



**James E. Conway, M.D.,Ph.D.**

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***Physician Training***

- 2001-2002 General surgery intern, Johns Hopkins University School of Medicine, Baltimore, MD
- 2002-2007 Neurosurgery resident, Johns Hopkins University School of Medicine, Baltimore, MD
- 2007-2008 Chief resident, Department of Neurosurgery, Johns Hopkins University School of Medicine, Baltimore, MD

***Education***

- 1986-1990 St. Joseph's University, Philadelphia, PA; B.S., Chemistry; *summa cum laude*; May, 1990
- 1993-2001 Johns Hopkins University School of Medicine, Baltimore, MD  
M.D., Ph.D.; May 24, 2001.

***Fellowships***

- 2005-2007 NIH sponsored Neuro-Oncology Fellowship, Johns Hopkins University School of Medicine, Baltimore, MD
- 2008-2009 Synthes Spine Fellowship.

***Certification***

- 2012 Board certified by the American Board of Neurological Surgery

***Previous Employment***

- 1990-1991 High school biology and physics teacher. Instituto de Notre Dame, Honduras, Central America.



1992-1993 Analytical chemist. Drug development. Wyeth-Ayerst Research. Princeton, NJ.

***Honors and Awards***

- 1986 Board of Directors Scholarship, St. Joseph's University. Full tuition merit scholarship.
- 1990 Dean's Award, St. Joseph's University. Awarded for highest academic achievement.
- Student Association Award, St. Joseph's University. Awarded by the student body for academic achievement.
- American Chemical Society Award, St. Joseph's University. Awarded for highest GPA in chemistry
- Loughlin Theology Award, St. Joseph's University. Awarded for highest GPA in theology.
- 1993 Drug Development Research Award, Wyeth-Ayerst Research
- 1995 Pfeiffer Foundation Research Scholarship, Department of Pharmacology, Johns Hopkins Medical Institution. Equivalent to NIH MSTP scholarship for research in the Department of Pharmacology and Molecular Sciences.
- 1998 Salisbury Foundation Neurovascular Research Fellowship. Division of Cerebrovascular Neurosurgery, Johns Hopkins Medical Institution
- 2001 Alpha Omega Alpha. Elected to the honor medical society, Johns Hopkins University School of Medicine.
- Phi Beta Kappa. Elected to the honor society, John Hopkins University.
- Hunterian Neurosurgical Research Award for medical students, Department of Neurosurgery, Johns Hopkins University School of Medicine.
- 2005 Sherman Travel Fellowship. Awarded fellowship to travel to anatomy conference to expand knowledge of intracranial anatomy and complex surgical approaches.



- 2007 Walter Dandy Clinical Research Award. Annual award given to neurosurgery resident for excellence in clinical research. Department of Neurosurgery, Johns Hopkins University School of Medicine.
- 2012 Elected Fellow of the American Association of Neurological Surgeons
- Instructor positions***
- 2005-2006 Director, Johns Hopkins Department of Neurosurgery, Resident neuroanatomy dissection course.
- Spring, 2006 Teaching assistant, Johns Hopkins University School of Medicine, neuroscience laboratory
- April, 2006 Invited faculty. “AO Operating Room Personnel Course, Spine.” Montreal, Canada.
- June, 2006 Co-director, Baltimore Neurosurgery and Spine Center’s “Spine anatomy and instrumentation course.”
- 2006-2007 Co-director, Johns Hopkins Department of Neurosurgery, Resident Skull Base Lecture Course
- Nov, 2006 Co-director, Stryker and Johns Hopkins Department of Neurosurgery 1<sup>st</sup> Minimally Invasive Spine Instrumentation and Cadaver Course
- Feb, 2007 Co-director, 1<sup>st</sup> Annual Johns Hopkins Department of Neurosurgery, Neuro-endoscopy Resident course.
- Spring, 2007 Teaching assistant, Johns Hopkins University School of Medicine, neuroscience laboratory
- April, 2007 Invited faculty. “AO Operating Room Personnel Course, Spine.” Baltimore, MD.
- June, 2007 Co-director, Baltimore Neurosurgery and Spine Center’s 2<sup>nd</sup> Annual “Spine anatomy and instrumentation course.”
- May, 2008 Invited faculty. Covidian “Combined Approaches to the Skull Base.” Baltimore, MD.
- June, 2008 Co-director, Baltimore Neurosurgery and Spine Center’s 3rd Annual “Spine anatomy and instrumentation course.”
- June, 2009 Co-director, Baltimore Neurosurgery and Spine Center’s 4th Annual “Spine anatomy and instrumentation course.”



- Sept, 2009 Invited faculty. Covidian “Combined Approaches to the Skull Base.”  
Baltimore, MD.
- June, 2010 Co-director, Baltimore Neurosurgery and Spine Center’s 5th Annual  
“Spine anatomy and instrumentation course.”
- December, 2010 Invited faculty. Covidian “Combined Approaches to the Skull Base.”  
Baltimore, MD.

### ***Certifications***

May, 2008 Kyphoplasty. Medtronic. Bethesda, MD.

### ***Book Editor***

- 1) Eds: George Jallo, MD, James E. Conway, MD, and László Bognár, MD.  
Neuroendoscopy of the Central Nervous System. San Diego. Plural Publishing. 2008.

### ***Publications***

- 1) Conway JE, Zolotukhin S, Muzyczka N, Hayward GS, Byrne BJ. *Recombinant adeno-associated virus type 2 replication and packaging is entirely supported by a herpes simplex virus type 1 amplicon expressing Rep and Cap.* Journal of Virology. 1997 Nov;71(11):8780-9
- 2) Conway JE, Rhys CM, Zolotukhin I, Zolotukhin S, Muzyczka N, Hayward GS, Byrne BJ. *High-titer recombinant adeno-associated virus production utilizing a recombinant herpes simplex virus type I vector expressing AAV-2 Rep and Cap.* Gene Therapy. 1999 Jun;6(6):986-93
- 3) Conway JE, Hutchins GM, Tamargo RJ. *Marfan syndrome is not associated with intracranial aneurysms.* Stroke. 1999 Aug;30(8):1632-6
- 4) Conway JE, Chow D, Clatterbuck RE, Brem H, Long DM, Rigamonti D. *Hemangioblastomas of the central nervous system in von Hippel-Lindau and sporadic disease.* Neurosurgery. 2001 Jan;48(1):55-62.
- 5) Hendrix CW, Hammond MJ, Swoboda SM, Merz WG, Harrington SM, Perl TM, Dick JD, Borschel DM, Halczenko PW, Pelz RK, Rocco LE, Conway JE, Brower RG, Lipsett PA. *Screening Strategies for Vancomycin-Resistant Enterococcal (VRE) Colonization and Infection in Critically Ill Patients.* Ann Surg. 2001 Feb;233(2):259-65



- 6) Dunaief JL, Conway J, Rigamonti D, Goldberg MF. *Retinal venous telangiectasia and anastomoses with cerebellar venous and cavernous malformation*. *Retina*. 2001;21(3):262-265
- 7) Conway JE, Tamargo RJ. *Cocaine use is an independent risk factor for cerebral vasospasm after aneurysmal subarachnoid hemorrhage*. *Stroke*. 2001 Oct;32(10):2338-43
- 8) Conway JE, Hutchins GM, Tamargo RJ. *Lack of evidence for an association between neurofibromatosis type I and intracranial aneurysms: autopsy study and review of the literature*. *Stroke*. 2001 Nov;32(11):2481-5
- 9) Beaty RM, Edwards JB, Boon K, Siu IM, Conway JE, Riggins GJ. *PLXDC1 (TEM7) is identified in a genome-wide expression screen of glioblastoma endothelium*. *J Neurooncol*. 2007 Feb;81(3):241-8.
- 10) Kharkar S, Shuck J, Conway JE, Rigamonti D. *The natural history of conservatively managed symptomatic intramedullary spinal cord cavernomas*. *Neurosurgery*. 2007 May;60(5):865-72; discussion 865-72.
- 11) Sciubba DM, Lin LM, Conway JE, Bydon A, Gokaslan ZL, Kebaish K. *Development of scoliosis following intrathecally placed opioid pump for chronic low back pain*. *Spine*. 2007 Nov 15;32(24):E718-22.
- 12) Sciubba DM, Noggle JC, Vellimana AK, Conway JE, Kretzer RM, Long DM, Garonzik IM. *Laminar screw fixation of the axis*. *J Neurosurg Spine*. 2008 Apr;8(4):327-34.
- 13) Anderson WS, Kiyofuji S, Conway JE, Busch C, North RB, Garonzik IM. *Dysphagia and neuropathic facial pain treated with motor cortex stimulation: case report*. *Neurosurgery*. 2009 Sep;65(3):E626; discussion E626.
- 14) Baird CJ, Conway JE, Sciubba DM, Prevedello DM, Quiñones-Hinojosa A, Kassam AB. *Radiographic and anatomic basis of endoscopic anterior craniocervical decompression: a comparison of endonasal, transoral, and transcervical approaches*. *Neurosurgery*. 2009 Dec;65(6 Suppl):158-63; discussion 63-4.
- 15) Raza SM, Conway JE, Li KW, Attenello F, Boahene K, Subramanian P, Quinones-Hinojosa A. *A modified frontal-nasal-orbital approach to midline lesions of the anterior cranial fossa and skull base: technical note with case illustrations*. *Neurosurg Rev*. 2010 Jan;33(1):63-70. Epub 2009 Sep 2.



- 16) Hsu W, Pradilla G, Garonzik IM, Conway JE. *Pretruncal nonaneurysmal subarachnoid hemorrhage causing basilar artery vasospasm*. Neurocrit Care. 2010 Oct;13(2):256-60.
- 17) Conway JE, Raza SM, Li K, McDermott MW, Quiñones-Hinojosa A. *A surgical modification for performing orbitozygomatic osteotomies: technical note*. Neurosurg Rev. 2010 Oct;33(4):491-500. Epub 2010 Jul 27.

### **Chapters and Reviews**

- 1) Conway JE, Zolotukhin I, Rhys CM, Muzyczka N, Zolotukhin S, Byrne BJ. *Production and purification systems for recombinant adeno-associated virus type 2 vectors*. In: eds: Cid-Arregui A, Carrancá AG, *Viral Vectors: Basic Science and Gene Therapy*. Natick MA, BioTechniques Books, Eaton Publishing. 2000: 59-73
- 2) Conway JE and Rigamonti D. *Osler-Weber-Rendu Syndrome*. In: eds: Aminoff MJ, Daroff RB, *Encyclopedia of Neurological Sciences*. San Diego, Academic Press, 2003: 707-708
- 3) Conway JE and Rigamonti D. *Hemangiomas*. In: eds: Aminoff MJ, Daroff RB, *Encyclopedia of Neurological Sciences*. San Diego, Academic Press, 2003: 533-534
- 4) Conway JE and Rigamonti D. *Cavernous Malformations: A Review and Current Controversies*. *Neurosurg Q*. 2006 Mar,(16):15-23
- 5) Conway J and Tamargo R. *Should patients surviving subarachnoid hemorrhage from a ruptured aneurysm be given follow-up screening?* *Nature Clinical Practice Neurology*. (2006) 2, 184-185
- 6) Wong C, Conway JE, Jallo GI. *Complications Following Treatment of Intramedullary Spinal Cord Tumors*. *Neurosurg Q*, Volume 17, Number 2, June 2007: 113-119.
- 7) Conway JE and Jallo G. *Intramedullary and Extramedullary Spinal Cord Tumors*. In eds: Lee JY, Lim MR, and Albert TJ: *Challenges in Cervical Spine Surgery*. New York, Thieme Medical Publishers, 2007.
- 8) Conway JE, Baird CJ, Li KW, Garonzik IM, Jallo GI. *Ventricular Anatomy*. In Eds: George Jallo, MD, James E. Conway, MD, and László Bognár, MD: *Neuroendoscopy of the Central Nervous System*. San Diego. Plural Publishing. 2008: 23-36.
- 9) Conway JE, Baird CJ, Li KW, Garonzik IM, Jallo GI. *Surgical approaches for Neuroendoscopic Procedures*. In Eds: George Jallo, MD, James E. Conway, MD, and



László Bognár, MD: Neuroendoscopy of the Central Nervous System. San Diego. Plural Publishing. 2008: 37-43.

- 10) Li KW, Baird CJ, Conway JE, Noggle JC, Jallo GI. *Aqueductoplasty*. In Eds: George Jallo, MD, James E. Conway, MD, and László Bognár, MD: Neuroendoscopy of the Central Nervous System. San Diego. Plural Publishing. 2008: 61-66.
- 11) Conway JE, Quinones-Hinojosa A. *Sphenoid Wing Meningiomas*. In eds: Connolly ES, McKhann GM, Huang J, Choudhri TF, and Mocco J: Fundamentals of Operative Techniques in Neurosurgery, 2<sup>nd</sup> Edition. New York, Thieme Medical Publishers. 2010: 189-195.
- 12) Conway JE, Quinones-Hinojosa A. *Tuberculum Sellae and Olfactory Groove Meningiomas*. In eds: Connolly ES, McKhann GM, Huang J, Choudhri TF, and Mocco J: Fundamentals of Operative Techniques in Neurosurgery, 2<sup>nd</sup> Edition. New York, Thieme Medical Publishers. 2010:195-200.
- 13) Conway JE, Gallia G. *Esthesioneuroblastoma*. In eds: Connolly ES, McKhann GM, Huang J, Choudhri TF, and Mocco J: Fundamentals of Operative Techniques in Neurosurgery, 2<sup>nd</sup> Edition. New York, Thieme Medical Publishers. 2010:243-247.

#### ***Letters to the Editor***

- 1) Tamargo RJ, Conway JE, Hutchins GM. *Marfan syndrome and intracranial aneurysm, Response*. Stroke. 1999 Dec;30(12):2767-8.
- 2) Tamargo RJ, Rigamonti D, Murphy K, Gailloud P, Conway JE, Clatterbuck RE. *Treatment of intracranial aneurysms: surgical clipping or endovascular coiling?* Ann Neurol. 2001 May; 49(5):682-4
- 3) Conway JE, and Tamargo RJ. *Vascular Complications of Cocaine Use, Response*. Stroke. 2002 33: 1747-1748

#### ***Abstracts***

##### ***Oral Presentations***

- 1) Conway JE, Oshiro EM, Piantadosi S, Tamargo RJ. *Intraventricular hemorrhage on the admission CT scan is a strong, independent predictor of poor clinical outcome after aneurysmal subarachnoid hemorrhage*. American Association of Neurological Surgeons Annual Meeting. April 1998.
- 2) Conway JE, Zolotukhin I, Rhys CM, Muzyczka N, Zolotukhin S, Byrne BJ. *Production and purification systems for recombinant adeno-associated virus type 2 vectors*. American Society of Gene Therapy Annual Meeting. May 2000.



**Posters**

- 1) Conway JE, Byrne BJ, Hayward GS. *GFP as a marker of transduction in an HSV-1 amplicon gene transfer system*. 21<sup>st</sup> Herpesvirus Workshop. July 1996.
- 2) Conway JE, Byrne BJ, Hayward GS. *Recombinant adeno-associated virus replication and packaging is supported by an HSV amplicon expressing rep and cap*. Keystone Symposia, Molecular and Cellular Biology of Gene Therapy. April 1997.
- 3) Conway JE, Oshiro EM, Piantadosi S, Tamargo RJ. *Ventricular blood on the admission CT is a strong predictor of poor clinical outcome after ruptured aneurysmal subarachnoid hemorrhage*. 23<sup>rd</sup> International Joint Conference on Stroke and Cerebral Circulation. Feb, 1998.
- 4) Conway JE, Oshiro EM, Byrne BJ, Tamargo RJ. *The extent of cellular proliferation in the arterial wall in a rat model of vasospasms*. American Association of Neurological Surgeons Annual Meeting. April 1998.
- 5) Conway JE, Rhys CM, Zolotukhin I, Zolotukhin S, Muzyczka N, Hayward GS, Byrne BJ. *High-titer recombinant adeno-associated virus production utilizing a recombinant herpes simplex virus type I vector expressing AAV-2 Rep and Cap*. Cold Spring Harbor Gene Therapy Meeting. Sept 1998.
- 6) Conway JE, Tamargo RJ. *Marfan syndrome is not associated with intracranial aneurysms*. American Association of Neurological Surgeons Annual Meeting. April 1999.
- 7) Conway JE, Tamargo RJ. *Marfan syndrome is not associated with intracranial aneurysms*. AANS/CNS Section, Cerebrovascular Surgery & American Society of Interventional and Therapeutic Neuroradiology Annual Meeting. Feb 1999.
- 8) Chou D, Conway JE, Clatterbuck RE, Brem H, Long DM, Rigamonti D. *Spinal hemangioblastomas and von Hippel-Lindau syndrome*. Congress of Neurological Surgeons Annual Meeting. Oct 1999.
- 9) Conway JE, Chou D, Clatterbuck RE, Brem H, Long DM, Rigamonti D. *CNS hemangioblastomas: a review*. American Neurological Association Annual Meeting. Oct 1999.
- 10) Conway JE, Chou D, Clatterbuck RE, Brem H, Long DM, Rigamonti D. *CNS hemangioblastomas: a review*. Congress of Neurological Surgeons Annual Meeting. Oct 1999.





- 11) Conway JE, Hutchins GM, Tamargo RJ. *Neurofibromatosis Type I is not associated with intracranial aneurysms*. American Association of Neurological Surgeons Annual Meeting. April 2000.
- 12) Conway JE, Tamargo RJ. *Acute cocaine use is an independent predictor of vasospasm after aneurysmal subarachnoid hemorrhage*. American Association of Neurological Surgeons Annual Meeting. April 2001.

### **Courses**

- 1) 2005 Operative Techniques with the Masters. Center for Anatomical Science and Education. Saint Louis University School of Medicine, St. Louis, MO.
- 2) 2005 Skull Base Society of North America neuroanatomy course for senior residents. The Medical Education & Research Institute (MERI). Memphis, TN.
- 3) 2005 Synthes Florida skull base course. University of Florida and Synthes, Gainesville, FL.
- 4) 2005 AO spine tumor course. Baltimore, MD.
- 5) 2006 AO spine course for residents. Philadelphia, PA
- 6) 2006 Synthes Florida skull base course. University of Florida and Synthes, Gainesville, FL.
- 8) 2006 Aesculap Academy, Endoscopy Techniques in Neurosurgery. Baltimore, MD
- 9) 2006 Cyberknife certification course. Sinai Hospital. Baltimore, MD.
- 10) 2006 Stryker minimally invasive spine instrumentation course. Las Vegas, NV
- 11) 2006 Surgical approaches to the skull base. Cornell University, NY
- 11) 2007 Bethesda cervical and thoracic spine course. Bethesda, MD.

### **Patents**

- 1) Byrne BJ, Conway JE, Muzyczka N, Hayward GS, *High-titer recombinant adeno-associated virus production utilizing a recombinant herpes simplex virus type I vector expressing AAV-2 Rep and Cap*. US and world patents.