



## Matthew G. Robinson, MD

### Bio

When not at work, Dr. Robinson enjoys spending time with his wife and three children.

### Education

- **The University of Notre Dame** - *Bachelor of Science*
- **The University of Illinois at Chicago College of Medicine** - *Doctor of Medicine (M.D.)*
- **The University of Illinois at Chicago Department of Orthopaedic Surgery** - *Orthopedic Residency // Administrative Chief Resident, 2019-2020*
- **Massachusetts General Hospital/Harvard Medical School Department of Orthopaedic Surgery** - *Orthopaedic Surgery Adult Joint Reconstruction Fellowship, 2020-2021*

**P: 704.226.9550**

**Patient Rating:**  
4.9 out of 5 Stars

### LOCATIONS

- Indian Land
- Monroe

### CLINICAL SPECIALTIES

- Hip
- Specialties
- Knee

### Practice

- Fellowship-Trained in Adult Hip and Knee Reconstruction/Replacement
- Specializes in surgery for arthritis of the hip and knee
- Specializes in primary total knee and total hip replacement
- Specializes in anterior total hip replacement
- Specializes in partial knee replacement
- Specializes in revision total knee and total hip replacement
- Specializes in arthroscopic knee surgery
- Specializes in robotic total knee and hip replacement
- Member of the American Academy of Orthopaedic Surgeons (AAOS)
- Member of the American Academy of Hip & Knee Surgeons (AAHKS)
  - [Hip and Knee Patient Education](#)
- Board Certified by the American Board of Orthopaedic Surgery (ABOS)
- Lead Physician, Monroe Office
- Chief of Surgery at Atrium Health Union and Union West Medical Centers

## Awards

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- University of Illinois Orthopedic Residency Leo Weinstein MD Award for Excellence in Patient Care- 2020
- Stryker Resident and Fellow Research Program Award Winner - 2019-2020
- AOA C. McCollister Evarts Resident Leadership Forum Nominee - 2019
- MidAmerica Orthopaedic Association (MAOA) Annual Meeting Senior Resident Education Grant - 2019
- Student Leadership Award, University of Notre Dame - 2011

## Research

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### PEER-REVIEWED PUBLICATIONS

- Klemt C, Cohen-Levy WB, Robinson MG, Burns JC, Alpaugh K, Yeo I, Kwon YM. Can machine learning models predict failure of revision total hip arthroplasty? *Arch Orthop Trauma Surg.* 2023 Jun;143(6):2805-2812. doi: 10.1007/s00402-022-04453-x. Epub 2022 May 4. PMID: 35507088.
- Yeo I, Klemt C, Robinson MG, Esposito JG, Uzosike AC, Kwon YM. The Use of Artificial Neural Networks for the Prediction of Surgical Site Infection Following TKA. *J Knee Surg.* 2023 May;36(6):637-643. doi: 10.1055/s-0041-1741396. Epub 2022 Jan 11. PMID: 35016246.
- Tirumala V, Klemt C, Esposito JG, Robinson MG, Barghi A, Kwon YM. Insurance Payer Type Affects Outcomes after Revision Total Joint Arthroplasty: A Matched Cohort Analysis. *Arch Bone Jt Surg.* 2022 Apr;10(4):328-338. doi: 10.22038/ABJS.2021.56165.2792. PMID: 35721591; PMCID: PMC9169726.
- Klemt C, Harvey MJ, Robinson MG, Esposito JG, Yeo I, Kwon YM. Machine learning algorithms predict extended postoperative opioid use in primary total knee arthroplasty. *Knee Surg Sports Traumatol Arthrosc.* 2022 Jan 5. doi: 10.1007/s00167-021-06812-4. Epub ahead of print. PMID: 34984528.
- Klemt C, Tirumala V, Barghi A, Cohen-Levy W, Robinson M. Artificial Intelligence Algorithms Accurately Predict Prolonged Length of Stay Following Revision Total Knee Arthroplasty. Accepted to *Journal of Knee Surgery, Sports, Traumatology, Arthroscopy* Jan 12, 2022.
- Robinson MG, Greene N, Katakam A, Chen A, Bedair HS, Humphrey T, Melnic CM. The effect of the COVID-19 pandemic on revision total hip and knee arthroplasty at a large academic hospital network. *J Orthop.* 2021 Nov-Dec;28:117-120. doi: 10.1016/j.jor.2021.11.012. Epub 2021 Nov 24. PMID: 34840481; PMCID: PMC8610569.

- Klemt, C., Harvey, M.J., Robinson, M, Esposito J, Yeo I, Kwon YM. Machine learning algorithms predict extended postoperative opioid use in primary total knee arthroplasty. *Knee Surg Sports Traumatol Arthrosc* (2022). <https://doi.org/10.1007/s00167...>
- Tirumala V, Klemt C, Esposito JG, Robinson MG, Barghi A, Kwon YM. Insurance Payer Type Affects Outcomes after Revision Total Joint Arthroplasty: A Matched Cohort Analysis. *Arch Bone Jt Surg*. 2022 Apr;10(4):328-338. doi: 10.22038/ABJS.2021.56165.2792. PMID: 35721591; PMCID: PMC9169726.
- Johnson MC, Robinson MG, Siliski JM. Vanadium allergy after bilateral total knee arthroplasty: Case report outcome of bilateral revision TKA. *J Case Rep Images Orthop Rheum* 2021;5:100025Z14MJ2021.
- Volchenko E, Schwarzman G, Robinson M, Chmell SJ, Gonzalez MH. Arthroscopic Lysis of Adhesions with Manipulation under Anesthesia vs Manipulation Alone in Treatment of Arthrofibrosis after TKA: a Matched Cohort Study. *Orthopedics*, 2019 May 1;42(3):163-167. doi: 10.3928/01477447-20190424-08.
- Rhode D, Robinson M, Malhotra G. Surgical treatment of an intrinsic plus contracture of the hand secondary to Parkinson's disease, *Case Reports in Plastic Surgery and Hand Surgery*, 2019; 6:1, 60-62, DOI: 10.1080/23320885.2019.1594821
- Shah R, Cipparrone N, Parilla F, Robinson M, Gordon A, Goldstein W. Survivorship of the Modular Femoral Stem. *Orthopedics*, 2019 Jun 11 :1-5. doi: 10.3928/01477447-20190604-09.
- Robinson M, Piponov H, Schwartz B, Gonzalez MH. Knee Arthrodesis Outcomes Following Infected Total Knee Arthroplasty and Failure of Two-Stage Revision with Antibiotic Cement Spacer. *Journal of the American Academy of Orthopaedic Surgeons Global Research and Reviews*. 2018; 2(1):e077.
- Danilkowicz R, Robinson M, Steffes M, Marcus M. Inflammatory pseudoseptic reaction to Synvisc-One Injection Requiring Diagnostic Arthroscopy. *Journal of Case Reports and Images in Orthopedics and Rheumatology*. 2017;2:7-11.
- Kiwada I, Hasina R, Lennon F, Bindokas V, Usatyuk P, Tan Y, Krishnaswamy S, Arif Q, Carey G, Hseu R, Robinson, M, Tretiakova M, Brand T, Iida M, Ferguson M, Wheeler D, Husain A, Natarajan V, Vokes E, Singleton P, Salgia R. Paxillin (PXN) Mutations Affect Focal Adhesions and Lead to Altered Mitochondrial Dynamics: Relevance to Lung Cancer. *Cancer Biology and Therapy* 14(7): 679-691: 2013.

- Surati M, Robinson M, Nandi S, Faoro L, Demchuk C, Rolle C, Rajani K, Ferguson B, Hasina R, Gangadhar T, Salama A, Arif Q, Kirchner C, Mendonca E, Campbell N, Limvorasak S, Villaflor V, Hensing T, Krausz T, Vokes E, Husain A, Ferguson M, Karrison T, Salgia R. Proteomic Characterization of Non-small Cell Lung Cancer in a Comprehensive Translational Thoracic Oncology Database. *Journal of Clinical Bioinformatics* 1(8): 1-11: 2011.
- Surati M, Robinson M, Nandi S, Faoro L, Demchuk C, Kanteti R, Ferguson B, Gangadhar T, Hensing T, Hasina R, Husain A, Ferguson M, Karrison T, Salgia R. Generation of Comprehensive Thoracic Oncology Database – Tool for Translational Research. *Journal of Visualized Experiments*. (47): 2011.
- Tan Y, Krishnaswamy S, Nandi S, Kanteti R, Vora S, Onel K, Hasina R, Lo F, El-Hashani E, Cervntes G, Robinson M, Kales S, Lipkowitz S, Karrison T, Sattler M, Vokes E, Wang Y, Salgia R. CBL is Frequently Altered in Lung Cancers: Its Relation to Mutations in MET and EGFR Tyrosine Kinases. *PLoS ONE: Public Library of Science ONE*. 5(1): 2010.

## **PODIUM PRESENTATIONS**

- Yeo I, Klemt C, Robinson M, Tirumala V, Xiong L, Kwon YM. Predicting Surgical Site Infection After Primary Total Joint Arthroplasty: A Machine Learning Approach. Presented at ORS 2021 Annual Meeting (Virtual) February 13, 2021.
- Robinson M, Chen J, Cipparrone N, Shah R. Mini-Optical Navigation Improves Leg Lengths and Acetabular Inclination; Anteversion Remains Elusive. 2021 Mid-America Orthopaedic Association Annual Meeting, Amelia Island, FL, Sept 29-Oct 3, 2021.
- Robinson M (speaker), Rybalko D, Mejia A. A Novel Casting Technique for Protecting Surgical Repair in a Pediatric Hand Patient. Presented at 2017 Orthopedic Research and Education Foundation/ Orthopedic Research Society/Midwest Resident Research Symposium, Chicago, IL, May 19, 2017
- Schwartz B, Robinson M (speaker), Moretti V, Gonzalez MH. Total Hip Arthroplasty in the Medicaid Population. Presented at 2015 Mid-America Orthopaedic Association Annual Meeting, Hilton Head, SC, April 22-26, 2015
- Esposito D, Moretti V, Karam J, Schwartz B, Robinson M, Mossad D, Schwartz S, Goldberg B. Glenoid Version and Size: Does Gender, Ethnicity, or Body Size Play a Role? Presented at 2015 Mid-America Orthopaedic Association Annual Meeting, Hilton Head, SC, April 22-26,

2015

## POSTER PRESENTATIONS

- Paschalidis A, Salimy M, Robinson M, Chen A, Melnic CM, O'Brien T, Bedair H, Heng M. Effect of Mental Health on PROMIS Scores after Primary THA. Poster presented at the Eastern Orthopaedic Association 2022 Annual Meeting, Naples, FL, October 25-29, 2022.
- Livshetz I, Hussain A, Robinson M, Amirouche F, Gonzalez MH. Effect Of Pelvis And Limb Position On Radiographic Leg Length Discrepancy Measurement: A Sawbones Model. Accepted as poster presentation to 2019 Summer Biomechanics, Bioengineering, and Biotransport Conference, Seven Springs, Pennsylvania, June 25-28, 2019
- Robinson M, Livshetz I, Gonzalez MH. Effect of Pelvis and Limb Position on Radiographic Leg Length Discrepancy Measurement: A Sawbones Model. Accepted as poster presentation at 2019 MAOA Annual Meeting, Miramar Beach, Florida, April 10-14, 2019
- Volchenko E, Schwarzman G, Robinson M, Chmell SJ. The efficacy of arthroscopic Lysis of adhesions with manipulation under anesthesia vs manipulation alone in treatment of arthrofibrosis after TKA: a matched case control study. Presented at University of Illinois at Chicago College of Medicine Research Forum, Chicago, Illinois, November 9, 2018
- Rhode D, Robinson M, Malhotra G. Surgical treatment of an intrinsic plus contracture of the hand secondary to Parkinson's disease: a case report. Presented at University of Illinois at Chicago College of Medicine Research Forum, Chicago, Illinois, November 9, 2018
- Schwarzman G, Volchenko E, Robinson M, Chmell SJ. The efficacy of arthroscopic Lysis of adhesions with manipulation under anesthesia vs manipulation alone in treatment of arthrofibrosis after TKA: a matched case control study. Accepted for poster presentation at 2018 American Association of Hip and Knee Surgery Annual Meeting, Dallas, Texas, November 1-4, 2018
- Robinson M, Mossad D, Gonzalez MH. Knee Arthrodesis Outcomes Following Infected Total Knee Arthroplasty and Failed Antibiotic Spacer Placement. Presented at 2015 American Academy of Orthopaedic Surgeons Annual Meeting, Las Vegas, Nevada, March 24-28, 2015
- Nandi S, Rolle C, Tan Y, Robinson M, Maranto M, Lennon F, Singleton P, Husain A, Kanteti R, Salgia R. Expression and Functionality of c-CBL in Non-small Cell Lung Cancer. Presented at 2010 Chicago Multidisciplinary Symposium in Thoracic Oncology, Chicago, IL, December 2010

- Surati M, Nandi S, Robinson M, Rolle C, Campbell N, Mendonea E, Kirchner C, Karrison T, Vokes E, Salgia R. Generation of a Comprehensive Thoracic Oncology Database: Topoisomerase I in SCLC as an Example. Presented at 2010 Chicago Multidisciplinary Symposium in Thoracic Oncology, Chicago, IL, December 2010

## Team

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**Clinical Assistant** Brittney F

**Surgery Scheduler** Tina D

**PA** Alvin Haymond PA