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Date of Birth September 13, 1965

License: Tennessee State Medical License #42735

Board Certification: Primary Examination, 2005
American Board of Neurological Surgery

Education:

7/1997 to 5/2001 M.D.
University of Arizona
Tucson, AZ

7/1984 to 5/1996 B.S. Molecular and Cellular Biology
University of Arizona
Tucson, AZ

7/1984 to 5/1991 B.A. Interdisciplinary Studies
University of Arizona
Tucson, AZ

Postgraduate Medical Training:

7/2007 to 6/2008 Chief Resident, Neurological Surgery
Vanderbilt University Medical Center
Nashville, TN

7/2004 to 6/2006 Research Fellow, Neurological Surgery
Vanderbilt University Medical Center
Nashville, TN
Use of miniature stereotactic frames (StarFix system) for DBS

7/2002 to 6/2007 Resident, Neurological Surgery
Vanderbilt University Medical Center
Nashville, TN

7/2001 to 6/2002 Internship, General Surgery
Vanderbilt University Medical Center
Nashville, TN

Professional Experience:

7/2008 to present Howell Allen Clinic
Nashville, TN

Staff Appointments:

St. Thomas Hospital
Nashville, TN

Skyline Medical Center
Nashville, TN

Baptist Hospital
Nashville, TN

Center for Spinal Surgery
Nashville, TN

Military History:

United States Marine Corps, Honorable Discharge 1990
Honor Graduate Recruit Training, Leatherneck Award recipient

Professional Memberships:

2009-present American Medical Association

2002-Present American Association of Neurological Surgeons

2002-Present Congress of Neurological Surgeons

1999-2001 American Medical Association

Publications

1. Sun D.A., Yu H., **Spooner J.**, Tatsas A.D., Davis, T., Abel T.W., and Konrad P.E. Postmortem Analysis after Seventy-One Months of Deep Brain Stimulation of the Subthalamic Nucleus for Parkinson's Disease. J Neurosurg 109:325-329, 2008.
2. Pallavaram, S., Yu, H., **Spooner, J.**, D'Haese, P., Bodenheimer, B., Konrad, P.E., Dawant, D.M. Inter-Surgeon Variability in the Selection of Anterior and Posterior Commissures and its Potential Effects on Target Localization. Journal of Stereotactic and Functional Neurosurgery 86:113-119, 2008.
3. Cheng, J.S., Lebow, R., Schmidt, M.H., **Spooner, J.**, Rod Derotation Techniques. Neurosurgery Thoracolumbar Spinal Deformity Supplement. Neurosurgery 63:A149-A156, 2008.

4. **Spooner J**; Yu H; Koa C; Sillay K; Konrad P; "Neuromodulation of the Cingulum for Neuropathic Pain after Spinal Cord Injury: a case report" *J Neurosurg* 107:1-4, 2007.
5. Yu H, Yao T, **Spooner J**, Stumph J, and Konrad PE. Delayed occurrence of multiple spinal drop metastases from a posterior fossa chroid plexus papilloma: case report-20050906-1567rl. *Journal of Neurosurgery: Spine*, 03/06
6. D'Haese PF, Pallavaram S, Yu H, **Spooner J**, Konrad PE, Dawant BW: Deformable Physiological Atlas-Based Programming of Deep Brain Stimulators: A Feasible Study. *Lecture Notes in Computer Science Series, Third International Workshop on Biomedical Image Registration*. Utrecht, The Netherlands. July 9-11, 2006. p. 144-150.
7. Carpenter, R.O.; **Spooner J**.; Arbogast P.G.; Tarpley, J.L.; Griffin, M.R.; Lomis, K.D. (2006) Work hours restrictions as an ethical dilemma for residents: a descriptive survey of violation types and frequency. *Current Surgery*. 63(6):448-55.

Bibliography:

Abstracts/Posters

1. Carpenter, RO, M.D. **Spooner J**, M.D.; Griffin MR, M.D., MPH; Tarpley JL, M.D.; Lomis KD, M.D. "Violations of duty hour requirements: a descriptive survey of types and frequency.;" Association of Program Directors in Surgery/Association for Surgical Education; APDS March 21-23 , ASE March 23-25 Tucson, Arizona
2. **Spooner J**, Konrad PE, and Cheng J. Motion preservation in the surgical treatment of Hangman's fractures using posterior lag screws. *AANS/CNS Section on Disorders of the Spine & Peripheral Nerves 2005 Annual Meeting*, Phoenix, AZ, March 9 – 12, 2005.
3. D'Haese P-F, Pallavaram S, Niermann K, **Spooner J**, Kao CC, Konrad PE, and Dawant BM. Automatic selection of DBS target points using multiple electrophysiological atlases. *Lecture Notes in Computer Science, MICCAI 2005*.
4. **Spooner J**, Yu H, D'Haese PF, Pallavaram S, Kao CC, Humbert G, Dawant B, and Konrad PE. Fully-automated Deep Brain Stimulation target selection better than traditional methods. *AANS Annual meeting*, San Francisco, CA April 22 – 27. 2006.
5. Kao CC, **Spooner J**, Yu H, Davis T, Fang J, Hedera P, Cooper M, Charles PD, and Konrad PE. Direct zona incerta stimulation produces efficacy in treating Parkinson's disease – an intraoperative study during STN mapping. *American Society for Stereotactic & Functional Neurosurgery meeting*, Boston, MA, June 1 – 4, 2006.
6. Pallavaram S, D'Haese PF, **Spooner J**, Yu H, Konrad, PE and Dawant BM. Automated selection of anterior and posterior commissures based on a deformable atlas can remove variability in the current frame of reference used for stereotactic neurosurgical procedures. *American Society for Stereotactic & Functional Neurosurgery meeting*, Boston, MA, June 1 – 4, 2006.
7. **Spooner J**, Tatsas A, Abel T, Yu H, Kao CC, Konrad PE, and Davis TL. Deep brain stimulation in white matter superior to STN is effective in Parkinson's disease: a 5-year postmortem analysis. *American Society for Stereotactic & Functional Neurosurgery meeting*, Boston, MA, June 1 – 4, 2006.

8. Yu H, **Spooner J**, Davis TL, Hedera P, and Konrad PE. Confirmed stimulation using two adjacent parallel thalamic deep brain stimulation electrodes to rescue refractory essential tremor. *American Society for Stereotactic & Functional Neurosurgery meeting*, Boston, MA, June 1— 4, 2006.
9. **John Spooner**, MD; Hong Yu, MD; David A Sun, MD, PHD; Robert O Carpenter, MD; Paul B Segebarth, MD; Oran Aaronson, MD; Joseph S. Cheng, MD; Retroperitoneal transpoas approach for retrieval of lumbar artificial disc: a cadaveric feasibility study CNS Chicago 10/06
10. Konrad PE, Kao CC, Frank JI, **Spooner J**, Yu H, Charles PD, Fang JY, and Davis TL. Deep brain stimulating electrodes placed using a novel miniature stereotactic frame: Clinical Experience from 144 patients. *10th International Congress of Parkinson's Disease and Movement Disorders*, Kyoto, Japan, October 28 – November 2, 2006.
11. Kao CC, **Spooner J**, Yu H, Charles PD, Davis TL, Fang JY, and Konrad PE. Improved patient comfort and surgical efficiency using the Starfix Stereotaxy System in 106 patients undergoing DBS implantation. *10th International Congress of Parkinson's Disease and Movement Disorders*, Kyoto, Japan, October 28 – November 2, 2006.
12. Yu J, **Spooner J**, Davis TL, Hedera P, Fang JY, and Konrad PE. Confined stimulation using two adjacent parallel thalamic deep brain stimulation electrodes to rescue refractory essential tremor. *10th International Congress of Parkinson's Disease and Movement Disorders*, Kyoto, Japan, October 28 –November 2, 2006.
13. Kao CC, Yu H, **Spooner J**, Hedera P, and Konrad PE. Train stimulation has identical efficacy as continuous stimulation in VIM DBS: a strategy to prolong battery life. *10th International Congress of Parkinson's Disease and Movement Disorders*, Kyoto, Japan, October 28 –November 2, 2006.
14. Pallavaram S, Yu H, **Spooner J**, D'Haese P-F, Koyama T, Bodenheimer B, Konrad PE, and Dawant BM. Automated selection of anterior and posterior commissures based on a deformable atlas and its evaluation based on manual selections by neurosurgeons. *SPIE Symposium on Medical Imaging*, San Diego, CA, USA, Feb. 17-22, 2007.
15. Pallavaram S, Yu H, **Spooner J**, D'Haese P-F, Koyama T, Bodenheimer B, Konrad PE, and Dawant BM. The VU-DBS project: intergrated and computer-assisted planning, intra-operative placement, and post-operative programming of deep-brain stimulators. *SPIE Symposium on Medical Imaging*, San Diego, CA, USA, Feb. 17-22, 2007.
16. Charles Stevenson, M.D., **John Spooner**, M.D. Kurt Eichholz, M.D. "Novel Applications of Minimally Invasive Long-Segment Percutaneous Pedicle Screw Fixation in the Thoracolumbar Spine" CNS San Diego 9/2007.