

# Curriculum Vitae

## Richard W. Kang, MS, MD

### Contact Information:

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### Work Experience

**The University of Chicago Medicine**, Chicago, IL September 2013 – present  
Attending Surgeon, Department of Orthopaedic Surgery  
Director of Hip Preservation  
Hip Arthroscopy and Sports Medicine

### Education

**Northwestern University**, Evanston, IL June 2000  
B.S., Chemical Engineering

**Rush University Graduate College**, Chicago, IL June 2006  
M.S., Anatomy and Cell Biology

**Rush University Medical College**, Chicago, IL June 2007  
M.D., Doctor of Medicine

### Post Graduate Education and Training

**Rush University Medical Center**, Chicago, IL June 2012  
Orthopaedic Surgery Residency

**Hospital for Special Surgery**, New York, NY July 2013  
Orthopaedic Surgery Sports Medicine and Shoulder Fellowship

### Certifications

**Advanced Cardiovascular Life Support Program** June 2009  
**United States Medical Licensing Examination – Steps 1, 2, & 3** 2004, 2007, and 2008  
**American Board of Orthopaedic Surgery – Board Certified** July 2015

### Medical Licensure

**State of Illinois Medical License, Active**  
**State of New York Medical License, Active**

### Professional Society Memberships

**Omega Chi Epsilon Chemical Engineering Honor Society** 2000  
**Alpha Omega Alpha Honor Medical Society** 2005  
**American Academy of Orthopaedic Surgeons** 2008  
**Mid-America Orthopaedic Association** 2011  
**The American Orthopaedic Society for Sports Medicine** 2012  
**Arthroscopy Association of North America** 2013

### Clinical Course Faculty Experience

- **Contemporary Treatment of the Young Adult Hip: Latest Research & Surgical Techniques**, AOSSM Clinical Lab Faculty for April 10-12, 2015
- **AANA Resident/Fellow Course Fundamentals in Arthroscopy**, Clinical Lab Faculty for May 15-17, 2015
- **21<sup>st</sup> Annual Primary Care Orthopaedics**, Course Co-director for June 15-17, 2015
- **AAOS Fundamentals of Knee and Shoulder Arthroscopy for Orthopaedic Residents**, Clinical Lab Faculty for September 18-20, 2015
- **AANA Resident/Fellow Course Fundamentals in Arthroscopy**, Clinical Lab Faculty for February 4-7, 2016

### Team Coverage Experience

- 2009 Lincoln Park High School football
- 2009 Chicago Hope Academy football
- 2010 Nazareth Academy High School football
- 2010 DePaul University soccer
- 2012 Port Richmond High School football
- 2012-2013 New York Mets baseball
- 2014-present Kennedy King College soccer and basketball
- 2015-present Hillcrest High School
- 2015-present Bremen High School
- 2015-present Rich East High School

### Editorial Board Experience

- 2013-present: Reviewer, American Journal of Sports Medicine
- 2014-present: Reviewer, Journal of Shoulder and Elbow Surgery
- 2015-present: Reviewer, Journal of Bone and Joint Surgery
- 2016-present: Reviewer, Orthopaedic Journal of Sports Medicine

### Peer-Reviewed Publications

1. Alford JW, Lewis P, **Kang RW**, Cole BJ. Rapid Progression of Chondral Disease in the Lateral Compartment of the Knee Following Meniscectomy. *Arthroscopy* 2005 Dec; 21(12):1505-1509.
2. Wimmer MA, **Kang RW**, Pacione C, Williams JM, Chubinskaya S, Cole BJ. Mechanical and cellular response of impaction cycles on osteochondral grafts. *European Cells & Materials Journal* 2006; 12(suppl. 1):20.
3. Lee SJ, Aadalen KJ, Malaviya P, Lorenz EP, Hayden JK, Farr J, **Kang RW**, Cole BJ. Tibiofemoral Contact Mechanics Following Serial Meniscectomies in the Human Cadaveric Knee. *American Journal of Sports Medicine* 2006 Aug; 34(8):1334-1344.
4. Gomoll AH, **Kang RW**, Williams JM, Bach BR, Cole BJ. Chondrolysis after Continuous Intra-Articular Bupivacaine Infusion: An Experimental Model Investigating Chondrotoxicity in the Rabbit Shoulder. *Arthroscopy* 2006 Aug; 22(8):813-819.
5. McCulloch PC, **Kang RW**, Sobhy MH, Hayden JK, Cole BJ. Prospective Evaluation of Prolonged Fresh Osteochondral Allograft Transplantation of the Femoral Condyle:

Minimum 2 Year Follow-Up. *American Journal of Sports Medicine* 2007 Mar; 35(3):411-420.

6. **Kang RW**, Lewis PB, Kramer A, Hayden JK, Cole BJ. Prospective Randomized Single-Blinded Controlled Clinical Trial of Percutaneous Neuromodulation Pain Therapy Device versus Sham for the Osteoarthritic Knee: a pilot study. *Orthopedics* 2007 Jun; 30(6):439-445.
7. Cole BJ, McCarty LP, **Kang RW**, Alford W, Lewis PB, Hayden JK. Arthroscopic Rotator Cuff Repair: Prospective Functional Outcome and Repair Integrity at Minimum 2-Year Follow-up. *Journal of Shoulder and Elbow Surgery* 2007 Sep-Oct; 16(5):579-585.
8. Walczak BE, McCulloch PM, **Kang RW**, Zelazny A, Cole BJ. Abnormal Findings on Knee MRI in Asymptomatic NBA Basketball Players. *Journal of Knee Surgery* 2008;21(1):27-33.
9. **Kang RW**, Gomoll AH, Nho SJ, Pylawka TK, Cole BJ. Outcomes after Mechanical Debridement and Radiofrequency Ablation in the Treatment of Chondral Defects – A Prospective Randomized Study. *Journal of Knee Surgery* 2008 Apr;21(2):116-121.
10. Gomoll AH, Yanke AB, **Kang RW**, Chubinskaya S, Williams JM, Bach BR, Cole BJ. Long-Term Effects of Bupivacaine on Cartilage in a Rabbit Shoulder Model. *American Journal of Sports Medicine* 2008;37(1):72-77.
11. Singaraju VM, **Kang RW**, Yanke AB, McNickle AG, Lewis PB, Wang VM, Williams JM, Chubinskaya S, Romeo AA, Cole BJ. Biceps Tendinitis in Chronic Rotator Cuff Tears: A Histologic Perspective. *Journal of Shoulder and Elbow Surgery* 2008 Nov-Dec;17(6):898-904.
12. Gomoll AH, **Kang RW**, Chen AL, Cole BJ. Triad of Cartilage Restoration for Unicompartamental Arthritis Treatment in Young Patients: Meniscus Allograft Transplantation, Cartilage Repair, and Osteotomy. *Journal of Knee Surgery* 2009;22(2):137-141.
13. Koyonos L, Yanke AB, McNickle AG, Kirk SS, **Kang RW**, Lewis PB, Cole BJ. A Randomized, Prospective, Double-Blind Study to Investigate the Effectiveness of Adding DepoMedrol to a Local Anesthetic Injection in Postmeniscectomy Patients with Osteoarthritis of the Knee. *American Journal of Sports Medicine* 2009 Jun;37(6):1077-1082.
14. Lewis PB, McCarty LP, Yao JQ, Williams JM, **Kang RW**, Cole BJ. Fixation of Tissue-Engineered Human Neocartilage Constructs with Human Fibrin in a Caprine Model. *Journal of Knee Surgery*, 2009;22(3):196-204.
15. **Kang RW**, Friel NA, Williams JM, Cole BJ, Wimmer MA. Effect of Impaction Sequence on Osteochondral Graft Damage: The Role of Repeated and Varying Loads. *American Journal of Sports Medicine* 2010;38(1):105-113.
16. Balash P, **Kang RW**, Schwenke T, Cole BJ, Wimmer MA. Osteochondral Tissue Cell Viability is affected by Total Impulse during Impaction Grafting. *Cartilage*; 2010 Oct;1(4):270-5.
17. **Kang RW**, Strauss EJ, Barker J, Bach BR. The Effect of Donor Age on Bone Mineral Density in Irradiated Bone-Patellar Tendon-Bone Allografts of the ACL. *American Journal of Sports Medicine* 2011; 39(2):380-3.

18. **Kang RW**, McGill KC, Lin J, Gitelis S. Chronic Ankle Pain and Swelling in a 25-year-old Woman: An Unusual Case. *Clinical Orthopaedics and Related Research*. 2011;469(5): 1517-21.
19. Hsu AR, Bhatia S, **Kang RW**, Arvanitis L, Nicholson GP, Virkus WW. Extranodal Rosai-Dorfman Disease Presenting as an Isolated Glenoid Lesion in a High School Athlete. *Journal of Shoulder and Elbow Surgery*. 2012 Jan;21(1):e6-e11.
20. Strauss EJ, **Kang RW**, Bush-Joseph C, Bach BR. The diagnosis and management of spontaneous and post-arthroscopy osteonecrosis of the knee. *Bulletin of the NYU Hospital for Joint Diseases*. 2011;69(4):320-30.
21. **Kang RW**, Yanke AB, Espinoza Orias A, Inoue N, Nho SJ. Novel 3-D Quantification and Classification of Cam Lesions in Patients With Femoroacetabular Impingement. *Clinical Orthopaedics and Related Research*. 2013 Feb;471(2):358-62.
22. Yanke AB, Bell R, Lee AS, **Kang RW**, Mather RC, Shewman EF, Wang VM, Bach BR. The Biomechanical Effects of 1.0-1.2 MRad of Gamma Irradiation on Human Bone-Patellar Tendon-Bone Allografts. *American Journal of Sports Medicine*. 2013 Apr;41(4):835-40.
23. Van Thiel GS, Harris JD, **Kang RW**, Chahal J, Della Valle CJ, Bush-Joseph C, Nho SJ. Age-Related Differences in Radiographic Parameters for Femoroacetabular Impingement in Hip Arthroplasty Patients. *Arthroscopy: The Journal of Arthroscopic and Related Surgery*. 2013 Jul;29(7):1182-7.
24. **Kang RW**, Mahony GT, Cordasco FA. Pectoralis Major Repair With Cortical Button Technique. *Arthroscopy Techniques*. 2014: e1-5.
25. Moran CJ, Fabricant PD, **Kang RW**, Cordasco FA. Arthroscopic Double Row Anterior Stabilization and Bankart Repair for the "High-Risk" Athlete. *Arthroscopy Techniques*. 2014: e1-7.
26. Wang RN, Green J, Wang Z, Deng Y, Qiao M, Peabody M, Zhang Q, Ye J, Yan Z, Denduluri S, Idowu O, Li M, Shen C, Hu A, Haydon RC, **Kang R**, Mok J, Lee MJ, Luu HL, Shi LL. Bone Morphogenetic Protein (BMP) signaling in development and human diseases. *Genes Dis*. 2014 Sep;1(1):87-105.
27. Jo A, Denduluri S, Zhang B, Wang Z, Yin L, Yan Z, **Kang R**, Shi LL, Mok J, Lee MJ, Haydon RC. The versatile functions of Sox9 in development, stem cells, and human diseases. *Genes Dis*. 2014 Dec;1(2):149-161.
28. Lamplot JD, Angeline M, Angeles J, Beederman M, Wagner E, Rastegar F, Scott B, Skjong C, Mass D, Leland M, Haydon RC, Luu HH, He TC, **Kang RW**, Ho S, Shi LL. Distinct Effects of Platelet-Rich Plasma and BMP13 on Rotator Cuff Tendon Injury Healing in a Rat Model. *American Journal of Sports Medicine*. 2014 Dec;42(12):2877-87.
29. Denduluri SK, Scott B, Lamplot JD, Yin L, Yan Z, Wang Z, Ye J, Wang J, Wei O, Mohammed MK, Haydon RC, Kang RW, He TC, Athiviraham A, Ho SH, and Shi LL. Immortalized Mouse Achilles Tenocytes Demonstrate Long-Term Proliferative Capacity while Retaining Tenogenic Properties. *Tissue Engineering, Part C: Methods*. 2016 [in press]

### **Non-Peer Reviewed Publications**

1. Lattermann C, **Kang RW**, Cole BJ. What's New in the Treatment of Focal Chondral Defects of the Knee? *Orthopedics* 2006 Oct;29(10):898-903.

2. Lewis PB, McCarty LP, **Kang RW**, Cole BJ. Basic Science & Treatment Options for Articular Cartilage Injuries. *Journal of Orthopaedic & Sports Physical Therapy* 2006 Oct;36(10):717-727.
3. **Kang RW**, Lattermann C, Cole BJ. Allograft Meniscus Transplantation: Background, Indications, Techniques, and Outcomes. *Journal of Knee Surgery* 2006 Jul;19(3):220-230.
4. Gomoll AH, McCulloch PC, **Kang RW**, Cole BJ. Treatment of Chondral Defects in the Shoulder. *Operative Techniques in Orthopaedics* 2006 Oct;16(4):232-243.
5. McCulloch PC, **Kang RW**, Cole BJ. Osteochondral Allografts for Large Defects in the Knee. *Techniques in Knee Surgery* 2006;5(3):165-173.
6. **Kang RW**, Frank RM, Nho SJ, Ghodadra NS, Verma NN, Romeo AA, Provencher MT. Complications Associated with Anterior Shoulder Instability Repair. *Arthroscopy* 2009 Aug;25(8):909-920.
7. **Kang RW**, McGill KC, Lin J, Gitelis S. Extranodal Rosai-Dorfman Disease with Isolated Osseous Involvement: An Unusual Case. *Rush Orthopedics Journal*. 2011; 27-31.
8. Lee AS, **Kang RW**, Kroin E, Verma NN, Cole BJ. Allograft Meniscus Transplantation. *Sports Medicine and Arthroscopy Review*. 2012;20(2):106-14.
9. **Kang RW**, Van Thiel GS, Chahal J, Della Valle CJ, Bush-Joseph C, Nho SJ. Age-Related Differences in Radiographic Parameters for Femoroacetabular Impingement in Hip Arthroplasty Patients. *Rush Orthopedics Journal*. 2013: 40-44.
10. **Kang RW**, Mahony GT, Harris TC, Dines JS. Posterior Instability Caused by “Batter’s Shoulder”. *Clinics in Sports Medicine*. 2013: 797-802.
11. Fabricant PD, Taylor SA, McCarthy MM, Gausden EB, Moran CJ, **Kang RW**, Cordasco FA. Open and Arthroscopic Shoulder Stabilization. *Journal of Bone and Joint Surgery Reviews*. 2015. Feb 3; 3(2):e4.

### **Books and Book Chapters**

1. Pylawka TK, **Kang RW**, Cole BJ. Articular Cartilage Injuries. In: Schepsis AA, Busconi B, eds. *Sports Medicine*. Philadelphia, PA: Lippincott Williams & Wilkins, 2006; Chapter 30. Pages 418-429.
2. Flik KR, Lewis P, **Kang RW**, Cole BJ. Articular Cartilage. In: Johnson and Mair, eds. *Clinical Sports Medicine*. Churchill Livingstone, Philadelphia, PA, 2006; Chapter 49. Pages 505-514.
3. **Kang RW**. Thesis: Surgical Impaction Damages Osteochondral Grafts - A Controlled Laboratory Study of the Biologic Effects of Repeated and Varying Loads on Osteochondral Grafts [Rush University, 2007. ProQuest - Publication number AAT 1442987]
4. **Kang RW**, Gomoll AH, Cole BJ. Osteochondral Allografting in the Knee. In: Cole BJ and Sekiya JK, eds. *Surgical Techniques of the Shoulder, Elbow, and Knee in Sports Medicine*. Saunders-Elsevier, Philadelphia, PA, 2008, pages 549-558.
5. **Kang RW**, Cole BJ, Romeo AA, Provencher MT. Case Examples. In: Cole BJ and Romeo AA, eds. *Management of the Active Patient with Glenohumeral Arthritis*. An AAOS Monograph. American Academy of Orthopaedic Surgeons, Rosemont, IL, 2010.
6. Gomoll A, **Kang R**, Cole BJ: Osteochondral allografting in the knee. Ch. 68. In: Cole BJ, Sekiya JK, eds. *Surgical Techniques of the Shoulder, Elbow, and Knee in Sports Medicine*, Second Edition. Philadelphia: Elsevier (Saunders), 2013.

7. **Kang RW**, Ma R, Pais DA, Williams RJ III: Trufit®, Chapter 7. In: AA Shetty, Seok-Jung Kim, Norimasa Nakamura, Mats Brittberg. *Techniques in Cartilage Repair Surgery*. Springer European Society of Sports Traumatology Knee Surgery and Arthroscopy, 2013.
8. **Kang RW**, Williams PN, Urch E, Harris TC, Dines, JS. Posterior Instability Caused by “Batter’s Shoulder”. Chapter 25. In: Dodson CC, Dines DM, Dines JS, Walch G, Williams Jr G, eds. *Controversies in Shoulder Instability*. Philadelphia, PA: Lippincott Williams and Wilkins, 2014.
9. **Kang RW**, Park C, Ranawat A. Computed Tomography Scan of the Hip and Pelvis. In: Nho S, Leunig M, Kelly B, Bedi A, Larson C, eds. *Hip Arthroscopy and Hip Joint Preservation Surgery*. New York, NY: Springer New York, 2014.
10. Voos JE, Coleman SH, **Kang RW**, Barnhouse NC. Surgical Technique: Arthroscopic Microfracture of Acetabular Articular Cartilage Lesions. In: Nho S, Leunig M, Kelly B, Bedi A, Larson C, eds. *Hip Arthroscopy and Hip Joint Preservation Surgery*. New York, NY: Springer New York, 2014.

### **Abstracts and/or Proceedings**

1. Cole BJ, **Kang RW**, Lee SJ, Nho SJ, Kalsi RS, Pylawka TK, Hayden JK: The Effect of Monopolar Radiofrequency Energy on the Biomechanical Properties of Chondromalacic Human Cartilage. *Annual Hospital for Special Surgery Alumni Meeting*, New York, NY, November 6-7, 2003.
2. Cole BJ, **Kang RW**, Alford W, McCarty P, Hayden JK, Pylawka TK: Arthroscopic Rotator Cuff Repair: Prospective Evaluation at Minimum 2-Year Follow Up. *American Shoulder and Elbow Surgeons 22<sup>nd</sup> Closed Meeting*, Palm Beach, Florida, November 2005.
3. Cole BJ, Sobhy MH, **Kang RW**, Hayden JK, Koyonos LD, McCulloch PC: Prospective Evaluation of Fresh Osteochondral Allograft Transplantation of the Femoral Condyle: Minimum 2 Year Follow-Up. *6<sup>th</sup> International Cartilage Repair Society Symposium*, San Diego, CA, January 2006.
4. Cole BJ, **Kang RW**, Alford W, McCarty P, Hayden JK, Pylawka TK: Arthroscopic Rotator Cuff Repair: Prospective Evaluation at Minimum 2-Year Follow Up. *2006 AOSSM Specialty Day*, New Orleans, LA, March 11, 2006.
5. Singaraju VM, Lewis PB, **Kang RW**, Williams JM, Cole BJ: Quantitative Analysis of Neuronal Plasticity Correlated with Clinical Pathology of the Biceps Brachii Tendon. *Rush University Forum for Research and Clinical Investigation*, Chicago, IL, April 5-6, 2006.
6. Kramer AT, **Kang RW**, Lewis PB, Cole BJ: Prospective Randomized Single-Blinded Controlled Clinical Trial of Percutaneous Neuromodulation Pain Therapy Device versus Sham for the Osteoarthritic Knee. *Rush University Forum for Research and Clinical Investigation*, Chicago, IL, April 5-6, 2006.
7. Cole BJ, **Kang RW**, Alford W, McCarty P, Hayden JK, Pylawka TK: Arthroscopic Rotator Cuff Repair: Prospective Evaluation at Minimum 2-Year Follow Up. *Rush University Forum for Research and Clinical Investigation*, Chicago, IL, April 5-6, 2006.
8. Lewis PB, Alford JW, **Kang RW**, Cole BJ: Rapid Chondral Degeneration of the Lateral Compartment after Meniscectomy: Case Report and Biomechanical Review. *Rush University Forum for Research and Clinical Investigation*, Chicago, IL, April 5-6, 2006.

9. **Kang RW**, Wimmer MA, Kressner T, Pacione CA, Oegema TR, Williams JM, Cole BJ: Biologic Effects of Multiple Impaction Cycles on Osteochondral Grafts. *Rush University Forum for Research and Clinical Investigation*, Chicago, IL, April 5-6, 2006.
10. Cole BJ, Sobhy MH, **Kang RW**, Hayden JK, Koyonos LD, McCulloch PC: Prospective Evaluation of Fresh Osteochondral Allograft Transplantation of the Femoral Condyle: Minimum 2 Year Follow-Up. *7th European Cells and Materials Conference*, Davos, Switzerland, June 26-29, 2006.
11. **Kang RW**, Gomoll AH, Williams JW, Bach BR, Cole BJ: Chondrolysis after Continuous Intra-Articular Bupivacaine Infusion: An experimental model investigating chondrotoxicity in the rabbit shoulder. *7th European Cells and Materials Conference*, Davos, Switzerland, June 26-29, 2006.
12. **Kang RW**, Gomoll AH, Williams JW, Bach BR, Cole BJ: Chondrolysis after Continuous Intra-Articular Bupivacaine Infusion: An experimental model investigating chondrotoxicity in the rabbit shoulder. *Herodicus Society Annual Meeting*, Hershey, PA, June 2006.
13. Wimmer MA, **Kang RW**, Pacione C, Williams JM, Chubinskaya S, Cole BJ, Muller S, Gorke UJ: Mechanical and Cellular Response of Impaction Cycles on Osteochondral Grafts. *7th European Cells and Materials Conference: Cartilage and Joint Repair*, Davos, Switzerland, June 26-29, 2006.
14. Walczak B, **Kang RW**, Zelazny A, Tedeschi F, McCulloch P, Cole BJ: Prevalence of Abnormal Findings on Knee MRI in Asymptomatic NBA Basketball Players. *Journal of AOA 50th Annual AOA Research Conference*, JAOA, Vol 106, No 8, 2006.
15. Wakim E, Langhenry M, **Kang RW**, Sheinkop M: Comparison of Navigated versus Non-Navigated Total Knee Replacement. *18th Annual Thesis Day – Rush Department of Orthopedic Surgery*, Chicago, IL, June 30, 2006.
16. **Kang RW**, Gomoll AH, Williams JW, Bach BR, Cole BJ: Chondrolysis after Continuous Intra-Articular Bupivacaine Infusion: An experimental model investigating chondrotoxicity in the rabbit shoulder. *HSS Alumni Association 88th Annual Meeting*, New York, NY, November 9-10, 2006.
17. Friel NA, **Kang RW**, Yanke AB, Schwenke T, Williams JM, Cole BJ, Wimmer MA: Nitric Oxide and Glycosaminoglycan Responses to Impaction Loads During Osteochondral Transplantation. *53rd Annual Meeting of the Orthopaedic Research Society*, San Diego, CA, February 11-14, 2007.
18. Cole JS, Wang VM, Yanke AB, Singaraju V, **Kang RW**, Turner DA, Cole BJ: Efficacy of MRI in Quantifying Physiologic Changes of the Human Supraspinatus Musculo-Tendinous Unit after Chronic Rotator Cuff Tears. *53rd Annual Meeting of the Orthopaedic Research Society*, San Diego, CA, February 11-14, 2007.
19. **Kang RW**, Wimmer MA, Kressner T, Pacione CA, Oegema TR, Williams JM, Cole BJ: Biologic Effects of Multiple Impaction Cycles on Osteochondral Grafts. *53rd Annual Meeting of the Orthopaedic Research Society*, San Diego, CA, February 11-14, 2007.
20. Cole BJ, Sobhy MH, **Kang RW**, Hayden JK, Koyonos LD, McCulloch PC: Prospective Evaluation of Fresh Osteochondral Allograft Transplantation of the Femoral Condyle: Minimum 2 Year Follow-Up. *AOSSM 2007 Specialty Day*, San Diego, CA, February 17, 2007.
21. Cole BJ, Sobhy MH, **Kang RW**, Hayden JK, Koyonos LD, McCulloch PC: Prospective Evaluation of Fresh Osteochondral Allograft Transplantation of the Femoral Condyle:

- Minimum 2 Year Follow-Up. *2007 Annual Meeting of the American Academy of Orthopaedic Surgeons in San Diego, California, February 14 – 18, 2007.*
22. **Kang RW**, Gomoll AH, Williams JW, Bach BR, Cole BJ: Chondrolysis after Continuous Intra-Articular Bupivacaine Infusion: An experimental model investigating chondrotoxicity in the rabbit shoulder. *74th Annual Meeting of the American Academy of Orthopedic Surgeons, San Diego, CA, February 16, 2007.*
  23. Yanke A, Cole BJ, **Kang RW**, Chubinskaya S, Williams JM, Gomoll AH: Long-Term Effects of Continuous Intra-articular Bupivacaine Infusion in the Rabbit Shoulder. *Rush University Forum for Research and Clinical Investigation, Chicago, IL, April 11-12, 2007.*
  24. Cole JS, Wang VM, Yanke AB, Singaraju V, **Kang RW**, Turner DA, Cole BJ: Efficacy of MRI in Quantifying Physiologic Changes of the Human Supraspinatus Musculo-Tendinous Unit after Chronic Rotator Cuff Tears. *Rush University Forum for Research and Clinical Investigation, Chicago, IL, April 11-12, 2007.*
  25. Friel NA, **Kang RW**, Yanke AB, Schwenke T, Williams JM, Cole BJ, Wimmer MA: Nitric Oxide and Glycosaminoglycan Responses to Impaction Loads During Osteochondral Transplantation. *Rush University Forum for Research and Clinical Investigation, Chicago, IL, April 11-12, 2007.*
  26. Balash PR, **Kang RW**, Yanke AB, Schwenke T, Williams JM, Cole BJ, Wimmer MA: Osteochondral Tissue Cell Viability is Affected by Impulse During Transplantation. *Rush University Forum for Research and Clinical Investigation, Chicago, IL, April 11-12, 2007.*
  27. McNickle AG, Wang VM, Yanke AB, **Kang RW**, Cole BJ, Williams JM: Performance of a Sterile Meniscal Allograft in Sheep. *Rush University Forum for Research and Clinical Investigation, Chicago, IL, April 11-12, 2007.*
  28. Cole JS, Wang VM, Yanke AB, Singaraju V, **Kang RW**, Turner DA, Cole BJ: Efficacy of MRI in Quantifying Physiologic Changes of the Human Supraspinatus Musculo-Tendinous Unit after Chronic Rotator Cuff Tears. *Arthroscopy Association of North American 2007 Annual Meeting, San Francisco, CA, April 26-29, 2007.*
  29. Yanke A, Cole BJ, **Kang RW**, Chubinskaya S, Williams JM, Gomoll AH: Long-Term Effects of Continuous Intra-articular Bupivacaine Infusion in the Rabbit Shoulder. *National Student Research Forum, Galveston, TX, April 26-27, 2007.*
  30. Cole JS, Wang VM, Yanke AB, Singaraju V, **Kang RW**, Turner DA, Cole BJ: Efficacy of MRI in Quantifying Physiologic Changes of the Human Supraspinatus Musculo-Tendinous Unit after Chronic Rotator Cuff Tears. *Herodicus Society, Florence, Italy, May 24-26, 2007.*
  31. Walczak B, **Kang RW**, Zelazny A, Tedeschi F, McCulloch P, Cole BJ: Prevalence of Abnormal Findings on Knee MRI in Asymptomatic NBA Basketball Players. *6<sup>th</sup> Biennial ISAKOS Congress, Florence, Italy, May 27-31, 2007.*
  32. Cole BJ, **Kang RW**, Alford W, McCarty P, Hayden JK, Pylawka TK: Arthroscopic Rotator Cuff Repair: Prospective Evaluation at Minimum 2-Year Follow Up. *6<sup>th</sup> Biennial ISAKOS Congress, Florence, Italy, May 27-31, 2007.*
  33. Cole BJ, Sobhy MH, **Kang RW**, Hayden JK, Koyonos LD, McCulloch PC: Prospective Evaluation of Fresh Osteochondral Allograft Transplantation of the Femoral Condyle: Minimum 2 Year Follow-Up. *6<sup>th</sup> Biennial ISAKOS Congress, Florence, Italy, May 27-31, 2007.*



34. Singaraju VM, Lewis PB, **Kang RW**, Williams JM, Cole BJ: Quantitative Analysis of Neuronal Plasticity Correlated with Clinical Pathology of the Biceps Brachii Tendon. *6<sup>th</sup> Biennial ISAKOS Congress*, Florence, Italy, May 27-31, 2007.
35. **Kang RW**, Wimmer MA, Kressner T, Pacione CA, Oegema TR, Williams JM, Cole BJ: Biologic Effects of Multiple Impaction Cycles on Osteochondral Grafts. *6<sup>th</sup> Biennial ISAKOS Congress*, Florence, Italy, May 27-31, 2007.
36. **Kang RW**, Gomoll AH, Williams JW, Bach BR, Cole BJ: Chondrolysis after Continuous Intra-Articular Bupivacaine Infusion: An experimental model investigating chondrotoxicity in the rabbit shoulder. *6<sup>th</sup> Biennial ISAKOS Congress*, Florence, Italy, May 27-31, 2007.
37. Yanke A, Cole BJ, **Kang RW**, Chubinskaya S, Williams JM, Gomoll AH: Long-Term Effects of Continuous Intra-articular Bupivacaine Infusion in the Rabbit Shoulder. *AOSSM 2007 Annual Meeting*, Calgary, Canada, July 12 - 15, 2007.
38. Balash PR, **Kang RW**, Yanke AB, Schwenke T, Williams JM, Cole BJ, Wimmer MA: Osteochondral Tissue Cell Viability is Affected by Impulse During Transplantation: *AOSSM 2007 Annual Meeting*, Calgary, Canada, July 12 - 15, 2007.
39. Yanke A, Cole BJ, **Kang RW**, Chubinskaya S, Williams JM, Gomoll AH: Long-Term Effects of Continuous Intra-articular Bupivacaine Infusion in the Rabbit Shoulder. *HSS Alumni Association 89th Annual Meeting*, New York, NY, November 15-16, 2007.
40. Koyonos L, Yanke A, **Kang RW**, Spencer K, Lewis P, Cole BJ: Randomized, Prospective, Double-blind Study Investigating the Effectiveness of DepoMedrol Compared to Saline Injections in Post-Meniscectomy Patients with Osteoarthritis of the Knee. *Rush University Forum for Research and Clinical Investigation Sigma Xi Poster Session*, Chicago, IL, April 23-24, 2008.
41. McNickle AG, Wang VM, Yanke AB, **Kang RW**, Cole BJ, Williams JM: Performance of a Sterile Meniscal Allograft in an Ovine Model. *National Student Research Forum*, Galveston, TX April 25-26, 2008.
42. **Kang RW**, Bach B: ACL Reconstruction in a Pediatric Patient. *Orthopedic Surgery Department Grand Rounds*, Rush University Medical Center, Chicago, IL, September 17, 2008.
43. **Kang RW**, Sporer S: Two Incision Hip Arthroplasty Leading to Aseptic Loosening. *Orthopedic Surgery Department Grand Rounds*, Rush University Medical Center, Chicago, IL, January 21, 2009.
44. Koyonos L, Yanke A, **Kang RW**, Spencer K, Lewis P, Cole BJ: Randomized, Prospective, Double-blind Study Investigating the Effectiveness of DepoMedrol Compared to Saline Injections in Post-Meniscectomy Patients with Osteoarthritis of the Knee. *American Academy of Orthopaedic Surgeons Annual Meeting*, Las Vegas, Nevada, February 25, 2009.
45. **Kang RW**, Romeo A: Compressive Neuropathy of Suprascapular Nerve. *Orthopedic Surgery Department Grand Rounds*, Rush University Medical Center, Chicago, IL, April 8, 2009.
46. Koyonos L, Yanke A, **Kang RW**, Spencer K, Lewis P, Cole BJ: Randomized, Prospective, Double-blind Study Investigating the Effectiveness of DepoMedrol Compared to Saline Injections in Post-Meniscectomy Patients with Osteoarthritis of the Knee. *Orthopaedic Research & Education Foundation Greater Philadelphia Area*

*Resident Research Competition and Symposium*, Thomas Jefferson University, Philadelphia, PA, May 9, 2009.

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51. **Kang RW**, Nicholson G: Charcot Shoulder Secondary to Syringomyelia. *Orthopedic Surgery Department Grand Rounds*, Rush University Medical Center, Chicago, IL, December 1, 2010.
52. **Kang RW**, Salata M, Twigg SL, Nicholson GP: Hypertrophy of the CA ligament in the Young Overhead Athlete as a Cause of Shoulder Pain. *American Academy of Orthopaedic Surgeons Annual Meeting*, San Diego, California, February 15-19, 2011.
53. **Kang RW**, Van Thiel G, Virkus W, Della Valle C, Bush-Joseph C, Nho S: Increased Alpha Angle in Young Hip Arthroplasty Patients. *Mid-America Orthopaedic Association 29<sup>th</sup> Annual Meeting*, Tuscon, Arizona, April 8, 2011.
54. **Kang RW**, Cohen M: Re-rupture of a Distal Biceps Tendon Repair. *Orthopedic Surgery Department Grand Rounds*, Rush University Medical Center, Chicago, IL, June 8, 2011.
55. Yanke A, Stanley R, Kim H, **Kang RW**, Espinosa A, Inoue N, Nho S: Novel 3-D Quantification and Classification of Cam Lesions in Patients with Femoroacetabular Impingement. *International Society for Hip Arthroscopy Annual Scientific Meeting*, Paris, France, October 14-15, 2011.
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58. **Kang RW**, Dines JS: Scaphoid Fractures. *Sports Medicine Core Conference*, Hospital for Special Surgery, New York, NY, August 23, 2012.
59. **Kang RW**, Kelly BT: FAI Induced Instability in the Contact Athlete and Management of Associated Chondral Lesions. *Sports Medicine Core Conference*, Hospital for Special Surgery, New York, NY, October 18, 2012.
60. **Kang RW**, Metzl J: Is Bracing for Spondylolysis Effective Medicine? *Sports Medicine Core Conference*, Hospital for Special Surgery, New York, NY, October 25, 2012.

61. **Kang RW**, Rodeo S: Role of Meniscus Replacement in ACL Surgery. *Sports Medicine Core Conference*, Hospital for Special Surgery, New York, NY, December 20, 2012.
62. **Kang RW**, Callahan L: MRSA in the Athlete. *Sports Medicine Core Conference*, Hospital for Special Surgery, New York, NY, January 31, 2013.
63. **Kang RW**, Craig EV: Reverse Shoulder Arthroplasty After Failed TSR and Hemiarthroplasty. *Sports Medicine Core Conference*, Hospital for Special Surgery, New York, NY, March 28, 2013.
64. **Kang RW**, Chambers KL, Ma R, Merritt A: Clinical Examination of the Athlete's Shoulder. *7th Annual Current Concepts in Sports Medicine Course*, New York, NY, April 20, 2013.
65. **Kang RW**: Workup and Management of Femoroacetabular Impingement, *Physical Therapy Department Educational Conference*, University of Chicago, Chicago, IL, November 7, 2013.
66. **Kang RW**: Workup and Management of Femoroacetabular Impingement, *Orthopaedic Surgery Department Educational Conference*, University of Chicago, Chicago, IL, November 27, 2013.
67. **Kang RW**: Hip Physical Exam and Imaging. *Orthopaedic Surgery Department Educational Conference*, University of Chicago, Chicago, IL, January 17, 2014.
68. **Kang RW**: Spectrum of Sports Medicine. *Athletico Educational Conference*, Matteson, IL, February 11, 2014.
69. **Kang RW**: Articular Cartilage Repair and Regeneration. *Orthopaedic Surgery Department Grand Rounds*, University of Chicago, Chicago, IL, February 19, 2014.
70. **Kang RW**: Joint Preservation. *Current Concepts in Primary Care Sports Medicine*, Chicago, IL, February 27-29, 2014.
71. Fabricant PD, Taylor SA, McCarthy MM, Gausden E, Moran C, **Kang RW**, Cordasco FA: Open and Arthroscopic Anterior Shoulder Stabilization. *American Academy of Orthopaedic Surgeons*, New Orleans, LA, March 11-15, 2014.
72. **Kang RW**, Ho S: Hip Arthroscopy for Non-Arthritic Hip Problems. *20<sup>th</sup> Annual Primary Care Orthopaedics*, Chicago, IL, June 11, 2014.
73. **Kang RW**: Evaluation of Knee Pain. *Current Concepts in Primary Care Sports Medicine*, Chicago, IL, March 5-7, 2015.
74. **Kang RW**: Knee Examination Workshop. *Current Concepts in Primary Care Sports Medicine*, Chicago, IL, March 5-7, 2015.
75. **Kang RW**, LaBella C, Benjamin H: Pros and Cons of Bracing for Athletes. *Current Concepts in Primary Care Sports Medicine*, Chicago, IL, March 5-7, 2015.
76. **Kang RW**: Non-Arthritic Hip Problems. *21<sup>st</sup> Annual Primary Care Orthopaedics*, Chicago, IL, June 15-17, 2015.
77. **Kang RW**: Joint Injection Workshop. *21<sup>st</sup> Annual Primary Care Orthopaedics*, Chicago, IL, June 15-17, 2015.
78. **Kang RW**: Common Adult Sports Knee Injuries. *21<sup>st</sup> Annual Primary Care Orthopaedics*, Chicago, IL, June 15-17, 2015.
79. **Kang RW**: Workup and Management of Femoroacetabular Impingement, *Orthopaedic Surgery Department Educational Conference*, University of Chicago, Chicago, IL, February 1, 2016.
80. **Kang RW**: Meniscus Basic Science, *Orthopaedic Surgery Department Educational Conference*, University of Chicago, Chicago, IL, February 3, 2016.

81. **Kang RW**: Hip Pain in Athletes: A Practical Approach. *Current Concepts in Primary Care Sports Medicine*, Chicago, IL, March 3-5, 2016.
82. **Kang RW**: Hip Examination Workshop. *Current Concepts in Primary Care Sports Medicine*, Chicago, IL, March 3-5, 2016.

### **Published Multimedia**

1. **Kang RW** and Cordasco FA. (October 2012). Pectoralis Major Repair. <http://www.vumedi.com/video/pectoralis-major-repair-cortical-button-technique/>
2. **Kang RW** and Mahony G. (November 2012). Seoul Medical Center (SMC) Arthroscopic Knot. <http://www.vumedi.com/video/seoul-medical-center-smc-arthroscopic-knot/>
3. **Kang RW** and Cordasco FA. (December, 2012). Pectoralis Major Repair. HSS e-University Orthopaedic Surgical Videos. <http://hss.exceedlms.com>
4. **Kang RW**, DiSilvestro K, Mahony G, and Cordasco FA. (January 2013). GraftLink All-Inside ACL Graft Preparation. <http://www.vumedi.com/video/graftlink-all-inside-acl-graft-preparation/>
5. **Kang RW**, DiSilvestro K, Mahony G, and Cordasco FA. (February 2013). GraftLink All-Inside ACL Graft Preparation. <http://hss.exceedlms.com>
6. Fabricant PD, **Kang RW**, Moran CJ, and Cordasco FA. (May 2013). Arthroscopic Double Row Anterior Stabilization and Bankart Repair. <http://www.vumedi.com/video/arthroscopic-double-row-anterior-stabilization-and-bankart-repair/>

### **Grant Support**

- 2003 Rush Medical College Dean's Research Fellowship, *Outcomes of Mechanical Debridement and Radiofrequency Ablation in the Treatment of Chondral Defects* (\$3,000)
- 2004 Zimmer, *Fixation of Tissue-Engineered Human Neocartilage Constructs with Human Fibrin in a Caprine Model* (\$135,000)
- 2004 Pfizer Incorporated, *A Randomized, Prospective, Double-Blind Study to Investigate the Effectiveness of Adding DepoMedrol to a Local Anesthetic Injection in Postmeniscectomy Patients With Osteoarthritis of the Knee* (\$100,000)
- 2005 Biomerix Corporation, *Thermoset Polycarbonate Polyurethane Restore Patch Applied to Rotator Cuff Repair* (\$36,000)
- 2006 DePuy Orthopaedics Incorporated, *Tibiofemoral Contact Mechanics After Serial Medial Meniscectomies in the Human Cadaveric Knee* (partial support)
- 2006 Alpha Omega Alpha Student Research Fellowship, *Chondrolysis after Continuous Intra-articular Bupivacaine Infusion - An Experimental Model Investigating Chondrotoxicity in the Rabbit Shoulder* (\$4,000)

- 2006 Arthroscopy Association of North America Research Grant, *Chondrolysis after Continuous Intra-articular Bupivacaine Infusion - An Experimental Model Investigating Chondrotoxicity in the Rabbit Shoulder* (\$25,000)
- 2006 American Orthopaedic Society for Sports Medicine (AOSSM), Young Investigator Grant, *Chondrotoxicity after Continuous Intra-articular Bupivacaine Infusion – An Experimental Model Investigating Long-term Articular Damage in the Rabbit Shoulder* (\$40,000)
- 2006 Arthrex Corporation, *Effect of Impaction Sequence on Osteochondral Graft Damage* (\$25,000)
- 2007 National Institutes of Health (NIH) grant T32 ARO52272, *Effect of Impaction Sequence on Osteochondral Graft Damage* (partial support)
- 2011 Mid-America Orthopaedic Association Education Grant, *Increased Alpha Angle in Young Hip Arthroplasty Patients* (\$2,500)
- 2011 Orthopaedic Research & Education Foundation – Resident Educational Grant, *Novel 3-D Quantification of the Cam Lesion for Patients with Femoroacetabular Impingement* (\$5,000)

### **Honors and Awards**

- 1997 Alpha Lambda Delta for Outstanding Freshman Student, Northwestern University
- 1999 Golden Key National Honor Society, Northwestern University
- 2000 Omega Chi Epsilon for Outstanding Chemical Engineering Student, Northwestern University
- 2000 Faricy Award for Achievement in the Creative Arts, Northwestern University
- 2000 Cum Laude, Northwestern University
- 2003 Dean's Research Fellowship, Rush Medical College
- 2004 Outstanding Student Research Award – Sigma Xi Poster Session, Rush University Research Forum
- 2005 Howard Hughes Medical Institute-National Institutes of Health Research Scholarship – Finalist
- 2005 Alpha Omega Alpha Honor Medical Society – Junior Year Selection
- 2005 Society of Vascular Surgery Annual Scholarship
- 2006 Alpha Omega Alpha Student Research Fellowship
- 2006 Outstanding Research Poster – Sigma Xi Poster Session, Rush University Forum for Research and Clinical Investigation
- 2011 Mid-America Orthopaedic Association Education Grant
- 2011 Orthopaedic Research & Education Foundation – Resident Education Grant

### **Consulting Relationships**

- Chicago Area Runners Association, 2014-present.