

**CURRICULUM VITAE**

**Jacob Patrick Schwarz, MD**

**Assistant Professor of Neurological Surgery  
Vanderbilt University Medical Center**

**Academic and Practice Information**

2016 - Present                      Assistant Professor  
Department of Neurological Surgery  
Vanderbilt Medical Center  
1500 21<sup>st</sup> Avenue South, Suite 4340  
Nashville, TN 37212

2006-2016                      Neurosurgical Associates  
2400 Patterson Street  
Suite 319  
Nashville, Tennessee 37203

**Education**

Undergraduate  
1991-1995                      B.A. Major-Biology, Summa Cum Laude  
Washington University  
St. Louis, Missouri

Medical School  
1995-1999                      M.D. Johns Hopkins School of Medicine  
Baltimore, Maryland

Internship  
1999-2000                      Halsted Surgical Internship  
Johns Hopkins School of Medicine  
Baltimore, Maryland

Neurosurgical Residency Training  
2000-2005                      Department of Neurosurgery  
Johns Hopkins School of Medicine  
Baltimore, Maryland

Instructor  
Advanced Surgical Training  
Neuro-Oncology & Complex  
Spine Surgery  
2005-2006

Department of Neurosurgery  
Johns Hopkins School of Medicine  
Baltimore, Maryland

## Research Experience

**1991-1995**

**Steven Petersen, Ph.D. and Markus Raichle, M.D.  
Department of Neurology; Washington University,  
St. Louis, Missouri**

We used Positron Emission Tomography to study functional imaging correlates of tasks involving verbal memory and spatial reasoning. This work led to publications in the Neuroscience, J. Neurophysiology. I won the Harrison Stalker prize in biology for my work during this time.

**1996-1999**

**Allan Belzberg, M.D.  
Department of Neurosurgery; The Johns Hopkins  
Hospital, Baltimore Maryland**

Developed and executed protocols to investigate the use of various agents in the treatment of peripheral neuromas. Clinical investigations included the treatment of neurogenic sarcoma, the treatment of neuropathic pain, and peripheral nerve repair.

**Jul 2003-Jul 2004**

**NIH Grant: F32NS47002  
PI: Jacob Schwarz, M.D.**

“Capsaicin application to L5 mixed spinal root to study anatomic and molecular mechanisms of hyperalgesia and central sensitization.”

**Jun 2009 –Apr 2013**

**APPROACH 001- Version 1  
PI: Jacob Schwarz, M.D.**

“A Prospective Patient Registry for Bone Graft Substitutes in Spinal Fusion.”

## **Awards and Honors**

1991-1995	Washington University Scholars Program in Medicine
1992-1994	Howard Hughes Undergraduate Summer Fellowship
1994	Phi Beta Kappa
1995	Harrison Stalker Prize in Biology- Washington University
1995	Sigma Xi research honorary
1995	Howard Hughes Graduate Summer Fellowship

## **Service**

### **Administrative Responsibilities**

**2012-2015**

**Group President: Neurosurgical Associates-  
Nashville Neurosurgery Group**

Led the merger between two private neurosurgical practices to form the largest independent neurosurgical practice group in Middle Tennessee.  
-Managed day-to-day aspects of the practice.

**2010-2012**

**Member, CEO advisory committee for Tristar  
Centennial Medical Center, Tom Herron, CEO.**

Strategic planning committee for the institution comprised of 5 leading physicians from different divisions throughout the hospital.

## **Certifications**

American Board of Neurological Surgery 5/19/2010

## **Licensure**

State of Tennessee: 3/28/2006: TN41013

## **Affiliations**

American Association of Neurological Surgeons  
Congress of Neurological Surgeons  
North American Spine Society

## **Presentations**

- 1) Pulmonary Fellow's Core Curriculum Conference: *Neurosurgery and the ICU*. December 10, 2014.
- 2) Pulmonary Fellow's Core Curriculum Conference: *Neurosurgery and the ICU*. February 13, 2013.
- 3) Pulmonary Fellow's Core Curriculum Conference: *Neurosurgery and the ICU*. September 29, 2010.
- 4) XSTOP Direct Access Instructor- Monthly Web access classes to introduce the XSTOP and its clinical applications to other surgeons. 2008-2010
- 5) Annual Outgoing Spine Fellows Program (4<sup>th</sup> Annual). Miami, Florida. September 11, 2009. "*Working with Mid-level Providers*"; "*What I wish I knew when I finished my Fellowship.*"
- 6) AOSpine North America Philadelphia Principles and Treatment of Spinal Disorders for Residents and Fellows Course. April, 2009.
- 7) Pulmonary Fellow's Core Curriculum Conference: *Neurosurgery and the ICU*. September 24, 2008
- 8) Invited Lecture: *XSTOP and Other Treatments for Symptomatic Lumbar Stenosis*. Florence, Alabama. March 6, 2008.
- 9) AO Operating Room Personnel Course: September 9-10, 2006. "*Management of Thoracolumbar Fractures.*"
- 10) *Anterior Cervical Discectomy and Fusion with Macropore Absorbable Graft: Preliminary Experience from 28 Patients*. European Cervical Spine Research Society, SPINEWEEK, Porto, Portugal June 1-6, 2004.
- 11) *Sarcomatous Degeneration in Segmental Neurofibromatosis*  
Sir Sydney Sunderland Society, Baltimore Maryland, 2002.
- 11) Malignant Peripheral Nerve Sheath Tumor in Segmental Neurofibromatosis  
AANS Section on Spine and Peripheral Nerve 13<sup>th</sup> annual meeting.

## Publications

### Peer-Reviewed Articles

- 1) Gallia GL, Binder ZA, **Schwarz J**, Moriarity JL, Weingart JD. Skull Base Chondrosarcoma Presenting with Hemorrhage. *Can J Neurol Sci.* 2009 Nov;36(6):774-5.
- 2) Bookland MJ, Bagley CA, **Schwarz J**, Burger PC, Brem H. Intracavernous Trigeminal Ganglion Amyloidoma. *Neurosurgery.* 2007 Mar;60(3):E574
- 3) Schlosser M, **Schwarz JP**, Davis R, et al. Anterior Cervical Discectomy and fusion with Allograft and Allograft and Anterior Plating; A Report on 219 Patients/469 Level with a minimum of 2 Year Follow-Up. *Neurosurgery Quarterly*, 2006.
- 4) **Schwarz JP**, Naff N. The Management of Neuropathic Pain. *Neurosurgery Clinics of North America.* Zeiger, E. editor. April 2005
- 5) **Schwarz JP**, Belzberg AJ  
Malignant Degeneration in Segmental Neurofibromatosis  
*Journal of Neurosurgery*, 92(2):342-346, 2000
- 6) **Schwarz JP**, Belzberg AJ. Segmental Neurofibromatosis. *Journal of Neurosurgery*, 93(3):531-534, 2000
- 7) Belzberg AJ, **Schwarz JP**  
Management of Ulnar Nerve Entrapment at the elbow  
*Techniques in Neurosurgery*, 6(1):57-67, 2000
- 8) Belzberg AJ, **Schwarz JP**  
Management of the Rheumatoid Cervical Spine  
*Journal of Spinal Disorders*, 12(1):81-86, 1999
- 9) Schulman G, **Schwarz JP**, Meizen F, Petersen SE.  
The effect of Motion Contrast on Human Cortical Responses to moving Stimuli.*Journal of Neurophysiology*, 79:2794-2803, 1998
- 10) Fiez J, Raiffe E, Balota D, **Schwarz JP**, Petersen S, Raichle M.  
A PET Study of The Short Term Maintenance of Verbal Information.  
*Journal of Neuroscience* 116(2): 808-822, 1996

## Book Chapters and Monographs

- 1) **Schwarz JP**, Belzberg AJ,  
Management of Neuropathic Pain  
Vascular Disorders of the upper Extremity Ed3  
Machleder, editor, Futura, pp 275-288, 1998
- 2) **Schwarz JP**, Belzberg AJ,  
Tumors of the Peripheral Nervous System. In:  
Neurosurgery (3<sup>rd</sup> Edition), Wilkins & Rengachary (eds), McGraw Hill, in  
press.
- 3) **Schwarz JP**, Meyer R. Psychophysical Coorelates of Pain: From Animal Models  
to Human Testing. The Text Book of Pain. Papagallo M. editor 2005
- 4) **Schwarz JP**, Campbell JN. An Evidenced Based Medicine Approach to  
Peripheral Nerve Surgery. Evidence Based Neurosurgery.  
Haines, S. editor. 2006
- 5) **Schwarz JP**, Naff N. Failed Back Surgery Syndrome. Current Therapy  
in Neurology. R. Johnson, J Griffin, J McArthur eds. 2006

## Published Abstracts

- 1) **Schwarz JP**, Belzberg AJ  
The Occurrence of Malignant Peripheral Nerve Sheath  
Tumor in the Setting of Segmental Neurofibromatosis.  
Section on Disorders of the Spine & Peripheral Nerves,  
Abstracts pg 144, Newport Beach 1997
- 2) Belzberg AJ, **Schwarz JP**  
Malignant Nerve Sheath Tumors  
American Society of Peripheral Nerve, Abstracts pg 35, 1997
- 3) **Schwarz JP**, Davis R, Branch C.  
Anterior Cervical Discectomy and fusion with Macropore  
Absorbable. Graft:  
Preliminary Experience from 28 Patients.  
SPINEWEEK Abstracts, Porto, Portugal 2004.