
CURRICULUM VITAE

Roshan T. Melvani M.D.

Orthopaedic Surgery
Hip and Knee Reconstructive Surgery
Shoulder and Elbow Surgery

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EDUCATION/TRAINING	DEGREE	DATE	FIELD OF STUDY
University of Missouri-Kansas City (UMKC) Kansas City, Missouri	BA/MD (combined degree)	08/2008- 05/2014	Bachelor of Liberal Arts/Doctor of Medicine
Medstar Orthopaedic Institute/Medstar Union Memorial Hospital Baltimore, Maryland <i>Director: Jacob Wisbeck MD; Chairman: Henry Boucher MD</i>	Resident Physician ----- Chief Resident	06/2014- 06/2019 ----- 06/2018- 06/2019	Orthopaedic Surgery
Anderson Orthopaedic Clinic/Anderson Orthopaedic Research Institute Alexandria, Virginia <i>Director: William Hamilton MD</i>	Clinical Fellow	07/2019- 07/2020	Adult Hip and Knee Reconstruction
Florida Orthopaedic Institute/Foundation for Orthopaedic Research and Education Tampa, Florida <i>Directors: Mark Frankle MD; Mark Mighell MD</i>	Clinical Fellow	07/2020- 07/2021	Shoulder and Elbow Surgery

Medical Licensure

- National Provider Identifier # 1598184475
- Drug Enforcement Agency (DEA):
 - FM8387943; *Active till 1/31/2022 (registered in CA)*
 - FM9285885; *Active till 1/31/2023 (registered in FL)*
- Medical Licensure:
 - Maryland Board of Physicians; License # D0087284; *Active till 09/30/2021*
 - Virginia Board of Medicine; License # 0101266844; *Active till 10/31/2022*
 - Florida Board of Medicine; License # ME143651; *Active till 1/31/2022*
 - Medical Board of California; License # A168004; *Active till 2/28/2022*

Academic Appointments

- University of South Florida, Morsani College of Medicine; Collaborative Instructor 08/01/2020-07/31/2021

Current Affiliations

- Providence St. Mary Medical Center; Apple Valley, CA; 09/2021-present; Attending Surgeon
- Desert Valley Hospital; Victorville, CA; 09/2021-present; Attending Surgeon

Previous Affiliations

- Inova Mount Vernon Hospital; Alexandria, VA; 07/2019-07/2020; Clinical Fellow
- Harborside Surgery Center; Oxon Hill, MD; 07/2019-07/2020; Clinical Fellow
- Tampa General Hospital; Tampa, FL; 07/2020-07/2020; Clinical Fellow
- Advent Health Carrollwood Hospital; Tampa, FL; 07/2020-07/2021; Clinical Fellow
- Florida Orthopaedic Institute Surgery Center; Tampa, FL; 07/2020-07/2021; Clinical Fellow
- BayCare Carillon Surgery Center; Tampa, FL; 11/2020-11/2022; Clinical Fellow

Board Certification

- *American Board of Orthopaedic Surgery: Board Eligible*
 - Part 1 (written examination) 7/11/2019 – Pass
 - Part 2 (oral examination) planned 7/2023
- *United States Medical Licensing Examination:*
 - Step 1 - 8/10/2012 – Pass
 - Step 2 - Clinical Knowledge 8/1/2013 - Pass
 - Step 2 - Clinical Skills 11/18/2013 – Pass
 - Step 3 - 6/29/2015 – Pass

Other Certifications

- California Radiography and Fluoroscopy Supervisor and Operator Permit
 - *License Number: RHD 00200596; Exp: 8/31/2023*
- *American Heart Association*
 - Basic Life Support (eCard Code 205502187133); *Active till 03/2022*
 - Advanced Cardiovascular Life Support (eCard Code 206502187159); *Active till 03/2022*

Professional Affiliations

- 2021-present California Medical Society
- 2021-present San Bernardino County Medical Society
- 2019-present American Shoulder and Elbow Surgeons - Fellow member
- 2019-present American Association of Hip and Knee Surgeons - member
- 2014-present American Academy of Orthopaedic Surgery - member
- 2016-2018 AO North America
- 2008-2014 American Medical Association

Leadership Positions/Activities

- 2020-present Reviewer, Journal American Academy of Orthopaedic Surgeons
- 2019-present Reviewer, Journal of Shoulder and Elbow Surgery
- 2018-2019 Orthopaedic Performance Evaluation Committee– Union Memorial Hospital
- 2018-2019 Orthopaedic Performance Improvement Committee– Union Memorial Hospital
- 2018-2019 Orthopaedic Residency Council, Member – Union Memorial Hospital
- 2016-2017 Orthopaedic Representative – Medstar Graduate Medical Education Committee
- 2012-2014 Founder, Past President – Orthopaedic Surgery Interest Group UMKC SOM
- 9/2013 Physical Exam Instructor – Clinical Skills Course UMKC SOM

- 2010-2013 Sigma Alpha Epsilon Fraternity, Member, Missouri Kappa Chi
- 2010-2011 Standard and Ethics Board - Sigma Alpha Epsilon Fraternity, Missouri Kappa Chi
- 2009 Medical School Student Ambassador – UMKC SOM

Volunteer Experiences

- 2008-2014 Sojourner Free Health Clinic, Kansas City, MO
- 2009-2011 Alpha Phi Omega Fraternity - Alpha Eta Chapter
- 2009-2011 Harvester's – Community Food Network, Kansas City, MO

International Medical Mission Trips

- 5/2017 - Curtis National Hand Center Hand (Dr. Michael Murphy, M.D.), La Romana, Dominican Republic
- 6/2011 - Global Medical Brigade (Dr. Timothy Little, M.D.), Tegucigalpa, Honduras

Honors/Scholarships

- 6/2018 Roger H. Michael Research Award – Medstar Union Memorial Hospital
- 8/2017 Baltimore Limb Deformity Course Scholarship – Sinai Hospital of Baltimore
- 7/2016 Resident Scholar – American Orthopaedic Foot and Ankle Society
- 2009-2012 Dean's List – University of Missouri-Kansas City

Published Manuscripts

- Melvani R, Diaz M, Wilder, L, Christmas K, Simon P, Mighell M, Frankle, M. Improved Mechanical Fixation of an All-Polyethylene Glenoid Reduces Postoperative Radiolucent Lines – manuscript completed, pending submission to Journal of Shoulder and Elbow Surgery
- Gould H, Delaney NR, Parks BG, Melvani R, Hinton RY. Interference Screw Versus Suture Anchors for Femoral Fixation in Medial Patellofemoral Ligament Reconstruction: A Biomechanical Study. Orthopaedic Journal of Sports Medicine. March 2021. PMID 33763498.
- Lobão M, Melvani R, Abbasi P, Parks BG, Murthi AM. Dermal Allograft Superior Capsule Reconstruction Biomechanics and Kinematics. Journal of Shoulder Elbow Surgery. January 2021. PMID 33482371.
- Lobão M, Canham RB, Melvani R, Parks BG, Murthi AM. Synthetic Coracoclavicular Ligament Versus Coracoclavicular Suspensory Construct for Treatment of Acromioclavicular Dislocation: A Biomechanical Study. Journal of Shoulder Elbow Surgery. February 2020. PMID 32081633.
- Jones CM, Melvani R, Aziz KT, Parks B, Abassi P, Means KR, Jr. Contact Pressure Between Digital Flexors and Plates for Distal Radius Approaches. Journal of Wrist Surgery. February 2020. PMID 32025355.
- Lobão MA, Canham RB, Melvani R, Abboud JA, Parks BG, Murthi AM. Biomechanics of a Biodegradable Subacromial Balloon Spacer for Irreparable Superior Rotator Cuff Tears: Study of a Cadaveric Model. Journal of Bone and Joint Surgery. June 2019. PMID 31169580.
- Carpenter SR, Stroh DA, Melvani R, Parks BG, Camire LM, Murthi AM. Triceps repair: double row versus single row transosseous repair versus anchor repair: a biomechanical evaluation. Journal of Shoulder and Elbow Surgery. August 2018. PMID 30093233.

- Atwater LC, Aynardi MC, Melvani R, Schon LC, Miller SD. Evaluating the safety of percutaneous dorsolateral talonavicular joint fixation in modified double arthrodesis: an anatomic study. *Current Orthopaedic Practice*. March 2018.
- Aynardi MC, Atwater LC, Melvani R, Parks BG, Paez AG, Miller SD. A mechanical analysis of a dual semitendinosus allograft versus achilles turndown for reconstruction of large segmental achilles defects. *Clinical Orthopaedics and Related Research*. 2017. PMID 28616759.
- Heller, A, Melvani, R, Thome, A, Leamon, J, Schwend, R. Predictors of variability in the length of surgery of posterior instrumented arthrodesis in patients with adolescent idiopathic scoliosis. *Journal of Pediatric Orthopaedics*. 2016. PMID 26849461.
- Johnson, MH, Melvani, R, Patel, NN, Cheng, CJ, Hutchison RJ. Radiographic indicators of a shared epiphysis in radial polydactyly. *Hand*. 2014. PMID 25191163.

Textbook Chapters

- Melvani R, Coraraton A, Hamilton WG. Is There an Optimal Place for Same Day Discharge: Hospital, ASC, or “Other”? *Outpatient Joint Replacement: Indications, Implementation and Surgical Management*. 1st ed. Springer Inc. In Press.
- Melvani RT, Giladi AM. Nerve Palsies and Tendons/Nerve Transfers for Injuries at or Distal to the Elbow. In: LaPorte DM, editor. *Synopsis of Hand Surgery*. 1 ed. New York: Thieme; 2021.
- Melvani R, Miller S. Revision Achilles Tendon Surgery. In: Berkowitz M, *Revision of the Foot and Ankle*. 1st ed. Springer Inc.
- Melvani R, Jones CM. Compartment Syndrome in the Upper Extremity. In: Eltorai A, Akelman E, *Orthopaedic Hand Trauma*. 1st ed. Wolters Kluwer Health.

Research Grants

- Raymond M Curtis Research Grant
 - Jones CM, Melvani R, Means KR, Jr. Effect of extended FCR approach on contact pressures between the flexor tendons and the distal edge of volar distal radius plates.

Poster/Podium Presentations

- Frankle M, Melvani R, Haidamous G. Glenoid and Humeral Loosening – Successful Strategies from North America
 - *Presentation, Paris Shoulder Course 6/2021*
- Melvani R, Eyberg B, Christmas K, Mighell M. When and How to do a One-Stage Revision for Infection.
 - *Presentation, San Diego Shoulder Institute 6/2021*
- Melvani R, Diaz M, Wilder, L, Christmas K, Simon P, Frankle, M. Improved Mechanical Fixation of an All-Polyethylene Glenoid Reduces Postoperative Radiolucent Lines
 - *Presentation, Foundation for Orthopaedic Research and Education - Orthopaedic Research Day 6/2021*
 - *e-Poster, American Shoulder and Elbow Surgeons Fellows Symposium 6/2021*
- Melvani R, Stoops T, Phillips J, Christmas K, Frankle M. Three Feared Complications after Reverse Arthroplasty: Do You Know How to Handle Them?
 - *Presentation, American Academy of Orthopaedic Surgeons Webinar 5/2021*

- Melvani R, Christmas K, Mighell M. Proximal Humerus Fractures – Replace (The Treatment of Upper and Lower Extremity Fractures: A Case-based Approach)
 - *Presentation, Orthopaedics Today Hawaii 5/2021*
- Melvani R, Patel R, Christmas K, Mighell M. Open Reduction Internal Fixation versus Total Elbow Arthroplasty for the Elderly Distal Humerus Fractures - TEA (The Treatment of Upper and Lower Extremity Fractures: A Case-based Approach)
 - *Presentation, Orthopaedics Today Hawaii 5/2021*
- Eyberg B, Melvani R, Ross J, Christmas K, Mighell M. Surgical Techniques from the Teacher: Subscapularis-on Total Shoulder Arthroplasty
 - *Presentation, 27th Annual Tampa Shoulder Course; Arthroplasty & Sports 4/2021*
- Melvani R, Christmas K, Mighell M. Case Presentations and Debates: Proximal Humeral Fractures – non-operative, ORIF, or Arthroplasty?
 - *Presentation, 27th Annual Tampa Shoulder Course; Arthroplasty & Sports 4/2021*
- Melvani R, Christmas KC, Mighell M. How you manage with locked plates, 3 and 4 part fractures of the proximal humerus in elderly patients.
 - *Presentation, Brazilian Shoulder and Elbow Online Course 4/2021*
- Melvani R, Patel R, Christmas KC, Mighell M. RE-LIVE Surgery, Technique of locked plating for proximal humeral fractures – pearls and pitfalls.
 - *Presentation, Brazilian Shoulder and Elbow Online Course 4/2021*
- Melvani R, Patel R, Frankle M. Management of proximal humerus fracture (PHF): What is the best option? Four-part fracture-dislocation (Age > 65) (Plan: Reverse TSA)
 - *Presentation, Columbian Society of Orthopaedic Surgery and Traumatology & Columbian Society Shoulder and Elbow 10/2020*
- Melvani R, Patel R, Frankle M. Revision Total Shoulder Arthroplasty - Aseptic loosening of an anatomic total shoulder (Plan: Anatomic total shoulder revision)
 - *Presentation, Columbian Society of Orthopaedic Surgery and Traumatology & Columbian Society Shoulder and Elbow 10/2020*
- Gould H, Melvani R, Hinton RY. "Interference Screw vs. Suture Anchors for Femoral Fixation in Medial Patellofemoral Ligament Reconstruction: A Biomechanical Study.
 - *Poster, Medstar Health Research Symposium 5/2019*
- Labao M, Lankachandra M, Melvani R, Canham B, Myer GD, Parks BG, Abbasi P, Murthi AM. Biomechanics Pressure Analysis of Proximal Humeral Fracture Malunion.
 - *Podium Presentation, 14th International Congress of Shoulder and Elbow Surgery 09/2019*
 - *Poster, Orthopaedic Research Society 2/2019*
 - *Poster, American Shoulder and Elbow Surgeons Annual Meeting 10/2019*
 - *Poster, American Academy of Orthopaedic Surgeons Annual Meeting 3/2020*
- Canham RB, Melvani R, Lobão M, Parks BG, Cox RM, Abboud JA, Murthi AM. Evaluation of a biodegradable subacromial balloon spacer on glenohumeral joint biomechanics in the setting of irreparable superior rotator cuff tears.
 - *Poster, International Society of Arthroscopy, Knee Surgery and Orthopaedic Sports Medicine 5/2019*
 - *Podium Presentation, Arthroscopy Association of North America 4/2018*
 - *Poster, Orthopaedic Research Society 3/2018*
 - *Poster, American Academy of Orthopaedic Surgeons Annual Meeting 3/2018*
 - *Podium Presentation, Maryland Orthopaedic Association 2/2018*

- Canham RB, Melvani R, Parks BG, Murthi AM. A biomechanical analysis of two acromioclavicular joint reconstruction techniques: acromioclavicular LockDown device versus coracoclavicular high tensile strength tape reconstruction.
 - *Poster, American Shoulder and Elbow Surgeons, Fellows Symposium 6/2017*
 - *Podium presentation, American Academy of Orthopaedic Surgeons Annual Meeting 3/2018*
 - *e-Poster, Maryland Orthopaedic Association 2/2018*
- Labao M, Lankachandra M, Melvani R, Canham B, Parks BG, Abbasi P, Murthi AM. Dermal Allograft Superior Capsule Reconstruction Biomechanics and Kinematics.
 - *Podium Presentation, 14th International Congress of Shoulder and Elbow Surgery 09/2019*
 - *Poster, Orthopaedic Research Society 2/2019*
 - *Poster, American Shoulder and Elbow Surgeons Annual Meeting 10/2018*
 - *Poster, American Shoulder and Elbow Surgeons, Fellows Symposium 6/2018*
 - *e-Poster, Maryland Orthopaedic Association 2/2018*
- Jones CM, Melvani R, Means KR, Jr. Effect of extended FCR approach on contact pressures between FPL and distal edge of volar plate.
 - *e-Poster, American Society for Surgery of the Hand Semi-annual meeting 1/2018*
 - *Podium Presentation, the 35th Annual Wilgis Lectureship in Hand Surgery, The Curtis National Hand Center 6/2017*
 - *Podium Presentation, 12th Annual Tri-City Hand/Upper Extremity Meeting 2/2017*
 - *e-Poster, Maryland Orthopaedic Association 2/2017*
- Aynardi MC, Atwater L, Parks BG, Melvani R, Miller SD. Biomechanical analysis of a semitendinosus allograft versus achilles turndown for reconstruction of large segmental achilles defects.
 - *Podium Presentation, American Orthopaedic Foot and Ankle Society Annual Meeting 2016*
- Atwater L, Aynardi MC, Melvani R, Schon LC, Miller SD. Evaluating the safety of percutaneous dorsolateral talonavicular joint fixation in modified double arthrodesis: an anatomic study.
 - *Podium Presentation, American Orthopaedic Foot and Ankle Society Annual Meeting 2016*
- Canham RB, Stroh DA, Melvani R, Carpenter S, Murthi A. Triceps repair using double row suture anchor repair versus cruciate single row footprint transosseous repair: a biomechanical evaluation.
 - *Poster, American Academy of Orthopaedic Surgeons Annual Meeting 3/2018*
 - *Podium Presentation, Maryland Orthopaedic Association Annual Meeting 2/2017*
- Lind, AA., Knowlton, JQ., Johnson, MH., Reid, DY., Melvani, R., Sinclair, MR. The Effect of Persistent Toe Walking on the Skeletal Development of the Foot and Ankle.
 - *e-Poster, Pediatric Orthopaedic Society of North America 4/2015 (Colin F. Mosley Scientific e-Poster Distinguished Achievement Award)*
- Thome, A., Melvani, R., Leamon, J., and Price MD, N. The long-term safety and effectiveness of combined anterior and posterior convex hemiepiphysiodesis in the setting of congenital scoliosis.
 - *Podium presentation, American Academy of Pediatrics Annual Meeting 10/2014*
 - *Poster, American College of Physicians – Missouri Annual Meeting 9/2014*
 - *Podium Presentation, Children’s Mercy Hospital Spine Symposium 5/2014*
 - *Poster, UMKC Health Sciences Student Research Summit 4/2014*
- Heller, A., Melvani, R., Thome, A., Leamon, J., and Schwend MD, R. Predictors of length of surgery in posterior instrumented arthrodesis for adolescent idiopathic scoliosis (AIS).
 - *Podium presentation, American Academy of Pediatrics Annual Meeting 10/2014*

Courses/Educational Events

- DJO Revision Shoulder Arthroplasty Course, 6/2021
- Arthex Sports Medicine Fellowship Forum 5/2021
- Tampa Shoulder Course, 4/2021
- DJO Fellows Shoulder Arthroplasty Course, 4/2021
- DJO Fellows Elbow Arthroplasty Course, 3/2021
- Wright Medial Fellows Shoulder Course, 3/2021
- Zimmer Biomet Anterior Hip Course, 2/2021
- Current Concepts in Joint Replacement – Virtual winter meeting, 12/2020
- DJO Revision Shoulder Arthroplasty Course, 10/2020
- American Shoulder and Elbow Surgeons – Virtual annual meeting, 10/2020
- Current Concepts in Joint Replacement – Virtual spring meeting, 5/2020
- 12th Annual Joint Replacement Fellows Symposium, 1/2020
- Miller Board Review Course, 5/2019
- Mid-Atlantic Shoulder Elbow Society Annual Meeting, 9/2018
- AO Pelvic and Acetabular Fracture Course, 6/2017
- AO Upper Extremity Dissection Course, 3/2017
- Orthopaedic Trauma Association Advanced Trauma Course, 1/2017
- AO Advanced Trauma Principles Course, 11/2016
- American Association of Hip and Knee Surgeons Annual Meeting, 11/2016
- AO Hand Course, 9/2016
- AO Basic Trauma Principles Course, 8/2016
- American Orthopaedic Foot and Ankle Society Annual Meeting, 7/2016
- Orthopaedic Trauma Association Basic Trauma Course, 4/2016
- Advanced Master's Foot and Ankle Arthroscopy Course, 9/2015
- American Academy Orthopaedic Surgery Total Joint Arthroplasty Course, 6/2015