

## CURRICULUM VITAE

### Arthur Grigorian, M.D., PhD

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DATE OF BIRTH: June 26, 1963

#### CURRENT POSITION

Georgia Neurosurgical Institute  
840 Pine Street, Suite 880  
Macon, GA 31210 2000-Present

#### ACADEMICAL POSITION

Clinical Associate Professor  
Department of Surgery  
Mercer University, Macon, GA 5/2001-Present

#### FELLOWSHIP

Fellowship in Endovascular  
neurosurgery 1/2009-2/2011  
LSU –MCCG  
Department of neurosurgery

#### Cerebro-vascular fellow

Albert Einstein College of Medicine  
Beth Israel Hospital  
New York, NY 1999-2000  
Chairman: Eugene S. Flamm MD

RESIDENCY:

Chief Resident in Neurological Surgery  
 UMDNJ-New Jersey Medical School  
 Newark, New Jersey  
 Chairman: Peter W. Carmel 1998-1999

Resident in Neurological Surgery  
 UMDNJ-New Jersey Medical School  
 Newark, New Jersey  
 Chairman: Peter W. Carmel 1995-1998

Intern in General Surgery  
 UMDNJ-New Jersey Medical School  
 Newark, New Jersey 1994-1995

Resident in Neurological Surgery  
 N.N.Burdenko Scientific Research Institute of  
 Neurosurgery,  
 Academy of Medical Science,  
 Moscow, Russia. 1987-1991

EDUCATION/BOARDS

PHD- NIH Rep. of Armenia -defended  
 "Unruptured intracranial aneurysms" 2005

American Board of Neurological Surgeons 2004

European Neurosurgical Board 2002

FLEX Examination 1993

United States Medical Licensing Examination 1993

M.D.  
 State Medical Institute 1987  
 Yerevan, Armenia (form. USSR)

ADDITIONAL SPECIALITY COURSED ATTENDED

AO ASIF comprehensive spinal course

Feb-March 2003

AO ASIF interactive spinal course	Feb 2004
AO ASIF Spine masters course	Dec 2005

OTHER MEDICAL EXPERIENCE:

Research Assistant Vascular Research Lab Englewood Hospital Englewood, New Jersey	6/92-12/93
Neurosurgical Fellowship MCCG Macon, Georgia	1/94-7/94
EMT Paramedic Yerevan, Armenia (form. USSR)	1982-1987
Earthquake relief team, Armenia	1988

LICENSURE

Georgia Medical License	048632
New Jersey Medical License	MA 67143
New York State Limited Permit DEA #	BG 6282862

MEMBERSHIPS

Cerebrovascular Section (CNS)  
World Federation of Neurological Surgeons  
Congress of Neurological Surgeons  
American Association of Neurological Surgeons  
European Neurosurgical Association  
American Heart/Stroke Association  
American Medical Association  
Bibb County Medical Association  
AO Spine International  
AO ASIF Alumni (association for the study of the internal fixation)

PUBLISHED ABSTRACTS

1. **Grigorian, A**, Wertherington C, Warejcke D, McClendon R, Lucas P, Naka - Misradi E, Robinson J.S: "The Influence of Gelfoam and Blood on the Formation of Laminectomy Membrane in the Rats"-XXIX World Congress of International College of Surgeons, London, UK, 1994.
2. **Grigorian A**, Jameel I, Warejcka D., Lucas P., McLendon R., and Robinson, JS: "Observation of anterior scar formation following lumbar laminectomy in the rat", Video presentation. 10th European Congress of Neurosurgery, Berlin, May 1995.
3. Maniker A, **Grigorian A**, Cifelli J: "Routine 24 hours follow up head CT in the trauma patient. Is it necessary?" The American Association of Neurological Surgeons, 1995 Annual Meeting.
4. Shulder M, **Grigorian A**, Hunt D, ManikarA:"Anterior Cervical Instrumentation: Experience with the Caspar and Synthes Systems". Congress of Neurological Surgeons, 45th Annual Meeting, San Francisco, CA, October 1995.
5. **A. Grigorian**. A.Maniker, C.Vaicys "Prognostic Significance of Diabetes Insipidus in Civilian Gunshot Wounds to the Head". 7th Baltic Neurosurgical Congress, Vilnius, Lithuania, 1997, p56.
6. **A. Grigorian**, C. Vaisys, A. Manikar: "Different Protocols for the Management of Traumatic Brain Injury and their Effect on Outcome". 7th Baltic Neurosurgical Congress, 1997, p57
7. **Grigorian A**, Hunt CD: "Iatrogenic Intracranial Aneurysms." AANS/CNS Section on Cerebrovascular Surgery Annual Meeting, Orlando, Florida, February 1998.
8. Robert F. Heary, Leo J. Wolansky, Satish Doddakashi, **Arthur A. Grigorian**, John F. Godinsky : "Vertebral Endplate "Pseudosparring"-Definition of an MRI Artifact in Osteomyelitis. American Association of Neurological Surgeons Annual Meeting, Philadelphia, Pennsylvania, April, 1998
9. Robert Heary, **Arthur Grigorian**: "Ventral Thoracic Corpectomy" The American Association of Neurological Surgeons, Annual Meeting, New Orleans, 1999.

10. **Arthur Grigorian**, Robert Heary, Richard Schlenk, Cheslovas Vaicys: "The risk factors associated with invasive intracranial monitors" CNS annual meeting, Boston, MA, 1999.
11. **Arthur Grigorian**, Richard P.Schlenk, Alvin Marcovici, Ceslovas Vaicys, Robert Heary, Peter W. Carmel: "Prospective analysis of the incidence of infection of tunneled vs. bolt type intracranial monitoring devices". The American Association of Neurological Surgeons, Annual Meeting, San Francisco, CA, 2000
12. Vaicys C, Roth PA, **Grigorian A**: Lateral BAK Lumbar Interbody Fusion. Annual Meeting of the American Association of Neurological Surgeons. San Francisco, CA, April, 2000
13. **Arthur A.Grigorian**, Alvin Marcovici, Jenny Pirks, Al Delos-Reyes: "Anterior Cervical Discectomy without Fusion: Assesment of Patient Satisfaction", CNS Annual Meeting, September 2000.
14. **Arthur A. Grigorian**, Alvin Marcovichi, Eugene S. Flamm: "The Multifactorial Analysis of the Surgical Outcome in Patients with Unruptured Cerebral Aneurysms", AANS Annual Meeting, 2001.
15. **Arthur A. Grigorian**, Eugene S. Flamm:" Unruptured Ophthalmic Segment Aneurysms-Analysis of Outcome", 8<sup>th</sup> WAMC, Toronto, Canada, 2001.
16. K.N. Fointas, E.Z. Kapsalaki, P.Chandler, C.H.Feltes, A.A. **Grigorian**, J.S. Robinson, M.Castrezana "The Role of MgSO<sub>4</sub> Intravenous Administration in the Prevention and Treatment of Vasospasm in Patients with Spontaneous Subarachnoid Hemorrhage," 39<sup>th</sup> World Congress of Surgery, Brussells, Belgium August 26-30, 2001
17. **Arthur A. Grigorian**, Eugene S. Flamm "Surgical Outcome in Large and Giant Unruptured Intracranial Aneurysms", CNS 51<sup>st</sup> Annual Meeting, San Diego, CA
18. Suren Zohrabyan, **Arthur Grigorian** " Armenian Neurosurgery: Historical Perspective", AANS Annual Meeting, San Diego, CA, 2003
19. Carlos Feltes, Vassilios Dimopoulos, Rostislav Davidov, Nisreen Jallad, Mossafar Kassam, Christopher Troup, Joe S Robinson, **Arthur Grigorian** "Retrospective Analysis of Outcome of Patients with Severe Head Injury Treated with 3% Hypertonic Saline" CNS 51<sup>st</sup> Annual Meeting, San Diego, CA, 2003

20. Kostas N. Fountas, Carlos Feltes, Vassilios Dimopoulos, **Arthur Grigorian**, Manuel Castrezana, Joe S Robinson “Intravenous Administration of MGSO4 for the Prevention and Treatment of Vasospasm in Patients with Spontaneous Subarachnoid Hemorrhage” AANS Annual Meeting, San Diego, CA, 2003
21. Andronyk Kalaijian, **Arthur Grigorian**, Vigen Sahakyan, “Intracranial Hydatid Disease:Review of 11 Cases”, AANS Annual Meeting, San Diego, CA, 2003
22. Vassilios Dimopoulos, Carlos Feltes, Kostas Fountas, Rostislav Davidov, Nisreen Jallad, Robert Vogel, Mossafar Kassam, Kim Johnnton, Hugh Smisson, Joe S Robinson, **Arthur Grigorian**:”Continuous Intraoperative Electromyographic Monitoring of Recurrent Laryngeal Nerve using a Newly Described Scale” AANS Annual Meeting, San Diego, CA, 2003
23. A. Ragauskas, Vassilios Dimopoulos, Carlos Feltes, Kostas Fountas, Rostislav Davidov, **Arthur Grigorian**, Kim Johnnton, Hugh Smisson, Christopher Troup, Joe S Robinson:”Ultrasound Non-Invasive Cerebrovascular Autoregulation Monitoring Technique Compared with Standard Invasive Technique in Patients with Severe Closed Head Injury” AANS Annual Meeting, San Diego, CA, 2003
24. “Continuous intraoperative electromyographic monitoring of recurrent laryngeal nerve using a newly described scale. V.G.Dimopoulos, C.H.Feltes, K.N.Fountas, R. Davydov, R.Vogel, H.F.Smisson, K.W.Johnston, J.S.Robinson, **A.Grigorian**. 12th European Congress of Neurosurgery, September,2003, Lisbon,Portugal.
25. “Comparison of a new non-invasive ultrasonic technology and standard invasive intra-cranial pressure monitoring in the evaluation of cerebrovascular auto-regulation in patients with severe closed head injury” K.N.Fountas,V.G.Dimopoulos,C.H.Feltes, M.Kassam,R.Davydov,**A.A.Grigorian**,K.W.Johnston,H.F.Smisson,E.C.Troup,J.S.Robinson,A.Ragauskas.12th European Congress of Neurosurgery, September,2003, Lisbon,Portugal.
26. “Retrospective analysis of long term surgical outcome of elderly patients undergoing spinal surgery” V.G.Dimopoulos,C.H.Feltes,

M.Kassam,R.Davydov,K.N.Fountas,,J.S.Robinson,A.Ragauskas.,  
Grigorian AA12th European Congress of Neurosurgery,  
September,2003, Lisbon,Portugal.

27.Arthur A Grigorian: Effect of addition of a newly trained cerebrovascular surgeon on a large private group” AANS/CNS 7<sup>th</sup> joint annual meeting Serebrovascular Section and American Society of interventional and therapetic neuroradiology, San Diego, 2004

28.Dimopoulos, Feltes, Fountas, Robinson, Grigorian:”The correlation of admission Hunt and Hess grade with Modified Rankin Outcome Scale in patients with spontaneous subarachnoid hemorrhage”, AANS/CNS 7<sup>th</sup> joint annual meeting Serebrovascular Section and American Society of interventional and therapetic neuroradiology, San Diego, 2004

29. Dimopoulos, Feltes, Fountas, Robinson, Grigorian:” A proposed scale for the assessment of third nerve paresis associated with non-ruptured posterior communicating artery aneurysm”, AANS/CNS 7<sup>th</sup> joint annual meeting Cerebrovascular Section and American Society of interventional and therapetic neuroradiology, San Diego, 2004

30. Karampelas, Fountas, Fjordback, Feltes, Robinson, Grigorian:  
“Neuropsychological status and overall functional capacity of patients undergoing surgery for cerebral aneurysm. Apparent discrepancy between modified Rankin scale-based assessment and true psychological quality of living of these patients. I Karampelas, KN Fountas, T Fjordbak, CH Feltes, JS Robinson, AA Grigorian. CNS 54<sup>th</sup> Annual Meeting San Francisco, CA, USA

31. The Use of Non-invasive Trans-cranial Ultrasound Device in Patients Diagnosed with Brain Death. KN Fountas, A Sitkauskas, VG Dimopoulos, T Machinis, CH Feltes, AA Grigorian, A Ragauskas, JS Robinson. 13<sup>th</sup> World Congress of Neurological Surgery, Marrakesh, Morocco, June 2005.

32. Retrospective Analysis of Intraoperative Electrophysiologic Monitoring Findings in Patients Undergoing Anterior Cervical Discectomy and Fusion (ACDF) V Dimopoulos, I Chung, KN Fountas, T Machinis, C Feltes, M Kassam, JS Robinson, AA Grigorian. 55<sup>th</sup> Annual Congress of Neurological Surgeons, Boston, MA, USA, October 2005

33. Anterior Screw Stabilization for Surgical Management of Type II and Rostral Type III Acute Odontoid Fractures. KN Fountas, TG Machinis, EZ Kapsalaki, LG Nikolakakos, CH Feltes, AA Grigorian, KW Johnston, JS Robinson, HF Smisson. EANS Winter Meeting, Luxembourg, February 2006
34. Vertebral Artery Injury Diagnosed with Computed Tomographic Angiography in Patients Harboring Blunt Cervical Spine Trauma. VG Dimopoulos, KN Fountas, TG Machinis, CH Feltes, JS Robinson, AA Grigorian. AANS/CNS Section on Disorders of the Spine, Orlando, FL, March 2006
35. C-Reactive Protein as a Predictive Outcome Marker in Aneurysmal Subarachnoid Hemorrhage. KN Fountas, TG Machinis, M Kassam, V Dimopoulos, C Feltes, AA Grigorian, JS Robinson. 2006 AANS/CNS Cerebrovascular Section & ASITN Annual Meeting, Orlando, FL, February 2006
36. Positional peripheral nerve injury in spine surgery; Is there a potential role for intraoperative monitoring? VG Dimopoulos, I. Chung, A. Grigorian, EANS Winter meeting, Luxemburg, Feb. 2006
37. The current state of cooperation between YSMU and Mercer university School of Medicine. Arthur Grigorian, Second International Medical Congress of Armenia, Abstract Book, p 98, 2007

#### JOURNAL ARTICLES

1. **Grigorian A**, Rajaraman V, Hunt CD: "Traumatic Intracranial Aneurysms Complicating Anterior Skull Base Surgery". *The Journal of Cranio-Maxillofacial Trauma* 1998; 4(3):10-14.
2. Lee HJ, Kalnin AJ, Holodny AI, Schulder M, **Grigorian A**, Sharer LR. "Hemorrhagic Chondroid Chordoma Mimicking Pituitary Apoplexy." *Neuroradiology*, (1998) 40:720-723.
3. Vaicys C, Schulder M, Singletary L, **Grigorian A**: Tumoral Calcinosis of the Lumbar Spine. *J Neurosurg (Spine)* 1999



4. Ceslovas Vaicys, Roy D. Vingan, Patrick Roth, **Arthur Grigorian.**”Splitting of the tentorium leaves through orbital injury”. *The Journal of Trauma*. Vol.49, No7, 2000
5. Eugene Flamm, **Arthur Grigorian**, Alvin Marcovici. ”The multifactorial analysis of the surgical outcome in the patients with unruptured middle cerebral artery aneurysms”. *Annals of Surgery*. Vol. 232, No 4, 2000.
6. **Arthur Grigorian**, Eugene Flamm “Unruptured Internal Carotid Artery Aneurysms”-“ *Book of Proceedings*” for the 12<sup>th</sup> World Congress of Neurosurgery, 2001.
7. Heary RF, Vaicys C, **Grigorian AA:** “Twinning of the cervical root, mimicking a neoplasm”, *J Neurosurg, (Spine)* 97:398, 2002
8. **Arthur A. Grigorian**, Alvin Marcovici, Eugene Flamm: “Intraoperative factors associated with surgical outcome in patients with unruptured cerebral aneurysms:the experience of a single surgeon”, *J Neurosurg*, volume 99, September 2003.
9. K.N.Fountas, E.Z. Kapsalaki, C.N. Feltes, H.F. Smisson, K.W. Johnston, **A. Grigorian**, J.S.Robinson: “Diassociation between intracranial and systemic temperatures as an early sign of brain death”. *Journal of neurosurgical anesthesiology*, Vol 15. No2, 87-89, 2003
10. Comparison of a new non-invasive ultrasonic technology and standard invasive intra-cranial pressure monitoring in the evaluation of cerebrovascular auto-regulation in patients with severe closed head injury. KN Fountas, VG Dimopoulos, CH Feltes, M Kassam, R Davydov, AA Grigorian, KW Johnston, HF Smisson, EC Troup, JS Robinson, A Ragauskas. *Proceedings of the 12th European Congress of Neurosurgery*. Monduzzi Editore, October 2003, pg 465-476.
11. Spinal surgery outcome in elderly patients. VG Dimopoulos, CH Feltes, M Kassam, R Davydov, KN Fountas, AA Grigorian, JS Robinson, A Ragauskas. *Proceedings of the 12th European Congress of Neurosurgery*. Monduzzi Editore, October 2003, pg 807-812.
12. Correlation of recurrent laryngeal nerve intraoperative

electromyographic monitoring findings with postoperative findings in patients undergoing anterior cervical discectomy. VG Dimopoulos, CH Feltes, KN Fountas, M Kassam, R Davydov, R Vogel, KW Johnston, HF Smisson, AA Grigorian, JS Robinson. Proceedings of the 12th European Congress of Neurosurgery. Monduzzi Editore, October 2003, pg 899-903.

13. Does Intraoperative EMG Monitoring in Lumbar Microdiscectomy Correlate with Postoperative Pain? VG Dimopoulos, CH Feltes, KN Fountas, IZ Kapsalakis, RL Vogel, B Fuhrmann, AA Grigorian, KW Johnston, HF Smisson 3rd, JS Robinson. Southern Medical Journal Aug 2004;97(8):724-8
14. Dimopoulos V, Fountas K, Kassam M, Feltes C, Vogel R, Robinson JS, Grigorian A: "Effect of advance age in subjective surgical outcome of patients undergoing spine surgery" South Med J, 2005 May; 98(5):579-80
15. Fountas KN, Sitkauskas A, Feltes CH, Kapsalaki EZ, Dimopoulos VG, Kassam M, Grigorian AA, Robinson JR, Ragauskas A: "Is non-invasive monitoring on intracranial pressure waveform analysis possible? Preliminary results of a comparative study of non-invasive vs. invasive intracranial slow-wave waveform analysis monitoring inpatients with traumatic brain injury" Med Sci Monit Feb; 11(2): CR 58-63
16. Vassilios G Dimopoulos, Kostas N Fountas, Carlos H Feltes, Joe Sam Robinson, Arthur A Grigorian: "Literature review regarding the methodology of assessing third nerve paresis associated with non-ruptured posterior communicating artery aneurysms" Neurosurg Rev (2005) 28:256-260.
17. Vassilios G Dimopoulos, Kostas N Fountas, Theofilos G Machinis, Carlos H Feltes, Induk Chung, Kim Johnston, Joe Sam Robinson and Arthur A Grigorian: "Postoperative cauda equine syndrome in patients undergoing single –level lumbar microdiscectomy" Report of two cases, Neurosurg Focus 19 (2):E11, 2005
18. Grigorian AA "Correlation of postoperative outcome with severity of the third nerve paresis in patients with non-ruptured posterior communicating artery aneurysms" International scientific conference Proceeding, Yerevan, 2005, 148-149

19. Фанарджян РВ, Григориан АА, “Церебральный артериальный спазм после спонтанных субарахноидальных кровоизлияний”, International scientific conference /Proceeding, Yerevan, 2005, 365-366.
20. Григорян А. “Использование стереотаксической навигации при доступах к дистальным аневризмам”, IV Съезд Нейрохирургов России, Москва. Материалы Съезда, стр. 257, 2006
21. E.Z.Kapsalaki, T.G. Machinis, J.S. Robinson III, B. Newman, A.A. Grigorian, K.N.Fountas:” Spontaneous resolution of acute cranial subdural hematomas”, Clinical Neurology and neurosurgery 109 (2007) 287-291.
22. Kostas N Fountas, Mozaffar A Kassam, Arthur A Grigorian.” A rare, delayed complication of a ventriculogallbladder shunt”, Neurosurg Focus 22 (4):E12, 2007.

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23. Economic Analysis of Allograft vs. Autograft Usage for 1- and 2-Level ACD&F with Plate Fixation for Patients Requiring Inpatient Surgery. ACM Barth, LG Nikolakakos, MA Kassam, MS Walid, CH Feltes, RA Lummus, KN Fountas, AA Grigorian, KW Johnston, EO Richter, JS Robinson, Jr. 2007 AANS Annual Meeting, Washington, DC, USA, April 14-19, 2007
24. Anterior cervical discectomy and fusion associated complications Fountas, K.N., Kapsalaki, E.Z., Nikolakakos, L.G., Smisson, H.F., Johnston, K.W., Grigorian, A.A., Lee, G.P., Robinson Jr., J.S. Spine volume 32, issue 21, year 2007, pp. 2310 - 2317
25. Chung I, Glow JA, Dimopoulos V, Walid MS, Smisson HF, Johnston KW, Robinson JS, Grigorian AA: Upper-Limb Somatosensory Evoked Potentials Monitoring in Lumbosacral Spine Surgery: A Prognostic Marker for Position-Related Ulnar Nerve Injury” Spine J, August 2008.
26. Walid MS, Ajjan M, Grigorian A,: Neurosarcoidosis-The Great Mimicker”, Journal of the National medical Association, Vol. 100, No. 7, July 2008.
27. Walid MS, Yelverton JC, Ajjan M, Grigorian A:” Pseudogout of the thoracic spine mimicking a tumor”
28. DimopoulosVG, Chung I, Lee GP, Johnston KW, Kapsalakis IZ, Smisson HF, Grigorian A, Robinson JS, Fountas KN: “ Quantitative estimation of the recurrent laryngeal nerve irritation by employing spontaneous intraoperative electromyographic monitoring during anterior cervical discectomy and fusion”, Journal of spinal disorders & techniques: Vol 22(1) Feb 2009 pp1-7.

29. Chronic Back Pain: Clinical Quiz. MS Walid, AA Grigorian, & JS Robinson. Journal of Neurosurgery. The Internet Journal of Neurosurgery, 2007. Volume 4 Number 1.
30. Interleukin-1B induces migration of rat arterial smooth muscle cells Through a Mechanism Involving Increased Matrix Metalloproteinase-2 Activity. Zhongbiao Wang, M.D., Ph.D.; Lingwei Kong, M.S.; Jing Kang, M.D.; Danny M. Vaughn, M.D.; Geary D. Bush, M.D.; Anna L. Walding, M.D.; Arthur A. Grigorian, M.D.; Joe Sam Robinson Jr., M.D.; Don K. Nakayama, M.D. Journal of Surgical Research 2009.
31. Fountas KN, Kapsalaki EZ, Lee GP, Machinis TG, Grigorian AA, Robinson JS, Vergados I, Theodosiadis PG (2008) Terson hemorrhage in patients suffering aneurysmal subarachnoid hemorrhage: predisposing factors and prognostic significance. J Neurosurg 109:439-444.
32. EMG and Evoked Potentials in the Operating Room During Spinal Surgery, Induk Chung and Arthur Grigorian, in EMG Methods for evaluating muscle and nerve function. Ch 17, p 325. Intechopen, 2011
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## BOOKS

А Григорян : “СОСУДИСТЫЕ ЗАБОЛЕВАНИЯ ГОЛОВНОГО МОЗГА”, Ереван, Авторское издание, 2006.