

Curriculum Vitae and Bibliography

Matthew M Crowe, MD

Personal Information

Place of Birth: Scottsdale, AZ
Work Address: 4500 San Pablo Rd
Jacksonville, FL 32224
Email Address: crowe.matthew@mayo.edu

Present Academic Rank and Position

Assistant Professor of Orthopedics - Mayo Clinic College of Medicine and Science 11/2019 - Present
Consultant - Department of Orthopedic Surgery, Mayo Clinic, Jacksonville, Florida 09/2020 - Present
Division Chair - Division of Sports Medicine, Department of Orthopedic Surgery, Mayo Clinic, Jacksonville, Florida 11/2020 - Present

Education

Stanford University, Palo Alto, California - BS, Engineering (Biomechanical) with Distinction 2003 - 2007
Duke University School of Medicine, Durham, North Carolina - MD 2007 - 2011
Mayo Clinic School of Graduate Medical Education, Rochester, Minnesota - Residency, Orthopedic Surgery (Rochester MN) 2011 - 2016
Orthopedic Surgery, Programs in Rochester, Mayo School of Graduate Medical Education, Mayo Clinic College of Medicine, Rochester, Minnesota - Resident 07/2011 - 06/2016
Southern California Orthopedic Institute, Van Nuys, California - Fellowship, Orthopedic Sports Medicine Surgery and Arthroscopy 2016 - 2017

Additional Education

San Diego Shoulder Course 06/2017
3 Day Shoulder Course on advanced techniques, San Diego, California
Mayo Clinic Sports Medicine for the Primary Care Clinician 02/2018 - 02/2018
Attendee and presenter at 2 day nonoperative sports medicine conference.
American Academy of Orthopedic Surgeons Annual Meeting 03/2018
Attended AAOS Annual Meeting in San Diego, San Diego, California
Orthopedic Summit 12/2018 - 12/2018
4 day course for advanced orthopedic techniques in hip, knee, and shoulder surgery., Las Vegas, Nevada
Arthrex Naples Knee Summit 01/2019 - 01/2019
Advanced knee surgery techniques course, Naples, Florida
Mayo Clinic Comprehensive Shoulder and Elbow Course 01/2019
Faculty Presenter
2nd Annual Mayo Arizona Sports Medicine Conference 04/2019 - 04/2019
Presenter and Lecturer at Mayo Arizona Sports Medicine Conference, Tempe, Arizona
Mayo Clinic Comprehensive Shoulder and Elbow Course 01/2020 - 01/2020
Faculty Presenter, Phoenix, Arizona

Certification

Board Certifications

American Board of Orthopaedic Surgery (ABOS)

Orthopedic Surgery

2019 - Present

Other Certifications**Mayo Clinic Quality Academy**

Mayo Clinic Quality Fellow: Bronze Level Certification

2014

Licensure

Minnesota 55256 (Medical)

Florida 130937 (Medical)

Honors and Awards

NCAA All-American- Swimming - NCAA All-American Team, Palo Alto, California 2005 - 2007
7 Time First Team and Honorable Mention Division 1 All-American in Swimming for Stanford University

Frederick E. Terman School of Engineering Award - Stanford University, Palo Alto, California 2007
Awarded to the top 5% in the Stanford School of Engineering

NCAA Postgraduate Scholarship Recipient - NCAA Division I Athletics, Palo Alto, California 2007
Recipient of the NCAA Postgraduate Scholarship Recipient as a 4 year member and All-American on the Stanford Men's Swim Team

Stanford Athletics Block "S" Honors Award - Stanford University, Palo Alto, California 2007
Awarded to the 4 year Varsity Student Athlete with the highest four year GPA

Duke University AOA Member - Alpha Omega Alpha Honor Medical Society, Durham, North Carolina 2010 - 2011
Elected to AOA as third year medical student

Duke School of Medicine Senior Merit Scholarship - Duke University School of Medicine, Durham, North Carolina 2010

Residency Clinical Competency Award - Department of Orthopedic Surgery, Mayo Clinic, Rochester, Minnesota 2016
Awarded to the Chief Resident with the highest staff clinical evaluations.

Previous Professional Positions and Major Appointments

Senior Associate Consultant - Department of Orthopedic Surgery, Mayo Clinic, Jacksonville, Florida 09/2017 - 09/2020

Service**Community Memberships and Services**Stanford University
Alumni Interview

2009 - 2020

USA Basketball
Team Physician

05/2019 - Present

Professional Memberships and Societies**Professional Memberships and Services**Alpha Omega Alpha Honor Medical Society
Member

2011 - Present

American Academy of Orthopedic Surgeons
Member

2012 - Present

American Orthopedic Society for Sports Medicine
Member

2016 - Present

Education Interests and Accomplishments

Teaching

Hip 'Preservation' in 2017 Led a teaching conference for providers at Naples Community Hospital about advances in surgical treatment of hip conditions. Naples Community Hospital Teaching Conference Naples, Florida	11/2017
Sports Medicine Update in 2017 Presented at Mayo Clinic Care Network Partner Naples Community Hospital Naples Community Hospital Medical Grand Rounds Naples, Florida	11/2017
Sports Medicine in 2018: 'New' Options for Old Problems in Shoulder, Hip, and Knee. Presented at Mayo Clinic Medical Grand Rounds Mayo Clinic Florida Medical Grand Rounds Jacksonville, Florida	04/2018
Tuesday Morning Resident Teaching Conference Lead a weekly Tuesday morning case base resident education conference for the Mayo and UF Health Orthopedics residents based at Mayo Florida campus.	07/2018 - Present
Associate Course Instructor Taught complex knee techniques at Orthopedic Learning Center cadaver course. AANA Comprehensive Advanced Knee Course Rochester, Minnesota	06/12/2021

Mentorship

Hudspeth, Jared (Orthopaedic Surgery Resident) Description: Current Status: Orthopedic Sports Medicine Fellow Outcome:	01/2018 - 06/2018
Hankins, David (Orthopaedic Surgery Resident) Description: Current Status: Orthopedic Sports Medicine Fellow Outcome:	04/2018 - 06/2018
Rhea, Evan (Orthopaedic Surgery Resident) Description: Current Status: Outcome:	07/2018 - 09/2018
James, Nicholas (Orthopaedic Surgery Resident) Description: Current Status: Outcome:	10/2018 - 12/2018

Academic Career Development

Duke Sports Medicine Feagin Leadership Scholar Year long leadership training program culminating in the annual Feagin Leadership Symposium Durham, North Carolina	2010 - 2011
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Educational Activities

I am passionate about resident education and mentorship. Within my first year of practice, I worked to have a full time resident from the UF program rotate with me in a mentorship-style experience. I have started a Tuesday Morning teaching conference for the residents on campus and run a case based and lecture based didactic session. I have partnered with our colleagues in MSK radiology to run a monthly arthroscopy-advanced imaging teaching session. I am interested in advancing simulated arthroscopic education for the residents.

Institutional/Departmental Administrative Responsibilities, Committee Memberships

and Other Activities**Mayo Clinic**

Mayo Clinic Florida Sports Medicine Business Planning Committee
 Chair 07/2018 - Present
 Led a group tasked at developing a business plan to grow the multidisciplinary Sports Medicine program and Mayo Clinic Florida.

Mayo Clinic in Florida

Mayo Clinic Florida Committees
 Outpatient Practice Subcommittee
 Member 01/2019 - Present

Presentations Extramural**National or International****Invited**

Hip 'Preservation' in 2017: What We Can Do Before Metal and Plastic. 10/2017
 Invited lecture at the Mayo Clinic Alumni Association Biennial Meeting
 Mayo Clinic Alumni Association Biennial Meeting.
 Jacksonville, Florida

Making the Cut: Recovery after hip and shoulder surgery in athletes 10/2019
 Invited Lecturer
 The Future of Sports Medicine - 2019
 Londrina, Brazil

Reaching for New Heights: Emerging Orthopedic Procedures in Overhead Athletes 10/2019
 Invited Lecturer
 The Future of Sports Medicine
 Londrina, Brazil

Soft tissue injuries in the athletic hip 02/12/2021
 Virtual faculty lecture
 4th Annual Mayo Clinic Sports Medicine Summit: Care for the Athlete
 Phoenix, Arizona

Oral

In vivo Biomechanical Analysis of The Distal Radioulnar Joint Ligaments. 01/2011
 Crowe MM, Spritzer CE, Ruch DS, DeFrate LE. "In vivo Biomechanical Analysis of The Distal RadioulnarJoint Ligaments." Orthopedic Research Society Annual Meeting. 2011 Jan, Long Beach, CA.
 Orthopedic Research Society Annual Meeting
 Long Beach, California

"Outcomes of the Reverse Prosthesis in Revision Shoulder Arthroplasty." 03/2016
 Wagner ER, Houdek MT, Crowe MM, Elhassan BT, Sanchez-Sotelo J, Cofield RH, Sperling JW. "Outcomes of the Reverse Prosthesis in Revision Shoulder Arthroplasty." American Academy of Orthopedic Surgeons Annual Meeting, 2016 March, Orlando, FL.
 American Academy of Orthopedic Surgeons Annual Meeting
 Orlando, Florida

Poster

Partial Quadriceps Tendon Rupture in an Avid Hiker 04/2018
 Case presentation poster. PI: Jennifer Maynard MD (Family Medicine)
 AMSSM Annual Meeting

Regional

Invited

Hip Pain in the Athletic Individual: What to know, How to treat, and Who to refer. Invited lecture at Mayo Clinic Sports Medicine Conference Mayo Clinic Sports Medicine for the Primary Care Clinician Orlando, Florida	02/2018
ACL with Concomitant Meniscus Tear: Who Gets a Repair/Debridement? Faculty lecturer 2nd Annual Mayo Clinic Sports Medicine Summit 2019 Tempe, Arizona	04/2019
Acute Management of Knee Dislocation Faculty lecturer 2nd Annual Mayo Clinic Sports Medicine Summit	04/2019
Mayo Clinic Orthopedics and Sports Medicine: Return to Safe Sports During COVID Livestream Mayo Clinic CME Event Mayo Clinic Florida Orthopedics and Sports Medicine Virtual CME Conference Jacksonville, Florida	09/15/2020
Mayo Clinic Orthopedics and Sports Medicine: Hip Pain in the Young Athlete Livestream Mayo Clinic CME Event Mayo Clinic Florida Orthopedics and Sports Medicine Virtual CME Conference Jacksonville, Florida	10/20/2020
SLAP ATTACK: Return to play after surgery for labral injuries of the shoulder Faculty lecture 5th Annual Mayo Clinic Sports Medicine for the Clinician 2021 Jacksonville, Florida	03/05/2021
When to refer for surgery: The turning points for basketball injuries Faculty Lecture 5th Annual Mayo Clinic Sports Medicine for the Clinician 2021 Jacksonville, Florida	03/05/2021

Oral

Prior Patella Fracture Has No Effect On Long-Term Survivorship of TKAs. Houdek MT, Watts CD, Wagner ER, Shannon SF, Crowe MM, Abdel MP, Sems SA, Sierra RJ, "PriorPatella Fracture Has No Effect On Long-Term Survivorship of TKAs." MidAmerica Orthopedic Association Annual Meeting. 2015 April, Hilton Head, SC. MidAmerica Orthopedic Association Annual Meeting Hilton Head Island, South Carolina	04/2015
Surgical Outcomes of Medial vs. Lateral Multi-ligament Injured / Dislocated Knees. Krych AJ, King AH, Prince MR, Pareek A, Crowe MM, Stuart MJ, Levy BA. "Surgical Outcomes of Medial vs. Lateral Multi-ligament Injured / Dislocated Knees." MidAmerica Orthopedic Association Annual Meeting. 2016 April, Bonita Springs, FL. MidAmerica Orthopedic Association Annual Meeting Bonita Springs, Florida	04/2016
Bicep Death: Above, At, or Below the Groove Faculty Lecturer Mayo Comprehensive Elbow & Shoulder Course Scottsdale/Phoenix, Arizona	01/2019
Bicep Death: Above, At, or Below the Groove Faculty Lecturer Mayo Comprehensive Elbow & Shoulder Course Scottsdale/Phoenix, Arizona	01/25/2020
Explaining Common Shoulder Procedures for Athletes and Active Individuals Faculty Lecturer 4th Annual Sports Medicine for the Primary Care Clinician Orlando, FL, Florida	03/2020

Shouldering On: Guiding the Post-Shoulder Surgery Patient Back to Exercise"

03/2020

Faculty Lecturer

4th Annual Sports Medicine for the Primary Care Clinician

Orlando, FL, Florida

Clinical Practice, Interests, and Accomplishments

My clinical interests focus on growing the sports medicine and shoulder surgery service lines at Mayo Clinic Florida into a regional and nationally recognized presence aligned and working in concert with recent growth at the other Mayo Clinic sites. I hope to grow the program to increase the number of providers and recruit and attract national leaders my subspecialty to join the practice at Mayo Clinic Florida. We have recently launched a pilot trial for a multidisciplinary Sports Medicine Center in Florida which I have served as the chair of. I am interested on process improvement, efficiency, and optimization of the clinical practice and have been recently named to the Outpatient Subcommittee of the Clinical Practice Committee.

Research Interests and Accomplishments

I am interested in clinical and translational shoulder, knee, and hip research and working to form a three site database for arthroscopy and arthroplasty procedures.

Bibliography

Peer-reviewed Articles

1. Wysocki RW, Richard MJ, **Crowe MM**, Leversedge FJ, Ruch DS. Arthroscopic treatment of peripheral triangular fibrocartilage complex tears with the deep fibers intact. *J Hand Surg Am.* 2012 Mar; 37 (3):509-16 Epub 2012 Feb 02 PMID: 22305741 DOI: 10.1016/j.jhsa.2011.12.023
2. **Crowe MM**, Dahm DL. Update on patellofemoral arthroplasty. *Oper Tech Sports Med.* 2015 Jun; 23(2):157-63.
3. **Crowe MM**, Houdek MT, Moran SL, Kakar S. Aneurysmal Bone Cysts of the Hand, Wrist, and Forearm. *J Hand Surg Am.* 2015 Oct; 40: (10)2052-7. PMID: 26253603 DOI: 10.1016/j.jhsa.2015.06.108
4. **Crowe MM**, Elhassan BT. Scapular and Shoulder Girdle Muscular Anatomy: Its Role in Periscapular Tendon Transfers. *J Hand Surg Am.* 2016 Feb; 41: (2)306-14; quiz 315. PMID: 26754193 DOI: 10.1016/j.jhsa.2015.06.123
5. **Crowe MM**, Martin JT, Grier AJ, Spritzer CE, Richard MJ, Ruch DS. In Vivo Mechanical Function of the Distal Radial Ulnar Ligaments During Rotation of the Wrist *Journal of Hand Surgery.* 2020. PMID: 32800375 PMCID: 7655646
6. Pelkowski JN, Wilke BK, **Crowe MM**, Sherman CE, Ortiguera CJ, Ledford CK. Robotic-Assisted versus Manual Total Knee Arthroplasty in a Crossover Cohort: What Did Patients Prefer? *Surg Technol Int.* 2020 Nov 28; 37:336-340 PMID: 32894516
7. Rogers T, Werthel JD, **Crowe MM**, Ortiguera CJ, Elhassan B, Sperling JW, Sanchez-Sotelo J, Schoch BS. Shoulder arthroplasty is a viable option in patients with Ehlers-Danlos syndrome. *J Shoulder Elbow Surg.* 2021 Apr 1 Epub 2021 Apr 01 PMID: 33812023 DOI: 10.1016/j.jse.2021.03.146
8. Yoon JH, Marigi EM, **Crowe MM**, Ortiguera CJ, Schoch BS. Articular Surface Failure of a Hybrid Anatomic Glenoid Component: A Case Report. *JBJS Case Connect.* 2021 Jul 15; 11 (3) Epub 2021 July 15 PMID: 34264894 DOI: 10.2106/JBJS.CC.21.00137
9. Marigi E, Marigi I, **Crowe MM**, Ortiguera CJ, Ledford CK, Werthel JD, Sperling JW, Sanchez-Sotelo J, Schoch BS. Primary reverse shoulder arthroplasty in patients with metabolic syndrome is associated with increased rates of deep infection. *J Shoulder Elbow Surg.* 2021 Sep; 30 (9):2032-2040 Epub 2021 Feb 08 PMID: 33571655 DOI: 10.1016/j.jse.2020.12.025

Non-Peer-reviewed Articles

1. Kuzma S, **Crowe MM**, Dahm DL. Joint Preservation Algorithm in Patellofemoral Pain. *Patellofemoral.org.* 2012.

Book Chapters

1. **Crowe MM**, Dahm DL, Taunton MJ. Patellofemoral Arthroplasty. In: Miller MD, Browne JA, Cole BJ, Cosgarea AJ, Owens BD, editor(s). *Knee Surgery.* 2 ed. Chapter 36. Philadelphia PA: Elsevier; 1/1/2018. p. 336-342.

Abstracts

1. Gillespie N, Bojaxhi E, Ardon A, Barsoum G, **Crowe M**, Morgan T, Porter S. L2 paravertebral catheter versus periarticular infiltration after direct anterior total hip arthroplasty: a retrospective review American Society of Regional Anesthesia and Pain Medicine annual meeting. 2020.

Miscellaneous

1. Pujalte G, **Crowe M**. Triathlete Can Recover from Hip Labral Tear Beginner Triathlete.

* Indicates that the primary author was a mentee of this author.