

Curriculum Vitae

Scott Douglas Simon

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EMPLOYMENT

8/2010 - Present Assistant Professor of Neurosurgery, Virginia Commonwealth University

POSTDOCTORAL TRAINING

7/2006 - 6/2008 Endovascular Fellowship, Vanderbilt University Medical Center, Nashville, TN

7/2004 - 6/2010 Neurosurgery Residency, Vanderbilt University Medical Center, Nashville, TN

7/2003 - 6/2004 General Surgery Internship, Vanderbilt University Medical Center, Nashville, TN

EDUCATION

1999-2003 University of Chicago Pritzker School of Medicine, Chicago, IL

Degree: M.D. May 2003

1994-1998 Princeton University, Princeton, New Jersey

Degree: A.B. *cum laude* in Political Theory, June 1998

AWARDS & HONORS

2010 Academic Impact Award, Vanderbilt University Department of Neurosurgery

2010 Clinical Research Oral Presentation: 2nd Place, Vanderbilt University 28th Annual Research Forum

2009 Resident Research Award: First Place, Tennessee Neurosurgical Society Annual Meeting

2003 Stephen Lukes Memorial Prize for Excellence in Neurology and Medicine, University of Chicago

1998 Princeton Class of 1955 Public Interest Fellowship, Atlanta, GA

1998 *cum laude*, Princeton University

1995-1998 Club Letter for Cycling, Princeton University

1994 National Merit Scholarship Finalist

CERTIFICATION

American Board of Neurological Surgeons Written Exam: passed 2007

United States Medical Licensing Examination, Step 3: passed 2004

United States Medical Licensing Examination, Step 2: passed 2002

United States Medical Licensing Examination, Step 1: passed 2001

PROFESSIONAL MEMBERSHIP

Member, American Association of Neurological Surgeons

Member, Congress of Neurological Surgeons

PUBLICATIONS

Simon SD, Reig AS, Eskioglu E, Mericle RA, "Endovascular Treatment of Side Wall Aneurysms Using Liquid Embolic Agent: A U.S. Single Center Perspective," *Neurosurgery*. 2010 Sep;67(3):855-860.

Simon SD, Reig AS, James RF, Reddy P, Mericle RA, "Cost Analysis of Embolic Material Used for Treatment of Intracranial Aneurysms," *Journal of Interventional Neurosurgery*. 2010;2:163-167

Simon SD, Lopes D, Mericle RA, "The use of intracranial stenting to secure unstable liquid embolic casts in wide-necked side-wall intracranial aneurysms," *Neurosurgery*. 2010 Mar;66(3 Suppl Operative):92-7; discussion 97-8.

Reig AS, **Simon SD**, Mericle RA, "Embolization of a Giant Pediatric, High Cervical Skull-base Internal Carotid Artery (ICA) Aneurysm With a Liquid Embolic Agent" *J Neurosurg Pediatr*. 2009 Nov;4(5):449-52.

Simon SD, Yao T, Rosenbaum B, Reig AS, Mericle RA, "Resolution of Trigeminal Neuralgia After Palliative Embolization of A Cerebellopontine Angle Arteriovenous Malformation", *Central European Neurosurgery*, 70:1-3, 2009.

Simon SD, Yao T, Rosebaum B, Mericle RA, "Two Cases of Dural Arteriovenous Fistulae masquerading as Dural Sinus Thrombosis", *Journal of Neurosurgery*, 110:514–517, 2009.

Simon SD, Ulm AJ, Russo A, Albanese E, Mericle RA, "Distal Intracranial Catheterization of Patient's with Tortuous Vascular Anatomy Using a New Hybrid Guide Catheter" *Surgical Neurology*, 2009 Dec;72(6):737-40; discussion 740. Epub 2009 Jul 15.

In press:

Reig AS, Ravijam R, **Simon SD**, Mericle RA, "Complete Angiographic Obliteration of Intracranial AVMs with Endovascular Embolization: Incomplete nidal opacification may be associated with AVM recurrence," *Journal of Neurosurgery*

Simon SD, Koyama T, Cheng JS, Mericle RA, "Medicare Data Reveal Decline in Number of Craniotomies for Aneurysm Performed in the Medicare Population," *AANS Neurosurgeon*.

Reig AS, **Simon SD**, Neblitt WW, Mericle RA, "Eight year follow-up and complete obliteration of a a previously reported complex, neonatal, intracranial dural arteriovenous fistula: Case Report" *Journal of Neurosurgery Pediatrics*.

Submitted:

Spratt D, Choxi AA, Rajaram R, Durrani AK, **Simon SD**, Shay SD, Davidson MA, Barr FE, Summar ML, Mericle RA, "Dexamethason after subarachnoid hemorrhage: Effect on CSF biomarkers and angiographic cerebral vasospasm in a rabbit model," *World Neurosurgery*.

Simon SD, Reig AS, Reddy P, Hopkins LN, Mericle RA, "Prospective Randomized Multi-Center Controlled Trial Comparing Onyx HD500 Liquid Embolic System to Standard Coil Embolization for Treatment of Intracranial Aneurysms" *Journal of Neurosurgery*.

Fleming JB, Hoh B, Welch B, **Simon SD**, Mericle RA, Harrigan MR, "Rebleeding risk after coiling of ruptured intracranial aneurysms," *Journal of Neurosurgery*.

ABSTRACTS

Reig AS, **Simon SD**, Neblitt W, Mericle RA, “Eight-Year Follow-up and Treatment of a Previously Reported Intracranial Dural Arteriovenous Fistula Initially Treated in Infancy with Extracorporeal Membrane Oxygenation: Case Report,” Congress of Neurological Surgeons Annual Meeting, San Francisco, CA, October 16-21, 2010.

Simon SD, Yao T, Rosenbaum B, Reig AS, Mericle RA, "Resolution of Trigeminal Neuralgia After Palliative Embolization of A Cerebellopontine Angle Arteriovenous Malformation", American Academy of Pain Management Annual Meeting, Las Vegas, NV, September 21-24, 2010.

Simon SD, Ehtesham M, Mericle RA, “Ane-2009 comparable at tertiary center aneurysm re-rupture rate after endovascular coiling and microsurgical clipping between 2005,” Southern Neurosurgical Society Annual Meeting, Boca Raton, FL, February 24-27, 2010.

Fleming JB, Hoh B, Welch B, Ehtesham M, **Simon SD**, Mericle RA, Harrigan MR, “Contemporary rebleeding risk after coiling of ruptured intracranial aneurysms,” AANS/CNS Cerebrovascular Section Annual Meeting, San Antonio, TX, February 22-23, 2010.

Simon SD, Schwartz MZ, Nyman JS, Mericle RA, Cheng JS, “Coil Enhancement Of Liquid Embolics Enhances Aneurysm Cast Resistance To Compression,” AANS/CNS Cerebrovascular Section Annual Meeting, San Antonio, TX, February 22-23, 2010.

Mericle RA, **Simon SD**, Reig AS, Reddy P, Hopkins LN, Ringer A, ‘Prospective Randomized Multi-center Controlled Trial Comparing Onyx Hd500 Liquid Embolic System To Standard Coil Embolization For Treatment Of Intracranial Aneurysms,” AANS/CNS Cerebrovascular Section Annual Meeting, San Antonio, TX, February 22-23, 2010.

Simon SD, Sun DA, Schwartz MZ, Nyman JS, Cheng JS, Onyx HD 500 compressive load failure significantly higher than aneurysm lumen pressure,” Congress of Neurological Surgeon Annual Meeting, New Orleans, LA, 2009.

Reig AS, James RF, **Simon SD**, Mericle RA, “Cost Analysis of Embolic Material Used For Embolization of Intracranial Aneurysm,” Congress of Neurological Surgeon Annual Meeting, New Orleans, LA, 2009.

Simon SD, Reig AS, Reddy P, Mericle RA, "International Randomized, Controlled Trial Comparing Onyx HD 500 and GDC for Treatment of Cerebral Aneurysms", Oral presentation at 10th Congress of the World Federation of Interventional Neuroradiology, Montreal, Canada, 2009.

Simon SD, Koyama T, Cheng JS, "Government reimbursement data reveals decline in number of craniotomies for aneurysm performed in the United States", Poster at American Association of Neurological Surgery Annual Meeting, San Diego, CA, May 2-7, 2009.

Simon SD, Ding G, Xia F, Mericle RA, "Onyx 34 liquid embolic agent increases the dose of stereotactic radiation delivered to surrounding tissue", Oral presentation at Southern Neurosurgical Society Annual Meeting, Greensboro, GA, March 25-28, 2009.

Simon SD, Ulm AJ, Ayad MJ, Mericle RA, "Pediatric Cervical Spinal Cord Venous Hypertension Presenting with Quadraparesis Secondary to a Vertebral Arteriovenous Fistula Caused by a Gun Shot Wound to the Neck during the Iraq War", Poster at 2008 Congress of Neurological Surgeon Annual Meeting, Orlando, FL, September 21-25, 2008

Simon SD, Shay SR, Ayad MJ, "The Merci Retriever and the Neuron Intracranial Access System: Technical Note on a Novel Pairing for Retrieval Against Extremely Tortuous Anatomy", Poster at 2008 Congress of Neurological Surgeon Annual Meeting, Orlando, FL, September 21-25, 2008

Simon SD, Mericle RA, "Intraprocedural Migrating Onyx Cast Secured in Aneurysm with New Intracranial Stent", Poster at 2008 Congress of Neurological Surgeon Annual Meeting, Orlando, FL, September 21-25, 2008

Simon SD, Reig AS, Ravijam R, Mericle RA "Complete Angiographic Obliteration of Intracranial AVMs", Oral presentation at Southern Neurosurgical Society Annual Meeting, San Juan, PR, March 14-17, 2007.

Spratt D, **Simon SD**, Shay S, Mericle RA, "The use of dexamethasone after SAH in NZW rabbits", Poster at Southern Neurosurgical Society Annual Meeting, San Juan, PR, March 14-17, 2007.

Yao T, Rosenbaum B, **Simon SD**, Mericle RA, "Two Cases of Dural Arteriovenous Fistulas masquerading as Dural Sinus Thrombosis" Poster at 2007 Congress of Neurological Surgeon Annual Meeting, San Diego, CA, September 18-21, 2007.

Shkhenkeli SA, Towle VL, Hunter JD, Milton JG, Spire JP, **Simon SD**, "An ECOG Coherence Study of 'Hidden' Cortical Relationships in Intractable Epilepsy to Localize Epileptic Foci and to Predict, Prevent, and Stop Epileptic Seizures", Poster at American Epilepsy Society Annual Meeting, Boston, MA, December 5-10, 2003.

INTELLECTUAL PROPERTY

Injectable Polymer that Potentiates Stereotactic Radiosurgery for Pathologic Spine Fractures – patent pending

INVITED LECTURES

2009

"The biomechanics of liquid embolic agents for aneurysm"

Tennessee Neurosurgical Society Annual Meeting, August 7-9, 2009, Nashville, TN

“Onyx for aneurysm: current strategies, common pitfalls”

Virginia Commonwealth University Neurosurgical Grand Rounds, July 23, 2009, Richmond, VA

“Liquid embolic treatment of intracranial aneurysms”

University of Alabama Birmingham Neurosurgical Grand Rounds, April 23, 2009, Birmingham, AL

2008

"Onyx for Aneurysm: an Introduction to a New Technology"

Tennessee Neurosurgical Society Annual Meeting, August 30-31, 2008, Nashville, TN