

## CURRICULUM VITAE



### **R. Michael Greiwe, MD**

**DATE:** July 23, 2019

**BIRTHPLACE:** Tampa, Florida (6/15/78)

**HOMETOWN:** Tampa, Florida

**BUSINESS ADDRESS:** OrthoCincy  
560 South Loop Rd.  
Edgewood, KY 41017

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**HOME ADDRESS:** 3287 Hemlock Dr.  
Edgewood, KY 41017  
(513) 479-9102

Family:

Wife: Molly Krumpelbeck Greiwe

Son: Nathan Michael, 1/31/11

Daughter: Madelyn Adele, 9/21/12

Son: Ryan Joseph, 4/22/15

Son: Aiden Patrick, 5/31/17

Daughter: Elizabeth Marie Greiwe, 2/25/19

**HOSPITAL APPOINTMENTS:**

2010 – PRESENT     Attending in Orthopaedic Surgery  
St. Elizabeth Medical Center

2010 – PRESENT     Affiliate Professor of Orthopaedic Surgery  
University of Cincinnati Medical Center

2010 – PRESENT     Staff Physician Cincinnati Children’s Medical Center

2012 – PRESENT     Staff Physician Christ Hospital Medical Center

**COMMITTEES/HOSPITAL INVOLVEMENT:**

**COMMONWEALTH ORTHOPAEDIC CENTERS/ST. ELIZABETH MEDICAL CENTER**

2014 – PRESENT     Director of Orthopaedic Quality and Research, St.  
Elizabeth Medical Center Orthopaedic Institute

2010 – 2014:         Director of Orthopaedic Research, St. Elizabeth Medical  
Center

2014 – PRESENT:     Physician Advisory Council, St. Elizabeth Medical Center,  
Florence

2014 – PRESENT:     Mayo Clinical Care Network Physician Champion, St.  
Elizabeth Hospital

2013 – 2015:         Board of Directors, Commonwealth Orthopaedic Centers

2012 – 2015:         Committee on Orthopaedic Devices

2013 – 2015:         Finance Committee on Bundled Payment

2013 –2017:         Sports Medicine Advisory Committee

**EDUCATION:**

1992 – 1996         H.B. Plant High School  
Tampa, Florida

1996 – 2000      **Bachelor of Arts**, (Preprofessional Studies, Spanish Literature)  
University of Notre Dame  
Notre Dame, Indiana  
*Cum Laude*

2000 – 2004      **Doctor of Medicine**  
University of South Florida  
Tampa, Florida

**POST-DOCTORAL TRAINING:**

2004 – 2009      **Residency in Orthopaedic Surgery**  
University of Cincinnati Sports Medicine and Orthopaedics  
Cincinnati, Ohio  
Director: Keith Kenter, MD

2009 – 2010      **Fellowship in Sports Medicine/Shoulder and Elbow Surgery**  
Columbia -Presbyterian Medical Center  
New York, New York  
Director: William N. Levine, MD

**PROFESSIONAL SOCIETIES:**

2015 – PRESENT:    American Shoulder and Elbow Society (ASES)

2011 – PRESENT:    Arthroscopy Association of North America (AANA)

2010 – PRESENT:    American Academy of Orthopaedic Surgeons (AAOS)

2010 – PRESENT:    American Orthopaedic Society for Sports Medicine (AOSSM)

2010 – PRESENT:    Northern Kentucky Medical Association (NKMA)

2012 – PRESENT:    Kentucky Medical Association (KMA)

**ACADEMIC APPOINTMENTS:**

2010 – PRESENT: Affiliate Professor  
Department of Orthopaedics and Sports Medicine  
University of Cincinnati Medical Center  
Cincinnati, OH

2010 – PRESENT: Affiliate Professor  
Family Medicine Residency Program  
St. Elizabeth Medical Center  
Edgewood, KY

2010 – PRESENT: Affiliate Professor  
Fellowship in Sports Medicine (Family Practice)  
St. Elizabeth Medical Center  
Edgewood, KY

2017 -- PRESENT: Director, Cincinnati Shoulder and Elbow Fellowship  
OrthoCincy/St. Elizabeth/Mercy Health Combined  
Edgewood, KY

#### **PREVIOUS ACADEMIC APPOINTMENTS**

2009 – 2010: Post-Doctoral Clinical Fellow  
Department of Orthopaedic Surgery  
Columbia-Presbyterian Medical Center  
New York, New York

#### **BOARD CERTIFICATION:**

JULY 2009 Orthopaedic Boards, Part 1 (Pass)

JULY 2013 Diplomate of the Board, American Board of Orthopaedic  
Surgery

**MEDICAL LICENSES:** Kentucky #43798  
Ohio  
Indiana  
Wisconsin  
Minnesota  
Michigan

#### **AWARDS:**

- 1996 Hall of Fame Inductee – H.B. Plant High School  
Tampa, FL
- 1999 Notre Dame 4.0 Award  
University of Notre Dame  
Notre Dame, IN
- 1999 – 2000 Knute Rockne Student-Athlete of the Year Award  
University of Notre Dame, Cross Country  
Notre Dame, IN
- 2000 All-Big East Academic/Athletic  
University of Notre Dame  
Notre Dame, IN
- 1996 – 2000 Dean’s Honor List (7 semesters)  
University of Notre Dame  
Notre Dame, IN
- 2001 Winner of Rural Health and Interdisciplinary Scholarship  
University of South Florida College of Medicine  
Tampa, FL
- 2002 – 2004 Honors in Surgery, Internal Medicine, Psychiatry,  
Neuroscience, Critical Care Medicine, Pediatrics,  
Obstetrics and
- 2004 Award for Clinical Excellence in Psychiatry  
University of South Florida College of Medicine  
Tampa, FL
- 2005 3<sup>rd</sup> Place Ohio Orthopaedic Society Resident Paper  
Cleveland, OH
- 2006 2<sup>nd</sup> Place Ohio Orthopaedic Society Resident Paper  
Aurora, OH
- 2007 Awarded UOREF grant for research in transgenic Col 1/  
Col 2 rabbit model  
University of Cincinnati

Preceptor: David Butler, PhD  
Cincinnati, OH

- 2007            Awarded UOREF grant for research in PGE2 and chronic  
                  tendonopathy  
                  University of Cincinnati  
                  Preceptor: David Butler, PhD  
                  Cincinnati, OH
- 2008            AOA-OREF-Zimmer Resident Leadership Recipient  
                  University of Cincinnati  
                  Cincinnati, OH
- 2008            Freiberg Basic Science Award Winner  
                  University of Cincinnati  
                  Cincinnati, OH
- 2008            1<sup>st</sup> Place DJ Frank lecture, best paper
- 2009            NIH grant (consultant) Awarded for tendon research  
                  Principal Investigator: David Butler, PhD  
                  University of Cincinnati  
                  Cincinnati, OH
- 2009            1<sup>st</sup> Place Ohio Orthopaedic Society Resident Paper  
                  Columbus, OH
- 2009            Best Graduating Chief Resident  
                  University of Cincinnati  
                  Cincinnati, OH
- 2013            Nominated for Health Care Heroes Award, Innovation  
                  Cincinnati Business Courier  
                  Cincinnati, OH
- 2014            Legacy Award Winner in Health Care  
                  Greater Cincinnati LEGACY group  
                  Cincinnati, OH
- 2013 – 2018, 2020    Cincinnati Magazine “Top Doc” Award
- 2016            Best Presentation, Toronto Sports Medicine Symposium

2016	Rising Star Medical Leaders Venue Magazine Cincinnati, OH
2017	Nomination Health Care Heroes Award, Innovation Cincinnati Business Courier Cincinnati, OH
2017	Nomination Health Care Heroes Award, Entrepreneurship Cincinnati Business Courier Cincinnati, OH

**TEAM COVERAGE:**

2013 – PRESENT	Head Team Physician Covington Catholic High School
2014 – 2017	Head Team Physician Notre Dame Academy
2009 – 2010	Fellow Team Physician North Bergen High School North Bergen, NJ
2009 – 2010	Fellow Team Physician Columbia University
2009 – 2010	Fellow to Head Team Physician New York Yankees Dr. Christopher Ahmad

**EVENT COVERAGE:**

2009	Tournament of Champions Professional Squash Tournament Grand Central Station, New York
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**PEER REVIEWER:**

2012 – PRESENT	Journal of American Academy of Orthopaedic Surgeons
2012 – PRESENT	Journal of Bone and Joint Surgery JBJS Reviews – Sports Medicine
2014 – PRESENT	The Physician and Sports Medicine
2015 – PRESENT	Journal of Shoulder and Elbow Surgery

### **RESEARCH GRANTS:**

1. UOREF grant: PGE2 in Chronic Tendonopathy (2007)  
Principal Investigator: R. Michael Greiwe, MD  
Co-Investigator: David Butler, PhD and Keith Kenter, MD  
Award: \$15,000
2. UOREF grant: “Developing a Transgenic Rabbit to Assess Injury– and Repair- Induced Changes in Collagen-2 Gene Expression” (2007)  
Principal Investigator: David Butler, PhD  
Co-Investigators: R. Michael Greiwe MD, Keith Kenter MD, J Robbins, PhD  
Award: \$30,000
3. CDC R01 Grant: Tenocyte Repair and Growth (2009)  
Principal Investigator: David Butler, PhD.  
Consultant: R. Michael Greiwe, MD  
Award: \$3,800,000

### **SCIENTIFIC PRESENTATIONS (National):**

1. **Greiwe RM**, Frankle MA, Guttierrez S. Failure in Reverse Total Shouldder Arthroplasty, presented at International Symposium on Shoulder Surgery, Tampa, FL (2003)
2. **Greiwe RM**, Wall E, Crawford AH, Mehlman CM. Pediatric Both-Bone Forearm Fractures: A meta-analysis. Presented at Orthopaedic Trauma Association meeting, Pheonix, AZ. (2006)



3. **Greiwe RM**, Frede C, Florer J, Butler D, Kenter, K. The temporal and spatial relationship of Col 1 and Col 2 in tendon healing. ORS Annual Meeting, Las Vegas, NV. (2009)
4. **Greiwe RM**, Frede C, Florer J, Butler D, Kenter, K. The temporal and spatial relationship of Col 1 and Col 2 in tendon healing. Accepted for presentation at Mid-America Orthopaedic Society Meeting, St. Augustine Florida. (2009)
5. **Greiwe RM**, Saifi C, Yongpravat C, Gardner T, Levine WN, Ahmad CS. Reverse Total Shoulder Arthroplasty Range of Motion to Impingement Using Computer Simulation. AAOS meeting, ASES Specialty Day, San Diego, CA Feb 2011
6. **Greiwe RM**, Grantham T, Ahmad C. Perceptions of UCL repair in the community. AOSSM meeting, San Diego, CA., 2011
7. **Greiwe RM**, Hill M, Nolan J, Boyle M. Posterior Shoulder Arthroplasty, 1 year outcomes. ICSES, Buenos Aires Argentina, September 2019.
8. **Greiwe RM**, Kohrs B, Hill M, Harm R. ORIF vs. RTSA for Displaced Proximal Humerus Fractures. ASES Closed Meeting. New York, New York. October 2019.

**CO-AUTHORED SCIENTIFIC PRESENTATIONS (National):**

1. Frankle MA, **Greiwe RM** et al. Open vs. Closed Rotator Cuff Repair. AAOS Annual Conference. San Francisco, California (2001)
2. Frankle, MA, **Greiwe RM** et al. Total Shoulder Arthroplasty in Osteoarthritis. AAOS Annual Conference. Dallas, Texas (2002)
3. DiPasquale T, **Greiwe RM**, Simmons P, Zweibel B, Bernasek T, Mangar D. Intra-iliac Balloon Occlusion in Jehovah's Witness Patient. OTA Annual Conference. (2004)
4. Frankle MA, **Greiwe RM** et al. Component Positioning and Hardware Failure in the Reverse Shoulder Prosthesis. ASES Closed Meeting, September 30, 2004.
5. Herfat ST, Shearn JT, Bailey D, Mehl ME, Perry N, Galloway MT, **Griewe M**, Gooch C, Butler DL. The Effect of In Vivo Sensor Implantation in the Sheep Knee. Presented at International symposium on ligaments and tendons. Stanford, CA. (2008)

6. Galano G, **Greive RM**, Ahmad C. Voluntary Instability Utilizing Arthroscopic Repair Techniques. AAOS meeting, ASES Specialty Day, San Diego, CA. Feb 2011
7. **Greive RM**, Hill M, Harm R, Boyle M. Reverse TSA vs. ORIF for proximal humerus fractures. A retrospective comparison. ASES Closed Meeting, New York, NY. (October 2019)

#### **SCIENTIFIC PRESENTATIONS (International):**

1. Mehlman CM, **Greive RM** et al. Stiffness in Pediatric Both-bone Forearm Fractures. Presented at European Pediatric Orthopaedic Society Meeting. Sorrento, Italy (2007)
2. **Greive RM**, Hill M, Nolan J, Boyle M. Posterior Shoulder Arthroplasty, 1 year outcomes. ICSES, Buenos Aires Argentina (2019). (accepted for podium presentation)

#### **SCIENTIFIC PRESENTATIONS (Regional):**

1. **Greive RM**, Frankle MA Guttierrez S. Component Positioning in Reverse Total Shoulder Arthroplasty. Ohio Orthopaedics Society Meeting, Cleveland, OH, 2005.
2. **Greive RM**, Wall E, Crawford AH, Mehlman CM. Pediatric Both-Bone Forearm Fractures: A meta-analysis. Ohio Orthopaedics Society Meeting, Aurora, OH, 2006
3. **Greive RM**. "Achilles Tendon Ruptures" University of Cincinnati Orthopaedics Grand Rounds. Cincinnati, OH. 2007
4. **Greive RM**. "Proximal Humerus Fractures" University of Cincinnati Orthopaedics Grand Rounds. Cincinnati, OH. 2008
5. **Greive RM**, Frede C, Florer J, Butler D, Kenter K. The temporal and spatial relationship of Col 1 and Col 2 in tendon healing. Presented at DJ Frank lectureship, University of Cincinnati, May 2009
6. **Greive RM**, Frede C, Florer J, Butler D, Kenter K. The temporal and spatial relationship of Col 1 and Col 2 in tendon healing. Ohio Orthopaedics Society Meeting, Columbus OH, June 2009.

7. **Greiwe RM.** Elbow Instability. Sports Core Curriculum Conference at Columbia University, New York, NY October 2009
8. **Greiwe RM.** Musculotendinous injuries: Basic Science. Presented at Sports Core Conference at Columbia University, New York, NY June 2010.
9. **Greiwe RM,** Yongpravat C, Saifi C, Gardner T, Levine WN, Ahmad C. Computer Simulated Reverse Range of Motion to Impingement. West Point Fellows Day, West Point, NY June 2010
10. **Greiwe RM.** Osteomyelitis. Family Practice Resident Lecture Series. Edgewood KY 2010.
11. **Greiwe RM.** Elbow Injuries in the Athlete. St. Elizabeth's Sports Medicine Meeting. Edgewood, KY May 2011.
12. **Greiwe RM.** Treatment of Shoulder Arthritis. Community Seminar, Villa Springs Nursing Facility, Crescent Springs KY 2011
13. **Greiwe RM.** Shoulder and Elbow Injuries in the Athlete. Presented at St. Elizabeth's Sports Medicine Meeting. Edgewood, KY May 2013.
14. **Greiwe RM.** Reverse Total Shoulder Arthroplasty. Presented at Baptist Life Centers, Baptist Village, September 2013
15. **Greiwe RM.** Treatment of Shoulder Arthritis. Community Seminar for Physical Therapists, Baptist Village, Erlanger, KY. May 2014
16. **Greiwe RM.** Shoulder Diagnosis: Keeping It Simple. Family Practice Resident Lecture Series. Edgewood KY. December 2016.
17. **Greiwe RM.** Overhead Mechanics. Presented at University of Cincinnati, Resident Lecture Series, January 2017.
18. **Greiwe, RM.** Proximal Humerus Fractures. Presented at University of Cincinnati, Resident Lecture Series, November 2017.
19. **Greiwe, RM.** Shoulder injuries. Presented at University of Cincinnati, PM&R Resident Lecture Series, 2018
20. **Greiwe, RM.** Overhead Mechanics. Presented at University of Cincinnati, Resident Lecture Series, January 2019.

21. **Greiwe, RM.** Multidirectional Shoulder Instability. Presented at University of Cincinnati, Resident Lecture Series. January 2019.

#### **POSTER PRESENTATIONS:**

1. Maksala, K, **Greiwe M**, Simmons P, Gasser S. Fractures treated with Arthroscopic Capsular Release and Subacromial Decompression. Orthopaedic Trauma Association (OTA) Annual Meeting, Fort Lauderdale, Florida. (2004)
2. **Greiwe RM**, Hill M, Harm R. Elbow arthroscopy for the treatment of osteoarthritis. Accepted for presentation, Arthroscopy Association of North America (AANA) Annual Meeting, Orlando, Florida. (May 2019)

#### **PEER REVIEWED JOURNAL ARTICLES:**

1. Dipasquale T, **Greiwe RM**, Simmons P, Zweibel B, Bernasek T, Steinberg J, Mangar D. Temporary partial intra-iliac balloon occlusion for the treatment of acetabulum fracture in a Jehovah's Witness: a case report. *J Orthop Trauma*. 2005 Jul; 19(6):415-9.
2. Guttierrez S, **Greiwe RM**, Frankle MA, Siegal S, Lee WE 3<sup>rd</sup>. Biomechanical comparison of component position and hardware failure in the reverse shoulder prosthesis. *J Shoulder Elbow Surg*. 2007;16(3 Suppl):S9-S12
3. Herfat ST, Shearn JT, Bailey DL, **Greiwe RM**, Galloway MT, Gooch C, Butler DL. Effect of surgery to implant motion and force sensors on vertical ground reaction forces in the ovine model. *J Biomech Eng*. 2011 Feb; 133(2):021010. doi:10.1115/1.4003322.
4. Coe MP, **Greiwe RM**, Joshi R, Snyder BM, Simpson L, Tosteson AN, Ahmad CS, Levine WN, Bell JE. The cost-effectiveness of reverse total shoulder arthroplasty compared with hemiarthroplasty for rotator cuff tear arthropathy. *J Shoulder Elbow Surg*. 2012 Oct;21(10):1278-88. doi: 10.1016/j.jse.2011.10.010.
5. **Greiwe RM**, Galano G, Grantham J, Ahmad CS. Arthroscopic Stabilization for Voluntary Shoulder Instability. *J Pediatr Orthop*. 2012 Dec;32(8): 781-6. doi: 10.1097/BPO.0b013e31826b6ee1.

6. Ahmad CS, Grantham WJ, **Greiwe RM**. Public Perceptions of Tommy John Surgery. *Phys Sportsmed*. 2012 May; 40(2):64-72. doi:10.3810/psm.2012.05.1966.
7. Yongpravat C, Lester JD, Saifi C, Trubelja A, **Greiwe RM**, Bigliani LU, Levine WN, Gardner TR, Ahmad CS. Glenoid Morphology After Reaming in Computer-Simulated Total Shoulder Arthroplasty. *J Shoulder Elbow Surg* 2013 Jan; 22(1): 122-8. doi: 10.1016/j.jse.2011.12.010.
8. **Greiwe RM**, Vargas-Ariza R, Bigliani LU, Levine WN, Ahmad CS. Hemiarthroplasty for Head-Split Fractures of the Proximal Humerus. *Orthopedics*. 2013 Jul 1;36(7):e905-911. doi:10.3928/01477447-20130624-21.
9. Cadet ER, Kok P, **Greiwe RM**, Chan A, Ahmad CS, Levine WN, Bigliani LU. Intermediate and long-term outcomes of total shoulder arthroplasty for post-capsulorrhaphy arthropathy. *J Shoulder Elbow Surg* 2014 Sept; 23(9): 1301-8. doi: 10.1016/j.jse.2013.12.017
10. **Greiwe RM**. Posterior Rotator Cuff-Sparing Approach to the Shoulder: A report of three cases. *JAAOS Global Reviews* 2017.
11. Saifi C, Noticewala MN, **Greiwe RM**, Lester JD, Gardner TR, Cadet E, Levine WN, Bigliani LU, Ahmad CS. *Am J Orthop* 2017 Sep/Oct;46(5): E280-E292.
12. **Greiwe RM**, Hill M, Rodgers R, Spanyer J. Improving orthopedic patient outcomes: A model to predict 30- and 90-day readmission rates following total joint arthroplasty. *J of Arthroplasty* 2019 Nov;34(11):2544-2548

#### **INVITED JOURNAL ARTICLES:**

1. **Greiwe RM**, Archdeacon MT. Locking plate technology: current concepts. *J Knee Surg*. 2007; 20(1):50-5.
2. **Greiwe, RM**, Bjerke-Kroll, B, Ahmad, CS. Medial Collateral Ligament Reconstruction. *Operat Tech Orthop* 2009; 19(4): 243-250.
3. **Greiwe RM**, Saifi C, Ahmad CS, Gardner T. Anatomy and Biomechanics of Patellar Instability. *Operative Techniques in Sports Medicine*. 2010; 18(2): 62-67.
4. **Greiwe RM**, Ahmad, CS. Management of the Throwing Shoulder: Cuff, Labrum and Internal Impingement. *Orthop Clin North Am*. 2010; 41(3):309-23.

doi:10.1016/j.ocl.2010.03.001

5. **Greiwe RM**, Saifi C, Ahmad CS. Pediatric Sports Elbow Injuries. Clin Sports Med. 2010; 29(4):67-703.doi: 10.1016/j.csm.2010.06.0101
6. **Greiwe RM**, Saifi C, Ahmad CS. Biomechanics of Medial Patellofemoral Ligament Reconstruction. Clinics in Sports Med.
7. Macaulay AA, **Greiwe RM**, Bigliani LU. Rotator cuff deficient arthritis of the glenohumeral joint. Clin Orthop Surg.2010 Dec/2(4):196-202. doi:10.4055/cios.2010.2.4.196
8. Hsu SH, **Greiwe RM**, Saifi C, Ahmad CS. Reverse Total Shoulder Arthroplasty – biomechanics and rationale. Operat Tech Orthop 2011;21:52-59.

#### **AUDIO/VISUAL:**

1. **Greiwe, RM**. Reconstructive Issues Regarding the Adult Shoulder. Oakstone Comprehensive Review Course. (2014)
2. **Greiwe, RM**. Adult Shoulder Reconstruction. Oakstone Comprehensive Review Course. (2012)

#### **TEXTBOOKS:**

1. Shoulder and Elbow Trauma and its Complications (Volume 1 and 2). **Greiwe RM**. Elsevier, London, UK.

#### **BOOK CHAPTERS:**

1. **Greiwe RM**. Proximal Humerus Fractures: Nonoperative Treatment. IN: Shoulder and Elbow Trauma and its Complications. Volume 1: The Shoulder. Greiwe RM. Elsevier.pp 57-82, 2015
2. **Greiwe RM**. Proximal Humerus Fractures: Hemiarthroplasty and reverse shoulder arthroplasty. IN: Shoulder and Elbow Trauma and its Complications. Volume 1: The Shoulder. Greiwe RM. Elsevier, pp 113-146, 2015
3. **Greiwe RM**. Proximal Humerus Fractures: Percutaneous Fixation, Proximal Humeral Nail, Open Reduction and Internal Fixation. IN: Shoulder and Elbow

- Trauma and its Complications. Volume 1: The Shoulder. Greiwe RM. Elsevier, pp 83-112, 2015.
4. Metzler AV, **Greiwe RM**. Distal Biceps Tears: Acute and Chronic. IN: Shoulder and Elbow Trauma and its Complications. Volume 2: The Elbow. Greiwe RM. Elsevier, pp 47-64, 2015
  5. **Greiwe RM**. Distal Humerus Fractures: Open Reduction and Internal Fixation. IN: Shoulder and Elbow Trauma and its Complications. Volume 2: The Elbow. Greiwe RM. Elsevier, pp 65-98, 2015
  6. Kazemi N, **Greiwe RM**. Fractures of the Proximal Forearm. IN: Shoulder and Elbow Trauma and its Complications. Volume 2: The Elbow. Greiwe RM. Elsevier, pp 119-144, 2015
  7. Fierro-Porto GA, **Greiwe RM**. Post-traumatic Osteoarthritis of the Elbow. IN: Shoulder and Elbow Trauma and its Complications. Volume 2: The Elbow. Greiwe RM. Elsevier, pp 313-352, 2015.
  8. **Greiwe RM**, Levine WN. Pathology and Findings of Anterior Instability. IN: Shoulder Instability: A Comprehensive Approach. Provencher M, Romeo A. (Eds). Elsevier. pp 67-77, 2012.
  9. **Greiwe RM**. Orthopaedic Emergencies. IN: Mont Reid Surgical Handbook, 6<sup>th</sup> Ed. Stehr, W. (Ed.) Elsevier. pp 713-722

**COURSE INSTRUCTOR/REGIONAL PRESENTATIONS:**

1. AANA Masters Elbow Course 405. June 13-14, Rosemont, IL – Associate Instructor.
2. Stryker Experience Day. December 16, 2015. Mahwah, NJ Course Director
3. Toronto Sports Medicine Symposium, February 5, 2016 Toronto, ON, Canada. Biceps Tenodesis
4. Stryker Shoulder Arthroplasty Course, March 31- April 1, 2016. Orlando, FL, USA.

5. Stryker Shoulder Arthroplasty Course, May 12-14, 2016. Las Vegas, NV, USA
6. Stryker Resident Education Course, May 31-June 1, 2016. East Lansing, MI, USA
7. San Diego Shoulder Course. June 22 – June 25, 2016. San Diego, CA, USA.
8. Stryker Regional Surgeon Course, December 6, 2016. Hicksville, NY, USA
9. Stryker Shoulder Arthroplasty Course, May 2017. Las Vegas, NV, USA
10. Stryker Resident Education Course, August, 2017. Huntington, WV, USA
11. Stryker Shoulder Arthroplasty Course, October 2017, Mahwah, NJ, USA
12. Stryker Shoulder Arthroplasty Course, July 2017, Mahwah, NJ, USA
13. Stryker Shoulder Arthroplasty Course, February 2018, Chicago, IL, USA
14. Stryker Shoulder Arthroplasty Course, May 2018, Yonkers, NY, USA
15. Resident Education Lab, Shoulder Arthroplasty, June 2018, Dayton, OH, USA
16. Stryker Shoulder Arthroplasty Master's Course, September 2018, New York, NY, USA
17. Stryker Shoulder Arthroplasty Southeast Regional Course, May 2019, Nashville, TN, USA
18. Stryker Shoulder Arthroplasty Future Leaders Course, July 2019, San Francisco, CA. (Course Director)