

CURRICULUM VITAE

THEODORE J. FISHER, MD, MS

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EDUCATION

- 2006-2007 ORTHOPAEDIC SPINE FELLOWSHIP. Sinai Hospital of Baltimore. – Brain and Spine Institute. Baltimore, Maryland. Co-directors: Dr. A. Levine and Dr. M. Rosenthal.
- 2001-2006 ORTHOPAEDIC SURGERY RESIDENCY. Wayne State University / Detroit Medical Center. Detroit, Michigan.
- 1997-2001 MEDICAL DOCTORATE. University of Illinois College of Medicine. Rockford, Illinois.
- 1995-1996 MASTER OF SCIENCE. Northwestern University. Evanston, Illinois. M.S. in Biomedical Engineering. Academic focus: Biomechanics and the design of prosthetic limbs and implants. Courses include: Design and Artificial Replacement of Human Limbs, Biomechanics of Movement, Advanced Physiology, and Musculoskeletal Dynamics.
- 1991-1995 BACHELOR OF SCIENCE IN ENGINEERING. Princeton University. Princeton, New Jersey. B.S.E. in Mechanical and Aerospace Engineering. Academic focus: Fulfillment of Princeton's pre-medical and engineering requirements. Senior Thesis: Design and construction of a power-assisted-dynamic orthosis for the disabled.
- Summer 1998 SUMMER EXTERNSHIP. Rehabilitation Institute of Chicago. Chicago, Illinois. Assisted in the care of patients in the Orthopaedic and Spinal Cord Injury Rehabilitation Departments.
- June 1998 SUMMER CLINICAL EXTERNSHIP. University of Illinois Department of Internal Medicine. Champaign, Illinois. Observed doctors in a variety of sub-specialties in Internal Medicine.

CERTIFICATION AND LICENSURE

- American Board of Orthopaedic Surgeons – Certification - 2009.
- United States Medical Licensing Examination Parts I, II, III – Passed.
- Medical License. State of Illinois #036-118808 2007 - Present.

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PROFESSIONAL AFFILIATIONS

American Academy of Orthopaedic Surgeons

American Board of Orthopaedic Surgeons

North American Spine Society

AOSpine North America

American Medical Association

Sigma Xi

RESEARCH EXPERIENCE

- 2006-2007 The Effect of Preoperative Erythropoietin Therapy on Pediatric Scoliosis Patients. Sinai Hospital of Baltimore. Baltimore, MD. Fisher TJ, Burdick R, Levine A.
- 2006-2007 The Efficacy of Recombinant Human Bone Morphogenetic Protein (rhBMP-2) with Osteofil Allograft as a Carrier Compared to Iliac Crest Bone Auto Graft in Instrumented Posterolateral Lumbar Fusion. Sinai Hospital of Baltimore. Baltimore, MD. Williams SL, Fisher TJ, Rosenthal M.
- 2006-2007 A Prospective, Randomized Clinical Investigation of Recombinant Human Bone Morphogenetic Protein-2 and Compression Resistant Matrix with the CD Horizon® Spinal System for Posterolateral Lumbar Fusion in Patients with Symptomatic Degenerative Disc Disease” Sponsor: Medtronic Sofamor Danek, Memphis, TN - Sight Coordinator.
- 2003-2006 Researcher at the Gehring Biomechanics Laboratory at William Beaumont Hospital Research Institute. Participated in the biomechanical studies of the spine and spinal implants.
- 2004-2006 Posterior Occipitocervical Fixation: Mechanical Studies. Fisher TJ, Demetropoulos CK, Truumees E. Sponsors: DePuy Spine, Stryker Spine.
- 2003-2005 Flexibility of Adjacent Segments in the Cervical Spine after Fusion of One or More Motion Segments. Demetropoulos CK, Fisher TJ, Sliva CD, Sengupta DK, Herkowitz HN. Sponsor: William Beaumont Hospital.
- 2003-2004 Biomechanical Assessment of the Prodisc Cervical Disc Prosthesis. Demetropoulos CK, Fisher TJ, Sliva CD, Sengupta DK, Herkowitz HN. Sponsor: Synthes Spine.
- 1998-2001 The Effect of Intracellular Signaling Modulators on Parathyroid Hormone-Induced Proliferation and Apoptosis in Osteoblasts. UIC James Scholar Program for Independent Research. University of Illinois College of Medicine.

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RESEARCH EXPERIENCE (Continued)

- 1998-2001 Student Representative to the UIC College of Medicine Research Committee. University of Illinois College of Medicine. Represented the student body on the University Research Committee which promotes research opportunities to medical students and organizes lectures and annual conferences.
- 1994-1995 Senior Thesis. The Design and Construction of a power-assisted-dynamic orthosis for the disabled. Princeton University.
- Summer 1994 Research Assistant at the Center for Clinical Studies at Rush-Presbyterian-St. Luke's Medical Center. Chicago, Illinois. Assisted in clinical drug studies for the treatment of arthritis and decubitus ulcers.

PUBLICATIONS AND PRESENTATIONS

Frush, TJ, Fisher, TJ, Ensminger, SC, Truumees, E, Demetropoulos, CK. Biomechanical Evaluation of Parasagittal Occipital Plating: Screw Load Sharing Analysis. *Spine*. 34(9):877-884, April 20, 2009.

Fisher T, Williams S, Levine A. Chapter 27: Effective Use of Spinal Orthotics. *Skeletal Trauma*, 4th Ed. – Basic Science, Management, and Reconstruction. Ed. Browner D, Jupiter J, Levine A, and Trafton P. 2008.

Demetropoulos CD, Fisher TJ, Abjornson C, Sengupta DK, Herkowitz HN (2006) Instantaneous axis of rotation in the normal cervical spine – a biomechanical evaluation of cadaveric spines, Proceedings of the Cervical Spine Research Society Annual Meeting. Palm Beach, Florida, November 29 - December 2, 2006.

Fisher TJ, Demetropoulos CD, Truumees E (2006) Biomechanical Evaluation Of Occipitocervical Fixation: Screw Load Sharing In The Occiput, Proceedings of the International Meeting on Advanced Spine Techniques 13th Annual Meeting. Athens, Greece, July 12-15, 2006.

Demetropoulos CD, Fisher TJ, Abjornson C, Sengupta DK, Herkowitz HN (2006) Instantaneous Axis of Rotation in the Normal Cervical Spine – A Biomechanical Evaluation of Cadaveric Spines, Proceedings of the International Meeting on Advanced Spine Techniques 13th Annual Meeting. Athens, Greece, July 12-15, 2006.

Demetropoulos CD, Sliva CK, Fisher TJ, Farthing JR, Abjornson C, Sengupta DK, Herkowitz HN (2005) Biomechanical evaluation of the cervical spine instantaneous axes of rotation following single level disc replacement, Proceedings of the Cervical Spine Research Society Annual Meeting. San Diego, California, December 1-3, 2005.

Sliva CK, Demetropoulos CD, Fisher TJ, Farthing JR, Abjornson C, Sengupta DK, Herkowitz HN (2005) Biomechanical evaluation of the cervical spine kinematics following single level disc replacement, Proceedings of the Cervical Spine Research Society Annual Meeting. San Diego, California, December 1-3, 2005.

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PUBLICATIONS AND PRESENTATIONS (Continued)

Demetropoulos CD, Sliva CK, Fisher TJ, Farthing JR, Abjornson C, Sengupta DK, Herkowitz HN (2005) Biomechanical evaluation of the cervical spine instantaneous axes of rotation following single level disc replacement, Proceedings of the International Meeting on Advanced Spine Techniques 12th Annual Meeting. Banff, Alberta, Canada, July 7-9, 2005.

Sliva CK, Demetropoulos CD, Fisher TJ, Farthing JR, Abjornson C, Sengupta DK, Herkowitz HN (2005) Biomechanical evaluation of the cervical spine kinematics following single level disc replacement, Proceedings of the International Meeting on Advanced Spine Techniques 12th Annual Meeting. Banff, Alberta, Canada, July 7-9, 2005.

Demetropoulos CD, Sliva CK, Fisher TJ, Farthing JR, Abjornson C, Sengupta DK, Herkowitz HN (2005) Biomechanical evaluation of the cadaver cervical spine instant axis of rotation following single level disc replacement with a fixed axis of rotation, Proceedings of the Spine Arthroplasty Society Annual Meeting. New York, New York, May 4-7, 2005.

Sliva CK, Demetropoulos CD, Fisher TJ, Farthing JR, Abjornson C, Sengupta DK, Herkowitz HN (2005) Biomechanical evaluation of the cadaver cervical spine kinematics following single level disc replacement with the Prodisc-C prosthesis, Proceedings of the Spine Arthroplasty Society Annual Meeting. New York, New York, May 4-7, 2005.

Fisher T, Tarraf M, Babich M. (2000) Parathyroid Hormone-Modulated Osteoblast Cell Proliferation and Apoptosis Through Protein Kinase C-Regulated Signal Transduction. Proceedings of the 14th Annual Scientific Meeting of the Great Lakes Chapter of the American Society for Pharmacology and Experimental Therapeutics. Downer Grove, Illinois, June 1, 2000.

Fisher T, Tarraf M, Babich M. *Abstract - Parathyroid Hormone-Modulated Osteoblast Cell Proliferation and Apoptosis Through Protein Kinase C-Regulated Signal Transduction*. The Pharmacologist. Volume 42(3), 2000.

Fisher TJ. The Design and Construction of a Pneumatic Power-Assisted Dynamic Orthosis. Princeton University Senior Thesis. May 2, 1995.

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AWARDS

- May 2001 University of Illinois at Chicago Outstanding James Scholar Award for Independent Research.
- March 2001 UIC Research Day Award for Best Poster Presentation.
- May 1995 Princeton University Donald Janssen Dike Award, Honorable Mention, for excellence in undergraduate research.
- May 1995 Elected as an Associate Member by the Princeton University Chapter of Sigma Xi, The Scientific Research Society.

ACTIVITIES

- 1999- 2001 JAMES SCHOLAR PROGRAM. University of Illinois College of Medicine. Researching the effect of intracellular signaling modulators on parathyroid hormone-induced proliferation and apoptosis in osteoblasts.
- 1997- 2001 STUDENT REPRESENTATIVE. University of Illinois College of Medicine. Representing the interests of the student body on the Medical School Student Council.
- 1998 - 1999 VOLUNTEER EDUCATOR for the Adolescent Substance Abuse Program. University of Illinois College of Medicine. Lectured to 4th-6th graders on the dangers of substance abuse.
- 1997-1998 MEDICAL DOCTOR ADVISORY PROGRAM. University of Illinois College of Medicine. Observed and assisted internal medicine physicians.