

# CURRICULUM VITAE

**John F. Reavey-Cantwell, M.D., M.S.**

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## PERSONAL INFORMATION:

**Name:** John Frederick Reavey-Cantwell

**Office address:**

Department of Neurosurgery  
Harold F. Young Neurosurgical Center  
417 North 11<sup>th</sup> Street, 6<sup>th</sup> Floor  
Richmond, VA 23298-0631  
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## LICENSURE:

Virginia Medical License,  
Florida Medical License,

## EDUCATION:

Johns Hopkins University School of Medicine, M.D.	May, 2001
University of Pennsylvania, MS Cell and Molecular Biology	August, 1997
College of the Holy Cross, BA Chemistry and Economics, cum laude	May, 1995

## POSTDOCTORAL TRAINING:

Fellowship: Endovascular Neurosurgery, University of Florida, Gainesville	2007
	2003-2005
Residency: Neurosurgery, University of Florida, Gainesville, FL	2002-2007
Internship: General Surgery, University of Florida, Gainesville, FL	2001-2002

## ACADEMIC APPOINTMENTS:

Reynolds Assistant Professor, Department of Neurosurgery, Virginia Commonwealth University/Medical College of Virginia Richmond, Virginia	August, 2008-present
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Director, Endovascular and Cerebrovascular Neurosurgery, Virginia Commonwealth University/Medical College of Virginia Richmond, Virginia	August, 2008-present
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Affiliate Graduate Faculty Member,

Virginia Commonwealth University June, 2009-present

Abstract Reviewer, Neurovascular Section, Management of Subarachnoid Hemorrhage, International Stroke Conference (ISC) 2009-present

Abstract Reviewer, Neurovascular Section, Intracranial Atherosclerotic Occlusive Disease, International Stroke Conference (ISC) 2008-present

Clinical Lecturer, Department of Neurosurgery,  
University of Florida  
Gainesville, FL January-June, 2008

## **MEMBERSHIP - SCIENTIFIC, HONORARY AND PROFESSIONAL SOCIETIES:**

Senior Member, Society of NeuroInterventional Surgery  
Congress of Neurological Surgeons  
American Association of Neurological Surgeons  
American Medical Association  
Medical Society of Virginia

## **SPECIAL AWARDS, FELLOWSHIPS AND OTHER HONORS:**

Reynolds Endowed Chair 2008-present  
Charles "Chuck" Shank Award in Neurosurgical Excellence 2006  
Excellence in Medical Education Award 2006  
Class of 1983 Scholarship, Johns Hopkins School of Medicine 1997  
Cum laude, College of the Holy Cross 1995  
Omicron Delta Epsilon, National Economics Honor Society 1995  
Gold Medal, New England Rowing Championship 1992

## **MAJOR COMMITTEES**

MCVP Marketing and Communications Advisory Committee 2011-present  
Virginia Stroke Systems – Ambassador Panel 2010-2011  
Thesis Committee, Abdulkhaliq Alsaman, Master's Candidate, Department of Pharmacology 2009  
Emergency Department / Stroke Committee 2009-present  
Carotid Artery Stenting Oversight Committee 2009-present

## **TEACHING EXPERIENCE**

"Hands-On" Resident Endovascular Practicum. Faculty Member. Saturday, Feb 5, 2011 to Sunday, Feb 6, 2011. AANS/CNS Cerebrovascular Annual Meeting, Los Angeles, CA

"Hands-On" Endovascular Simulation: Stents, Liquid Embolics, AVM Embolization, Retrieval Devices: Tips and Tricks. Faculty Member. Monday, Feb 7, 2011. AANS/CNS Cerebrovascular Annual Meeting, Los Angeles, CA.

University of Florida Endovascular Neurosurgery Practicum. Faculty Member. May 5 and 6, 2009. Gainesville, Florida.

## **RESEARCH / IRB APPROVALS**

1. Neuropsychological Impact of Perimesencephalic Nonaneurysmal Subarachnoid Hemorrhage. Submitted for A.D. Williams Grant Funding: 8/1/2011.
2. The Use of Oral Contraceptives and Hormone Replacement Therapy in Women with Intracranial Aneurysms. In VCU IRB Review 07/2011.
3. Comparison of Thromboembolic Complications after Extracranial or Intracranial Arterial Stenting Based on Patient Responsiveness to Clopidogrel: A Retrospective Review. VCU IRB Approval Date: 03/24/2011.
4. SAPHIRE World Wide (WW): Stenting And Angioplasty with Protection in Patients at High Risk for Endarterectomy. WIRB Approval Date: 11/12/2010.
5. A Prospective, Multi-Center, Double-Blind, Randomized, Placebo-Controlled, Parallel-Group Study to Assess the Efficacy and Safety of Clazosentan in Reducing Vasospasm-related Morbidity and All-cause Mortality in Adult Patients with Aneurysmal Subarachnoid Hemorrhage Treated by Endovascular Coiling (CONSCIOUS III). WIRB Approval Date: 05/28/2009
6. Penumbra Imaging Collaborative Study (PICS): A Multicenter Trial to Assess Outcome of Patients Revascularized by the Penumbra System. WIRB Approval Date: 05/27/2009
7. Evaluation of Presidio and Cerecyte Coils in Large and Giant Aneurysms: the PAC Registry. WIRB Approval Date: 04/30/2009
8. A Prospective, Multi-Center, Double-Blind, Randomized, Placebo-Controlled, Parallel-Group Study to Assess the Efficacy and Safety of Clazosentan in Reducing Vasospasm-related Morbidity and All-cause Mortality in Adult Patients with Aneurysmal Subarachnoid Hemorrhage Treated by Surgical Clipping (CONSCIOUS II). WIRB Approval Date: 03/20/2009
9. Onyx Liquid Embolic System (Onyx HD-500) – Humanitarian Device Exemption – HDE No. H060003. VCU IRB Approval Date: 09/11/2008
10. The Wingspan Stent System and Gateway PTA Balloon Catheter – Humanitarian Device Exemption. VCU IRB Approval Date: 08/26/2008.
11. The Neuroform Microdelivery Stent System – Humanitarian Device Exemption. VCU IRB Approval Date: 08/26/2008.
12. Cordis Enterprise Vascular Reconstruction Device and Delivery System – Humanitarian Device Exemption – HDE No. H060001. VCU IRB Approval Date: 08/26/2008.

## BIBLIOGRAPHY

### Papers

1. Simon, S.D., Reig, A., Reavey-Cantwell, J.F. Retreatment of Liquid Embolic Recanalization of Ophthalmic Segment Carotid Artery Aneurysm with Second Liquid Embolic Treatment. Submitted to Operative Neurosurgery.
2. Hoh, B.L., Reavey-Cantwell, J.F., Lawson, M.F., Jahshan, S., Levy, E.L., and Siddiqui, A.H. Intentional Partial Dome Protection Prevents Acute Rebleeding and Produces Favorable Clinical Outcomes. Submitted to Acta Neurochirurgica.
3. Whiting, J., Reavey-Cantwell, J.F., Velat, G.J., Fautheree, G.L., Firment, C.S., Lewis, S.B., and Hoh, B.L. Clinical Course of Nontraumatic, Nonaneurysmal Subarachnoid Hemorrhage: a Single-Institution Experience. *Neurosurg Focus*, 26, E21, 2009.
4. Reavey-Cantwell, J.F., Fox, W.C., Reichwage, B.D., Fautheree, G.L., Velat, G.J., Whiting, J., and Hoh, B.L. Factors Associated with Aspirin Resistance in Patients Premedicated with Aspirin and Clopidogrel for Endovascular Neurosurgery. *Neurosurgery*, 64:890-895, discussion 895-896, 2009.
5. Velat, G.J., Reavey-Cantwell, J.F., Siström, C., Smullen, D., Fautheree, G.L., Whiting, J., Lewis, S., Mericle, R.A., Hoh, B.L., and Firment, C.S. Comparison of Onyx and n-Butyl Cyanoacrylate for the Embolization of Arteriovenous Malformations: Analysis of Complication Rate, Fluoroscopy Time, and Procedure Time. *Neurosurgery*, 63:73-80, 2008.
6. Hoh, B.L., Siström, C.L., Firment, C.S., Fautheree, G.L., Velat, G.J., Whiting, J.H., Reavey-Cantwell, J.F., and Lewis, S.B. Bottleneck Factor and Height-Width Ratio Association with Ruptured Aneurysms in Patients with Multiple Cerebral Aneurysms. *Neurosurgery*, 61:716-722, 2007.
7. Pincus, D.W., Bova, F.J., and Reavey-Cantwell, J.F. Frameless, Pinless Stereotaxy: Response. *Journal of Neurosurgery: Pediatrics*, 107:81-82, 2007.
8. Reavey-Cantwell, J.F., Detorre, R.R., Quisling, R.G., and Mericle, R.A. The Use of Nitroglycerin for Treatment of Progressive Moyamoya Disease: A Prospective Pilot Study. *Journal of Pediatric Neurology*, 5:101-109, 2007.
9. Velat, G.J., Reavey-Cantwell, J.F., Ulm, A.J., and Lewis, S.B. Intraoperative Dynamic Angiography to Detect Resolution of Bow Hunter's Syndrome: Technical Case Report. *Surgical Neurology*, 66:420-423, 2006.
10. Reavey-Cantwell, J.F., Bova, F.J., and Pincus, D.W. Frameless, Pinless Stereotactic Neurosurgery in Children. *Journal of Neurosurgery: Pediatrics*, 104:392-395, 2006.
11. Reavey-Cantwell, J.F., Lewis, S.B., and Firment, C. Simultaneous Bilateral Vertebral Artery 3D Rotational Angiography: Technical Report of Two Cases. *Interventional Neuroradiology*, 11:235-241, 2005.

12. Reavey-Cantwell, J.F., Haroun, R.I., Zahurak, M., Clatterbuck, R.E., Parker, R.J., Mehta, R., Fruehoff, J.P., and Brem, H. The Prognostic Significance of Tumor Markers in Patients with Glioblastoma Multiforme: Analysis of 32 Patients and Review of the Literature. *Journal of Neuro-Oncology*, 55:195-204, 2001.
13. Reavey-Cantwell, J.F., Garonzik, I., Viglione, M., McCarthy, E., and Belzberg, A. A Brachial Plexopathy Due to Myositis Ossificans: Case Report and Review of Literature. *Journal of Neurosurgery*, 95:525-528, 2001.
14. Gao, Z.-Y.\*, Reavey-Cantwell, J.F.\*, Young, R.A., Jegier, P., and Wolf, B.A. Synaptotagmin III/VII Isoforms Mediate  $Ca^{2+}$ -induced Insulin Secretion in Pancreatic Islet  $\beta$ -cells. \*co-first authors *Journal of Biological Chemistry*, 275:36079-36085, 2000.
15. Molino, M., Woolkalis, M.J., Reavey-Cantwell, J., Pratico, D., Andrade-Gordon, P., Barnathan, E.S., and Brass, L.F. Endothelial Cell Thrombin Receptors and PAR-2: Two Protease-Activated Receptors Located in a Single Cellular Environment. *Journal of Biological Chemistry*, 272:11133-11141, 1997.

#### **Poster Presentations**

1. Hoh, B.L., Reavey-Cantwell, J.F., Lawson, M.F., Jahshan, S., Levy, E.L., and Siddiqui, A.H. Intentional Partial Dome Protection Prevents Acute Rebleeding and Produces Favorable Clinical Outcomes. Congress of Neurological Surgeons, San Francisco, CA; October 16-21, 2010.
2. Fox, W.C., Reavey-Cantwell, J.F., Fautheree, G.L., Velat, G.J., Whiting, J.H., Lewis, S.B., Firment, C.S., and Hoh, B.L. Factors Associated with Vasospasm Refractory to Endovascular Therapy. American Association of Neurological Surgeons, Chicago, IL; April 26-May 1, 2008
3. Fox, W.C., Reavey-Cantwell, J.F., Fautheree, G.L., Velat, G.J., Whiting, J.H., Lewis, S.B., Firment, C.S., and Hoh, B.L. Computed Tomography Angiography Follow-up of Wingspan and Genesis Stent Placement. American Association of Neurological Surgeons, Chicago, IL; April 26-May 1, 2008
4. Fautheree, G.L., Fox, W.C., Velat, G.J., Whiting, J.H., Reavey-Cantwell, J.F., and Hoh, B.L. Onyx for Tumor Embolization: A Novel Agent for Head, Neck, and Intracranial Tumors. American Association of Neurological Surgeons, Chicago, IL; April 26-May 1, 2008.
5. Velat, G.J., Reavey-Cantwell, J.F., Smullen, D., Fautheree, G.L., Whiting, J., Lewis, S., Hoh, B.L., Mericle, R.A., and Firment, C.S. Comparison of Onyx and n-Butyl Cyanoacrylate for the Embolization of Arteriovenous Malformations: Analysis of Complication Rate, Fluoroscopy Time, and Procedure Time. American Association of Neurological Surgeons, Washington, D.C.; April 14-19, 2007.
6. Fautheree, G.L. Reavey-Cantwell, J.F., Whiting, J., Velat, G.J., Firment, C.S., Lewis, S., and Hoh, B.L. High Dose Intra-Arterial Verapamil for Treatment of Vasospasm: Our Experience at the University of Florida. American Association of Neurological Surgeons, Washington, D.C.; April 14-19, 2007.

7. Reavey-Cantwell, J.F., Mericle, R., Siström, C., Smullen, D., Lewis, S., Whiting, J., Fautheree, G., Velat, G., and Firment, C. Conscious Sedation: A Safe, Cost-Effective Alternative to General Anesthesia in the Endovascular Treatment of Unruptured Intracranial Aneurysms. International Stroke Conference, San Francisco, CA; February 7-9, 2007.
8. Hoh, B., Firment, C., Fautheree, G., Velat, G., Whiting, J., Reavey-Cantwell, J.F., Reichwage, B., and Lewis, S. CTA Indices to Predict Natural Risk of Hemorrhage of Intracranial Aneurysms. International Stroke Conference, San Francisco, CA; February, 7-9, 2007.
9. Hoh, B.L., Zamore, R., Firment, C., Reavey-Cantwell, J.F., Whiting, J., Fautheree, G.L., Velat, G.J., and Lewis, S.B. Adult Onset Moya Moya Syndrome. Congress of Neurological Surgeons, Chicago, IL; October 7-12, 2006.
10. Hajibrahim, O.S., Velat, G.J., Whiting, J., Fautheree, G.L., Reavey-Cantwell, J.F., Hoh, B.L., and Lewis, S.B. Valvotomy, Venoscopy and Vein Reversal in High Flow Cerebrovascular Bypass. Congress of Neurological Surgeons, Chicago, IL; October 7-12, 2006.
11. Velat, G.J., Brophy, G., Wolper, R., Miralia, L., Wang, K., Hayes, R., Reavey-Cantwell, J.F., Whiting, J., Fautheree, G.L., Hajibrahim, O., Hoh, B.L., and Lewis, S.B. Pharmacokinetics of Alpha-II Spectrin Breakdown Products (SBDPs): Novel Biomarkers of Aneurysmal Subarachnoid Hemorrhage (ASAH). Congress of Neurological Surgeons, Chicago, IL; October 7-12, 2006.
12. Firment, C., Smullen, D., Whiting, J., Fautheree, G., and Reavey-Cantwell, J.F. Evaluation of Nitinol versus non-Nitinol Coils in Reducing Recanalization and Complication Rates during Endovascular Treatment of Intracranial Aneurysms. 3<sup>rd</sup> Annual ASITN Course and Workshop, Rio Grande, Puerto Rico; July 24-28, 2006.
13. Reavey-Cantwell, J.F., Bova, F.J., and Pincus, D.W. Frameless, Pinless Stereotactic Neuroendoscopy. AANS/CNS Section on Pediatric Neurological Surgery, Salt Lake City, UT; December 2-5, 2003.
14. Reavey-Cantwell, J.F., Haroun, R.I., Zahurak, M., Clatterbuck, R.E., Parker, R.J., Fruehoff, J., and Brem, H. Evaluation of the Prognostic Significance of Tumor Markers in a Cohort of Patients with Glioblastoma Multiforme: Tumor Profiling. Congress of Neurological Surgeons, San Antonio, TX; September 23-28, 2000.
15. Haroun, R.I., Liu, J.M., Reavey-Cantwell, J.F., Li, K.W., Bettegowda, C., Tyler, B., and Brem, H., Combination Chemotherapy and Immunotherapy for Treatment of Experimental Intracranial Tumors. Congress of Neurological Surgeons, San Antonio, TX; September 23-28, 2000.

### **Oral Presentations and Lectures**

1. February 23-26, 2011. 62<sup>nd</sup> Southern Neurosurgical Society Annual Meeting (SNS), Orlando, Florida. Oral Contraceptive and Hormone Replacement Therapy Use in

- Women with Intracerebral Aneurysms. Lisa Feldman, MD, Scott D. Simon, MD, John Reavey-Cantwell, MS, MD, Michael Chen, MD.
2. September 7, 2010. Area Health Education Centers (AHEC) Program, Halifax Regional Medical Center. Endovascular Neurosurgery. Reavey-Cantwell, J.F.
  3. April 24, 2010. 8<sup>th</sup> Annual Alumni Update Conference, Virginia Commonwealth University. Endovascular Neurosurgery. Reavey-Cantwell, J.F.
  4. March 24, 2010. Chesterfield Family Practice Grand Rounds. Endovascular Neurosurgery. Reavey-Cantwell, J.F.
  5. January 8, 2010. Radio Interview on *With Good Reason*. Host: Sarah McConnell. Richmond, Virginia.
  6. September 29, 2009. Riverside Tappahannock Medical Center. Tappahannock, Virginia. Endovascular Neurosurgery. Reavey-Cantwell, J.F.
  7. May 14, 2009. Southside Regional Medical Center. Fredericksburg, Virginia. Endovascular Neurosurgery. Reavey-Cantwell, J.F.
  8. March 31, 2009. Halifax Medical Specialists. Roanoke Rapids, North Carolina. Endovascular Neurosurgery. Reavey-Cantwell, J.F.
  9. March 25, 2009. American Heart Association. Fredericksburg, Virginia. Panel Discussant: Field to ED Options to Endovascular Intervention. Yateman, B., Taitano, K., and Reavey-Cantwell, J.F.
  10. February 26, 2009. Anthem Medical Director Meeting. Richmond, Virginia. Endovascular Neurosurgery. Reavey-Cantwell, J.F.
  11. January, 2009. National Public Radio Interview on Endovascular Neurosurgery.
  12. October 25, 2008. Virginia Association of Vascular Interventional Radiographers and Nurses. Williamsburg, Virginia. Endovascular Neurosurgery. Reavey-Cantwell, J.F.
  13. October 9, 2008. Mary Washington Hospital Grand Rounds, Fredericksburg, Virginia. Endovascular Neurosurgery. Reavey-Cantwell, J.F.
  14. September 16, 2008. Emporia Hospital Grand Rounds, Emporia, Virginia. Endovascular Neurosurgery. Reavey-Cantwell, J.F.
  15. April 26-May 1, 2008. American Association of Neurological Surgeons Plenary Session. Chicago, Illinois. Factors Associated with Aspirin Resistance in Patients Premedicated with Aspirin and Clopidogrel for Endovascular Neurosurgery. Reavey-Cantwell, J.F., Fox, W.C., Reichwage, B.D., Fautheree, G.L., Velat, G.J., Whiting, J.H., Firmont, C.S., and Hoh, B.L.
  16. April 26-May 1, 2008. American Association of Neurological Surgeons. Chicago, Illinois. Factors Predictive of Complications Related to Intracranial Arteriovenous

- Malformation Embolization Using Onyx. Velat, G.J., Fautheree, G.L., Fox, W.C., Reavey-Cantwell, J.F., Whiting, J., Lewis, S.B., Firment, C., and Hoh, B.L.
17. July 19, 2007. Virginia Commonwealth University Department of Neurosurgery Grand Rounds. Current Trends in Endovascular Neurosurgery. Reavey-Cantwell, J.F.
  18. July 12, 2007. Medical University of South Carolina Department of Neurosurgery Grand Rounds. Current Trends in Endovascular Neurosurgery. Reavey-Cantwell, J.F.
  19. June 15, 2007. New York Medical College Department of Neurosurgery Grand Rounds. Current Trends in Endovascular Neurosurgery. Reavey-Cantwell, J.F.
  20. January 27, 2007. University of Florida Neurosurgery Research Conference. Gainesville, Florida. Comparison of Ethylene-vinyl Alcohol Copolymer (Onyx) and n-Butyl Cyanoacrylate (nBCA) for the Embolization of Arteriovenous Malformations. Reavey-Cantwell, J.F. and Firment, C.
  21. October 7-12, 2006. Congress of Neurological Surgeons. Chicago, Illinois. CT Perfusion as a Physiologic Predictor of Clinical Vasospasm-related Ischemia. Whiting, J., Smullen, D., Firment, C., Reavey-Cantwell, J.F., Fautheree, G., Velat, G., Hoh, B., and Lewis, S.
  22. June 28 – July 1, 2006. Interventional Neuroradiology Conference. Jackson Hole, Wyoming. Intraoperative Salvage of Coil Herniation. Reavey-Cantwell, J.F., Lewis, S.B., and Firment, C.
  23. January 28, 2006. University of Florida Neurosurgery Research Conference. Gainesville, Florida. Impact of Anesthetic Modality on the Endovascular Treatment of Aneurysms. Reavey-Cantwell, J.F. and Firment, C.
  24. July 26-30, 2005. Interventional Neuroradiology Conference. Jackson Hole, Wyoming. Anterior Communicating Artery Aneurysm Rupture: Complication of Endovascular Therapy and Salvage Treatment. Reavey-Cantwell, J.F. and Firment, C.
  25. January 29, 2005. University of Florida Neurosurgery Research Conference. Gainesville, Florida. Intraarterial Nitroglycerin in Moyamoya Disease. Reavey-Cantwell, J.F. and Mericle, R.M.
  26. January 24-25, 2004. University of Florida Neurosurgery Research Conference. Gainesville, Florida. CT Angiography in the Evaluation of Vasospasm. Reavey-Cantwell, J.F. and Lewis, S.B.
  27. January 25-26, 2003. University of Florida Neurosurgery Conference. Gainesville, Florida. Frameless, Pinless Stereotactic Neurosurgery. Reavey-Cantwell, J.F. and Pincus, D.