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Orlando Neurosurgery and Orthopedics, LLC  
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**EDUCATION:**

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|--|------------|
| American Board of Neurological Surgery, Board Certified            | Current    |
| Fellow of the American College of Surgeons                         | Current    |
| Spine Fellow, Dept. of Neurosurgery, Emory University, Atlanta, GA | 2006-2007  |
| Chief Resident, Dept. of Neurosurgery, MCV/VCU, Richmond, VA       | 2004-2005  |
| Residency, Dept. of Neurosurgery, MCV/VCU, Richmond, VA            | 2001-2006  |
| Internship, Dept. of Surgery, MCV/VCU, Richmond, VA                | 2000-2001  |
| Medical School, Medical College of Virginia/VCU, Richmond, VA      | M.D., 2000 |
| Graduate School, Medical College of Virginia/VCU, Richmond, VA     | M.S., 1996 |
| Cornell University, Honors Program, Ithaca, New York               | B.S., 1995 |

**HONORS AND AWARDS:**

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| Editorial Board Member, SpineUniverse.com                | Current      |
| America's Top Surgeons                                   | 2014-Current |
| Product Advisory Board, Boston Scientific                | 2008-Current |
| Patient's Choice Award                                   | 2008-Current |
| Virginia Spine Society, Best Research Award              | 2006         |
| MCV/VCU Resident Research Symposium, Runner-up Top Award | 2006         |
| Lind-Reynolds Grant Recipient                            | 2004-2006    |
| Commonwealth Award, Medical College of Virginia/VCU      | 1999, 1998   |
| Dean's Award, Medical College of Virginia/VCU            | 1997         |
| Honors Program, Cornell University                       | 1993-95      |

**TEACHING EXPERIENCE:**

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|---|--------------|
| Clinical Faculty, Peer Instructor for several private corporations    | 2006-Current |
| Clinical Instructor, Department of Neurosurgery, Emory University     | 2006-2007    |
| Adjunct Professor, Department of Biology, Virginia Commonwealth Univ. | 1996-1998    |

**PROFESSIONAL EXPERIENCE / HOSPITAL AFFILIATIONS:**

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|---|--------------|
| Emory University Hospital, Atlanta, GA                  | 2006-2007    |
| Emory Crawford Long (now Midtown) Hospital, Atlanta, GA | 2006-2007    |
| Grady Memorial Hospital, Atlanta, GA                    | 2006-2007    |
| Children's Hospital of Atlanta, Atlanta, GA             | 2006-2007    |
| East Cooper Medical Center, Mt. Pleasant, SC            | 2007-Current |
| Roper St. Francis Hospital, Charleston, SC              | 2007-Current |
| Roper Downtown Hospital, Charleston, SC                 | 2007-Current |
| Trident Medical Center, Charleston, SC                  | 2007-Current |
| Roper Mt. Pleasant Hospital, Charleston, SC             | 2011-Current |

## **RESEARCH PUBLICATIONS:**

Vaccaro AR, Beutler W, Peppelman W, Marzluff JM, Highsmith JM, et al. "Clinical Outcomes With Selectively Constrained SECURE-C Cervical Disc Arthroplasty" *Spine J.* 2013 Dec;38(26):2227-2239.

Highsmith JM, Dhall SS, Haid RW, et al. "Treatment of Cervical Stenotic Myelopathy: A cost and outcome comparison of laminoplasty vs. laminectomy and lateral mass fusion." *J Neurosurg Spine.* 2011 May;14(5):619-25.

Moon SM, Ingalhalikar A, Highsmith JM, Vaccaro AR. "Biomechanical rigidity of an all-polyetheretherketone anterior thoracolumbar spinal reconstruction construct: an in vitro corpectomy model." *Spine J.* 2009 Apr;9(4):330-5. Epub 2009 Jan 6.

Recipient of the Lind-Reynolds Grant to build the first spinal cord injury lab in the history of MCV/VCU.

Schroeder JL, Highsmith JM, Young HF, Mathern BE. "Reduction of hypoxia by perfluorocarbon emulsion in a traumatic spinal cord injury model." *J Neurosurg Spine.* 2008 Aug;9(2):213-20.

Highsmith JM, Ruban DS, Broaddus WC. "Reduction of complications with Carmustine biodegradable wafers." Abstract.

Highsmith JM, Tumialán LM, Rodts GE. "Flexible rods and the case for dynamic stabilization." *Neurosurgery Focus* 22(1): E11, 2007.

Highsmith JM "Post-marketing Anti-epileptic Drug Survey." Web database designer and manager for the International Epilepsy Consortium, 2003 – 2005.

Highsmith JM "COMA – Factor VII Trial." Web database designer and manager for the American Brain Injury Consortium, 2004 – 2005.

Highsmith JM, et al. Investigation of "Cadaver modeling of velopharyngeal insufficiency status post trans-oral odontoidectomy." Depts. of Neurosurgery and Plastic Surgery. Investigative work, 1998.

## **BOOK/CHAPTER PUBLICATIONS:**

Highsmith JM, Milivojevic JJ. *The Complete Idiot's Guide to Back Pain*, 2011.

Highsmith JM, Rodts GE. "Chapter 7 - Patient Selection: Who and How do we fuse?" in *Surgical Management of Low Back Pain*, Eds. D.R. Resnick, R.W. Haid, J.C. Wang, 2009.

Highsmith JM, Rodts GE. "Chapter 8 - Facet Mediated Versus Discogenic Pain- Differences in Presentation and Treatment" in *Surgical Management of Low Back Pain*, Eds. D.R. Resnick, R.W. Haid, J.C. Wang, 2009.

## **CLINICAL INVESTIGATIONS:**

Principle Investigator for 10 Year follow-up of Medtronic PRESTIGE-LP® Cervical Disc, 2014-Current.

Head Investigator for Covidien DuraSeal™ Clinical Study, 2010-Current.

Principle Investigator for Globus Acadia™ Facet Replacement System, 2008-Current.

Principle Investigator for Globus Medical Secure-C™ Cervical Disc, 2007-Current.

Principle Investigator for Medtronic PRESTIGE-ST® Cervical Disc, 2006-2007.

#### **TRAINING/CERTIFICATION:**

American Board of Neurological Surgery Oral Exam. July 2011.

AO Spine: Advanced Techniques in the Cervical and Lumbar Spine. Sun Valley, Idaho. March 2007

Spinal Microsurgery: Anterior Approaches to the Thoracic and Lumbar Spine. Munich, Germany. September 2006.

Basic Spine Coding for Physicians. Medtronic WebEx Course. November 2005.

American Board of Neurological Surgery Written Exam. March 2005.

Spinal Cord Injury Research Methods, workshop with Dr. Wise Young. W. M. Keck Center for Collaborative Neuroscience, Rutgers University, February-March 2005

#### **MAJOR INVITED PRESENTATIONS:**

“Spinal cord stimulation – The Surgeon’s Perspective.” Boston Scientific Sales Training. Valencia, California, 2008-Current.

“Spine 101 – Introduction to Pathology.” Globus Medical Sales Training. Philadelphia, Pennsylvania, 2008-Current.

“Spinal Cord Stimulation in the Neurosurgeon’s Practice.” South Carolina Association of Neurological Surgeons. Charleston, SC October 2013.

“Spinal Cord Stimulation in the Treatment of Chronic Pain.” South Carolina Spine Society. Charleston, SC April 2013.

“Lateral Lumbar Interbody Fusion – Tips and Pearls.” Skin-To-Skin Course. Las Vegas, NV, November 2012, 2013.

“Alphabet Soup – An Update on the Latest Fusion Techniques.” The Pain Society of the Carolinas Annual Meeting. Charleston, SC, November 2012.

“Endoscopic Spine Techniques – Interlaminar Approach.” Karl Storz Spine TIP Conference. Dallas, TX, October 2012.

“Patient Safety – We are all patients.” Keynote Speaker. Health Care Industry Representative Credentialing Summit. Alexandria, Virginia, July 2012.

“Lateral Fusion – Introduction to Techniques and Indications.” Globus Medical. Miami, FL, 2011.

“Cervical Laminoplasty vs Instrumented Posterior Cervical Fusion for Cervical Spondylitic Myelopathy.” Oral Presentation. American Association of Neurological Surgeons and Congress of Neurological Surgeons Joint Spine Section Meeting. Orlando, Florida, 2010.

“Treatment of Cervical Stenotic Myelopathy: A cost and outcome comparison of laminoplasty vs. laminectomy and lateral mass fusion.” Oral Presentation. American Association of Neurological Surgeons and Congress of Neurological Surgeons Joint Spine Section Meeting. Orlando, Florida, 2008.

“Introduction to Spine Trauma.” Globus Medical Sales Training. Philadelphia, Pennsylvania, Quarterly 2007-Current.

“Introduction to Spine Tumors.” Globus Medical Sales Training. Philadelphia, Pennsylvania, Quarterly 2007-Current.

“Dynamic Stabilization – Reducing Adjacent Segment Disease.” Georgia Neurosurgical Society. Sea Island, Georgia, 2007.

“Dynamic Stabilization” Department of Neurosurgery Grand Rounds. Emory University, Atlanta, Georgia, 2006.

“The Business of Medicine” Department of Neurosurgery Grand Rounds. Emory University, Atlanta, Georgia, 2006.

“NASCIS – Still a Debate” Department of Neurosurgery Evidence Based Medicine Series. Medical College of Virginia/Virginia Commonwealth University, Richmond, Virginia, 2005

“A Decade of Gliadel – Complications and Implications” Neurosurgical Society of the Virginias, The Greenbrier, West Virginia, 2005.

“Hydrocephalus in the Pediatric Population” Friends of Pediatrics, First Annual Conference, Belize City, Belize, 2004.

“Spina Bifida – An Overview” Friends of Pediatrics, First Annual Conference, Belize City, Belize, 2004.

“A Basic Guide to CT Imaging of the Head” NovoNordisk Training Program, Richmond, Virginia, 2004.