

HONORS, AWARDS/PROFESSIONAL SOCIETIES:

Professional Societies:

Arthroscopy Association of North America
American Shoulder and Elbow Surgeons Society
American Society for Surgery of the Hand

Residency Awards:

American Orthopaedic Association Resident Leader 2013
South Carolina Orthopaedic Association Resident Research
Competition 2012, Second Place

Medical School Awards:

Hazel and Tommy Thompson Cardiac Research Scholarship
Graduated in Top Quintile of Class

Undergraduate:

Academic All-Big Ten 2003, 2004 (Football)
Dean's List for Seven Semesters

CURRENT RESEARCH:

2014

University of Pittsburgh Medical Center, Pittsburgh, PA
Collaborators: Christopher Schmidt, M.D.
This is a human cadaver study describing the anatomic, arthroscopic and biomechanical properties of the rotator cable with differences in the stress/strain characteristics across the rotator cuff tendon.

2014

University of Pittsburgh Medical Center, Pittsburgh, PA
Collaborators: Mark Baratz, M.D., Christopher Schmidt, M.D.
Issei Komatsu, M.D., and James Wang, PhD.
This is an animal study using tendon derived stem cell sheets in a rabbit rotator cuff tear repair. Aim of the study is to evaluate the biological, biochemical and biomechanical effects the stem cell sheet on rotator cuff healing.

- 2014 University of Pittsburgh Medical Center, Pittsburgh, PA
Collaborators: Dean Sotereanos, M.D.
Loukia Papatheodorou, M.D.
A retrospective study of examining the range of motion, pain and Functional outcomes of a novel elbow contracture release technique.
- 2014 University of Pittsburgh Medical Center, Pittsburgh, PA
Collaborators: John Fowler, M.D.
A review of the current literature regarding treatment options for scaphoid lunate advanced collapse and scaphoid nonunion advanced collapse of the wrist.
- 2014 University of Pittsburgh Medical Center, Pittsburgh, PA
Collaborators: Chris Schmidt, M.D.
A retrospective study examining the results and indications Of arthroscopy for painful total shoulder and reverse shoulder arthroplasty.

PAST RESEARCH EXPERIENCE:

- 2013 Steadman Hawkins Clinic of the Carolinas, Greenville, SC
Collaborators: Michael Kissenberth, M.D.
A description of a novel all inside arthroscopic tenodesis technique with the KFx anchor system.
- 2011 Steadman Hawkins Clinic of the Carolinas, Greenville, SC
Collaborators: Richard Hawkins, M.D., Michael Kissenberth, M.D.
Grant Bennett, M.D. and Christopher Baker, M.D.
To examine the comparative diagnostic accuracy of orthopaedic sports medicine fellows and orthopaedic surgery residents (after a concentrated training program and with no prior experience in musculoskeletal ultrasound) to diagnose full thickness rotator cuff tears using ultrasound imaging alone, with accuracy equal to that in the published literature.

- 2008
Shelbourne Knee Clinic Methodist Hospital, Indianapolis, IN
Collaborator: K. Donald Shelbourne, M.D.
The research involved searching current literature to support a prior paper written by Dr. Shelbourne describing a proposed mechanism for non-contact ACL injuries.
- 2008
IU Department of Orthopaedics, Indianapolis, IN
Collaborator: Brian H. Mullis M.D.
Injuries to the ankle syndesmosis typically require surgical intervention. The anatomic reduction is checked post op with traditional radiographs. This is the first investigation to access syndesmotoc reduction with the more reliable CT criteria and to correlate this data with functional and subjective outcomes. This data will provide a foundation for future investigations to improve reduction and fixation of this complex injury.
- 2006
IU Department of Orthopaedics, Indianapolis, IN.
Collaborator: Stephen Trippel M.D.
The research was based on cartilage regeneration. Chondrocytes were extracted from bovine cartilage. They were then grown on disks of bovine articular cartilage that had been treated with various enzymes. The goal was to disrupt that surface of the inherently slick articular cartilage enough to allow for the adhesion of the chondrocytes.

PRESENTATIONS:

Kruse KK. Reverse Total Shoulder Arthroplasty. Grand Rounds Presentation Greenville Health System Department of Orthopaedics. December 2, 2013.

Kruse KK, Kissenberth MJ. All inside arthroscopic biceps tenodesis technique. South Carolina Orthopaedic Association Annual Meeting. Kiawah Island, South Carolina, August 1-4, 2013.

Kruse KK, Bennett GW, Baker C, Hawkins RJ, Kessenberth MJ. Orthopaedic Surgeons in Training can Quickly Learn to Diagnose Full Thickness Rotator Cuff Tears Using Ultrasonography. South Carolina Orthopaedic Association Annual Meeting. Kiawah Island, South Carolina. August 2-5, 2012.

Courses Attended:

April 2012	IBRA Upper Extremity Trauma Course, Miami FL
March 2012	AO Hand and Wrist Fracture Course, Dallas, TX
January 2012	Biomet Upper Extremity Instructional Course, New Orleans, LA
October 2011	AANA Masters Shoulder Arthroscopy Course, Chicago, IL
August 2011	AANA Resident Arthroscopy Course, Chicago, IL
July 2011	ASES/AAOS Shoulder Instability Course, Chicago, IL
April 2011	Duke Upper Extremity Trauma Course, Durham NC

Hobbies and Interests:

I enjoy exercise, golf, cooking and reading (classical and American History)