



## Robin Kamal

Assistant Professor of Orthopaedic Surgery at the Stanford University Medical Center

### CLINICAL OFFICES

- **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**

Katie Hayes Meyer - Administrative Associate

**Email** meyerkh@stanford.edu

**Tel** (650)721-7629

### Bio

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#### BIO

Dr. Robin Kamal is an Assistant Professor in the Department of Orthopaedic Surgery. He completed his undergraduate and medical education at the University of Missouri, and graduated with Alpha Omega Alpha and Cum Laude honors. He completed residency in Orthopaedic Surgery at Brown University. He also completed a fellowship in Orthopaedic Trauma at Brown University, and in Hand and Upper Extremity, and Microvascular Surgery at Duke University. His 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's NIH-funded research program focuses on the following (<http://med.stanford.edu/s-voices.html>):

- 1) Patient reported outcomes and their use in patient-centered care
- 2) Quality and value in orthopaedic surgery and how it is defined by each stakeholder
- 3) Development of high value care pathways for common orthopedic conditions

Dr. Kamal currently serves as the Chair of the Quality Metrics Committee for the American Society for Surgery of the Hand, Chair of the Carpal Tunnel Quality Measure Workgroup and Chair of the Distal Radius Fracture Quality Measure Workgroup. He is an editor of the textbook Comprehensive Board Review in Orthopaedic Surgery. His research funding includes a NIH K23 grant and a quality measure development grant from the American Academy of Orthopaedic Surgeons. He has served as a grant reviewer for the Department of Defense, and is an Emerging Leader for the American Orthopaedic Association. He 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, elbow). 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.

## **CLINICAL FOCUS**

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

## **ACADEMIC APPOINTMENTS**

- Assistant Professor - Med Center Line, Orthopaedic Surgery

## **ADMINISTRATIVE APPOINTMENTS**

- Consulting Editor, Journal of Shoulder and Elbow Surgery, (2016- present)
- Consulting Editor, Journal of Oncology Practice, (2016- present)
- Consulting Editor, American Family Physician, (2016- present)
- Consulting Editor, Journal of Hand Surgery, (2015- present)
- Member, Hand Surgery Quality Consortium, (2014- present)
- Member, Performance Measures Task Force of the American Society for Surgery of the Hand, (2014- present)
- Member, Volunteer Services Committee, American Society for Surgery of the Hand, (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**

- 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
- Medical Education: University of Missouri Kansas City School of Medicine Registrar (2007) MO
- 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

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### CURRENT RESEARCH AND SCHOLARLY INTERESTS

Wrist and Elbow Injuries and Quality Measures in Orthopaedic Surgery

### CLINICAL TRIALS

- Alternatives to Hand Therapy for Hand Surgery Patients, Recruiting
- Decision Making in Hypothetical Carpal Tunnel Syndrome, Recruiting
- Does Goal Elicitation Improve Patient Perceived Involvement, Not Recruiting
- Testing of a Tool to Elicit Patient Preferences for CTS, Not Recruiting

### PROJECTS

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

## Publications

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### PUBLICATIONS

- **Deltoid Compartment Syndrome After Prolonged Lateral Decubitus Positioning: A Case Report.** *JBJS case connector*  
Borenstein, T. R., Cohen, E., McDonnell, M., Kamal, R. N., Hayda, R. A.  
; 5 (2): e45

- **Differences in the Rotation Axes of the Scapholunate Joint During Flexion-Extension and Radial-Ulnar Deviation Motions.** *The Journal of hand surgery*  
Best, G. M., Mack, Z. E., Pichora, D. R., Crisco, J. J., Kamal, R. N., Rainbow, M. J.  
2019
- **The Role of Patient Research in Patient Trust in Their Physician** *JOURNAL OF HAND SURGERY-AMERICAN VOLUME*  
Lu, L. Y., Sheikholeslami, N., Alokozai, A., Eppler, S. L., Kamal, R. N.  
2019; 44 (7): 617-+
- **Variability and Costs of Low-Value Preoperative Testing for Carpal Tunnel Release Surgery.** *Anesthesia and analgesia*  
Harris, A. H., Meerwijk, E. L., Kamal, R. N., Sears, E. D., Hawn, M., Eisenberg, D., Finlay, A. K., Hagedorn, H., Mudumbai, S.  
2019
- **The Feasibility and Usability of a Ranking Tool to Elicit Patient Preferences for the Treatment of Trigger Finger** *JOURNAL OF HAND SURGERY-AMERICAN VOLUME*  
Shapiro, L. M., Eppler, S. L., Kamal, R. N.  
2019; 44 (6): 480-+
- **The Association of Financial Distress With Disability in Orthopaedic Surgery.** *The Journal of the American Academy of Orthopaedic Surgeons*  
Mertz, K., Eppler, S. L., Thomas, K., Alokozai, A., Yao, J., Amanatullah, D. F., Chou, L., Wood, K. B., Safran, M., Steffner, R., Gardner, M., Kamal, R. N.  
2019; 27 (11): e522-e528
- **Can Patients Forecast Their Postoperative Disability and Pain?** *CLINICAL ORTHOPAEDICS AND RELATED RESEARCH*  
Alokozai, A., Eppler, S. L., Lu, L. Y., Sheikholeslami, N., Kamal, R. N.  
2019; 477 (3): 635-43
- **Can Patients Forecast Their Postoperative Disability and Pain?** *Clinical orthopaedics and related research*  
Alokozai, A., Eppler, S. L., Lu, L. Y., Sheikholeslami, N., Kamal, R. N.  
2019; 477 (3): 635-43
- **Variation in Surgeons' Requests for General Anesthesia When Scheduling Carpal Tunnel Release.** *Hand (New York, N.Y.)*  
Harris, A. H., Meerwijk, E. L., Kamal, R. N., Sears, E. D., Hawn, M., Eisenberg, D., Finlay, A. K., Hagedorn, H., Marshall, N., Mudumbai, S. C.  
2019: 1558944719828006
- **The Feasibility and Usability of a Ranking Tool to Elicit Patient Preferences for the Treatment of Trigger Finger.** *The Journal of hand surgery*  
Shapiro, L. M., Eppler, S. L., Kamal, R. N.  
2019
- **Cost in Hand Surgery: The Patient Perspective.** *The Journal of hand surgery*  
Alokozai, A., Crijns, T. J., Janssen, S. J., Van Der Gronde, B., Ring, D., Sox-Harris, A., Kamal, R. N.  
2019
- **Team Approach: Management of Scapholunate Instability.** *JBJS reviews*  
Kamal, R. N., Moore, W., Kakar, S.  
2019
- **TEAM APPROACH: MANAGEMENT OF SCAPHOLUNATE INSTABILITY** *JBJS REVIEWS*  
Kamal, R. N., Moore, W., Kakar, S.  
2019; 7 (2)
- **Orthopaedic Trauma Quality Measures for Value-Based Health Care Delivery: A Systematic Review** *JOURNAL OF ORTHOPAEDIC TRAUMA*  
DeBaun, M. R., Chen, M. J., Bishop, J. A., Gardner, M. J., Kamal, R. N.  
2019; 33 (2): 104-10
- **Orthopaedic Trauma Quality Measures for Value Based Healthcare Delivery: A Systematic Review.** *Journal of orthopaedic trauma*  
DeBaun, M. R., Chen, M. J., Bishop, J. A., Gardner, M. J., Kamal, R. N.  
2019
- **Can the QuickDASH PROM be Altered by First Completing the Tasks on the Instrument?** *Clinical orthopaedics and related research*  
Shapiro, L. M., Harris, A. H., Eppler, S. L., Kamal, R. N.  
2019

- **National Trends in the Diagnosis of CRPS after Open and Endoscopic Carpal Tunnel Release.** *Journal of wrist surgery*  
Mertz, K., Trunzter, J., Wu, E., Barnes, J., Eppler, S. L., Kamal, R. N.  
2019; 8 (3): 209–14
- **Variations in Utilization of Carpal Tunnel Release Among Medicaid Beneficiaries.** *The Journal of hand surgery*  
Zhuang, T., Eppler, S. L., Kamal, R. N.  
2018
- **Variation in Nonsurgical Services for Carpal Tunnel Syndrome Across a Large Integrated Health Care System.** *The Journal of hand surgery*  
Sears, E. D., Meerwijk, E. L., Schmidt, E. M., Kerr, E. A., Chung, K. C., Kamal, R. N., Harris, A. H.  
2018
- **Clinical Care Redesign to Improve Value in Carpal Tunnel Syndrome: A Before-and-After Implementation Study.** *The Journal of hand surgery*  
Kamal, R. N., Behal, R.  
2018
- **The Role of Patient Research in Patient Trust in Their Physician.** *The Journal of hand surgery*  
Lu, L. Y., Sheikholeslami, N., Alokozai, A., Eppler, S. L., Kamal, R. N.  
2018
- **Quality Measures in Foot and Ankle Care.** *The Journal of the American Academy of Orthopaedic Surgeons*  
Xiong, G., Bennett, C. G., Chou, L., Kamal, R. N.  
2018
- **Quality Measures in Total Hip and Total Knee Arthroplasty.** *The Journal of the American Academy of Orthopaedic Surgeons*  
Amanatullah, D. F., McQuillan, T., Kamal, R. N.  
2018
- **Low Value Preoperative Testing for Carpal Tunnel Release in the Veterans Health Administration**  
Sox-Harris, A., Meerwijk, E. L., Kamal, R. N., Sears, E., Finlay, A. K., Hawn, M. T., Eisenberg, D., Mudumbai, S.  
ELSEVIER SCIENCE INC.2018: E32
- **Defining Quality in Hand Surgery From the Patient's Perspective: A Qualitative Analysis.** *The Journal of hand surgery*  
Eppler, S. L., Kakar, S., Sheikholeslami, N., Sun, B., Pennell, H., Kamal, R. N.  
2018
- **Financial Distress and Discussing the Cost of Total Joint Arthroplasty.** *The Journal of arthroplasty*  
Amanatullah, D. F., Murasko, M. J., Chona, D. V., Crijns, T. J., Ring, D., Kamal, R. N.  
2018
- **Patient Perceptions Correlate Weakly With Observed Patient Involvement in Decision-making in Orthopaedic Surgery.** *Clinical orthopaedics and related research*  
Mertz, K., Eppler, S., Yao, J., Amanatullah, D. F., Chou, L., Wood, K. B., Safran, M., Steffner, R., Gardner, M., Kamal, R.  
2018
- **Complication rates by surgeon type after open treatment of distal radius fractures.** *European journal of orthopaedic surgery & traumatology : orthopedie traumatologie*  
Trunzter, J., Mertz, K., Eppler, S., Li, K., Gardner, M., Kamal, R.  
2018
- **Patients Should Define Value in Health Care: A Conceptual Framework.** *The Journal of hand surgery*  
Kamal, R. N., Lindsay, S. E., Eppler, S. L.  
2018
- **The Affordable Care Act Decreased the Proportion of Uninsured Patients in a Safety Net Orthopaedic Clinic** *CLINICAL ORTHOPAEDICS AND RELATED RESEARCH*  
Gil, J. A., Goodman, A. D., Kleiner, J., Kamal, R. N., Baker, L. C., Akelman, E.  
2018; 476 (5): 925–31
- **The Sigmoid Notch View for Distal Radius Fractures.** *The Journal of hand surgery*

- Kamal, R. N., Leversedge, F., Ruch, D. S., Mithani, S. K., Cotterell, I. H., Richard, M. J.  
2018
- **Does Wrist Laxity Influence Three-Dimensional Carpal Bone Motion?** *JOURNAL OF BIOMECHANICAL ENGINEERING-TRANSACTIONS OF THE ASME*  
Best, G. M., Zec, M. L., Pichora, D. R., Kamal, R. N., Rainbow, M. J.  
2018; 140 (4)
  - **What Is the State of Quality Measurement in Spine Surgery?** *CLINICAL ORTHOPAEDICS AND RELATED RESEARCH*  
Bennett, C., Xiong, G., Hu, S., Wood, K., Kamal, R. N.  
2018; 476 (4): 725–31
  - **Tensile and Torsional Structural Properties of the Native Scapholunate Ligament.** *The Journal of hand surgery*  
Pang, E. Q., Douglass, N., Behn, A., Winterton, M., Rainbow, M. J., Kamal, R. N.  
2018
  - **Effectiveness of Preoperative Antibiotics in Preventing Surgical Site Infection After Common Soft Tissue Procedures of the Hand.** *Clinical orthopaedics and related research*  
Li, K., Sambare, T. D., Jiang, S. Y., Shearer, E. J., Douglass, N. P., Kamal, R. N.  
2018
  - **Does Wrist Laxity Influence Three-Dimensional Carpal Bone Motion?** *Journal of biomechanical engineering*  
Best, G. M., Zec, M. L., Pichora, D. R., Kamal, R. N., Rainbow, M. J.  
2018; 140 (4)
  - **Treatment Trends in Older Adults With Midshaft Clavicle Fractures** *JOURNAL OF HAND SURGERY-AMERICAN VOLUME*  
Pang, E., Zhang, S., Harris, A. S., Kamal, R. N.  
2017; 42 (11): 875–82
  - **Quality Measures in Orthopaedic Sports Medicine: A Systematic Review** *ARTHROSCOPY-THE JOURNAL OF ARTHROSCOPIC AND RELATED SURGERY*  
Abrams, G. D., Greenberg, D. R., Dragoo, J. L., Safran, M. R., Kamal, R. N.  
2017; 33 (10): 1896–1910
  - **Volar Capsular Release After Distal Radius Fractures.** *The Journal of hand surgery*  
Kamal, R. N., Ruch, D. S.  
2017
  - **Cost Minimization Analysis of Ganglion Cyst Excision.** *The Journal of hand surgery*  
Pang, E. Q., Zhang, S., Harris, A. H., Kamal, R. N.  
2017; 42 (9)
  - **PERIOPERATIVE SMOKING CESSATION AND CLINICAL CARE PATHWAY FOR ORTHOPAEDIC SURGERY** *JBJS REVIEWS*  
Truntzer, J., Comer, G., Kendra, M., Johnson, J., Behal, R., Kamal, R. N.  
2017; 5 (8): e11
  - **Evidence-Based Medicine: Surgical Management of Flexor Tendon Lacerations** *PLASTIC AND RECONSTRUCTIVE SURGERY*  
Kamal, R. N., Yao, J.  
2017; 140 (1): 130E–139E
  - **Cost-minimization Analysis of the Management of Acute Achilles Tendon Rupture.** *journal of the American Academy of Orthopaedic Surgeons*  
Truntzer, J. N., Triana, B., Harris, A. H., Baker, L., Chou, L., Kamal, R. N.  
2017; 25 (6): 449-457
  - **Quality Measures in Breast Reconstruction: A Systematic Review.** *Annals of plastic surgery*  
Nazerali, R. N., Finnegan, M. A., Divi, V., Lee, G. K., Kamal, R. N.  
2017
  - **Association of Lunate Morphology With Carpal Instability in Scapholunate Ligament Injury.** *Hand (New York, N.Y.)*  
Pang, E. Q., Douglass, N., Kamal, R. N.  
2017: 1558944717709073-?

- **Impact of Health Literacy on Time Spent Seeking Hand Care.** *Hand (New York, N.Y.)*  
Alokozai, A., Bernstein, D. N., Sheikholeslami, N., Uhler, L., Ring, D., Kamal, R. N.  
2017; 1558944717708027-?
- **Simple Assessment of Global Bone Density and Osteoporosis Screening Using Standard Radiographs of the Hand.** *journal of hand surgery*  
Schreiber, J. J., Kamal, R. N., Yao, J.  
2017
- **High Survivorship and Few Complications With Cementless Total Wrist Arthroplasty at a Mean Followup of 9 Years.** *Clinical orthopaedics and related research*  
Gil, J. A., Kamal, R. N., Cone, E., Weiss, A. C.  
2017; 475 (12): 3082-87
- **Cost-Minimization Analysis of Open and Endoscopic Carpal Tunnel Release.** *journal of bone and joint surgery. American volume*  
Zhang, S., Vora, M., Harris, A. H., Baker, L., Curtin, C., Kamal, R. N.  
2016; 98 (23): 1970-1977
- **Quality Measures That Address the Upper Limb** *JOURNAL OF HAND SURGERY-AMERICAN VOLUME*  
Kamal, R. N., Ring, D., Akelman, E., Ruch, D. S., Richard, M. J., Ladd, A., Got, C., Blazar, P., Yao, J., Kakar, S.  
2016; 41 (11): 1041-1048
- **Carpal Kinematics and Kinetics** *JOURNAL OF HAND SURGERY-AMERICAN VOLUME*  
Kamal, R. N., Starr, A., Akelman, E.  
2016; 41 (10): 1011-1018
- **Quality and Value in an Evolving Health Care Landscape.** *journal of hand surgery*  
Kamal, R. N.  
2016; 41 (7): 794-799
- **High Disparity Between Orthopedic Resident Interest and Participation in International Health Electives** *ORTHOPEDICS*  
Zhang, S., Shultz, P., Daniels, A., Akelman, E., Kamal, R. N.  
2016; 39 (4): E680-E686
- **Quality Measurement: A Primer for Hand Surgeons** *JOURNAL OF HAND SURGERY-AMERICAN VOLUME*  
Kamal, R. N., Kakar, S., Ruch, D., Richard, M. J., Akelman, E., Got, C., Blazar, P., Ladd, A., Yao, J., Ring, D.  
2016; 41 (5): 645-651
- **Orthopaedic Surgeon Burnout: Diagnosis, Treatment, and Prevention** *JOURNAL OF THE AMERICAN ACADEMY OF ORTHOPAEDIC SURGEONS*  
Daniels, A. H., Depasse, J. M., Kamal, R. N.  
2016; 24 (4): 213-219
- **Quality Measures in Upper Limb Surgery.** *journal of bone and joint surgery. American volume*  
Kamal, R. N., Ring, D., Akelman, E., Yao, J., Ruch, D. S., Richard, M., Ladd, A., Got, C., Blazar, P., Kakar, S.  
2016; 98 (6): 505-510
- **The Impact of the New Carpal Tunnel Clinical Practice Guidelines.** *The Journal of hand surgery*  
Kamal, R. N.  
2016; 41 (9): e329
- **Subject-Specific Carpal Ligament Elongation in Extreme Positions, Grip, and the Dart Thrower's Motion** *JOURNAL OF BIOMECHANICAL ENGINEERING-TRANSACTIONS OF THE ASME*  
Rainbow, M. J., Kamal, R. N., Moore, D. C., Akelman, E., Wolfe, S. W., Crisco, J. J.  
2015; 137 (11)
- **Management of Intercarpal Ligament Injuries Associated with Distal Radius Fractures.** *Hand clinics*  
Desai, M. J., Kamal, R. N., Richard, M. J.  
2015; 31 (3): 409-416
- **Management of Intercarpal Ligament Injuries Associated with Distal Radius Fractures.** *Hand clinics*  
Desai, M. J., Kamal, R. N., Richard, M. J.

2015; 31 (3): 409-416

- **Ulnar shortening osteotomy for distal radius malunion.** *Journal of wrist surgery*  
Kamal, R. N., Leversedge, F. J.  
2014; 3 (3): 181-186
- **Salvage of Distal Radius Nonunion With a Dorsal Spanning Distraction Plate** *JOURNAL OF HAND SURGERY-AMERICAN VOLUME*  
Mithani, S. K., Srinivasan, R. C., Kamal, R., Richard, M. J., Leversedge, F. J., Ruch, D. S.  
2014; 39 (5): 981-984
- **Post-traumatic Raynaud's phenomenon following volar plate injury.** *Rhode Island medical journal (2013)*  
Chodakiewitz, Y. G., Daniels, A. H., Kamal, R. N., Weiss, A. C.  
2014; 97 (4): 24-26
- **Quality of internet health information on thumb carpometacarpal joint arthritis.** *Rhode Island medical journal (2013)*  
Kamal, R. N., Paci, G. M., Daniels, A. H., Gosselin, M., Rainbow, M. J., Weiss, A. C.  
2014; 97 (4): 31-35
- **Extensive Subcutaneous Emphysema Resembling Necrotizing Fasciitis** *ORTHOPEDICS*  
Kamal, R. N., Paci, G. M., Born, C. T.  
2013; 36 (5): 671-675
- **Nerve compression syndromes of the upper extremity: diagnosis, treatment, and rehabilitation.** *Rhode Island medical journal (2013)*  
Mansuripur, P. K., Deren, M. E., Kamal, R.  
2013; 96 (5): 37-39
- **Total Wrist Arthroplasty** *JOURNAL OF THE AMERICAN ACADEMY OF ORTHOPAEDIC SURGEONS*  
Weiss, A. C., Kamal, R. N., Shultz, P.  
2013; 21 (3): 140-148
- **In vivo kinematics of the scaphoid, lunate, capitate, and third metacarpal in extreme wrist flexion and extension.** *journal of hand surgery*  
Rainbow, M. J., Kamal, R. N., Leventhal, E., Akelman, E., Moore, D. C., Wolfe, S. W., Crisco, J. J.  
2013; 38 (2): 278-288
- **The effect of the dorsal intercarpal ligament on lunate extension after distal scaphoid excision.** *journal of hand surgery*  
Kamal, R. N., Chehata, A., Rainbow, M. J., Llusá, M., Garcia-Elias, M.  
2012; 37 (11): 2240-2245
- **Elongation of the dorsal carpal ligaments: a computational study of in vivo carpal kinematics.** *journal of hand surgery*  
Rainbow, M. J., Crisco, J. J., Moore, D. C., Kamal, R. N., Laidlaw, D. H., Akelman, E., Wolfe, S. W.  
2012; 37 (7): 1393-1399
- **Updates on Disaster Preparedness and Progress in Disaster Relief** *JOURNAL OF THE AMERICAN ACADEMY OF ORTHOPAEDIC SURGEONS*  
Pollak, A. N., Born, C. T., Kamal, R. N., Adashi, E. Y.  
2012; 20: S54-S58
- **In Vivo Triquetrum-Hamate Kinematics through a Simulated Hammering Wrist Motion** *J Bone Joint Surg Am*  
Kamal, R., et al  
2012
- **The Use of Near-Infrared Spectrometry for the Diagnosis of Lower-extremity Compartment Syndrome** *ORTHOPEDICS*  
Bariteau, J. T., Beutel, B. G., Kamal, R., Hayda, R., Born, C.  
2011; 34 (3)
- **Total Wrist Athroplasty in the Non-Rheumatoid Patient** *J Hand Surg Am.*  
Kamal, R.  
2011
- **Arthroscopic Treatment of Radiocarpal Dislocation: A Case Report** *Journal of Bone and Joint Surgery*  
Kamal, R., et al



2011

- **Effects on cytokines and histology by treatment with the ace inhibitor captopril and the antioxidant retinoic acid in the monocrotaline model of experimentally induced lung fibrosis** *CURRENT PHARMACEUTICAL DESIGN*

Baybutt, R. C., Herndon, B. L., Umbehr, J., Mein, J., Xue, Y., Reppert, S., Van Dillen, C., Kamal, R., Halder, A., Moteni, A.  
2007; 13 (13): 1327-1333

- **Retinoic Acid-High Diet controls M1/M2 Activation Phenotypes in Macrophages and Protects from Monocrotaline-Induced Pulmonary Fibrosis** *Nutrition Research*

Kamal, R., et al  
2004

## PRESENTATIONS

- Retinoic Acid: A Novel Therapy for Pulmonary Fibrosis - American Association of Immunology (AAI) National Convention, 2003.
- Retinoic Acid: A Novel Therapy for Pulmonary Fibrosis - American Medical Association (AMA) Annual Meeting, 2003.
- Screening for Polymorphisms in Surfactant Protein C in a Cohort of Patients with Idiopathic Pulmonary Fibrosis - National Institutes of Health Poster Day, 2004.
- Simulated Contact Forces in the Triquetrum-Hamate Joint Driven with Subject Specific In-Vivo Kinematics - American Society of Biomechanics Annual Meeting, 2010.
- In Vivo Triquetrum-Hamate Kinematics During a Hammering Motion. - Orthopaedic Research Society Annual Meeting, March 2010.
- Suture Suspension Thumb CMC Arthroplasty - . 11th Triennial Congress of IFSSH, Oct 2010
- Intraarticular versus Subtendinous Corticosteroid Injection for the Treatment of Lateral Epicondylitis: A Randomized Controlled Trial. - AOA Annual Meeting, June 2011.
- Intraarticular versus Subtendinous Corticosteroid Injection for the Treatment of Lateral Epicondylitis: A Randomized Controlled Trial. - AOSSM Annual Meeting, July 2011.
- Arthroscopic Reduction and Percutaneous Pinning of a Radiocarpal Dislocation: A Case Report - AANA Annual Meeting, April 2011
- DIC Ligament is a Secondary Stabilizer to the Lunocapitate Joint and Prevents Increased CIND-DISI After Distal Scaphoid Excision - ASSH Annual Meeting, Sept 2011
- Uncemented Total Wrist Arthroplasty: Long Term Results. - ASSH Annual Meeting, Sept 2011
- Contributions of Cartilage and Ligaments to the Scaphoid Flexion Moment during the Dart Thrower's Motion. - ORS Annual Meeting, Feb 2012
- Proximal Trapezoidectomy after Trapeziectomy Leads to Carpal Instability: A Preliminary Study - AAOS Annual Meeting, Feb 2012
- Arthroscopic Capitellum Fixation: Midterm Follow Up and Surgical Technique. - ASSH/AHSS Combined Meeting, March 2012
- Midterm Follow Up After Distal Scaphoid Excision for STT Arthritis and SNAC Wrists. - ASSH/AHSS Combined Meeting, March 2012
- Quality of Internet Health Information on Thumb Carpometacarpal Joint Arthritis. - AAOS Annual Meeting, March 2013