

EDUCATION/TRAINING

Cleveland Clinic, Cleveland, OH

- Shoulder and Elbow Fellowship, *July 2024*

The University of Arizona College of Medicine – Phoenix, Phoenix, AZ

- Orthopaedic Surgery Residency Program, *June 2023*

The University of Texas Medical Branch at Galveston School of Medicine, Galveston, TX

- Doctor of Medicine, *Magna Cum Laude, June 2018*

The University of Texas at Austin, Austin, TX

- Bachelor of Science in Biology with Honors, *May 2014*

EMPLOYMENT

Banner University Medical Center, Phoenix, AZ

- Orthopedic Shoulder and Elbow Surgeon, *Aug 2024-present*

COURSES AND CERTIFICATIONS

- Stryker Fellows Course, May 2024
- Enovis Fellows Course, Mar 2024
- Enovis Fellows Course, Mar 2023
- Banner Health Leadership and Development Course for Residents, 2021-2022
- Mayo Clinic Comprehensive Shoulder and Elbow Course, Feb 2022
- AO Trauma Basic Principles of Fracture Management, Dec 2021
- American Shoulder and Elbow Society Resident Course, Nov 2021
- Southwestern Orthopedic Trauma Association Resident Course, May 2019

PEER-REVIEWED PUBLICATIONS

1. Parmar RP, Morrow D, Holle AM, Amini MH, Batterton E, Lederman E, **Patel M**. Recent Platelet-Rich Plasma Injections Within Six Months Prior to Total Shoulder Arthroplasty Are Associated With Increased Infection Risk. *JSES. Submitted for publication.*
2. **Patel M**. Cogan C, Rodrigues JA, Zhang C, Jun BJ, Ho J, Entezari V, Iannotti JP, Ricchetti ET. Effect of Combined Version on Impingement-Free Rotational Range of Motion in Three Different Implant Types in Reverse Shoulder Arthroplasty. *JSES. Submitted for publication.*
3. **Patel M**, McKee M, Dehghan N. Humeral Shaft Fractures. *JAAOS Review Article. Submitted for publication.*
4. Vohra A, Galal Y, Lederman E, Shah AA, **Patel M**. Free Bone Block Procedures for Anterior Shoulder Instability Have a Higher Reoperation Rate Than Latarjet Procedures at Minimum Three Years Postoperatively. *Arthroscopy. Submitted for publication.*

5. Parmar RP, Bera S, Brady T, **Patel M**, Shah AA, Lederman E. Impact of Initial Nonoperative Treatments on Time to Total Shoulder Arthroplasty in Glenohumeral Osteoarthritis. *JSES. Submitted for publication.*
6. Bowler A, ... **Patel M**, ... Throckmorton T, Wright T, ASES Multicenter Research Group. Surgical and Patient Factors Associated with Baseplate Failures After Reverse Shoulder Arthroplasty: A Study by the ASES Complications of RSA Multicenter Research Group. *JSES. Submitted for publication.*
7. Roache WK, Schwartz K, Castaneda P, Hui C, **Patel M**, Amini MH. Using a Glenoid Pin-Guide with Built-in Inferior Tilt Still Leaves the Majority of Implants Superiorly Tilted: The Importance of the Modified Reverse Shoulder Arthroplasty (mRSA) Angle. *Seminars in Arthroplasty: JSES. Submitted for publication.*
8. **Patel M**, Schwartz K, Schenk M, Crenshaw K, Caplinger R, Raasch W, Waslewski G, Lederman E, Lund P. Athletes with a History of UCL Reconstruction Have Similar Findings on Valgus-Stress MRI to Non-Reconstructed Elbows in Professional Pitchers. *Orthopaedic Journal of Sports Medicine. Submitted for publication.*
9. **Patel M**, Vohra A, Kisana H, Qubain L, McKee M, Dehghan N. Tuberosity-Based Fixation in Complex Proximal Humeral Fractures Improves Obtaining and Maintaining Tuberosity Reduction with Good Clinical and Radiographic Outcomes. *Journal of Orthopedic Trauma International. Submitted for publication.*
10. **Patel M**, Cogan C, Sahoo S, Cannon D, Grewal G, Owings TM, Ma J, Shemo C, Baker A, Jun BJ, Iannotti JP, Ho J, Ricchetti ET, Derwin K, Levy J, Entezari V. Postoperative Patient Reported Outcomes and Radiographic Findings Do Not Significantly Change Between One and Two Years Postoperatively After Primary Anatomic Shoulder Arthroplasty. *Journal of Shoulder and Elbow Surgery.* 2025; 34(6).
11. Cogan C, **Patel M**, Guevara J, Sahoo S, Jun BJ, Shemo C, Baker A, Qi A, Entezari V, Iannotti JP, Ho J, Ricchetti ET. Outcomes of Anatomic Total Shoulder Arthroplasty with Non-Augmented Glenoid Component for Walch B2 and B3 Glenoid. *Journal of Shoulder and Elbow Surgery.* 2025; 34(6).
12. **Patel M**, Sekar M, McDaniel L, Kisana H, Sykes J, Amini M. Changes from Baseline in Patient Reported Outcomes and Patient Satisfaction Do Not Vary Significantly Between One and Two years Postoperatively After Shoulder Arthroplasty. *Seminars in Arthroplasty: JSES.* 2025; 35(2).
13. **Patel M**, Cogan CJ, Shemo C, Ho JC, Ricchetti ET, Entezari V. Clinical and Radiographic Outcome of Open Reduction and Internal Fixation of 3- and 4-Part Proximal Humerus Fractures Augmented with Impaction Bone Grafting and A Magnesium-Based Bone Filler. *JSES International.* 2025; 9(4).
14. Cogan CJ, **Patel M**, Iannotti JP, Ho JC, Ricchetti ET, Entezari V. Diagnosis of shoulder periprosthetic joint infection with atypical wounds: a case series of 12 patients. *Seminars in Arthroplasty: JSES.* 2024; 34(3).
15. Roache WK, **Patel M**, Castaneda P, Hui C, Amini M. The Modified Reverse Shoulder Arthroplasty (mRSA) Angle: The Effect of Both Glenoid Fossa Size and Implant Size on the Relevant Inclination of the Glenoid. *Seminars in Arthroplasty: JSES.* 2024; 34(2).
16. **Patel M**, McDaniel L, Sekar M, Kisana H, Sykes J, Amini M. One- and Two-Year Patient Reported Outcomes Do Not Vary Significantly After Rotator Cuff Repair: An Analysis of 1,567 Patients. *Arthroscopy.* 2024; 40(4).
17. **Patel M**, Lund P, Schenk M, Rangan P, Kisana H, Crenshaw K, Caplinger R, Raasch W, Waslewski G, Lederman E. Joint Space Widening on Valgus-Stress MRI Correlates With Level of Play and Innings Pitched in Professional Throwing Athletes. *Orthopaedic Journal of Sports Medicine.* 2023; 11(11).
18. **Patel, M**, Heyworth, B E, Dehghan, N, Mehlman, C T & McKee, M D. Clavicular Fractures in the Adolescent. *J Bone Joint Surg.* 2023; 105(9):713-723

19. Amini M, **Patel M**, Stone G, Roberson T, Brolin T, Sykes J. The Scapular Geometry of Acute, Traumatic Rotator Cuff Tears Is Not Consistent With Degenerative Tears: A Multicenter Analysis of the Critical Shoulder Angle. *Arthroscopy*. 2023; 39(2):225-231.
20. **Patel M**, McKee M. The Management of Elbow Dislocations and Associated Lesions: A Review Article. *Journal of Orthopedic and Spine Trauma*. 2023; 9(1).
21. **Patel M**, Castaneda P, Roache WK, Dehghan N, McKee M, Amini M. Using the Greater Tuberosity as a Reference for Open Reduction and Internal Fixation of Proximal Humerus Fractures Leads to a High Rate of Calcar Screw Malposition. *J Ortho Trauma*. 2022; 36(10):525-529.
22. **Patel M**, Castaneda P, Campbell DH, Putnam JG, McKee M. Threaded Intramedullary Nails are Biomechanically Superior to Crossed K-Wires for Metacarpal Neck Fractures. *Hand (N Y)*. 2023; 18(1):55-60.
23. **Patel M**, Amini M. Management of Acute Rotator Cuff Tears. *Orthop Clinics North America*. 2021; 53(1):69-76.
24. Martin JR, Campbell DH, **Patel M**, Fernandes R, Amini M. Correcting Retroversion During Reverse Shoulder Arthroplasty for B2 Glenoids Leads to Medialization and Worsens Impingement on the Scapular Neck. *Seminars in Arthroplasty: JSES*. 2021; 31(3):541-551.
25. **Patel M**, Johnson P, Shishani Y, Ahmed S, Gobeze R, Lederman E. Revision of Failed Reverse Shoulder Arthroplasty to Revision Reverse Shoulder Arthroplasty Leads to Significant Clinical and Functional Improvement. *Seminars in Arthroplasty: JSES*. 2021; 31(2):325-329.
26. **Patel M**, Martin JR, Campbell DH, Fernandes R, Amini M. Inferior Tilt of the Glenoid Leads to Medialization and Increases Impingement on the Scapular Neck in Reverse Shoulder Arthroplasty. *Journal of Shoulder and Elbow Surgery*. 2021; 30(6):1273-1281.
27. **Patel M**, Dehghan N. Management of Monteggia Injuries in the Adult. *Hand Clinics*. 2020; 36(4).
28. Erickson B, Shishani Y, Bishop M, **Patel M**, Jones S, Romeo A, Lederman E, Gobeze R. Subscapularis Repair During Reverse Total Shoulder Arthroplasty Using a Stem-Based Double-Row Repair: Sonographic and Clinical Outcomes. *The Orthopedic Journal of Sports Medicine*. 2020; 8(3).
29. Delman C, **Patel M**, Campbell M, Kreulen C, Giza E. Flexible Fixation Technique for Lisfranc Injuries. *Foot and Ankle International*. 2019; 40(11).
30. **Patel M**, Lindsey RW, Padmanabha A, Carayannopoulos N. Simultaneous Bilateral Quadriceps Tendon Rupture with Remote, Short Term, Low-Dose Statin Use: A Case Report. *Current Orthopedic Practice*. 2017; 28(1).
31. Carayannopoulos N, Olson S, **Patel M**. The Proximal Origin of the Gluteus Maximus: A Cadaveric Study. *Journal of Clinical and Experimental Orthopaedics*. 2017; 3(29).
32. **Patel M**, Carayannopoulos N. Hardware Failure and Nonunion Due to Chronic Propionibacterium Acnes Osteomyelitis of the Clavicle: A Case Report. *Translational Biomedicine*. 2016; 7(4).

TEXTBOOK CHAPTERS, EDITORIALS, ONLINE ARTICLES

1. **Patel M**, Sogbein O, Namdari S, Ricchetti ET. Preventative Strategies & Diagnostic Evaluation of Postoperative Infection Including PJI. In: Rockwood and Matsen's The Shoulder, 7th Ed. *Pending Publication*.
2. **Patel M**, Dehghan N. Upper Extremity Trauma. In: OKU15. *Pending publication*.

3. **Patel M**, Cogan C, Ho J, Iannotti JP, Entezari V, Ricchetti ET. Shoulder Arthritis and Arthroplasty. In: OKU15. *Pending Publication*.
4. **Patel M**, Amini MH. Editorial Commentary: One Year Is Enough to Know the Short-Term Outcomes of Arthroscopic Rotator Cuff Repair, But What Happens to the Sugaya III Tendon After a Year. In: Arthroscopy.
5. Dehghan N, **Patel M**, Patel M. Periprosthetic Humeral Fractures. *OrthopedicsToday*. Aug 2025.
6. Cogan C, **Patel M**, Ricchetti E. Reconstructive Procedures of Articular Cartilage Defects. In: Paris Shoulder Course Textbook. 2024.
7. **Patel M**, McKee MD. Distal Third Clavicle Fractures: Open Reduction and Internal Fixation. In: G Williams, M Ramsey Eds, Master Techniques in Orthopedic Surgery: The Shoulder, 4th Edition. Chapter 3.
8. **Patel M**, Lederman E, McKee M. Open Reduction and Internal Fixation of Acromion Fracture After Reverse Shoulder Arthroplasty With Perpendicular Plating. *OrthopedicsToday*. Oct 2022.
9. Lawendy AR, Kapilow J, Schaffer NE, Obremskey WT, **Patel M**, Schemitsch GW, McKee MD, Schemitsch E. Acute Compartment Syndrome: The Issues and Solutions You Need to Know About. AAOS Instructional Course Lect 72. 2022.
10. Nauth A, Obremskey W, **Patel M**, Yong T, Davis M, McKee MD, Schemitsch ES. Elbow Trauma: An Evidence-Based Approach to Improving Outcome. AAOS Instructional Course Lect 71. 2021.
11. **Patel M**, Dehghan N. Cemented fixation in shoulder arthroplasty. In: M Bhandari Ed, Evidence-Based Orthopedics, 2nd Edition. Chapter 61, 2021.
12. Lund P, **Patel M**, Lederman E. Diagnostic imaging of the elbow: x-rays, CT, MRI. In: AA Romeo, B Erickson Eds, Sports-Related Conditions of the Elbow: A Guide to Successful Return to Play, 1st Edition. 2021.
13. **Patel M**, Watson JT. External Fixation of the Tibia (Including Circular Frames). In: P Torneta, SW Wiesel Eds, Operative Techniques in Orthopaedic Surgery, 3rd Edition. Part 2, Chapter 19, 2021.
14. Lund P, **Patel M**, Lederman E. Imaging the biceps tendon at both the shoulder and elbow: What to look out for. In: AA Romeo, B Erickson, J Griffin Eds, The Management of Biceps Pathology: A Clinical Guide from the Shoulder to the Elbow, 1st Edition. Chapter 3, 2021.
15. Weiss WM, **Patel M**, Scofield H, Panchbhavi V. The diabetic foot and ankle. In: MW Chapman & MA James Eds, Chapman's Comprehensive Orthopedic Surgery, 4th Edition. Chapter 20.1, 2015.
16. Weiss WM, **Patel M**, Panchbhavi V. Diabetic infections of the foot and ankle. In: MW Chapman & MA James Eds, Chapman's Comprehensive Orthopedic Surgery, 4th Edition. Chapter 20.2, 2015.

NATIONAL PODIUM AND POSTER PRESENTATIONS

1. **Patel M**, Cogan CJ, Rodriguez JA, Zhang C, Jun B, Ho J, Entezari V, Iannotti JP, Ricchetti ET. Effect of combined component version on impingement-free range of motion in three different implant types in reverse shoulder arthroplasty. **Poster presented** at: American Academy of Orthopaedic Surgeons Annual Meeting. 2025 Mar 10-14; San Diego, CA.
**Selected as a Top 5 Poster for Poster Tour Presentation*
2. Cogan C, **Patel M**, Guevara J, Sahoo S, Jun BJ, Shemo C, Baker A, Qi A, Entezari V, Iannotti JP, Ho J, Ricchetti ET. Outcomes of Anatomic Total Shoulder Arthroplasty with Non-Augmented Glenoid Component for Walch

B2 and B3 Glenoid. **Poster presented** at the American Academy of Orthopaedic Surgeons Annual Meeting. 2025 Mar 10-14; San Diego, CA.

3. Bowler A, et al., **Patel M**, ASES Complications of RSA Multicenter Research Group, Jawa A. Surgical and Patient Factors Associated with Baseplate Failures After Reverse Shoulder Arthroplasty: A Study by the ASES Complications of RSA Multicenter Research Group. **Poster presented** at the American Academy of Orthopaedic Surgeons Annual Meeting. 2025 Mar 10-14; San Diego, CA.
4. Mabarak DJ, Cogan C, **Patel M**, Mehta N, Maheu AR, Goltz DE, Ho J, Iannotti JP, Ricchetti ET, Namdari S, Entezari V. Comparison of Clinical Outcomes after Medialized Versus Lateralized Center of Rotation Design in Patients with Bilateral Reverse Shoulder Arthroplasty. **Poster presented** at: American Academy of Orthopaedic Surgeons Annual Meeting. 2025 Mar 10-14; San Diego, CA.
5. **Patel M**, Cogan, C, Sahoo S, Cannon D, Grewal G, Owings TM, Ma J, Shemo C, Baker A, Jun BJ, Iannotti JP, Ho J, Ricchetti ET, Derwin K, Levy J, Entezari V. Postoperative Patient Reported Outcomes and Radiographic Findings Do Not Significantly Change Between One and Two Years Postoperatively After Primary Anatomic Shoulder Arthroplasty. **Poster presented** at: the American Shoulder and Elbow Surgeons Annual Meeting. 2024 Oct 17-19; San Antonio, TX.
6. Bowler A, et al., **Patel M**, ASES Complications of RSA Multicenter Research Group, Jawa A. Surgical and Patient Factors Associated with Baseplate Failures After Reverse Shoulder Arthroplasty: A Study by the ASES Complications of RSA Multicenter Research Group. **Poster presented** at: the American Shoulder and Elbow Surgeons Annual Meeting. 2024 Oct 17-19; San Antonio, TX.
7. **Patel M**, Cogan, C, Sahoo S, Cannon D, Grewal G, Owings TM, Ma J, Shemo C, Baker A, Jun BJ, Iannotti JP, Ho J, Ricchetti ET, Derwin K, Levy J, Entezari V. Postoperative Patient Reported Outcomes and Radiographic Findings Do Not Significantly Change Between One and Two Years Postoperatively After Primary Anatomic Shoulder Arthroplasty. **Poster presented** at the San Diego Shoulder Institute Fellows Day. 2024 Jun 12-15; San Diego, CA.
8. Cogan C, **Patel M**, Guevara J, Sahoo S, Jun BJ, Shemo C, Baker A, Qi A, Entezari V, Iannotti JP, Ho J, Ricchetti ET. Outcomes of Anatomic Total Shoulder Arthroplasty with Non-Augmented Glenoid Component for Walch B2 and B3 Glenoid. **Poster presented** at the San Diego Shoulder Institute Fellows Day. 2024 Jun 12-15; San Diego, CA.
9. Morrow D, **Patel M**, Kisana H, McDaniel L, Amini M. Internal Rotation and Cross-Body Adduction After Reverse Shoulder Arthroplasty: Modes of In-Vivo Impingement Are Different than Current In-Silico Simulators. **Poster presented:** American Academy of Orthopaedic Surgeons Annual Meeting. 2024 Feb 12-16; San Francisco, CA.
10. **Patel M**, Schwartz K, Lund P, Schenk M, Crenshaw K, Caplinger R, Waslewski G, Lederman E, Shah A. Athletes with a History of UCL Reconstruction Have Similar Findings on Valgus-Stress MRI to Non-Reconstructed Elbows. **Poster presented** at: American Shoulder and Elbow Surgeons Annual Meeting. 2023 October 3-7; Scottsdale, AZ.
11. **Patel M**, McDaniel L, Sekar M, Kisana H, Sykes J, Amini M. One- and Two-Year Patient Reported Outcomes Do Not Vary Significantly After Rotator Cuff Repair: An Analysis of 1,567 Patients. **Podium presented** at: Arthroscopy Association of North America Annual Meeting. 2023 May 4-6; New Orleans, LA.
**J Whit Ewing Resident/Fellow Research Award Winner*
12. **Patel M**, Kisana H, Sekar M, Sykes J, Amini M. One- and Two-Year Patient Reported Outcomes Do Not Vary Significantly After Total and Reverse Shoulder Arthroplasty: An Analysis of 2,973 Patients. **Poster presented** at: American Academy of Orthopaedic Surgeons Annual Meeting. 2023 March 7-11; Las Vegas, NV.

13. **Patel M**, Kisana H, Sekar M, Sykes J, Amini M. Patients Undergoing Reverse Shoulder Arthroplasty for Proximal Humeral Fracture Continue to Improve Through 2 Years-Postoperatively. **Poster presented at:** American Academy of Orthopaedic Surgeons Annual Meeting. 2023 March 7-11; Las Vegas, NV.
14. **Patel M**, Lund P, Schenk M, Rangan P, Kisana H, Crenshaw K, Caplinger R, Raasch W, Waslewski G, Lederman E. Joint Space Widening on Valgus-Stress MRI Correlates With Level of Play and Innings Pitched in Professional Throwing Athletes. **Podium presented at:** American Shoulder and Elbow Surgeons Annual Meeting. 2022 October 6-9; Atlanta, GA.
15. Roache WK, **Patel M**, Castaneda P, Hui C, Amini M. Using a Glenoid Pin-Guide with Built-In Inferior Tilt Still Leaves the Majority of Implants Superiorly Tilted: The Importance of the Modified Reverse Shoulder Arthroplasty Angle. **Podium presented at:** American Academy of Orthopaedic Surgeons Annual Meeting. 2022 Mar 22-26; Chicago IL.
16. Roache WK, **Patel M**, Castaneda P, Hui C, Amini M. The Modified Reverse Shoulder Arthroplasty Angle: The Effect of Both Glenoid Fossa Size and Implant Size on the Relevant Inclination of the Glenoid. **Podium presented at:** American Academy of Orthopaedic Surgeons Annual Meeting. 2022 Mar 22-26; Chicago IL.
17. Castaneda P, **Patel M**, Roache WK, Mallender J, Amini M. Biceps Tenodesis Performed with the Arm Elevated Distalizes the Musculotendinous Unit: A Guide to Correct Tensioning Using Humeral Rotation. **Poster presented at:** American Academy of Orthopaedic Surgeons Annual Meeting. 2022 Mar 22-26; Chicago IL.
18. **Patel M**, Castañeda P, Roache WK, Dehghan N, McKee M, Amini M. Using the Greater Tuberosity as a Reference for Plate Placement in Proximal Humerus Fractures Leads to a High Rate of Calcar Screw Malposition: The Importance of Patient Height. **Podium presented at:** American Shoulder and Elbow Surgeons Annual Meeting. 2021 Dec 15-17; Tampa, FL.
19. Amini M, Campbell D, Martin J, **Patel M**. Grade 1 and 2 Notching Comprise a Large Range of Pathology and Include the Majority of the Scapular Neck: A Move for Quantitative Analysis of Notching. **Podium presented at:** American Shoulder and Elbow Surgeons Annual Meeting. 2021 Dec 15-17; Tampa, FL.
20. Roache WK, **Patel M**, Castañeda P, McKee M, Amini M. The Modified Reverse Shoulder Arthroplasty (mRSA) Angle: The Effect of Both Glenoid Fossa Size and Implant Size on the Relevant Inclination of the Glenoid. **Podium presented at:** American Shoulder and Elbow Surgeons Annual Meeting. 2021 Dec 15-17; Tampa, FL.
21. Roache WK, **Patel M**, Castañeda P, McKee M, Amini M. Using a Glenoid Pin-Guide with Built-in Inferior Tilt Still Leaves the Majority of Implants Superiorly Tilted: The Importance of the Modified Reverse Shoulder Arthroplasty (mRSA) Angle. **Poster presented at:** American Shoulder and Elbow Surgeons Annual Meeting. 2021 Dec 15-17; Tampa, FL.
22. **Patel M**, Castañeda P, Roache WK, Dehghan N, McKee M, Amini M. Using the Greater Tuberosity as a Reference for Plate Placement in Proximal Humerus Fractures Leads to a High Rate of Calcar Screw Malposition: The Importance of Patient Height. **Podium presented at:** OrthoSummit Annual Meeting. 2021 Dec 11-12; Las Vegas, NV.
23. Campbell DH, Martin JR, **Patel M**, Fernandes R, Amini M. Grade 1 and 2 Notching Comprise a Large Range of Pathology and Include the Majority of the Scapular Neck: A Move for Quantitative Analysis of Notching. **Poster presented at:** American Academy of Orthopaedic Surgeons Annual Meeting. 2021 Aug 31-Sept 3; San Diego, CA.
24. Campbell DH, Martin JR, **Patel M**, Fernandes R, Amini M. Scapular Neck Anatomy is the Most Important Predictor of Notching: Introduction of the Beta-Neck Angle. **Poster presented at:** American Academy of Orthopaedic Surgeons Annual Meeting. 2021 Aug 31-Sept 3; San Diego, CA.

25. Castaneda P, **Patel M**, Roache WK, Mallender J, Amini M. Biceps Tenodesis Performed with the Arm Elevated Distalizes the Musculotendinous Unit: A Guide to Correct Tensioning Using Humeral Rotation. **Poster presented** at: American Academy of Orthopaedic Surgeons Annual Meeting. 2021 Feb 12-16, Tampa, FL.
26. **Patel M**, Martin JR, Campbell DH, Fernandes R, Amini M. Inferior Tilt of the Glenoid Leads to Medialization and Increases Impingement on the Scapular Neck in Reverse Shoulder Arthroplasty. **ePoster presented** at: American Society for Surgery of the Hand Annual Meeting. 2020 Oct 1-3.
27. Martin JR, Campbell DH, **Patel M**, Fernandes R, Patel M. Correcting Retroversion During Reverse Shoulder Arthroplasty for B2 Glenoids Leads to Medialization and Worsens Impingement on the Scapular Neck. **ePoster presented** at: American Society for Surgery of the Hand Annual Meeting. 2020 Oct 1-3.
28. **Patel M**, Castaneda P, Campbell DH, Putnam JG, McKee M. Threaded Intramedullary Nail Versus K-Wires for Metacarpal Neck Fractures: A Biomechanical Comparison Study. **ePoster presented** at: American Society for Surgery of the Hand Annual Meeting. 2020 Oct 1-3.
29. **Patel M**, Martin JR, Campbell DH, Fernandes R, Amini M. Inferior Tilt of the Glenoid Leads to Medialization and Increases Impingement on the Scapular Neck in Reverse Shoulder Arthroplasty. **ePoster presented** at: Western Orthopedic Association Annual Meeting. 2020.
30. Martin JR, Campbell DH, **Patel M**, Fernandes R, Amini M. Correcting Retroversion During Reverse Shoulder Arthroplasty for B2 Glenoids Leads to Medialization and Worsens Impingement on the Scapular Neck. **ePoster presented** at: Western Orthopedic Association Annual Meeting. 2020.
31. **Patel M**, Castaneda P, Campbell DH, Putnam JG, McKee M. Threaded Intramedullary Nail Versus K-Wires for Metacarpal Neck Fractures: A Biomechanical Comparison Study. **ePoster presented** at: Western Orthopedic Association Annual Meeting. 2020.
32. **Patel M**, Nowak L, Macnevin M, McKee M, Schemitsch E. The Impact of Surgical Duration on Outcomes Following Hip Fracture Surgery. **Abstract presented** at: Canadian Orthopaedic Association/Canadian Orthopaedic Research Society Annual Meeting. 2020 Jun 3-6. Halifax, Nova Scotia.
33. **Patel M**, Denard P, Gobezie R, Lederman E, Romeo A, Parsons B, Karnes J, Tokish J. Defining Recovery Curves after Total Shoulder Arthroplasty and Reverse Shoulder Arthroplasty: Time Course and Consistency Toward Maximal Medical Improvement. **ePoster presented** at: American Academy of Orthopaedic Surgeons Annual Meeting. 2020.
34. Lederman E, Shishani Y, **Patel M**, Erickson B, Gobezie R. Subscapularis Repair During Reverse Total Shoulder Arthroplasty Using a Stem-Based Double-Row Repair: Sonographic and Clinical Outcomes. **ePoster presented** at: American Academy of Orthopaedic Surgeons Annual Meeting. 2020.
35. **Patel M**, Nowak L, Macnevin M, McKee M, Schemitsch E. Analysis of the Factors Affecting Operative Time and the Impact of Operative Time on Outcomes Following Surgery for Hip Fractures. **Abstract presented** at: Orthopaedic Research Society Annual Meeting. 2020 Feb 8-11; Phoenix, AZ.
36. **Patel M**, Nowak L, Macnevin M, McKee M, Schemitsch E. Does Method of Anesthesia Influence Outcome After Hip Fracture Fixation? **Abstract presented** at: Orthopaedic Research Society Annual Meeting. 2020 Feb 8-11; Phoenix, AZ.
37. Rana NA, Noroozian J, **Patel M**, Pine HS. Paradise criteria: regional challenges and a unique solution. **Poster presented** at: AAO-HNSF Annual Meeting & OTO EXPO. 2016 Sep 18-21; San Diego, CA.

REGIONAL/LOCAL PODIUM AND POSTER PRESENTATIONS

1. Morrow D, Parmar R, Amini M, Lederman E, Batterton E, **Patel M**. Recent Platelet-Rich Plasma Injections Prior to Total Shoulder Arthroplasty Are Associated with Increased Early Infection Risk. **Abstract presented at:** University of Arizona Department of Orthopedic Surgery Resident Research Symposium. 2025 May 17; Phoenix, AZ.
2. McDaniel L, Gaidici T, Herber A, Hui C, **Patel M**, Adamczyk A. Risk Factors for Reoperation Following Native Septic Arthritis: A Retrospective Cohort Study at a Single Southwestern Institution. **Abstract presented at:** University of Arizona Department of Orthopedic Surgery Resident Research Symposium. 2025 May 17; Phoenix, AZ.
3. Qubain L, Jawad M, Eisenberg M, **Patel M**, Amini M. In Intramedullary Nailing of Proximal Humerus Fractures, a More Medial and Posterior Starting Point Improves Alignment and Alignment Improves with Surgeon Experience. **Abstract presented at:** University of Arizona Department of Orthopedic Surgery Resident Research Symposium. 2025 May 17; Phoenix, AZ.
4. **Patel M**, Castañeda P, Amini M, Dehghan N, Shah A, Lederman E, McKee M. Biomechanical Comparison of Internal Fixation Constructs for Levy Type 3 Scapular Spine Fractures in an Osteoporotic Bone Model. **Abstract Presented at:** Ohio Shoulder and Elbow Society Meeting. 2024 Jan 27; Columbus, OH.
5. **Patel M**, Castañeda P, Amini M, Dehghan N, Shah A, Lederman E, McKee M. Biomechanical Comparison of Internal Fixation Constructs for Levy Type 3 Scapular Spine Fractures in an Osteoporotic Bone Model. **Abstract Presented at:** University of Arizona Department of Orthopedic Surgery Resident Research Symposium. 2023; Phoenix, AZ.
6. **Patel M**, Lund P, Schenk M, Rangan P, Kisana H, Crenshaw K, Caplinger R, Raasch W, Waslewski G, Lederman E. Joint Space Widening on Valgus-Stress MRI Correlates With Level of Play and Innings Pitched in Professional Throwing Athletes. **Abstract presented at:** University of Arizona Department of Orthopedic Surgery Resident Research Symposium. 2022 May 7; Phoenix, AZ.
7. **Patel M**, Castañeda P, Roache WK, Dehghan N, McKee M, Amini M. Using the Greater Tuberosity as a Reference for Plate Placement in Proximal Humerus Fractures Leads to a High Rate of Calcar Screw Malposition: The Importance of Patient Height. **Abstract presented at:** Texas Orthopedic Association Annual Meeting. 2022 April 23; Austin, TX.
8. **Patel M**, Castañeda P, Roache WK, Dehghan N, McKee M, Amini M. Using the Greater Tuberosity as a Reference for Plate Placement in Proximal Humerus Fractures Leads to a High Rate of Calcar Screw Malposition: The Importance of Patient Height. **Poster presented at:** Arizona Orthopedic Society Annual Meeting 2021 October 8-10; Sedona, AZ.
9. Castañeda P, **Patel M**, Roache WK, Amini M. Biceps Tenodesis Performed with the Arm Elevated Distalizes the Musculotendinous Unit: A Guide to Correct Tensioning Using Humeral Rotation. **Abstract presented at:** Arizona Orthopedic Society Annual Meeting 2021 October 8-10; Sedona, AZ.
10. Castañeda P, **Patel M**, Roache WK, Amini M. Biceps Tenodesis Performed with the Arm Elevated Distalizes the Musculotendinous Unit: A Guide to Correct Tensioning Using Humeral Rotation. **Abstract presented at:** University of Arizona Department of Orthopedic Surgery Resident Research Symposium. 2021 May 22; Phoenix, AZ.
11. **Patel M**, Castañeda P, Roache WK, Dehghan N, McKee M, Amini M. Using the Greater Tuberosity as a Reference for Plate Placement in Proximal Humerus Fractures Leads to a High Rate of Calcar Screw Malposition: The Importance of Patient Height. **Abstract presented at:** University of Arizona Department of Orthopedic Surgery Resident Research Symposium. 2021 May 22; Phoenix, AZ.
12. Castañeda P, **Patel M**, Roache WK, Amini M. Biceps Tenodesis Performed with the Arm Elevated Distalizes the Musculotendinous Unit: A Guide to Correct Tensioning Using Humeral Rotation. **Abstract presented at:**

University of Arizona Department of Orthopedic Surgery Resident Research Symposium. 2021 May 22; Phoenix, AZ.

13. Roache WK, **Patel M**, Castañeda P, McKee M, Amini M. Using a Glenoid Pin-Guide with Built-in Inferior Tilt Still Leaves the Majority of Implants Superiorly Tilted: The Importance of the Modified Reverse Shoulder Arthroplasty (mRSA) Angle. **Abstract presented** at: University of Arizona Department of Orthopedic Surgery Resident Research Symposium. 2021 May 22; Phoenix, AZ.
14. **Patel M**, Martin J, Campbell D, Fernandes R, Amini M. Inferior Tilt of the Baseplate Decreases Impingement-Free Range of Motion in Reverse Shoulder Arthroplasty – A 3-D Digital Motion Analysis. **Abstract presented** at: University of Arizona Department of Orthopedic Surgery Resident Research Symposium. 2020 Jun 20; Phoenix, AZ.
15. Martin JR, Campbell DH, **Patel M**, Fernandes R, Amini M. Correcting Retroversion During Reverse Shoulder Arthroplasty for B2 Glenoids Worsens Impingement. **Abstract presented** at: University of Arizona Department of Orthopedic Surgery Resident Research Symposium. 2020 Jun 20; Phoenix, AZ.
16. Campbell DH, Martin JR, **Patel M**, Fernandes R, Amini M. Scapular Neck Anatomy is the Most Important Predictor of Notching: Introduction of the β -Neck Angle. **Abstract presented** at: University of Arizona Department of Orthopedic Surgery Resident Research Symposium. 2020 Jun 20; Phoenix, AZ.
17. McDonald D, **Patel M**, Walker JB, Putnam J, Moodley V, McKee M. Retrograde Intramedullary ScrewNail Fixation: The Range of Applicability. **Abstract presented** at: University of Arizona Department of Orthopedic Surgery Resident Research Symposium. 2020 Jun 20; Phoenix, AZ.
18. Martin JR, Campbell DH, **Patel M**, Fernandes R, Amini M. Correcting Retroversion During Reverse Shoulder Arthroplasty for B2 Glenoids Worsens Impingement. **Abstract presented** at: University of Arizona – Phoenix Academic Excellence Day. 2020 May 6; Phoenix, AZ.
19. **Patel M**, Martin J, Campbell D, Fernandes R, Amini M. Inferior Tilt of the Baseplate Decreases Impingement-Free Range of Motion in Reverse Shoulder Arthroplasty – A 3-D Digital Motion Analysis. **ePoster presented** at: University of Arizona – Phoenix Academic Excellence Day. 2020 May 6; Phoenix, AZ.
20. **Patel M**, Martin J, Campbell D, Fernandes R, Amini M. Inferior Tilt of the Baseplate Decreases Impingement-Free Range of Motion in Reverse Shoulder Arthroplasty – A 3-D Digital Motion Analysis. **Abstract presented** at: Texas Orthopedic Association Annual Meeting. 2020 Feb 7-8; San Antonio, TX.
21. Tran T, **Patel M**, Nowak L, Macnevin M, McKee M, Schemitsch E. Analysis of the Factors Affecting Operative Time and the Impact of Operative Time on Outcomes Following Surgery for Hip Fractures. **Abstract presented** at: Arizona Orthopedic Society Annual Meeting. 2019 Oct 5; Phoenix, AZ.
22. **Patel M**, Lederman E, Shishani Y, Gobeze R. Subscapularis repair in reverse total shoulder replacement using subscapularis peel and a novel through-implant suture technique: early clinical outcomes. **Abstract presented** at: University of Arizona Department of Orthopedic Surgery Resident Research Symposium. 2019 Jun 6; Phoenix, AZ.
23. **Patel M**, Lederman E, Shishani Y, Gobeze R. Subscapularis repair in reverse total shoulder replacement using subscapularis peel and a novel through-implant suture technique: early clinical outcomes. **Abstract presented** at: Texas Orthopedic Association Annual Meeting. 2019 Feb 1-2; Houston, TX.
24. Noroozian J, **Patel M**, Pine HS. Paradise criteria: regional challenges. **Poster presented** at: UTMB National Student Research Forum, 57th Annual Meeting. 2016 Apr 27-29; Galveston, TX.

HONORS AND AWARDS

- Top 5 Poster, Shoulder and Elbow Poster Session 1, AAOS 2025 2025
- Shoulder360 1st Annual Fellowship Epiphanies Award 2024
- Brandon Bell Memorial Research Award, Ohio Shoulder and Elbow Society 2024
- JBJS 2023 Top 10 Most Read Articles, 3rd Most Read Article 2023
- Arthroscopy Association of North America 2023 J. Whit Ewing Resident/Fellow Research Award 2023
- Banner GME Patient Safety Award 2022
- First Place Research Presentation, Arizona Orthopedic Society Annual Meeting 2021
- Best Research Presentation Award, UACOM-Phx Dept of Orthopedics Research Day 2021
- Best Research Presentation Award, UACOM-Phx Dept of Orthopedics Research Day 2020
- First Place Research Presentation, Texas Orthopedic Association Annual Meeting 2020
- OITE >90th Percentile, presented by the CORE Institute 2020
- First Place Research Presentation, Texas Orthopedic Association Annual Meeting 2019
- Jack Line Smith, M.D. and Aline Mangum Smith Scholarship in Medicine 2017
- Tarrant County Scholarship 2017
- Alpha Omega Alpha Honor Society, *selected as a Junior* 2017
- William Osler Student Award Finalist 2016
- Julian Cox Barton Scholarship 2015
- William S. Parisi Endowed Scholarship 2015
- Sjoerd Steunebrink Scholarship Endowment 2015
- Bailey R. Collins Scholarship Fund 2015
- Naziruddin Ali Award for Excellence 2015

SPORTS TEAM COVERAGE

- La Joya High School (Football) 2022
- Chandler Preparatory Academy (Football) 2018

PROFESSIONAL ASSOCIATIONS

- American Shoulder and Elbow Surgeons Society 2022 - Present
- American Academy of Orthopedic Surgeons 2018 - Present

OTHER PUBLICATIONS AND MEDIA

- “*Getting It*” – *How to Crush Your Away Rotations*. Self-published guide to excelling in challenging medical student rotations, published 2023.
- *Medicine is Real, Tangible, and Helps People. Don’t Forget That*. Article published online at kevinmd.com, July 21, 2020. <https://www.kevinmd.com/blog/2020/07/medicine-is-real-tangible-and-helps-people-dont-forget-that.html>
- Recurring guest on the Orthotalk Podcast (May 21, 2020; July 24, 2020; Sept 20, 2020; Jan 9, 2021; Mar 13, 2022)

INTERESTS AND SKILLS

- **Peer Reviewer:** JSES, JSES International, JAAOS
- **Languages:** Proficient in Urdu; Beginning Spanish, Arabic
- **Athletics:** Regular competitor in recreational basketball, pickleball, and soccer; runner in 10Ks and obstacle course races; skiing

- **Finance, Business, and E-Commerce:** launched and managed Fulfilment by Amazon product store, launched self-published e-book through an online store