



W. James Thoman, MD

Neurosurgeon

Special Interests

Minimally invasive spine surgery
Sports-related degenerative spine disease
Brain tumors
Peripheral nerve conditions

Medical School

University of Florida College of Medicine
Gainesville, FL - 2002

Internship

Surgical internship, The Ohio State University Department of Surgery
Columbus, OH - 2008

Residency

The Ohio State University Department of Neurological Surgery
Neurological Surgery Residency, Columbus, OH – 2003 - 2008

Fellowship

Northwestern University Department of Neurological Surgery, Minimally Invasive Spine
Surgery Fellowship
Chicago, IL – 2008 – 2009

Other Education

B.S., Electrical Engineering, University of Florida College of Engineering, 1992
M.S., Biomedical Engineering, University of Florida College of Engineering, 1998

Hospital Affiliations

- St. Francis Hospital Indianapolis/Beech Grove
- Community Hospital South/East/North
- Clarian Health/Methodist and IU Hospitals
- St. Vincent Hospital

- Indiana Orthopedic Hospital

Experience

- Neurosurgeon, Indianapolis Neurosurgical Group, 2009 – present

Languages Spoken

Fluent in English and French

Board Certification

Board Eligible, American Board of Neurological Surgery

Professional Memberships

- Congress of Neurological Surgeons
- American Association of Neurological Surgeons

Publications

Thoman WJ, Ammirati M, Caragine LP Jr., McGregor JM, Sarkar A, Chiocca EA. **“Brain Tumor Imaging and Surgical Management: the Neurosurgeon’s Perspective”**, *Topics in Magnetic Resonance Imaging*. 17(2): 121-126. Apr 2006.

W. James Thoman, MS, Dietrich Gravenstein, MD, Jan van der Aa, PhD, Samsun Lampotang, Phd. **“Autoregulation in a Simulator-Based Educational Model of Intracranial Physiology”**, *Journal of Clinical Monitoring and Computing*. 15(7/8): 481-491. Dec 1999.

Thoman, William James. *A Dynamic Software Model of Intracranial Physiology*. Thesis (M.S.), University of Florida, 1998.

Thoman WJ, Lampotang S, Gravenstein D, van der Aa. **“Autoregulation Mediated by Oxygen Demand/Supply in a Brain Model, Abstracted”**, *Anesthesiology* 89:A540. 1998.

Hall JM, Lampotang S, Thoman J, Chen P, Gravenstein D, Gravenstein N. **“A Continuous Respiratory Rate Monitor Derived from the Optoplethysmogram of a Pulse Oxymeter: Clinical Evaluation, Abstracted”**, *Anesthesiology* 89:A971. 1998.

W. James Thoman, BSEE, Samsun Lampotang, Phd, Dietrich Gravenstein, MD, Jan van der Aa, PhD. **“A Computer Model of Intracranial Dynamics integrated to a Full-Scale Patient Simulator”**, *Computers and Biomedical Research*. 31(1): 32-46. Feb 1998.

W. James Thoman, BSEE, Samsun Lampotang, Phd, Dietrich Gravenstein, MD, Jan van der Aa, PhD, Edward Walsh, PhD. **“An ICP Model for a Human Patient Simulator”**: ICP X, A. Marmarou, R. Bullock, et al. (eds). *Acta Neurochirurgica Supplementum 71*: 1998 by Springer-Verlag.

W. James Thoman, Samsun Lampotang, Dietrich Gravenstein, Jan van der Aa. **“A Computer Model of Intracranial Physiology”**, *Proceedings of the 19th Annual International Conference of the IEEE Engineering in Medicine and Biology Society*. 2197-2200. 1997.

Patents & Copyrights

US Copyright # TX-4-831-248; Title: Brain Model; Phys: Computer Program; CLNA: University of Florida (Gainesville) Authors: Dietrich Gravenstein, Samsun Lampotang, & James Thoman; DCRE 1997; DPUP 15MAY97; DREG: AUG 98