

MARC A. WEINSTEIN, M.D.
CURRICULUM VITAE

CURRENT POSITION

9/2001 -present Spine Surgeon, The Center for Spinal Disorders at the Florida Orthopaedic Institute,
13020 Telecom Parkway NorthTampa, FL 33637

ACADEMIC AFFILIATION

Assistant Professor of Orthopedics and Sports Medicine, University of South Florida College of
Medicine, Tampa, FL

TRAINING

7/2000-7/2001 Fellow in Spine Surgery, University of Miami/Jackson Memorial Medical Center and The Miami
Project to Cure Paralysis. Mentor: Dr. Frank J. Eismont

6/1995-6/2000 Resident in Orthopaedic Surgery, Yale University School of Medicine, Department of
Orthopaedics And Rehabilitation, New Haven, CT

7/1994-6/1995 Spine Research Fellowship, The Hospital for Special Surgery, Cornell Medical Center, New York,
New York

6/1993-6/1994 Intern in Surgery/Neurosurgery Program, UCLA Medical Center, Los Angeles, California

EDUCATION

9/1989-5/1993 Doctor of Medicine, Yale University School of Medicine, New Haven, Connecticut

9/1985-5/1989 Bachelor of Arts *Summa Cum Laude* in Biology, Rutgers College, Rutgers University, New
Brunswick, New Jersey

9/1981-6/1985 Sayreville War Memorial High School, Parlin, New Jersey

ATTENDING SURGEON

Tampa General Hospital
University Community Hospital

HONORS AND AWARDS

2007- present Best Doctors in America Award
1998 Elected Member of North American Spine Society
1993 Completed/Defended MD Thesis, Dept of Surgery, Section of Neurosurgery
1992 Elected Associate Member American Association for Cancer Research
1991 March of Dimes Summer Science Research Award
1990 The Endocrine Society Summer Student Research Fellowship
1990 Etta S. Chidsey Award for Cancer Research, Yale Comprehensive Cancer Center
1989 Honors with Highest Distinction, Dept. of Biology, Rutgers University
1989 Betty Falk Yatvin Award for Outstanding Achievement in the Biological Sciences, Rutgers Univ.
1989 Ralph DeFalco Scholarship Award, Dept. of Biology, Rutgers University
1989 Completed Henry Rutgers Senior Honors Thesis in Biology
1988-89 Henry Rutgers Honors Scholar, Rutgers College, Rutgers University
1988 Women's League of Rutgers University Outstanding Student Award
1986 Phi Eta Sigma Honor Society
1986 Rutgers College Deans' Award for Excellence
1985-1989 Dean's List

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PAST RESEARCH

- 2004-2012 Importance of biopsy during routine kyphoplasty
- 2000-2001 Spine infection in patients with HIV
Department of Orthopaedic Surgery, University of Miami School of Medicine
- 1996-2000 Spinal Surgery
▪ Gene expression in OP-1 stimulated spinal fusion
▪ Vascular disease and low back pain
Yale University School of Medicine
- 1994-1995 Spinal Surgery Research Fellowship:
▪ Molecular models of intervertebral disc degeneration
▪ Analysis of wound infections after spinal surgery
▪ Predictability of adequacy of lumbar decompression using dermatosensory-evoked potentials
The Hospital for Special Surgery, Cornell Medical Center Mentors: Dr. Patrick F. O'Leary,
Dr. Frank Cammisa, Dr. Oheneba Boachie-Adjei, Dr. Lionel Ivashkiv
- 1989-1993 Neuro-oncology/Neurosurgery:
▪ Use of estramustine and novel antimicrotubule agents in the treatment of malignant glioma.
▪ Combination chemotherapeutic regimes *in vitro* including estramustine.
▪ Identification of estramustine binding protein and microtubule associated proteins in glioblastoma cells.
▪ Use of tamoxifen and protein kinase C inhibitors in the treatment of human glioblastoma.
Yale University School of Medicine, Section of Neurosurgery and Dept. of OB/GYN
Mentors: Dr. Joseph M. Piepmeyer, Dr. Frederick Naftolin
- 1987-1989 Neuroendocrinology:
▪ Identification of CNS locations responsive to estrogen and progesterone crucial to the induction of estrous behavior in rats.
▪ Pharmacological-behavioral characterization of the progesterone antagonist RU486.
▪ Developmental effects of RU 486 on the brain and behavior.
▪ Behavior and CNS development after exposure to various dopamine receptor antagonists
Rutgers University, Department of Biology Mentor: Dr. Ronald J. Barfield

MEMBERSHIPS IN PROFESSIONAL SOCIETIES

North American Spine Society

PROFESSIONAL ACREDITATION

American Board of Orthopaedic Surgery
National Board of Medical Examiners 429122
Florida License ME83022
New York State License 197257, inactive

INTERESTS/ACTIVITIES

- Computers in orthopaedic education
- *Editor in Chief*, Yearbook, Class of 1993, Yale University School of Medicine
- photography, running, cycling, triathlon, hiking, theater, reading
- Academic Mentorship Program in the Sciences (advisor for undergraduate science majors)
- former member Rutgers University Intercollegiate Crew Team, Yale Med School softball and volleyball (Captain)

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BIBLIOGRAPHY

Book Chapters and Invited Papers

Weinstein MA. Cervical degenerative changes with segmental kyphosis. *Spine Universe*, Case Study, 2008.
<http://www.spineuniverse.com/professional/case-studies/weinstein/cervical-degenerative-changes-segmental-kyphosis>.

Weinstein MA, Patel TP, Bell GR. Evaluation of the patient with spinal infection. *Seminars in Spine Surgery* **12(4)**: 160-175, 2000.

Weinstein MA, Patel TP. Anterior lumbosacral fusion through gas-assisted and gasless endoscopy. In: Rengchary SS, Wilkins RH. *Neurosurgical Operative Atlas*. AANS publications, Park Ridge, IL, 2000.

Original Peer Review Papers

Weinstein MA, Andrews S., Bunton, K., Billys J., Castellvi A., Small J.: Kyphoplasty for Fragility Fractures of the Spine: The Necessity for Intraoperative Biopsy. *Spine*, in revision.

Weinstein, M.A., Rosenblatt, M., Patel, T.Ch. The contribution of atherosclerosis of the lumbar arteries to low back pain *Submitted for publication*.

Mahiquez M, Bunton KL, Carney G, **Weinstein MA,** Small JM. Nonsurgical treatment of lumbosacral blastomycosis involving L2-S1: a case report. *Spine* **33(13)**: E442-6, 2008.

Weinstein, M.A., Eismont, F.J. Infections of the spine in patients with human immunodeficiency virus. *J Bone Joint Surgery Am.* **87(3)**: 604-609, 2005.

White AP, **Weinstein MA,** Patel TC, Horowitz M, Friedlaender GE. The 2002 Marshall Urist Young Investigator Award Paper. Lumbar arthrodesis gene expression: A comparison of autograft with osteogenic protein-1. *Clin Orthop* **429**: 330-337, 2004.

Weinstein, M.A., Keggi, J., Zatorksi, L., Keggi, K.J. Bilateral total hip arthroplasty in patients at least 75 years of age. *Orthopedics* **25(2)**:153-6, 2002.

Weinstein, M.A., McCabe, J.P., Cammisa, F.P. Postoperative wound infection after spinal surgery. *Journal of Spinal Disorders* **13(5)**: 422-6, 2000.

Ali Y, **Weinstein M,** Jokl P. Acute pseudogout following intra-articular injection of high molecular weight hyaluronic acid. *Am J Med* **107(6)**: 641-2, 1999.

Yoshida, D., Piepmeier, J.M., **Weinstein, M.A.** Estramustine sensitizes human glioblastoma cells to radiation. *Cancer Research* **54(6)**: 1415-1417, 1994.

Nathan, J., Keefe, D., **Weinstein, M.A.,** Chen, Z., and Naftolin, F. Estrogen mustard induces cell cycle arrest of human epithelial ovarian cancer cell lines. *J Soc Gynecol Invest* **1(1)**:1-7, 1994.

Piepmeier, J.M., Keefe, D., **Weinstein, M.A.,** Yoshida, D., Zelinski, J., Lin, T., Chen, Z., Naftolin, F. Estramustine and estrone analogs rapidly and reversibly inhibit deoxyribonucleic acid synthesis and alter morphology in human glioblastoma cells. *Neurosurgery* **32(3)**: 422 - 431, 1993.

Weinstein, M.A., Pleim, E.T., and Barfield, R.J. Effects of neonatal exposure to the antiprogestin Mifepristone, RU 486, on the sexual development of the rat. *Pharmacol. Biochem. Behav.* **41(1)**: 69-74, 1992.

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Pleim, E.T., Cailliau, P.J., **Weinstein, M.A.**, Etgen, A.M., and Barfield, R.J. Facilitation of receptive behavior in estrogen-primed female rats by the anti-progestin, RU 486. *Hormones and Behavior* **24**: 301-310, 1990.

Cagiano, R., Barfield, R.J., White, N.R., Pleim, E.T., **Weinstein, M.A.**, and Cuomo, V. Subtle behavioral changes produced in rat pups by in utero exposure to haloperidol. *European Journal of Pharmacology* **157**: 45-50, 1988.

Genes Sequenced

Weinstein MA, White AP, Oppermann H, Horowitz M, Patel TC. The New Zealand white rabbit (*Oryctolagus cuniculus*) bone morphogenic protein seven (BMP-7) gene sequence (*Oryctolagus cuniculus* bone morphogenic protein 7 mRNA, partial cds.). *GeneBank*, AF413111, 2001.

White AP, **Weinstein MA**, Oppermann H, Horowitz M, Patel TC. The New Zealand white rabbit (*Oryctolagus cuniculus*) bone morphogenic protein five (BMP-5) gene. (*Oryctolagus cuniculus* bone morphogenic protein 5-like protein mRNA, partial sequence). *GeneBank*, AF412307, 2001.

Abstracts and Meeting Presentations

Weinstein, MA Is there value in surgery for adult spinal deformity. *Castellvi Spine Meeting*, Duck Key, FL 2015.

Weinstein, MA. Anatomy of the lateral approach to L4-5. *Current Solutions in Spine Surgery*, Duck Key, FL 2014.

Weinstein MA. Laminoplasty: The original motion preservation surgery. *Current Solutions in Spine Surgery*. Duck Key, FL, 2013.

Weinstein MA. Synthetic bone graft alternatives. *Selby Spine Meeting*, Park City, UT, 2013.

Weinstein MA. Synthetic bone graft substitutes: sifting through the white paper evidence. *Spine Study Group*, Palm Beach, FL, 2012.

Weinstein MA. Lumbar total disc replacement. *Spine Study Group*, Palm Beach, FL, 2012.

Weinstein MA. Are surgeons failing patients with low back pain? *Selby Spine Meeting*, Park City, UT, 2011.

Marulanda GA, Andrews SA, Bunton K, Billys JB, Castellvi AE, Small JM, **Weinstein MA.** Kyphoplasty for fragility fractures of the spine: The need for intraoperative biopsy. *Annual Meeting of the American Academy of Orthopaedic Surgeons*. New Orleans, LA. 2010

Weinstein MA. Healthcare reform and the spine surgeon. *The Univeristy of South Florida Cahill Spine Symposium*. Tampa, FL, 2009.

Weinstein MA. Surgeon Relationships with Industry: Good, Bad, Who Cares? *Motion Preservation in the Lumbar Spine*. Duck Key, FL and *University of South Florida Department of Neurosurgery Grand Rounds*, 2007.

Weinstein MA Semi-rigid spinal lumbar fixation system. 2nd annual *Motion Preservation in the Lumbar Spine*. Duck Key, Florida, 2006.

Weinstein MA Why not to have disc replacement surgery. 2nd annual *Motion Preservation in the Lumbar Spine*. Duck Key, Florida, 2006.

Weinstein, MA. Kyphoplasty experience, tips, and pearls. *Selby Spine Conference*, Park City, Utah, 2006.

Weinstein MA. Is disc replacement better than fusion? *Selby Spine Conference*, Park City, Utah, 2006.

Weinstein MA. Kyphoplasty: Results and lessons learned in 121 treated patients. *Florida Orthopaedic Society*, Sarasota, Florida, 2005.

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Weinstein MA Is disc replacement the answer? *Motion Preservation in the Lumbar Spine*. Duck Key, Florida, 2005.

Weinstein MA. Options for cervical interbody fusion. *Selby Spine Conference*, Park City, Utah, 2005.

White AP, **Weinstein MA**, Patel TC, Grauer J, Horowitz M, Friedlaender GE. Autologous growth factor gene expression following lumbar spinal arthrodesis in a rabbit model: an evaluation of recombinant human osteogenic protein-1. *Biotechnologies for Spinal Surgery*, Halle, Germany, 2002.

Patel TC, White AP, **Weinstein MA**, Grauer J, Horowitz M, Friedlaender GE. Autologous growth factor gene expression following lumbar spinal arthrodesis in a rabbit model: an evaluation of recombinant human osteogenic protein-1. *Cervical Spine Research Society*, Monterey, California, 2001.

Weinstein MA, Lebowhl NH, Brown MD, Eismont FJ. Infections of the spine in patients with HIV. *North American Spine Society*, Seattle, Washington, 2001.

Weinstein MA, White AP, Patel TC, Grauer J, Horowitz MA, Friedlaender GE. Autologous growth factor gene expression following lumbar spinal arthrodesis in a rabbit model: an evaluation of recombinant human Osteogenic Protein 1. *International Society for the Study of the Lumbar Spine*, Edinburgh, UK, 2001.

Weinstein, M.A., Keggi, J., Zatorksi, L., Keggi, K.J. Bilateral total hip arthroplasty in patients at least 75 years of age. *American Academy of Orthopaedic Surgeons*, Orlando, Florida, 2000.

Weinstein, M.A., Rosenblatt, M., Patel, T.Ch. The contribution of atherosclerosis of the lumbar vasculature to low back pain. *American Academy of Orthopaedic Surgeons*, New Orleans, Louisiana, 1998

Weinstein, M.A., McCabe, J.P., Cammisa, F.P. Wound infection after adult spinal surgery. *American Academy of Orthopaedic Surgeons*, New Orleans, Louisiana, 1998.

Weinstein, M.A., McCabe, J.P., Cammisa, F.P. Postoperative spinal wound infection. *Case Western Reserve University Hospitals Resident and Fellow Spine Conference*, Atlanta, Georgia, 1998.

Weinstein, M.A., Rosenblatt, M., Patel, T.Ch. Atherosclerosis of the lumbar vasculature and low back pain. *North American Spine Society*, New York City, 1997.

Weinstein, M.A., McCabe, J.P., Cammisa, F.P. Wound infection after adult spinal surgery. *Eastern Orthopaedic Association*, Phoenix, Arizona, 1997.

Weinstein, M.A., Ivashkiv, L.B., Cammisa, F.P., Boachie-Adjei, O., O'Leary, P.F. Cytokine gene expression by human intervertebral disc cells. *Scoliosis Research Society*, St. Louis, Missouri, 1997.

Weinstein, M.A., McCabe, J.P., Cammisa, F.P. Post-operative spinal wound infection. *North American Spine Society*, Vancouver, Canada, 1996.

Weinstein, M.A., Ivashkiv, L.B., Cammisa, F.P., Boachie-Adjei, O., O'Leary, P.F. Cytokine gene expression by cells of the human intervertebral disc. *American Academy of Orthopaedic Surgeons*, Atlanta, Georgia 1996.

Lonner, B.S., **Weinstein, M.A.**, Lorei, M., Potter, H., O'Leary, P.F. Cervical laminectomy: Effect on spinal alignment and stability and adequacy of decompression in cervical spondylosis. *Cervical Spine Research Society*, New Mexico, 1996.

Weinstein, M.A., Ivashkiv, L.B., Cammisa, F.P., Boachie-Adjei, O., O'Leary, P.F. Identification of cytokine mRNA by human intervertebral disc cells. *International Interdiscal Therapy Society*, Amsterdam, The Netherlands, 1996.

Weinstein, M.A., McCabe, J.P., Slucky, A.V., Cammisa, F.P. Wound infection after spine surgery. *International R. Roy Camille Meeting on Spine*, Paris, France 1996.

Weinstein, M.A., Ivashkiv, L.B., Cammisa, F.P., Boachie-Adjei, O., O'Leary, P.F. Transforming growth factor- β , interleukin-6, and phospholipase-A₂ gene expression by cells of the human intervertebral disc. *North American Spine Society*, Washington, D.C., 1995.

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Weinstein, M.A., Boachie-Adjei, O., Gilbert, C., Gupta, M., Franco, D., Gale, L. Predictability of adequacy of lumbar decompression using dermatosensory-evoked potentials. *Critical Issues in Spinal Surgery*, 1994.

Boachie-Adjei, O., Gilbert, C., Gupta, M., **Weinstein, M.A.**, Franco, D., Gale, L. Predictability of adequacy of lumbar decompression using dermatomal somatosensory-evoked potentials. *North American Spine Society*, 1994.

Weinstein, M.A., Piepmeier, J.M, Keefe, D., Naftolin, F. Inhibition of malignant glial cell growth by estramustine, an estrogen based antimicrotubule agent, and synthesized analogs of estrone, and the basis for the use of estramustine in combination chemotherapy. *Yale Journal of Biology and Medicine*, June-July, 1993.

Weinstein, M.A., Keefe, D., Naftolin, F., Yoshida, D., Piepmeier, J.M. Estramustine enhances the cytotoxic action of bleomycin on human glioblastoma cells. *Fifth Canadian Neuro-Oncology Meeting*, 1992.

Weinstein, M.A., Keefe, D., Piepmeier, J.M., Naftolin, F. Tamoxifen potentiates the inhibitory effect of estrogen mustard on the proliferation of human malignant glial cells in culture. *Society for Gynecologic Investigation*, 1992.

Piepmeier, J.M., Yoshida, D., Keefe, D., Zielinski, J., **Weinstein, M.A.**, Lin, T., Chen, Z., Naftolin, F. Antiproliferative effects of estramustine and estrone analogs on human glioblastomas: New steroid-based agents. *Fifth Canadian Neuro-Oncology Meeting*, 1992.

Keefe, D., Nathan, J., **Weinstein, M.A.**, Chen, Z., Naftolin, F. Human epithelial ovarian cancer cell lines contains microtubule associated protein (MAP)-immunoreactivity and respond to the MAP-inhibiting agent estramustine. *Society for Gynecologic Investigation*, 1992.

Keefe, D., Piepmeier, J.M., **Weinstein, M.A.**, Zielinski, J., Naftolin, F. Estrogen conjugates have antimicrotubule and antiproliferative effects on cultured human glioma cells. *Society for Gynecologic Investigation*, 1992.

Weinstein, M.A., Pleim, E.T., and Barfield, R.J. Organizational effects of the progestin antagonist RU 38486 on vaginal introitus and sexual behavior in rats. *Conference on Reproductive Behavior*, 1989.

Pleim, E.T., Cailliau, P.J., **Weinstein, M.A.**, Etgen, A.M., and Barfield, R.J. Facilitation of female sexual behavior by the progestin receptor antagonist RU 38486. *Society for Neuroscience*, 1988.

Cailliau, P.J., Pleim, E.T., **Weinstein, M.A.**, Etgen, A.M., and Barfield, R.J. Facilitation of rodent sexual behavior by the progestin receptor antagonist RU 38486. *1st Annual Meeting of the New Jersey Society for Neuroscience*, 1988.

Scientific Meetings Moderated

Castellvi Spine Meeting: Spinal Deformity 2015
Selby Spine Symposium: *Best Papers*, 2010, 2011, 2012, 2013
Current Solutions in Spine Surgery 2013
Florida Orthopaedic Society Spine Section 2009

Industry Past/Present

Teaching faculty Osseon, Kyphon, Life Spine, Depuy Synthes
Research Support Medtronic/Kyphon
Consultant, Royalties Life Spine, Inc.
Consultant, Royalties Scient'x, Inc.