

Jennifer Lynne Cook MD

Florida Joint Replacement and Sports Medicine Center
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Education

Sports Medicine and Arthroplasty
Fellowship 2005-6

Insall Scott Kelly Institute
Department of Orthopaedic Surgery
New York, New York

Orthopaedic Surgery
Residency 2000-5

Harvard Combined Orthopaedic Program
Department of Orthopaedic Surgery
Boston, MA

Medical School
1996-2000

Harvard and Massachusetts Institute of Technology
Health Sciences and Technology Program
Boston, MA, MD, 2000

Undergraduate
1992.6

University of Michigan
Bachelor of Engineering (Mechanical)
Summa cum laude
Ann Arbor, MI, BSE, 1996

Research and Work Experience

September 2006 – present: Design consultant for Zimmer, Gender Knee Replacement

August 2006 – present: Private practice physician with Florida Joint Replacement and Sports Medicine, New Port Richey, FL

August 2005 – August 2006: Independent research at the **Insall Scott Kelly Institute** in New York City studying: the effects of Clearant® processing on anterior cruciate ligament grafts; the 7-10 year functional outcomes of posterior stabilized total knee arthroplasties; the effect of mini-incision total knee arthroplasty on the incidence of patellar release; gender differences in femoral component sizing in total knee arthroplasty

May 2003 – June 2005: Independent research under the direction of **Dr. Richard Scott** at the Brigham and Women's and New England Baptist Hospitals looking at the incidence of deep early and acute hematogenous postoperative infections after total knee arthroplasty

January 1997 – February 2000: Independent research under the direction of **Dr. William Harris** in the Orthopaedic Biomechanics Laboratory at Massachusetts General Hospital studying the influence of molecular weight on the cross-link density of ultra-high molecular weight polyethylenes and studying the molecular structure of ultra-high molecular weight polyethylenes

Winter 1995 - Summer 1996: Independent research under the direction of **Dr. Steven Goldstein** in the Orthopaedic Research Laboratory at the University of Michigan studying the influence of cyclic strain amplitude and timing of mechanical stimulation on secondary fracture healing

Winter 1995: Design consultant for **Sarns 3M Cardiovascular, Inc.** for the production of removable flanges for aortic cannulae used during open heart surgery

Fall 1994: Research assistant in the **Rehab-Engineering Laboratory** at the University of Michigan Hospital under the direction of Dr. Simon Levine - fixed electronic switches and installed them in the rooms of spinal cord injury patients to help them have control over their environment, including television, lights, and temperature

Summer 1994: Engineering intern at **U.S. Trade and Development Agency**, Rosslyn, Virginia - reviewed feasibility studies on proposed engineering projects, such as manufacturing plants, in Latin American countries and pointed out discrepancies between the studies and stipulations in the contract, and followed up on projects to determine their progress

Winter 1994: Volunteer at University of Michigan Hospital in the **Orthotics and Prosthetics Laboratory** - took molds of patients' limbs and constructed orthotic devices

Summer 1992: Research Assistant at the **National Institutes of Health** in Bethesda, Maryland, in the laboratory of biochemistry - isolated protein prothymosin from calf thymus and human myeloma cells and attempted to decode the first intron of the prothymosin protein

Publications and Lectures

Publication entitled, "Your Guide to Understanding Anterior Cruciate Ligament Reconstruction Options" for Clearant Grafts, Los Angeles, California; July, 2006.

Book chapter entitled, "MIS Total Knee Arthroplasty with the Limited Quadriceps Splitting Approach," Navigation and MIS in Orthopaedic Surgery, ed. Stiehl et al., Springer, 2007. pp. 194-203.

Publication entitled, "The Incidence of Lateral Release of the Patella in Total Knee Arthroplasty: A Comparison Between the Standard and Mini-Incision Approaches" *Clinical Orthopaedics and Related Research*, No. 452; 2006. pp. 123-6.

Publication entitled, "Pediatric Lateral Retinacular Release with Medial Plication Under Arthroscopic Control" in *The Pediatric Knee*, ed. Micheli and Kocher, Saunders Publ., Philadelphia, PA, 2006. pp. 163-6.

Publication entitled, "Arthroscopic Reduction and Internal Fixation of Tibial Spine Fractures: Epiphyseal Cannulated Screws" in *The Pediatric Knee*, ed. Micheli and Kocher, Saunders Publ., Philadelphia, PA, 2006. pp. 403-7.

Publication entitled, "Arthroscopic Transarticular Drilling for Juvenile Osteochondritis Dissecans" in *The Pediatric Knee*, ed. Micheli and Kocher, Saunders Publ., Philadelphia, PA, 2006. pp. 283-4.

Publication entitled, "Proximal Tibiofibular Reconstruction" in *The Pediatric Knee*, ed. Micheli and Kocher, Saunders Publ., Philadelphia, PA, 2006. pp. 178-9.

Publication entitled, "Late Hematogenous Infections After Total Knee Arthroplasty: A single surgeon's experience after 3013 consecutive total knee arthroplasties" *The Journal of Knee Surgery*, estimated publication date January, 2008.

Publication entitled, "Minimal Incision Total Knee Arthroplasty" *The Journal of Knee Surgery*, Vol. 19, No. 1; 2006. pp. 46-51.

Publication entitled, “Bony Ankylosis Following Total Knee Arthroplasty,” Journal of Arthroplasty, Vol. 20, No. 1; 2005. pp. 122-4.

Abstract entitled, “The Effect of Molecular Weight on the Cross-Link Density of Irradiated Ultra-High Molecular Weight Polyethylenes” accepted for a **lecture** at the Society of Biomaterials conference, April 1998

Lecture at the Society of Biomaterials entitled, “A Novel Method for Measuring the Cross-Link Density of Ultra-High Molecular Weight Polyethylenes”, April 1998, and associated **abstract**

Abstract entitled, “The Influence of Cyclic Strain Amplitude and Timing of Mechanical Stimulation on Secondary Fracture Healing” accepted by the Orthopaedic Research Society, November 1995

Certification

Board Eligible (Passed Step 1 July 2005, American Board of Orthopaedic Surgeons)

State of New York Medical License

State of Florida Medical License

Medical Societies

Florida Medical Association	Member 2006 - present
Pasco County Medical Society	Member 2006 - present
American Academy of Orthopaedic Surgeons	Candidate Member (August 2006 – present)
Arthroscopy Association of North America	Member 2003 – present
Ruth Jackson Orthopaedic Society	Member 1998 – 2005
Massachusetts Medical Society	Member 1998 – 2000

Awards/Honors

Administrative Chief Resident, Massachusetts General Hospital, June 2004 – January 2005

Liberty Mutual Research Scholar in Health Sciences and Technology, Harvard Medical School

Harvard Medical School Summer Fellowship to pursue orthopaedic research at Massachusetts General Hospital

Mildred and Steele Bailey Prize for outstanding leadership, service, and academics

Summer Biomedical Fellowship at University of Michigan

William Branstrom Freshman Academic Award

Tau Beta Pi National Engineering Honor Society and Tau Beta Pi Scholarship Award

Golden Key National Honor Society

Gamma Sigma Alpha National Greek Honor Society

Pi Tau Sigma National Mechanical Engineering Honor Society

Epeians Engineering Leadership Honor Society

Phi Kappa Phi National Honor Society

Adara Interdisciplinary Leadership Honor Society

Marian Sarah Parker Scholar Program

Nominated by the University of Michigan and selected for the **Enserch Excellence in Engineering** Internship Program in Washington, DC

Howard Hughes Fellowship to conduct biochemical research at the **National Institutes of Health**

Valedictorian of High School Class of 408 students
