294555

Z. Lu, H. Wang, **A.A. Ahmadian**, Y. Feng. DEVELOPMENTAL EXPRESSION OF QKI ISOFORMS IN WILD TYPE AND QUAKING VIABLE DYSMYELINATION MUTANT MICE. Program No. 728.13.2002 Presented at the annual **Society for Neuroscience** conference, Orlando Florida 2002.

H. Wang, L. Ku, **A.A. Ahmadian**, W. Li, Y. Feng. EXPRESSION AND RNA-BINDING IN OLIGODENDROCYTE DEVELOPMENT. Program No. 819.6.2002.” Presented at the annual **Society for Neuroscience** conference, Orlando Florida 2002.

Bate BG, **Ahmadian A** Mewes K, Bate SL, Gross RE. “Accuracy of frame and frameless stereotactic platforms: a comparison of four guidance systems”. Poster presented at American Association of Neurological Surgeons, Annual Meeting, San Francisco, CA, April 2006.

Butler, A.J., **Ahmadian, A.A.**, Ko,J., Inkster, D., Cavalheiro, V., Sathian, K., Wolf, S.L. “Can constraint induced therapy improve upper extremity function and produce change in TMS map parameters in patients with sub-acute stroke: preliminary findings?” Presented at the 34th annual **Society for Neuroscience** conference, San Diego 2004.

Book Contributions

1. Amir Ahmadian, Elias Dakwar, Jaun Uribe. Adult spinal deformity. In: Mark S. Greenberg. *Handbook of Neurosurgery*. Tampa, FL: Greenberg Graphics, Print. 2014
2. Amir Ahmadian, Neomi Abel, Elias Dakwar, “ Injuries to the Nerves of the Abdominopelvic Region” Sunderland’s Nerves and Nerve Injuries (in press 2014)
3. Amir Ahmadian, Armen Deukmedjian, and Juan Uribe, "Chapter 79: MIS Tubular Posterior Lumbar Decompressive Techniques." *Spine Surgery: Tricks of the Trade*. New York: Thieme,
4. Amir Ahmadian, Juan Uribe and Ali Baaj "Chapter 78: Mini Open Posterior Retro-Pleural Approach for Thoracic Corpectomy *Spine Surgery: Tricks of the Trade*. New York: Thieme, (2014)
5. Minimally Invasive Spinal Deformity Surgery: An evolution of modern techniques. Chapter 28. Stand alone surgery for spinal deformity 2013.

6. Complication of Instrumentation: infection. 2013
7. Encyclopedia of Otolaryngology, Head and Neck Surgery: Amir Ahmadian, M.D, Angela Downes, M.D., A. Samy Youssef M.D., Ph.D. Cranial Nerve Monitoring : *VIII, IX, X, XI*. 2013
8. Encyclopedia of Otolaryngology, Head and Neck Surgery: Angela Downes, M.D., Amir Ahmadian, M.D, A. Samy Youssef M.D., Ph.D. Intraoperative Neurophysiologic Monitoring of the Facial Nerve: *VII*, 2013
9. Amir Ahmadian & Fernando Vale. Spondyloarthropathies. In: Baaj, Ali A. *Handbook of Spine Surgery*. New York: Thieme, 2012. Print.
10. Amir Ahmadian. Cavernous Malformations. In: Mark S. Greenberg. *Handbook of Neurosurgery*. Tampa, FL: Greenberg Graphics, 2010. Print.

Certificates of Training

- 2015 Paradigm Spine – Coflex
- 2015 Surgical Coding Course
- 2015 Nuvasive Advanced Lateral Access Course (anterior column release)
- 2014 NREF; Peripheral Nerve and Spine Deformity Course
- 2014 Depuy Spine leaders Workshop: Clinical Management of Spinal Deformity
- 2013 USF Medical Competency Course Series: Sleep Deprivation, Medical Errors, Professionalism, Systems Based Practice, Patient Safety
- 2011 USF Neurologic & Neurosurgical Therapeutics
- 2010 Medtronic Spine MIS/Deformity/Tumor Simulation Course
- 2008 USF Posterior Cervical Simulation Course
- 2008 Facet Fixation System Surgeons Course