

MANISH K. GUPTA, MD, FAAOS

Department of Surgery
Charles E. Schmidt College of Medicine
Florida Atlantic University
777 Glades Road, BC-71, Rm 315
Boca Raton, FL 33431
Email: mgupta@fau.edu

Sports and Orthopedic Center
6280 W. Sample Rd., Suite 203
Coral Springs, FL 33077
Phone: (973) 223-4192
Email: mgupta@specialtyoc.com

EDUCATION AND MEDICAL TRAINING

Sports Medicine Fellowship MedStar Union Memorial Hospital, Baltimore, MD	2005-2006
Orthopedic Surgery Resident St. Joseph's Regional Medical Center & Seton Hall University School of Graduate Medical Education, Patterson, NJ	1999-2005
Doctor of Medicine University of Miami, School of Medicine, Miami, FL	1994-1999
Post Baccalaureate Studies Florida Atlantic University, Boca Raton, FL	1993-1994
Bachelor of Science in Microbiology University of Florida, Gainesville, FL	1989-1993

BOARD CERTIFICATION AND LICENSURE

Board Certified Orthopedic Surgeon American Board of Orthopedic Surgery	2008
Licensed Physician #: ME95180 State of FL	

ACADEMIC APPOINTMENTS

Affiliate Professor of Surgery Department of Surgery Charles E. Schmidt College of Medicine Florida Atlantic University, Boca Raton, FL	2012-Present
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Affiliate Professor 2010-Present
Exercise Science and Health Promotion Department
Florida Atlantic University (FAU), Boca Raton, FL
Advisory Board Member - Madden Center for Value Creation, College of Business, FAU

Adjunct Faculty 2008-2010
College of Medicine
University of Miami-Florida Atlantic University, Miami, FL

MENTORING EXPERIENCE

Mentor for Edward P. Davis, FAU Computer Engineering PhD. Candidate 2019-2022
Current Status: Graduated

PROFESSIONAL EXPERIENCE

Orthopedic Surgeon, Sports and Orthopedic Center 2012-Present
6280 W. Sample Road, Suite 203, Coral Springs, FL

Team Physician, Florida Atlantic University 2010-2019
Boca Raton, FL

On-Call Orthopedic Surgeon, Boca Raton Regional Hospital 2009-Present
800 Meadows Road, Boca Raton, FL

On-Call Orthopedic Surgeon, West Boca Medical Center 2008-Present
21644 State Road 7-N, Boca Raton, FL

On-Call Orthopedic Surgeon, Broward Health North 2008-Present
201 E. Sample Road, Deerfield Beach, FL (*formerly North Broward Medical Center*)

On-Call Orthopedic Surgeon, Northwest Medical Center 2007-Present
2801 N State Road 7, Margate, FL

On-Call Orthopedic Surgeon, Broward Health Coral Springs 2006-Present
3000 Coral Hills Drive, Coral Springs, FL (*formerly Coral Springs Medical Center*)

Team Physician, Coral Springs High School 2007-Present
7201 W. Sample Road, Coral Springs, FL

Orthopedic Surgeon, Specialty Orthopedic Center 2009-2012
9325 Glades Road, Suite 205, Boca Raton, FL

Orthopedic Surgeon, Tenet Florida Physician Services 2008-2009
9960 N Central Park Blvd, Unit 400, Boca Raton, FL

Orthopedic Surgeon, Broward Health North 2006-2008
201 E. Sample Road, Deerfield Beach, FL

Team Physician, West Boca Raton Community High School 2007-2008
12811 Glades Road, Boca Raton, FL

RESEARCH PROJECTS

Principal Investigator, Sports and Orthopedic Center
InGeneron Inc. OAFJ-001: Safety and Efficacy of Injection of Adipose-derived Regenerative Cells (ADRCs) in Patients Suffering From Osteoarthritis of the Facet Joints. (2020).

Principal Investigator, Sports and Orthopedic Center
InGeneron Inc. RC-002: A Prospective, Double-Blinded, Multi-Center Pivotal Trial of Autologous Adult Adipose-Derived Regenerative Cell Injection Into Chronic Partial-Thickness Rotator Cuff Tears. (2019).
This has resulted in one manuscript

Principal Investigator, Sports and Orthopedic Center
Ecron Acunova GmbH: Exploratory evaluation of the potential for long-term retention of Gadolinium in the bones of patients who have received Gadolinium based Contrast Agents according to their medical history. (2017).

Principal Investigator, Sports and Orthopedic
CenterCytonics Corp. APIC-CF: A Phase I/II, Multicenter, Double-Blind, Placebo-controlled Safety and Efficacy Study to Evaluate APIC-CF Therapy for Mild to Moderate Primary Osteoarthritis of the Knee. (2017).

Viking Therapeutics VK5211-201: A Phase II, Randomized, Double-Blind, Parallel Group, Placebo-Controlled, Multi-Center Study to Explore the Efficacy, Safety and Tolerability of VK5211 in Subjects with Acute Hip Fracture. (2016).

Principal Investigator, Sports and Orthopedic Center
Sponsored by Navartis
Summary of Project: Pivotal trial investigation to assess the local and systemic safety and tolerability of a single peritendon injection of NGI226 MP in patient with mid-portion Achilles tendinopathy

Co-Investigator, Florida Atlantic University

Summary of Project: The use of kinematic technology to prevent injury and optimize training in female Division 1 Basketball athletes

PUBLICATIONS

Published in Peer-Reviewed Journals

Pandya, A. S., Castillo, M., Hashemi, J., **Gupta, M.**, Graves, B. S., & Sanghvi, H. A. (2023, July). A 3D-Based Novel Framework Using Artificial Intelligence and Augmented Reality for Biomechanical Analysis: An Experimental Study. In 2023 IEEE World Conference on Applied Intelligence and Computing (AIC) (pp. 92-98). IEEE.

Patel, K., Blackard, M. F., Pandya, D. A., Srivastava, P., **Gupta, M** & Pandya, A. S. (2020). Hyperuricemia and cardiovascular implications. WSEAS Transactions on Biology and Biomedicine, ISSN/E-ISSN, 1109-9518.

Blackard, M. F., Sawhney, V., Castillo, M., **Gupta, M.**, Pandya, A. S., & Patel, R. (2020). A case report of concussion in female collegiate volleyball player. Sports Orthopaedics and Traumatology, 36(4), 377-383.

Book Chapters

1. **Gupta, MK** and Kalb, RL. Femoral Fractures. In: R Birrer and RL Kalb, editors. Field Guide to Fracture Management. Philadelphia: Lippincott Williams &Wilkins; 2005. p. 33-40.
2. **Gupta, MK** and Kalb, RL. Patellar Fractures. In: R Birrer and RL Kalb, editors. Field Guide to Fracture Management. Philadelphia: Lippincott Williams &Wilkins; 2005. p. 41-44.
3. **Gupta, MK** and Kalb, RL. Fibular Fractures. In: R Birrer and RL Kalb, editors. Field Guide to Fracture Management. Philadelphia: Lippincott Williams &Wilkins; 2005. p. 45-48.
4. **Gupta, MK** and Kalb, RL. Tibial Fractures. In R Birrer and RL Kalb, editors. Field Guide to Fracture Management. Philadelphia: Lippincott Williams &Wilkins; 2005. p. 49-54.

PRESENTATIONS

Oral Presentations

1. **Gupta, M.K.**, Nath, Shaym, Dadlani, Sunil: (Panelist) at IOT Solution World Congress, Revolutionizing the knee conditions with Digital Knee – Game Changing Technologies for Industry Transformation, Barcelona, Spain, 31st January – 2nd February 2023

2. **Gupta, M.K.** Key-note speaker, Special Lecture, American College of Sports Medicine Annual Meeting. Orlando, FL. May 28th, 2019.
3. **Gupta, M.K.** Expert Panelist. Exercise Professional Careers Track: Licensed Careers Track for the Student and Early Career Pre-Conference, American College of Sports Medicine Annual Meeting. Orlando, FL. May 28, 2019. – Expert Panelist
4. Perlmutter, J.H., Graves, B. S., Guslyayev, S., Haischer, M.H., Burnside, J., and **Gupta, M.K.** Impact Assessment in concussed Division I collegiate football players. Oral presentation. Southeast American College of Sports Medicine, Chattanooga, February 2018.
5. **Gupta, M.K.** Athletic Engineering the Dynamic Monitoring of the Human machine. ICFO-The Institute of Photonic Sciences Barcelona, Spain February 3, 2015.
6. **Gupta, M.K.** Big Data Sport Analytics for Prevention and Recovery from Concussions. Sports Analytics Innovation, San Francisco, CA September 11, 2014.
7. **Gupta, M.K.** Outcome of Total Knee Replacement (TKR) in Patients with Parkinson's Disease: A Study of 24 patients With an Average Follow up of 8.5 Years Annual AAOS Meeting Chicago, IL 2006.
8. **Gupta, M.K.**, Patel D.V., Ruoff, M. Role of MRI in the Evaluation and Treatment of Traumatic Spondylolisthesis of L5-S1. (2004)
9. **Gupta, M.K.** Congenital Pseudoarthrosis of the Tibia treated with Calcitonin Infusion Pump: A fifteen-year follow up. Annual Meeting New Jersey Orthopedic Symposium, 36th Annual Northeastern-Mid Atlantic Orthopedic Resident's Conference, October 2003.
10. **Gupta, M.K.** Complicated Distal Tibia/Fibula Fractures in a patient with Total Knee Arthroplasty Annual Meeting New Jersey Orthopedic Symposium - 35th Annual Northeastern-Mid-Atlantic Orthopedic Resident's Conference, October 2002.
11. **Gupta, M.K.** Rare Gram-Positive Infections of the Hip. Annual Meeting New Jersey Orthopedic Symposium, 34th Annual Northeastern-Mid Atlantic Orthopedic Resident's Conference, October 2001.

Poster Presentations

1. Godwa, A, Doshi, A, Sanghvi, H.A., Graves, B.S., Pandya, A.S., **Gupta, M** "A 3D-Based framework using artificial intelligence for biomechanical analysis in orthopedic practice", Florida Atlantic University, USA, Spring 2023
2. Davis, E. P., Armitage, B. M., Graves, B. S., **Gupta, M. K.** The efficacy of neurocognitive assessments in Division 1 Collegiate Football Athletes. National Strength and Conditioning Conference, Washington, D.C. July 2019.

3. Perlmutter, J.H., Graves, B.S. Haischer, M.H., Burnside, J. **Gupta, M.K.** Baseline and post injury neurocognitive assessments in collegiate football players. Southeast American College of Sports Medicine, Greenville, South Carolina. February 2017.
4. Graves, B. S., Burnside, J., and **Gupta, M.** Assessing football players with concussions. Presented at American College of Sports Medicine's National Meeting. Boston, Massachusetts. June 2016.
5. Graves, B.S., Burnside, J., and **Gupta, M.K.** Assessing Concussions in Collegiate Football Players, ACSM National Conference, Boston, Massachusetts, May 2016.
6. **Gupta, M.K.** Long Term Clinical, Functional, and Radiographic Results of Arthroscopic Partial Medial Meniscectomy in an Otherwise Normal Knee Annual AAOS Meeting Chicago, IL, 2006.
7. **Gupta, M.K.** Superolateral Onlay Bone Graft (SLOB) for Dysplastic Hips in Children with Dystonic Cerebral Palsy. Senior Thesis Presentation at the Annual Meeting New Jersey Orthopedic Symposium, 37th Annual Northeastern-Mid Atlantic Orthopedic Resident's Conference, October 2004.

Grants:

Team: Sanghvi, H.A., Graves, B.S., **Gupta, M.**, Pandya, A.S., Agarwal, A.

National Science Foundation (NSF) I Corps:
September 2022 – December 2022

Grant Amount: \$9000

Association: Team Lead

Project Title: AI for Biomechanical Analysis

News article:

Coral Springs Sports and Orthopedic Center, FAU, Broward Health, & Advanced Research:
Revolutionizing Healthcare Using Artificial Intelligence

<https://coralspringstalk.com/fau-coral-springs-affordable-telehealth-45643>