



Robin Kamal MD MBA

Associate Professor of Orthopaedic Surgery and, by courtesy, of Surgery
(Plastic and Reconstructive Surgery)

CLINICAL OFFICE (PRIMARY)

- **Hand and Upper Extremity North Campus**

450 Broadway St

Pavilion A 2nd Fl MC 6120

Redwood City, CA 94063

Tel (650) 723-5256 **Fax** (650) 721-3420

ACADEMIC CONTACT INFORMATION

- **Administrative Contact**

Janet Lockshin - Administrative Associate

Email lockshin@stanford.edu

Tel 650-724-7614

Bio

BIO

Dr. Robin Kamal is recognized internationally for his treatment of hand and wrist conditions, including distal radius fractures and arthritis. He is an Associate Professor in the Department of Orthopaedic Surgery and is Medical director of Accountable Care for Stanford Health Care, Medical Director for the Value Based Care Program for Stanford Health Care, and the Medical Director of the Orthopaedic Service Line. He completed his undergraduate and medical education at the University of Missouri Kansas City, and graduated with Alpha Omega Alpha and Cum Laude honors. He completed residency in Orthopaedic Surgery (Brown University), a fellowship in Orthopaedic Trauma (Brown University), and a fellowship in Hand and Upper Extremity, and Microvascular Surgery (Duke University). He completed a Masters in Business Administration from the University of Massachusetts-Amherst and a Masters in Health Policy from Stanford University. His clinical research training includes studying wrist injuries (distal radius fractures/ligament tears) as a research fellow at the University of Barcelona as well as research fellowships at the National Institutes of Health and the University of Iowa.

Dr. Kamal has lectured internationally on hand/wrist conditions, along with quality and value in surgery in the following countries: Australia, Singapore, Japan, Costa Rica, England, Canada, Vietnam, Cambodia, Ecuador, and Spain. He also serves as a Boards Examiner for the The College of Surgeons of East & Central and Southern Africa (COSECSA).

Nationally, Dr. Kamal was Chair of the AAOS Clinical Practice Guidelines for Distal Radius Fractures and is the Co-Chair of the Clinical Practice Guidelines for Carpal Tunnel Syndrome. He has previously Chaired the development of Quality Measures for Carpal Tunnel Syndrome for the American Academy of Orthopaedic Surgeons and the American Society for surgery of the Hand. He currently serves as Co-Chair of the Core Quality Measures Collaborative for NQF/AHIP and a member of the Quality Metrics Committee for the American Society for Surgery of the Hand, and is an editor of the textbook Comprehensive Board Review in Orthopaedic Surgery. His research funding includes a grant from the Moore Foundation. He has served as a grant reviewer for the Department of Defense and is an Associate Editor for the Journal of Hand Surgery.

His main surgical interests are in trauma and reconstructive surgery of the upper limb (hand, wrist, and elbow) with an interest in wrist/distal radius fractures. He strives to provide his patients the highest quality care possible - a commitment he makes his foremost priority. His research and clinical practice are devoted to improving hand, wrist, and elbow function and he treats upper extremity nerve compression syndromes (carpal tunnel), instability/arthritis (finger, wrist, or elbow joint replacement), sports/athletic injuries and fracture care including nonunion/malunion, and minimally invasive arthroscopy.

At Stanford, Dr. Kamal directs the VOICES Health Policy Research Center for the Department of Orthopaedic Surgery where he collaborates with physicians across the country.

Dr. Kamal has >200 peer reviewed publications and his research program focuses on the following (<http://med.stanford.edu/s-voices.html>):

- 1) Radiographic and surgical techniques for distal radius fractures
- 2) Patient reported outcome measures at point of care
- 3) Quality measurement in medicine
- 4) Implementation of accountable care strategies and processes to improve value

CLINICAL FOCUS

- Hand, Wrist, and Elbow Surgery
- Upper Extremity Trauma
- Hand Surgery

ACADEMIC APPOINTMENTS

- Associate Professor - University Medical Line, Orthopaedic Surgery
- Associate Professor - University Medical Line (By courtesy), Surgery - Plastic & Reconstructive Surgery
- Member, Wu Tsai Human Performance Alliance

ADMINISTRATIVE APPOINTMENTS

- Consulting Editor, American Family Physician, (2016- present)
- Consulting Editor, Journal of Oncology Practice, (2016- present)
- Consulting Editor, Journal of Shoulder and Elbow Surgery, (2016- present)
- Consulting Editor, Journal of Hand Surgery, (2015- present)
- Member, Volunteer Services Committee, American Society for Surgery of the Hand, (2014- present)
- Member, Performance Measures Task Force of the American Society for Surgery of the Hand, (2014- present)
- Member, Hand Surgery Quality Consortium, (2014- present)
- Clinician Scholar Development Program, AAOS/OREF/ORS, (2012- present)
- Emerging Leader, American Orthopaedic Association, (2011- present)
- Information Services Advisory Committee, Rhode Island Hospital, (2011-2012)
- President, UMKC School of Medicine Student Body Member, (2005-2006)
- Alumni Board, UMKC School of Medicine, (2004-2006)

HONORS AND AWARDS

- Award for Community Service, UMKC School of Medicine Schaffer (2004)
- Alpha Omega Alpha (AOA), UMKC School of Medicine (2006)
- Award For Research, St. Louis Friends of UMKC School of Medicine (2007)

- Alumni Association Award for Outstanding Research, UMKC School of Medicine (2007)
- Award for Scientific presentation at Annual Meeting, "Best of the AAOS" (2012)

BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS

- Fellow, American Academy of Orthopaedic Surgeons (2017 - present)
- Member, American Society for Surgery of the Hand (2018 - present)
- Registered Disaster Responder, American Academy of Orthopaedic Surgeons (2013 - present)
- Candidate Member, American Association for Hand Surgery (2011 - present)
- Emerging Leader, American Orthopaedic Association (2011 - present)
- Member, International Society of Orthopaedic Surgery and Traumatology (SICOT) (2012 - present)
- Candidate Member, Orthopaedic Trauma Association (2013 - present)

PROFESSIONAL EDUCATION

- Medical Education: University of Missouri Kansas City School of Medicine (2007) MO
- Fellowship: Duke University Medical Center Dept of Orthopaedic Surgery (2014) NC
- Fellowship: Brown University Rhode Island Hospital Orthopaedic Trauma Fellowship (2013) RI
- Residency: Brown University Rhode Island Hospital Orthopaedic Surgery Residency (2012) RI
- Internship: Brown University Surgery Residency (2008) RI
- Board Certification: Hand Surgery, American Board of Orthopaedic Surgery (2017)
- Board Certification: Orthopaedic Surgery, American Board of Orthopaedic Surgery (2016)
- Assistant Professor, Stanford University Medical Center , Department of Orthopaedic Surgery Chase Hand and Upper Limb Center
- Fellowship, Duke University Medical Center , Hand, Upper Extremity, and Microvascular
- Fellowship, Brown University/Rhode Island Hospital , Orthopaedic Trauma
- Residency, Brown University/Rhode Island Hospital , Orthopaedic Surgery
- Internship, Brown University/Rhode Island Hospital , General Surgery
- Doctor of Medicine, Cum Laude, University of Missouri-Kansas City School of Medicine , Doctor of Medicine

COMMUNITY AND INTERNATIONAL WORK

- Hand and Burn Surgery, La Paz, Bolivia
- English Teacher, Santa Domingo, Dominican Republic
- Medical Mission, San Lucas, Guatemala
- Orthopaedic Trauma, Hospital Roberto Calderon, Managua, Nicaragua
- Orthopaedic Trauma, Adventist Hospital, Port-Au-Prince, Haiti

LINKS

- Voices: <http://med.stanford.edu/s-voices.html>
- Get a Second Opinion: <https://stanfordhealthcare.org/second-opinion/overview.html>

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

Wrist and Elbow Injuries and Quality Measures in Orthopaedic Surgery

CLINICAL TRIALS

- goals pics, Not Recruiting
- QPL for hand conditions, Not Recruiting
- QPL ortho, Not Recruiting
- Tool testing CTS, Not Recruiting
- Trigger Finger Preference Elicitation Tool, Not Recruiting
- Comparison of Upper Extremity and Lower Extremity Function and Quick DASH, Not Specified
- Hand therapy app, Not Specified
- PROMs To Improve Care- Standardized vs Patient Specific, Not Specified

PROJECTS

- Does Ligament Elasticity Affect Carpal Kinematics?
- Quality Measure Development in Hand Surgery
- Patient-Centered Education Tools

Teaching

STANFORD ADVISEES

Med Scholar Project Advisor

Samuel Castro, Eshan Damle, Chiamaka Obilo, Emily Schultz, Hubert Tuyishime, Bill Young

Publications

PUBLICATIONS

- **In whom are distal radius fracture patient reported outcome measures developed? A systematic review of development studies** *JOURNAL OF ORTHOPAEDICS*
Ulysse, S. N., Rivas, Z., Stern, B. Z., Kamal, R. N., Abrolat, J. L., Orozco, C. F., Lalchandani, G., Shapiro, L. M.
2026; 72: 325-331
- **In whom are distal radius fracture patient reported outcome measures developed? A systematic review of development studies.** *Journal of orthopaedics*
Ulysse, S. N., Rivas, Z., Stern, B. Z., Kamal, R. N., Abrolat, J. L., Orozco, C. F., Lalchandani, G., Shapiro, L. M.
2026; 72: 325-331
- **Evaluating the Safety of Prescription Sleep Medications in Patients Undergoing Total Knee Arthroplasty: A Propensity Matched Analysis.** *The Journal of the American Academy of Orthopaedic Surgeons*
Young, B., Zhuang, T., Fernando, N., Manner, P., Kamal, R. N., Hernandez, N. M.
2025
- **Factors Associated With Time to Surgery of Geriatric Hip Fractures: An Analysis of the American College of Surgeons' Trauma Quality-Improvement Program Database.** *The Journal of the American Academy of Orthopaedic Surgeons*
Zhuang, T., Shapiro, L. M., Koltsov, J. C., Harris, A. H., Baker, L. C., Morris, A., Gardner, M. J., Tennakoon, L., Spain, D. A., Kamal, R. N.
2025
- **Drivers of Delayed Time to Surgery for Hip Fracture Patients: A Multi-Center Qualitative Study.** *The Journal of the American Academy of Orthopaedic Surgeons*
Schultz, E. A., Welch, J. M., Cross, W., Shah, K., Mansuripur, P. K., Kain, M., Holte, P., Lee, B. J., Burn, M., Hall, K., Willey, M., McKee, M., Pang, et al
2025

- **Preparing for Medicare TEAM (Transforming Episode Accountability Model): Key Strategies for Success** *JOURNAL OF THE AMERICAN ACADEMY OF ORTHOPAEDIC SURGEONS*
Kamal, R. N., Kerr, A., Shapiro, L. M.
2025; 33 (15): 826-835
- **Salvaging Proximal Pole Scaphoid Nonunions Using Ipsilateral Proximal Hamate Autograft: A Multicenter Case Series.** *Hand (New York, N.Y.)*
Carlson Strother, C., Meaike, J., Elhassan, B., Kamal, R., Yao, J., Gaston, R. G., Kakar, S.
2025: 15589447251352002
- **Metacarpal Fractures: An Evidence-Based Review to Guide Treatment.** *The Journal of the American Academy of Orthopaedic Surgeons*
Stash, N., Kamal, R. N., Richard, M., Shapiro, L. M.
2025
- **Reliability, Usability, and Face Validity of the Capacity Assessment Tool for Orthopedic Surgery (CAT-os) in Low- and Middle-Income Countries (LMICs): A Pilot Study.** *World journal of surgery*
Tuyishime, H., Jodah, R., Eppler, S. L., Shapiro, L. M., Kamal, R. N.
2025
- **Sagittal and Coronal Plate Position Is Not Associated With Flexor Tendon Irritation, Rupture, or Need for Plate Removal After Volar Locking Plate Fixation of Distal Radius Fractures.** *Hand (New York, N.Y.)*
Zhuang, T., Mansuripur, K., Shapiro, L. M., Mithani, S. K., Ruch, D. S., Richard, M. J., Kamal, R. N.
2025: 15589447251338533
- **Outcomes and Quality of Evidence of the Treatment of Upper Extremity Cartilage Injuries: A Systematic Review.** *The journal of hand surgery Asian-Pacific volume*
Schultz, E. A., Snyder, E. M., Tian, A., Kamal, R. N.
2025
- **Trends in the Incidence of Flexor Tendinopathy after Surgical Fixation of Distal Radius Fractures: Analysis of a Population-Based Database.** *The journal of hand surgery Asian-Pacific volume*
Zhuang, T., Shapiro, L. M., Kamal, R. N.
2025
- **National Agenda for Disparities Research in Hand Surgery: Validation of Social Determinant of Health Domains and Measurement Constructs.** *Hand (New York, N.Y.)*
Obilo, C., Kamal, R. N., Shapiro, L. M.
2025: 15589447251336401
- **The palmar intra-articular extended window approach for distal radial fractures: a biomechanical cadaveric study.** *The Journal of hand surgery, European volume*
Bronenberg Victorica, P., Shapiro, L., De Carli, P., Castro Appiani, L. M., Chan, C., Kamal, R. N.
2025: 17531934251332565
- **An Analysis of the Study Participants and Patient-Reported Outcome Measures Used to Inform Clinical Practice Guidelines for Hip and Knee Osteoarthritis.** *The Journal of arthroplasty*
Mai, T., Julian, K. R., Ward, D., Kamal, R. N., Shapiro, L. M.
2025
- **Establishing Clinically Operational Domains of Multidimensional Frailty: A Consensus Approach to Improve Multidimensional Frailty Diagnosis at Point of Care.** *The Gerontologist*
Shapiro, L. M., Arya, S., Adeli, E., Fredericson, M., Kaplan, R. M., Eppler, S. L., Lorenz, K., Lorig, K., Marwell, J., Schmiesing, C., Schroeder, R., Schulman, K., Trivedi, et al
2025
- **Development of International Quality Measures Targeting Low-Value Care in Hand Surgery.** *The Journal of hand surgery*
Schultz, E. A., Kamal, R. N., Shapiro, L. M.
2025
- **Improved Risk Adjustment for Comorbid Diagnoses in Administrative Claims Analyses of Orthopaedic Surgery.** *The Journal of bone and joint surgery. American volume*

- Koltsov, J. C., Zhuang, T., Hu, S. S., Kamal, R. N.
2025
- **Is Area-Level Social Vulnerability Index Associated With Patient-Level Health-Related Social Needs in Hand Surgery?** *Journal of the American Academy of Orthopaedic Surgeons (JAAOS)*
Schultz, E. A., Zhuang, T., Shapiro, L. M., Kamal, R. N.
2025
 - **Is Area-Level Social Vulnerability Index Associated With Patient-Level Health-Related Social Needs in Hand Surgery?** *The Journal of the American Academy of Orthopaedic Surgeons*
Schultz, E. A., Zhuang, T., Shapiro, L. M., Kamal, R. N.
2025
 - **Time-dependent, patient-centered perceptions of quality measures for total joint arthroplasty: a cross-sectional, choice modeling study.** *BMC musculoskeletal disorders*
Lemos, J. L., Welch, J. M., Amanatullah, D. F., Shapiro, L. M., Harris, A. H., Kamal, R. N.
2025; 26 (1): 41
 - **American Academy of Orthopaedic Surgeons/ASSH Clinical Practice Guideline Summary Management of Carpal Tunnel Syndrome.** *The Journal of the American Academy of Orthopaedic Surgeons*
Shapiro, L. M., Kamal, R. N., Management of Carpal Tunnel Syndrome Work Group, American Academy of Orthopaedic Surgeons
2024
 - **MRI for Scaphoid Nonunion: Utilization Rates, Factors Associated with Utilization, and Subsequent Vascularized Bone Graft Use** *Journal of Hand Surgery*
Shapiro, L. M., Schultz, E. A., Welch, J. M., Zhuang, T., Hand Surgery Quality Consortium, H., Kamal, R. N.
2024
 - **MRI for Scaphoid Nonunion: Utilization Rates, Factors Associated with Utilization, and Subsequent Vascularized Bone Graft Use.** *The Journal of hand surgery*
Shapiro, L. M., Schultz, E. A., Welch, J., Zhuang, T., Kamal, R. N.
2024
 - **Integrated Compression Screw Versus Unicortical Locking Screw for Fixing the Dorsal Critical Corner in Distal Radius Fractures: A Biomechanical Study.** *The Journal of hand surgery*
Bronenberg Victorica, P., Shapiro, L. M., Chan, C., De Carli, P., Castro Appiani, L. M., Kamal, R. N.
2024
 - **Does Discussing Patient-reported Outcome Measures Increase Pain Self-efficacy at an Orthopaedic Visit? A Prospective, Sequential, Comparative Series.** *Clinical orthopaedics and related research*
Schultz, E. A., Gomez, G. I., Gardner, M. J., Hu, S. S., Safran, M., Amanatullah, D. F., Shapiro, L. M., Kamal, R. N.
2024
 - **Claims Database Research in Hand Surgery: From Data to Bedside.** *The Journal of hand surgery*
Zhuang, T., Shapiro, L. M., Kamal, R. N.
2024
 - **A 3-Dimensional Printed Dynamic External Fixator for the Treatment of Proximal Interphalangeal Fracture-Dislocations: A Biomechanical Study.** *The Journal of hand surgery*
Bronenberg Victorica, P., Albani-Forneris, A., Holc, F., Shapiro, L. M., Kamal, R. N., Boretto, J. G.
2024
 - **Utilization of Surgical Fixation for Distal Radius Fractures in the United States: A Population-Based Cohort Study.** *The Journal of hand surgery*
Zhuang, T., Young, B., Shapiro, L. M., Kamal, R. N.
2024
 - **Quality Measures Addressing Orthopaedic Surgery in Ambulatory Surgery Centers: A Systematic Review**
Snyder, E., Schultz, E. A., Shapiro, L. M., Kamal, R. N.
LIPPINCOTT WILLIAMS & WILKINS.2024: S333-S334

- **A Quantitative Assessment to Support Orthopaedic Surgery Capacity-Building in Palau**
Snyder, E., Dever, G. J., Kamal, R. N., Shapiro, L. M.
LIPPINCOTT WILLIAMS & WILKINS.2024: S223
- **Surgeon Alignment With Clinical Practice Guidelines: A Qualitative Analysis of Treatment of Distal Radius Fractures.** *Hand (New York, N.Y.)*
Schultz, E. A., Eppler, S. L., Shapiro, L. M., Kamal, R. N.
2024: 15589447241277843
- **A Biomechanical Analysis of Oblique Metacarpal Metadiaphyseal Fracture Fixation in a Cadaver Model.** *The Journal of hand surgery*
Garcia-Lopez, E., Siu, J. W., Kwong, J. W., Kamal, R. N., Schroeder, N., Shapiro, L. M.
2024
- **Goal Concordant Care: A Cross-Sectional Study Evaluating Correlates of Concordant Care and Association With Satisfaction and Outcomes.** *Hand (New York, N.Y.)*
Julian, K. R., Kwong, J. W., Leversedge, C., Zhuang, T., Schroeder, N., Kamal, R. N., Shapiro, L. M.
2024: 15589447241279458
- **Disparities Exist in Knowledge of Hip Fracture Compared With Stroke and Myocardial Infarction** *ORTHOPEDICS*
Choy, S., Zhuang, T., Shapiro, L., Kamal, R.
2024: 1-7
- **Opioid Use After Robotic-Assisted Versus Conventional Total Hip Arthroplasty: A National Database Analysis** *ORTHOPEDICS*
Zhuang, T., Young, B., Hooper, J., Amanatullah, D. F., Shapiro, L., Kamal, R. N.
2024; 47 (5): 289-+
- **Current Use of Patient-Reported Outcome Measures Ignores Functional Demand.** *The Journal of the American Academy of Orthopaedic Surgeons*
Kamal, R. N., Gomez, G., Chakraborty, A., Leversedge, C., Amanatullah, D. F., Chou, L., Gardner, M. J., Hu, S. S., Safran, M., Zhuang, T., Shapiro, L. M.
2024
- **Health Numeracy Is Associated With a Patient's Ability to Interpret Patient-Reported Outcome Measures Data.** *Orthopedics*
Schultz, E. A., Eppler, S. L., Gardner, M., Hu, S. S., Chou, L., Safran, M., Amanatullah, D. F., Abrams, G. D., Shapiro, L. M., Kamal, R. N.
2024: 1-6
- **Performing region-specific tasks does not improve lower extremity patient-reported outcome scores.** *Arthroplasty (London, England)*
Korth, M. J., Banta, W. A., Arora, P., Kamal, R. N., Amanatullah, D. F.
2024; 6 (1): 42
- **Pain Self-Efficacy Can Improve During a Visit With an Orthopedic Surgeon** *ORTHOPEDICS*
Lemos, J. L., Gomez, G. I., Tewari, P., Amanatullah, D. F., Chou, L., Gardner, M. J., Hu, S., Safran, M., Kamal, R. N.
2024; 47 (4): e197-e203
- **The Association Between Social Determinants of Health and Distal Radius Fracture Outcomes.** *The Journal of hand surgery*
Truong, N. M., Stroud, S. G., Zhuang, T., Fernandez, A., Kamal, R. N., Shapiro, L. M.
2024
- **Clinical Practice Guidelines to Support Capacity Building in Orthopaedic Surgical Outreach: An International Consensus Building Approach.** *The Journal of bone and joint surgery. American volume*
Welch, J. M., Kamal, R. N., Kozin, S. H., Dyer, G. S., Katarincic, J. A., Fox, P. M., Shapiro, L. M.
2024
- **Are Clinical Practice Guidelines Representative of Patients with Distal Radius Fractures? A Review of Patient Demographics and Patient-Reported Outcome Measures Used to Inform Guidelines.** *The Journal of hand surgery*
Mulakaluri, A., Julian, K. R., Fernandez, A., Kamal, R. N., Shapiro, L. M.
2024
- **Implementation of an electronic health record system during global surgical outreach: A prospective evaluation of success and sustainability.** *World journal of surgery*
Gatto, A. P., Atkin, D., Tapia, J. C., Lowenberg, M., Kamal, R. N., Shapiro, L. M.

2024

- **Are Orthopaedic Clinical Trials Linguistically and Culturally Diverse? A Systematic Review** *JBJS REVIEWS*
Julian, K. R., Mulakaluri, A., Truong, N. M., Fernandez, A., Kamal, R. N., Shapiro, L. M.
2024; 12 (5)
- **Are Orthopaedic Clinical Trials Linguistically and Culturally Diverse? A Systematic Review.** *JBJS reviews*
Julian, K. R., Mulakaluri, A., Truong, N. M., Fernandez, A., Kamal, R. N., Shapiro, L. M.
2024; 12 (5)
- **Site of Service Disparities Exist for Total Joint Arthroplasty** *ORTHOPEDICS*
Truong, N. M., Leversedge, C., Zhuang, T., Shapiro, L. M., Whittaker, M., Kamal, R. N.
2024; 47 (3): 179-184
- **Cost-Effectiveness Analysis of Early versus Late Debridement of Superficial Triangular Fibrocartilage Complex Tears.** *Journal of hand and microsurgery*
Ku, S., Zhuang, T., Shapiro, L. M., Richard, M. J., Ruch, D. S., Kamal, R. N.
2024; 16 (1): 100009
- **Orthopedic surgery in Palau-Current capacity, needs, and future directions.** *World journal of surgery*
Snyder, E. M., Withy, K., Dever, G., Decherong, C., Adelbai-Fraser, M., Mekoll, N., Uherbelau, G., Kamal, R. N., Shapiro, L. M.
2024
- **Bone Graft Substitutes-What Are My Options?** *Hand clinics*
Shah, K. N., Kamal, R. N.
2024; 40 (1): 13-23
- **Equitable Integration of Patient-Reported Outcomes Into Clinical Practice-Opportunities, Challenges, and a Roadmap for Implementation.** *The Journal of the American Academy of Orthopaedic Surgeons*
Shapiro, L. M., Katz, P., Stern, B. Z., Kamal, R. N.
2024
- **AOA Critical Issues: A Culture of Safety Across All Orthopaedic Professional Endeavors.** *The Journal of bone and joint surgery. American volume*
Ring, D., Adams, J., Samora, J., Kamal, R.
2024
- **Does Discussing Patient-reported Outcome Measures Increase Pain Self-efficacy at an Orthopaedic Visit? A Prospective, Sequential, Comparative Series** *Does Discussing Patient-reported Outcome Measures Increase Pain Self-efficacy at an Orthopaedic Visit? A Prospective, Sequential, Comparative Series*
Schultz, E. A., Gomez, G. I., Gardner, M., Hu, S., Safran, M., Amanatullah, D., Shapiro, L. M., Kamal, R. N.
2024
- **Contextual Determinants of Time to Surgery for Patients With Hip Fracture.** *JAMA network open*
Welch, J. M., Gomez, G. I., Chatterjee, M., Shapiro, L. M., Morris, A. M., Gardner, M. J., Sox-Harris, A. H., Baker, L., Koltsov, J. C., Castillo, T., Giori, N., Salyapongse, A., Kamal, et al
2023; 6 (12): e2347834
- **Variations in Treatment and Costs for Distal Radius Fractures in Patients Over 55 Years of Age: A Population-Based Study.** *Journal of hand and microsurgery*
Shapiro, L. M., Xiao, M., Zhuang, T., Ruch, D. S., Richard, M. J., Kamal, R. N.
2023; 15 (5): 351-357
- **The Development and Validation of Data Elements and Process Steps for an Electronic Health Record for Hand Surgery Outreach Trips.** *Journal of hand and microsurgery*
Shapiro, L. M., Chang, J., Fox, P. M., Kozin, S., Chung, K. C., Dyer, G. S., Fufa, D., Leversedge, F., Katarincic, J., Kamal, R.
2023; 15 (5): 358-364
- **The Safety of the Volar Intraarticular Extended Window (VIEW) Approach for Intra-articular Distal Radius Fractures.** *Hand (New York, N.Y.)*
Kamal, R. N., Gomez, G. I., Schultz, E. A., Shapiro, L. M.
2023: 15589447231210926

- **Volar Intra-articular Extended Window Approach for Intra-articular Distal Radius Fractures.** *Techniques in hand & upper extremity surgery*
Kamal, R. N., Bronenberg, P., Shapiro, L. M.
2023
- **Can Caregivers Forecast Their Child's Postoperative Disability After Elective Orthopedic Surgery?** *Cureus*
Baskar, D., Mehta, S., Freiman, H., Segovia, N. A., Vuong, B. B., Richey, A., Langner, J. L., Hastings, K. G., Kamal, R. N., Frick, S.
2023; 15 (11): e48575
- **Enhanced Approaches to the Treatment of Distal Radius Fractures.** *Hand clinics*
Patel, D., Kamal, R.
2023; 39 (4): 515-521
- **Strategies for Perioperative Optimization in Upper Extremity Fracture Care.** *Hand clinics*
Zhuang, T., Kamal, R. N.
2023; 39 (4): 617-625
- **Innovation in Upper Extremity Fracture Treatment-Implementation of Advanced Techniques to Improve Outcomes.** *Hand clinics*
Kamal, R. N., Shapiro, L. M.
2023; 39 (4): xi
- **Upper extremity trauma in Costa Rica - Evaluating epidemiology and identifying opportunities** *CURRENT ORTHOPAEDIC PRACTICE*
Appiani, L., Castro, S., Romero, B., Salas, J., Vindas, P., Soto, R., Artavia, C., Kamal, R. N., Shapiro, L. M.
2023; 34 (6): 280-284
- **Is There Variation in Time to and Type of Treatment for Hip Osteoarthritis Based on Insurance?** *The Journal of arthroplasty*
Chakraborty, A., Zhuang, T., Shapiro, L. M., Amanatullah, D. F., Kamal, R. N.
2023
- **Preoperative Optimization for Orthopaedic Surgery: Steps to Reduce Complications.** *The Journal of the American Academy of Orthopaedic Surgeons*
Shapiro, L. M., Bolognesi, M. P., Bozic, K., Kamal, R. N.
2023
- **Upper Extremity Trauma in Costa Rica - Evaluating Epidemiology and Identifying Opportunities.** *Current orthopaedic practice*
Castro Appiani, L. M., Castro, S., Romero, B., Díaz Salas, J. D., Vindas, P., Soto, R., Artavia, C. C., Kamal, R., Shapiro, L. M.
2023; 34 (6): 280-284
- **Does time to surgery for distal radius fractures impact clinical and radiographic outcomes? A systematic literature review** *CURRENT ORTHOPAEDIC PRACTICE*
Julian, K. R., Truong, N. M., Leversedge, C., Kwong, J. W., Rosinski, A., Kamal, R. N., Shapiro, L. M.
2023; 34 (5): 229-235
- **Current Implementation of Quality Measures on American Society for Surgery of the Hand Touching Hands Project Outreach Trips.** *The Journal of hand surgery*
Almeida, B. A., Kerluku, J., Shapiro, L. M., Kamal, R., Fufa, D. T.
2023
- **Is There a Critical Dorsal Lunate Facet Size in Distal Radius Fractures That Leads to Dorsal Carpal Subluxation? A Biomechanical Study of the Dorsal Critical Corner.** *The Journal of hand surgery*
Shapiro, L. M., Zhou, J., Shah, K., Frey, C., Chan, C., Kamal, R. N.
2023
- **Response to "Letter Regarding 'The Volar Intra-Articular Extended Window Approach for Intra-Articular Distal Radius Fractures'".** *The Journal of hand surgery*
Kamal, R. N., Ostergaard, P. J., Shapiro, L. M.
2023; 48 (8): e7
- **Identifying Strategies to Reduce Low-Value Preoperative Testing for Low-Risk Procedures: a Qualitative Study of Facilities with High or Recently Improved Levels of Testing.** *Journal of general internal medicine*
Harris, A. H., Finlay, A. K., Hagedorn, H. J., Manfredi, L., Jones, G., Kamal, R. N., Sears, E. D., Hawn, M., Eisenberg, D., Pershing, S., Mudumbai, S.

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