

RYAN CHRISTOPHER KOONCE, M.D.

Assistant Professor

University of Colorado School of Medicine

12631 E 17th Avenue, Mailstop B202, Aurora, CO 80045

EDUCATION AND TRAINING

1992 – 1996	University of Colorado at Boulder Bachelor of Science – Civil Engineering	Boulder, CO
1998 – 2000	University of Colorado at Denver Post-baccalaureate Premedical Coursework	Denver, CO
2001 – 2005	University of Colorado School of Medicine Doctor of Medicine	Denver, CO
2005 – 2010	University of Colorado Orthopaedic Surgery Residency Program	Denver, CO
2010 - 2011	San Diego Arthroscopy and Sports Medicine Fellowship	San Diego, CA
2013 – 2014	Anderson Orthopaedic Research Institute Fellowship Adult Hip and Knee Reconstruction	Alexandria, VA

ACADEMIC APPOINTMENT

2019 – Present	University of Colorado School of Medicine Department of Orthopaedic Surgery Adult Hip and Knee Reconstruction Assistant Professor	Aurora, CO Highlands Ranch, CO
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EMPLOYMENT HISTORY

2011 – 2013	Skagit Regional Health General Orthopaedic Surgery with subspecialty in sports medicine	Mount Vernon, WA
2014 – 2019	Colorado Permanente Medical Group / Kaiser Permanente CO Department of Orthopaedic Surgery Adult Hip and Knee Reconstruction	Lone Tree, CO
2019 – Present	OrthoSkool Co-Founder and Chief Medical Officer A digital patient education company www.orthoskool.com	
2019 – Present	University of Colorado School of Medicine Department of Orthopaedic Surgery Adult Hip and Knee Reconstruction Assistant Professor	Aurora, CO Highlands Ranch, CO

AWARDS

November 2004	William Winter Award for Outstanding Medical Student in Orthopaedic Surgery
August 2010	Western Orthopaedic Association's Sanford and Darlene Anzel Award
October 2018	The Permanente Award – Kaiser Permanente's Highest Honor for Physicians

February 2022 Clinical Quality and Patient Safety Award – University of Colorado Hospital

PROFESSIONAL MEMBERSHIPS

2010 – Present Fellow of the American Academy of Orthopaedic Surgeons
 2014 – Present Fellow of the American Association of Hip and Knee Surgeons
 2022 – Present Active Member of the Western Orthopaedic Association

COMMITTEE AND LEADERSHIP APPOINTMENTS

2011 – 2013 Skagit Valley Hospital Electronical Medical Record Committee
 2016 – 2019 Kaiser Permanente Regional Arthroplasty Value Advisor
 2017 – 2018 Kaiser Permanente Venous Thromboembolism Workgroup
 2017 – 2019 Kaiser Permanente Physician Champion for Outpatient Arthroplasty Program
 2019 – Present CU Department of Orthopedic Surgery Quality Committee
 2019 – Present Highlands Ranch Hospital Patient Safety and Quality Committee
 2020 – Present AAOS Hip Program Committee
 2020 – Present CU Department of Orthopedic Surgery Research Database Lead (PatientIQ)

MEDICAL LISCENSURE AND BOARD CERTIFICATION

2005 – present Drug Enforcement Administration License
 2006 – present State of Colorado Medical License
 2013 – 2023 Diplomate of the American Board of Orthopaedic Surgery

CONSULTING AND REVIEW WORK

2014 – Present Orthopaedic Consultant for the State of Colorado Medical Board
 2016 – Present Reviewer for the Journal of Arthroplasty
 2022 – Present Reviewer for Orthopedics (Healio)

INVITED TEACHING LECTURES

May 2013	Primary care resident / medical student lecture	Mount Vernon, WA
December 2015	Orthopedic resident lecture for Adult Reconstruction	Aurora, CO
August 2016	Faculty for University of Colorado Resident Arthroplasty Course	Aurora, CO
August 2017	Faculty for University of Colorado Resident Arthroplasty Course	Aurora, CO
April 2019	University of Colorado Primary Care Conference	Parker, CO
August 2019	Faculty for University of Colorado Resident Arthroplasty Course	Aurora, CO

January 2020	Orthopaedic resident lecture for Adult Reconstruction	Aurora, CO
July 2020	Orthopaedic resident lecture for Adult Reconstruction	Aurora, CO
November 2020	Orthopaedic resident lecture for Adult Reconstruction	Aurora, CO
January 2021	Orthopaedic resident lecture for Adult Reconstruction	Aurora, CO
May 2021	Orthopaedic resident lecture for Adult Reconstruction	Aurora, CO
August 2021	Orthopaedic resident lecture for Adult Reconstruction	Aurora, CO
November 2021	Community Lecture at Wind Crest Senior Living	Highlands Ranch, CO
February 2022	Orthopaedic resident lecture for Adult Reconstruction	Aurora, CO
February 2022	Lecture for Athletic Trainers in the Physician Practice Society 2022 Annual Conference	Virtual

GRANT SUPPORT

March 2008 Principal Investigator for \$21,154 research grant awarded by Smith & Nephew Inc. (completed)

PEER-REVIEWED PUBLICATIONS

1. **Koonce R**, Lu C, Colnot C, Huang S, Miclau T, and Helms J. The Role of MEPE/Dentonin During Skeletal Development and Regeneration. *Journal of Investigative Medicine*. Abstract #510, 51(suppl 1): S180, 2003.
2. Ritvo J, **Koonce R**, Thurstone C, Causey H. Tramadol Dependence: Treatment with Buprenorphine/Naloxone. *American Journal of Addictions*. 2007; 16(1):67-8.
3. **Koonce R**, Price C, Sutton D, Wickes B, Montero P, Morgan S. Lower extremity zygomycosis in a patient with traumatic injuries. *Journal of Bone and Joint Surgery Am*. 2009; 91(3):686-92.
4. Carry P, **Koonce R**, Pan Z, Polousky JD. A Survey of Physician Opinion: Adolescent Clavicle Fracture Treatment Preferences Among POSNA Members. *Journal of Pediatric Orthopaedics*. 2011; 31(1):44-49.
5. Boublik M, Schlegel T, **Koonce R**, Genuario J, Lind C, Hamming D. Patellar tendon ruptures in professional football players. *American Journal of Sports Medicine*. 2011;39(11):2436-40.
6. Vidal A, **Koonce R**, Wolcott M, Gonzales J. Extensive Heterotopic Ossification After Suspensory Cortical Fixation of Acute Distal Biceps Tendon Ruptures. *Arthroscopy*. 2012;28(7):1036-40.
7. **Koonce R**, Baldini T, Morgan S. Are conventional reconstruction plates equivalent to precontoured locking plates for distal humerus fracture fixation? A biomechanics cadaver study. *Clinical Biomechanics*. 2012;27(7):697-701.
8. **Koonce R**, Bravman J. Obesity and osteoarthritis: more than just wear and tear. *Journal of the American Academy of Orthopaedic Surgeons*. 2013;21(3):161-9.
9. Singh A, **Koonce R**, Arora A. Biomechanical evaluation of a unicortical button versus interference screw for subpectoral biceps tenodesis. *Arthroscopy*. 2013;29(4):638-44.
10. Boublik M, Schlegel TF, **Koonce R**, Genuario JW, Kinkartz JD. Quadriceps tendon ruptures in National Football League Players. *American Journal of Sports Medicine*. 2013;41(8):1841-6.

11. Lee C, Davis S, Lane C, **Koonce R**, Hartman A, Ball K, Esch J. Reliability and Accuracy of Digital Templating for the Humeral Component of Total Shoulder Arthroplasty. *Shoulder & Elbow*. 2015; 7(1): 29-35.
12. Zeng C, **Koonce RC**, Tavel HM, Argosino SE, Kiepe DA, Lyons EE, Ford MA, Steiner CA. Pre-Operative Predictors for Discharge to Post-Acute Care Facilities After Total Knee Arthroplasty. *J Arthroplasty*. 2022 Jan;37(1):31-38.e2.

PODIUM AND POSTER PRESENTATIONS

1. **Koonce R**, Lu C, Colnot C, Huang S, Miclau T, Helms J. The Role of MEPE/Dentonin During Skeletal Development and Regeneration. Poster Presentation at 17th Annual Student Research Forum, University of Colorado Health Sciences Center, Denver, CO. October 2002.
2. **Koonce R**, Lu C, Colnot C, Huang S, Miclau T, Helms J. The Role of MEPE/Dentonin During Skeletal Development and Regeneration. Western Student Medical Research Forum, Carmel, CA. February 2003.
3. **Koonce R**, Carry P, Polousky JD. Treatment preferences for adolescent clavicle fractures among pediatric orthopaedists. Denver Children's Hospital Orthopaedic Day, Aurora, CO. June 2009.
4. **Koonce R**, Baldini T, Morgan S. Are conventional reconstruction plates equivalent to precontoured locking plates for distal humerus fracture fixation? Western Orthopaedic Association's 74th Annual Meeting, Monterey, CA. August 2010
5. **Koonce R**. Obesity and Osteoarthritis. Scripps Clinic Grand Rounds, La Jolla, CA. February 2011
6. **Koonce R**. Obesity and Osteoarthritis. University of California San Diego Department of Orthopaedic Surgery Grand Rounds, San Diego, CA. May 2011.
7. Lee C, Davis S, Lane CJ, **Koonce R**, Hartman A, Ball K, Esch J. The Reliability and Accuracy of Digital Templating for Primary Total Shoulder Arthroplasty. San Diego Shoulder Course, San Diego, CA. June 2014.
8. **Koonce R**, Melberg M, Robinson G, Montgomery K, Argosino S, Montrose S. Total Joint Patient Care Pathway. Kaiser Permanente 2017 National Quality Conference. Anaheim, CA. June 2017.

BOOK CHAPTERS

1. **Koonce R**, Schmalzried T. Diagnosis of Pain in Metal on Metal Hips. *The Hip: Preservation, Replacement, and Revision*. Data Trace Publishing Company, 2015.

PERSONAL ACCOMPLISHMENTS

2016 – 2021 USA Triathlon Age Group All-American

2017 ITU Age Group World Championships Participant in Rotterdam, Netherlands (Team Canada)

2018, 2020, and 2021 International Triathlon Union Age Group World Championships Qualifier (Team USA)

2019 USA Triathlon Long Course Aquabike (swim-bike) National Champion

USA Cycling Category 3 Road Racer