

# ROBERT U. HARTZLER, M.D., M.S.

## PERSONAL INFORMATION

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Date of Birth: 01/28/81  
Birthplace: Austin, Texas  
Address: 150 E. Sonterra Blvd Suite 300, San Antonio, TX 78258  
Business Phone: (210) 804-5630  
E-mail contact: dramirez@tsaog.com (clinical coordinator)

## PRESENT ACADEMIC RANK AND POSITION

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Clinical Assistant Professor, Baylor College of Medicine Sports Medicine Fellowship Program  
Assistant Clinical Professor, University of the Incarnate Word School of Osteopathic Medicine  
Orthopaedic Surgeon, Shoulder and Elbow Specialist, TSAOG Orthopaedics

## MEDICAL TRAINING

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**Fellowship, The San Antonio Orthopaedic Group** 150 E. Sonterra Blvd. Ste 300  
San Antonio, TX 78258

- Department Head: Dr. Stephen S. Burkhart
- Contact Telephone: 210-489-7222
- 02/10/14 – 08/29/14

**Fellowship, Florida Orthopaedic Institute**

13020 Telecom Parkway N  
Temple Terrace, FL 33637-0925

- Department Head: Dr. Mark Frankle
- Contact Telephone: 813-978-9700
- 08/01/13 – 01/31/14

**Internship and Residency, Mayo Clinic**

200 1<sup>st</sup> Street SW  
Rochester, MN 55905

- Department of Orthopedic Surgery
- Department Chair: Dr. Daniel Berry
- Renee Cocker, Program Coordinator
- Contact Telephone: 507-284-3316
- 06/28/2008 – 06/28/13

## EDUCATION

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**Master of Science in Biomedical Sciences**  
**Mayo Graduate School**

200 1<sup>st</sup> Street SW  
Rochester, MN 55905

- Graduate Program Director: Dr. N.S. Turner
- Maribeth Trevis, Program Coordinator
- Contact Telephone: 507-284-4076
- 07/06/09 – 05/18/13

**Doctor of Medicine**  
**The University of Texas Southwestern Medical School**

5323 Harry Hines Boulevard  
Dallas, TX 75390

- Dean, UTSW Medical School: Dr. J. Gregory Fitz
- Office of Medical Education: 214-648-9590
- 08/16/04 – 05/30/08
- Member of Alpha Omega Alpha (AOA)
- GPA: 4.0 / 4.0

**Bachelor of Science in Chemical Engineering**  
**The University of Texas at Austin**

**200 E. Dean Keeton St. Stop C0400**  
**Austin, TX 78712-1589**

- Department Chair: Dr. Roger T. Bonnecaze
- Kelly McQueary, Undergraduate Coordinator
- Contact Telephone: 512-471-6443
- 08/26/98 – 12/22/01
- Biomedical Engineering track
- *Magna Cum Laude*; GPA: 3.96/ 4.0

**BOARD CERTIFICATION**

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American Board of Orthopaedic Surgery

- Board Certified 7/28/2016 – 12/31/2026
- 400 Silver Cedar Court, Chapel Hill, North Carolina 27514
- Telephone: (919) 929-7103

USMLE Step 3

- Score: 253
- 04/15/09

USMLE Step 2 CK

- Score: 260
- 02/19/08

USMLE Step 2 CS

- Pass
- 11/27/07

USMLE Step 1

- Score: 254
- 06/22/06

**MEDICAL LICENSURE**

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Texas Medical License

- # P7925, Active
- Issued 09/16/2013

Minnesota Medical License

- # 51930, Inactive
- Issued 07/11/09

Florida Medical License

- # ME115054, Inactive
- Issued 01/31/12

**WORK EXPERIENCE**

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**MCAT Instructor**  
**Kaplan, Inc.**

**2270 Guadalupe St**  
**Austin, TX 78705**

- Taught preparatory classes in reading and writing skills, biology, physics, general chemistry, and organic chemistry
- Contact Person: Kaplan, Inc. Corporate Office
- 212-492-5800
- 06/04/01 – 05/24/02

**Mathematics and Science Teacher**  
**City School**

**1702 Woodland Avenue**  
**Austin, TX 78741**

- Mathematics and science educator at the 5-8<sup>th</sup> grade levels
- Contact Person: Michelle Allen or Seela Misra
- 512-416-7744
- 10/07/02 – 05/28/04

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HONORS/AWARDS/LEADERSHIP

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**The San Antonio Orthopaedic Group**

- 2016 Runner-up for Arthroscopy Journal Basic Science Research Award in Best Basic Science category for “Remplissage of an Off-track Hill-Sachs Lesion Is Necessary to Restore Biomechanical Glenohumeral Joint Stability in a Bipolar Bone Loss Model”

**Residency**

- HA Peterson Award for Scholarly Writing, 2013
- Best Paper at the American Society for Surgery of the Hand Annual Meeting, 2010
- PJ Kelly Basic Science Research Award Finalist (Mayo Orthopedic Surgery), 2010

**Medical School**

- Elected to Alpha Omega Alpha, 2007
- Highest Ranking Graduate, Class of 2008
- Class officer, Wilson Surgical Society, 2005-2007
- President, Wilson Surgical Society, 2007-2008

**Undergraduate**

- Elected to Omega Chi Epsilon, Chemical Engineering Honors Society, 2001
- Eastman Chemical Engineering Scholar, 2000
- W.B. Franklin Endowed Presidential Scholarship in Chemical Engineering, 1999

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COMMITTEE MEMBERSHIPS AND VOLUNTEER ACTIVITIES

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TSAOG Orthopaedics Professional Standards Committee & Peer Review and Quality Assurance Committee  
2018 - 2020

Arthroscopy Journal Podcast  
Monthly Contributor from January 2019 - Present

Social Media Editor – Arthroscopy Association of North America  
Accepted Appointment 2020 – 2022

Technology Committee – American Shoulder and Elbow Surgeons  
2018 - present

Learning Center Committee – Arthroscopy Association of North America  
2019 - 2021

Research Committee Member – Arthroscopy Association of North America  
2018 - 2020

Scientific Advisory Committee Member – Burkhart Research Institute for Orthopaedics  
2017 - present

International Congress for Joint Reconstruction, Digital Media Committee  
2017 - present

Arthroscopy Association of North America, Social Media Task Force  
2016 - 2019

Clinical Reviewer for *Arthroscopy: The Journal of Arthroscopic and Related Surgery*  
5/2014 - present

Clinical Reviewer for *The Journal of Shoulder and Elbow Surgery*  
5/2014 - present

Mayo Clinic Surgery & Surgical Specialties Graduate Education Committee, Resident Member,  
2011-2013

Mayo Clinic Department of Orthopedic Surgery Education Committee, Resident Member,  
2011-2013

Question writer for Arthroscopy Association of North America (AANA) – American Shoulder  
and Elbow Surgeons (ASES) Self-Assessment Program: *Subsection Elbow Trauma*  
2014-2015

Question writer for Arthroscopy Association of North America (AANA) – American Shoulder  
and Elbow Surgeons (ASES) Self-Assessment Program: *Subsection Elbow Arthroscopy*  
2014-2015

#### PROFESSIONAL ORGANIZATIONS

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- American Shoulder and Elbow Surgeons (ASES)
  - Candidate Member 6/18 – 6/19
  - Associate Member 6/19 - present
- Arthroscopy Association of North America (AANA)
  - 12/15 - present
- American Academy of Orthopedic Surgery (AAOS)
  - Resident Member: 07/08 – 10/17
  - Active Fellow: 10/17 – present
- American Medical Association
  - 09/04 – 7/14

#### CHAired MEETINGS

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- Arthrex Advanced Shoulder Arthroscopy: The Cowboy Way***
  - San Antonio, TX; 10/10-11/2019
- AANA Shoulder Solutions Course***
  - Orthopedic Learning Center
  - Rosemont, IL; 10/4-6/2019
- Arthrex Advanced Shoulder Arthroscopy: The Cowboy Way***
  - Naples, FL; 4/4-5/2019

#### INTERNATIONAL PRESENTATIONS

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- Podium Presentation at International Congress of Shoulder and Elbow Surgeons***
  - Clinical Outcomes Comparing SCR versus Tendon Transfer
  - Buenos Aires, Argentina; 9/20/2019

#### VIRTUAL MEETINGS - WEBINARS

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- AAOS Surgical Management of Functionally Irreparable Cuff Tears***
  - Superior Capsular Reconstruction: How I Perform this Procedure in 2020 and What to Expect
  - Rosemont, IL; 4/7/2020

#### REGIONAL/NATIONAL EDUCATIONAL PRESENTATIONS

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- Podium Presentations at AANA Annual Fellows and Chief Residents Course***
  - Rotator Cuff Repair: Double Row
  - Bad Things, Good People: Common Pitfalls in the 1<sup>st</sup> Year Practice
  - Arthroscopic CC Stabilization or Reconstruction
  - Rosemont, IL; 2/21-23/2020
- Podium Presentation at Texas Orthopaedic Association Annual Conference***
  - Complications of Arthroscopic Superior Capsular Reconstruction
  - San Antonio, TX; 2/7/2020

***Co-Chair and Podium Presentations at Arthrex Advanced Shoulder Arthroscopy: The Cowboy Way***

- Joint Preservation in Osteoarthritis: Alternatives to Joint Replacement
- SCR vs Tendon Transfer vs rTSA for Massive Cuff Tear: Indications
- Anatomic Total Shoulder Arthroplasty: Technique
- Anatomic TSA
- Congruent Arc Latarjet
- Live Surgery: Superior Capsular Reconstruction
- San Antonio, TX; 10/10-11/2019

***Co-Chair and Podium Presentations at AANA Shoulder Solutions Course***

- Shoulder Arthroscopy Basics: Lateral
- Arthroscopic Double Row Rotator Cuff Repair: Cadaver Demonstration
- Subscapularis Tears: Tips and Tricks
- Superior Capsular Reconstruction
- Latarjet
- Rosemont, IL; 10/4-6/2019

***Podium Presentation and Panel at San Diego Shoulder Course***

- Very Active 50 or Under Patient with OA - Arthroscopic Debridement and Biologic Glenoid Resurfacing is the Best Option
- Lab Instructor for Shoulder Arthroscopy Skills Practicum Session
- San Diego, CA; 6/19/2019

***Podium Presentations at Arthrex Shoulder Arthroplasty Fellowship Forum***

- Indications and Alternatives to TSA
- Managing Atypical Glenoid Deformity with TSA
- Naples, FL; 5/18/2019

***Podium Presentations at Arthrex Sports Medicine Fellowship Forum***

- When Soft Tissue Labral Repair is Not Enough
- PASTA Lesions: Fixation and Biologic Considerations
- Naples, FL; 5/16/2019

***Podium Presentation and Lab Instructor: Mayo Clinic Shoulder Tendon Transfer and Complex Rotator Cuff Repair***

- Why I Do Superior Capsular Reconstruction
- Relive Surgery: Superior Capsular Reconstruction
- Rochester, MN; 4/25/2019

***Podium Presentation at Arthrex West Coast Sports Medicine OTIF***

- My Approach for Dealing with the Massive or Irreparable Rotator Cuff Tear
- San Diego, CA; 4/12/2019

***Co-Chair and Podium Presentations - Arthrex Advanced Shoulder Arthroscopy: The Cowboy Way***

- Anatomic and Reverse TSR
- SCR vs rTSR for Massive Cuff Tear: What are the Indications?
- Anatomic Total Shoulder Arthroplasty Live Demo
- Reverse Total Shoulder Arthroplasty Live Demo
- Naples, FL; 4/4-5/2019

***Podium Presentation at Arthrex Orthopedic Technology and Innovation Forum***

- Preoperative Planning Research and Patient Outcomes
- Naples, FL; 1/20/2019

***Podium Presentations and Lab Instructor at Arthrex Shoulder Arthroplasty Course***

- TSA Indications and Contraindications
- Alternatives to TSA
- Subscapularis Management and Postoperative Evaluation
- Naples, FL; 11/10/2018

***Podium Presentations and Lab Instructor at Arthrex-ISO Colombia Meeting***

- Joint Preservation: Alternatives to Joint Replacement
- SCR vs rTSR for Massive Cuff Tear: What are the Indications?
- Rotator Cuff Repair in Poor-Quality and Retracted Tissue
- Naples, FL; 11/8-9/2018

***Podium Presentations at Arthrex Advanced Shoulder Arthroscopy: The Cowboy Way***

- Joint Preservation: Alternatives to Joint Replacement
- Congruent-Arc Latarjet
- SCR vs rTSR for Massive Cuff Tear: What are the Indications?
- San Antonio, TX; 10/25-26/2018

***Podium Presentations and Lab Instructor at AANA Shoulder Skills Course***

- Latarjet: Why and How?
- My SCR Technique
- OLC, Chicago, IL; 8/3-4/2018

***Podium Presentation and Panel at AOSSM Annual Meeting***

- Pseudoparalysis: We Can Reverse It
- Massive Rotator Cuff Repair Panel Discussion
- San Diego, CA; 7/5/2018

***Podium Presentation at Arthrex West Coast Sports Medicine OTIF***

- Superior Capsular Reconstruction: Technique Evolution
- San Diego, CA; 4/13/2018

***Podium Presentation at Arthrex Advanced Shoulder Arthroscopy: The Cowboy Way***

- Joint Preservation: Biologic Glenoid Resurfacing with Dermal Allograft
- Naples, FL; 4/6/2018

***Podium Presentation at ASES Specialty Day***

- Superior Capsular Reconstruction “How To” Technique Video
- New Orleans, LA; 3/10/2018

***Podium Presentation at Arthrex Sports Medicine OTIF***

- Non-Arthroplasty Treatment Options of Glenohumeral Arthritis
- Naples, FL; 1/20/2018

***Podium Presentation at Arthrex National Futures Forum***

- When Labral Repair Isn't Enough: Remplissage
- Innovations in Shoulder Arthroplasty
- Naples, FL; 8/4/2017

***Podium Presentation at Orthopaedic Summit 2015: Evolving Techniques***

- Evolving Technique Update: Arthroscopic Glenoidplasty and Interpositional Dermagrafts for OA: Successful Outcomes? The Truth!
- Las Vegas, Nevada; 12/4/15

***Podium Presentation at Advanced Shoulder Arthroscopy The Cowboy Way***

- Joint Preservation: Biologic Glenoid Resurfacing with Dermal Allograft
- San Antonio, Texas; 10/15/2015

***Podium Presentation at Advanced Shoulder Arthroscopy The Cowboy Way***

- DJD: Glenoid Resurfacing with Dermal Allograft
- Naples, Florida; 5/9/2015

***Podium Presentation at Arthrex Arthroplasty Faculty Forum***

- Glenoid Resurfacing with ArthroFlex
- Naples, Florida; 5/2/2015

***Podium Presentation at Advanced Shoulder Arthroscopy: The Cowboy Way***

- Joint Preservation: Biologic Glenoid Resurfacing with Dermal Allograft
- San Antonio, Texas; 10/16/14

MAYO CLINIC PRESENTATIONS

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***Moment Arms of Axiohumeral Shoulder Muscles and Tendon Transfers***

- Master in Biomedical Sciences Thesis Defense
- Mayo Clinic; 03/18/13

***Options for Failed Lateral Ankle Instability Surgery***

- Foot and Ankle Division Conference
- Mayo Clinic; 03/12/13

***Rib Fracture Surgery***

- Trauma Division Conference
- Mayo Clinic; 09/07/12

***Ulnar Styloid Fractures: To Fix or Not to Fix?***

- Hand Division Conference
- Mayo Clinic; 07/08/11

***Surgical Considerations in Juvenile Idiopathic Arthritis***

- Pediatric Orthopedic Surgery Grand Rounds
- Nemours Children's Clinic; Jacksonville, FL; 06/15/11

***Parathyroid Hormone and Fracture Healing***

- Advanced Bone Physiology Course
- Mayo Clinic; 09/18/09

CURRENT RESEARCH PROJECTS

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***Functional Outcomes and Healing Rates Comparing Two Fixation methods of Double-Row Rotator Cuff Repair: A Randomized Control Trial******Arthroscopic Bankart versus Arthroscopic Bankart with Remplissage: a functional comparative study******Factors Associated with Version and Inclination Correction of the Glenoid Component in 3D Total Shoulder Arthroplasty Planning******Cost-Utility Analysis of Single versus Two-Incision Distal Biceps Repair******Analysis of Direct Hospital Costs for Reverse Total Shoulder Arthroplasty versus Superior Capsular Reconstruction for Massive Rotator Cuff Tears without Arthritis***GRANTS

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Mayo Clinic Orthopedic Surgery Resident Research Grant (\$25,000 over 1 year)

- 1) Hanus LH, **Hartzler RU**, Wagner NJ. Electrolyte-Induced Aggregation of Acrylic Latex I. Dilute Particle Concentrations. *Langmuir*, 2001.
- 2) Rosenthal ME, Ritter EM, Goova MT, Castellvi AO, Tesfay ST, Pimentel EA, **Hartzler R**, Scott DJ. Proficiency-based Fundamentals of Laparoscopic Surgery skills training results in durable performance improvement and a uniform certification pass rate. *Surg Endosc*. 2010 Oct;24(10):2453-7.
- 3) Kubista B, **Hartzler RU**, Wood CM, Osmon DR, Hanssen AD, Lewallen DG. Reinfection after two-stage revision for periprosthetic infection of total knee arthroplasty. *Int Orthop*. 2012 Jan;36(1):65-71.
- 4) **Hartzler RU**, Barlow JD, An KN, Elhassan BT. Biomechanical Effectiveness of Different Types of Tendon Transfers to the Shoulder for External Rotation. *J Shoulder Elbow Surg*. 2012 Oct;21(10):1370-6.
- 5) Elhassan BT, Bishop AT, **Hartzler RU**, Shin AY, Spinner RJ. Tendon Transfer Options About the Shoulder in Patients with Brachial Plexus Injury. *J Bone Joint Surg Am*. 2012 Aug 1;94(15):1391-8.
- 6) **Hartzler RU**, Sperling JW, Schleck CD, Cofield, RH. Clinical and radiographic factors influencing the results of revision rotator cuff repair. *Int J Shoulder Surg*. 2013 Apr-Jun;7(2): 41-5.
- 7) Barlow JD, **Hartzler RU**, Abdel MP, Morrey ME, An KN, Steinmann SP, Morrey BF, Sanchez-Sotelo J. Surgical capsular release reduces flexion contracture in a rabbit model of arthrofibrosis. *J Orthop Res*. Oct;31(10):1529-32, 2013
- 8) **Hartzler RU**. Axial Rotation Moment Arms of Axiohumeral Shoulder Muscles and Tendon Transfers. Diss. College of Medicine-Mayo Clinic, 2013.
- 9) **Hartzler RU**, Llusa-Perez M, Steinmann SP, Morrey BF, Sanchez-Sotelo J. Transverse coronoid fracture: when does it have to be fixed? *CORR Jul*; 472(7):2068-74, 2014.
- 10) **Hartzler RU**, Morrey BF, Steinmann SP, Llusa-Perez M, Sanchez-Sotelo J. Radial head reconstruction in elbow fracture-dislocation: monopolar or bipolar prosthesis? *Clin Orthop Relat Res*. Jul; 472(7):2144-50, 2014.
- 11) Cabezas AF, Gutiérrez S, Teusink MJ, Schwartz DG, **Hartzler RU**, Santoni BG, Frankle MA. Kinematic impact of size on the existing glenohumeral joint in patients undergoing reverse shoulder arthroplasty. *Clin Biomech*. Jun; 29(6):622-8, 2014.
- 12) Watts CD, **Hartzler RU**, Cross WW. Open reduction and percutaneous fixation of a rare hamstring avulsion fracture. *BMJ Case Rep*. Sep 25, 2014.
- 13) **Hartzler RU**, Burkhart SS. Technical Note: Medial Biceps Sling Takedown May be Necessary to Expose an Occult Subscapularis Tendon Tear. *Arthrosc Tech*. Dec 15;3(6):e719-22, 2014.
- 14) Brady PC, Narbona P, Adams CR, Huberty D, Parten P, **Hartzler RU**, Arrigoni P, Burkhart SS. Arthroscopic proximal biceps tenodesis at the articular margin: evaluation of outcomes, complications, and revision rate. *Arthroscopy*. Mar; 31(3):470-6, 2015.
- 15) Cusick MC, Hussey MM, Steen BM, **Hartzler RU**, Clark RE, Cuff DJ, Cabezas AF, Santoni BG, Frankle MA. Glenosphere dissociation after reverse shoulder arthroplasty. *JSES Jul*; 24(7):1061-8, 2015.
- 16) **Hartzler RU**, Steen BM, Hussey MM, Cusick MC, Cottrell BJ, Clark RE, Frankle MA. Reverse shoulder arthroplasty for massive rotator cuff tear: risk factors for poor functional improvement. *JSES*. Nov; 24(11):1698-706, 2015.
- 17) Barlow JD, Morrey ME, **Hartzler RU**, Arsoy D, Riestter S, van Wijnen AJ, Morrey BF, Sanchez-Sotelo J, Abdel MP. effectiveness of rosiglitazone in reducing flexion contracture in a rabbit model of arthrofibrosis with surgical capsular release. *Bone and Joint Research*. 2016 Jan 1;5(1):11-7.
- 18) Adams CR, Denard PJ, Brady PC, **Hartzler RU**, Burkhart SS. The arthroscopic superior capsular reconstruction. *American Journal of Orthopedics*. 2016 Jul.
- 19) Sheean AJ, **Hartzler RU**, Denard PJ, Lädermann A, Hanypsiak BT, Burkhart SS. A 70 arthroscope significantly improves visualization of the bicipital groove in the lateral decubitus position. *Arthroscopy: The Journal of Arthroscopic & Related Surgery*. 2016 Sep 30;32(9):1745-9.
- 20) **Hartzler RU**, Bui CN, Jeong WK, Akeda M, Peterson A, McGarry M, Denard PJ, Burkhart SS, Lee TQ. Remplissage of an off-track Hill-Sachs lesion is necessary to restore biomechanical glenohumeral joint stability in a bipolar bone loss model. *Arthroscopy: The Journal of Arthroscopic & Related Surgery*. 2016 Dec 31;32(12):2466-76.



- 21) Burkhart SS, Denard PJ, Adams CR, Brady PC, **Hartzler RU**. Arthroscopic superior capsular reconstruction for massive irreparable rotator cuff repair. *Arthroscopy techniques*. 2016 Dec 31;5(6):e1407-18.
- 22) **Hartzler RU**, Melapi S, de Beer JF, Burkhart SS. Arthroscopic Joint Preservation in Severe Glenohumeral Arthritis Using Interpositional Human Dermal Allograft. *Arthroscopy: The Journal of Arthroscopic & Related Surgery*. 2017 Nov 1;33(11):1920-5.
- 23) Sheean AJ, **Hartzler RU**, Denard PJ, Lädermann A, Sanders TG, Zlatkin M, Burkhart SS. Preoperative radiographic risk factors for incomplete arthroscopic supraspinatus tendon repair in massive rotator cuff tears. *Arthroscopy: The Journal of Arthroscopic & Related Surgery*. 2017 Dec 19.
- 24) **Hartzler RU**, Burkhart SS. Management of Subscapularis Tendon Tears. *Operative Techniques in Sports Medicine*. 2017 Oct 7.
- 25) **Hartzler RU**, Burkhart SS. Superior Capsular Reconstruction. *Orthopedics*. 2017 Oct 10;40(5):271-80.
- 26) Funakoshi T, **Hartzler RU**, Stewien ET, Burkhart SS. Remplissage using Interconnected Knotless Anchors: Superior Biomechanical Properties to a Knotted Technique? *Arthroscopy: The Journal of Arthroscopic & Related Surgery*, 34(11), pp.2954-2959.
- 27) Burkhart SS, **Hartzler RU**. Superior Capsular Reconstruction Reverses Profound Pseudoparalysis in Patients with Irreparable Rotator Cuff Tears and Minimal or No Glenohumeral Arthritis. *Arthroscopy: The Journal of Arthroscopic & Related Surgery*. 2019 Jan 1;35(1):22-8.
- 28) Funakoshi T, **Hartzler RU**, Stewien E, Burkhart SS. Hill-Sachs Lesion Classification by the Glenoid Track Paradigm in Shoulder Instability: Poor Agreement Between 3-Dimensional Computed Tomographic and Arthroscopic Methods. *Arthroscopy: The Journal of Arthroscopic & Related Surgery*. 2019 Jun 1;35(6):1743-9.
- 29) **Hartzler RU**, Denard PJ. The Glenoid Track and How It Can Guide Management. *Operative Techniques in Sports Medicine*. 2019 Jan 10.
- 30) Burkhart SS, **Hartzler RU**. Arthroscopic Rotator Cuff Repair: How to Avoid Retear. *Arthroscopy: The Journal of Arthroscopic & Related Surgery*. 2019 Jan 1;35(1):12-3.
- 31) Petis SM, Kubista B, **Hartzler RU**, Abdel MP, Berry DJ. Polyethylene liner and femoral head exchange in total hip arthroplasty: factors associated with long-term success and failure. *JBJJ*. 2019 Mar 6;101(5):421-8.
- 32) **Hartzler RU**. Editorial Commentary: Safety in Anteromedial Elbow Portal Placement? Go North! *Arthroscopy: The Journal of Arthroscopic & Related Surgery*. 2019; July; 35(7): 2173-4.
- 33) Navasartian D, **Hartzler RU**, DeBerardino T, Burkhart SS. Arthroscopic Repair of Humeral Avulsion of the Glenohumeral Ligaments Based on Location. *Arthroscopy Techniques*. 2019 Jul 17.
- 34) **Hartzler RU**, Softic D, Qin X, Dorfman A, Adams CR, Burkhart SS. The histology of a healed superior capsular reconstruction dermal allograft: A case report. *Arthroscopy: The Journal of Arthroscopic & Related Surgery*. 2019 Oct 1;35(10):2950-8.
- 35) Sheean AJ, **Hartzler RU**, Burkhart SS. Arthroscopic Rotator Cuff Repair in 2019: Linked, Double Row Repair for Achieving Higher Healing Rates and Optimal Clinical Outcomes. *Arthroscopy: The Journal of Arthroscopic & Related Surgery*. 2019 Sep 1;35(9):2749-55.
- 36) Burkhart SS, Prankun JJ, **Hartzler RU**. Superior Capsular Reconstruction for the Operatively Irreparable Rotator Cuff Tear: Clinical Outcomes Are Maintained 2 Years After Surgery. *Arthroscopy: The Journal of Arthroscopic & Related Surgery*. 2020 Feb 1;36(2):373-80.
- 37) **Hartzler RU**, Sheean AJ, Burkhart SS. Successful Revision Arthroscopic Rotator Cuff Repair Is Possible in the Setting of Prior Deep Infection. *Arthroscopy, Sports Medicine, and Rehabilitation*. 2020 Apr 25.
- 38) Hartzler RU, Denard PJ, Griffin JW, Werner BC, Romeo AA. Surgeon Acceptance of an Initial 3D Glenoid Preoperative Plan: Rates and Risk Factors. *Accepted JSES*.

## TEXTBOOKS

- 1) Burkhart SS, Brady PC, Denard PJ, Adams CR, **Hartzler RU**. *The Cowboy's Conundrum*. Philadelphia: Lippincott, Williams and Wilkins; 2017.

## BOOK CHAPTERS

- 1) **Hartzler RU**, Sperling JW, Cofield RH. Total Shoulder Arthroplasty. In: Lee D, Neviasser RJ, editors. Operative Techniques: Shoulder and Elbow Surgery. Philadelphia: Saunders; 2010. p. 147-64.
- 2) Mighell MA, **Hartzler RU**, and Kovack TJ. Elbow Arthrodesis. Operative Techniques for Orthopaedic Surgery, 2<sup>nd</sup> ed. Wolters Kluwer, 2015.
- 3) **Hartzler RU**, Angelo RL, Burkhart SS. Pathoanatomy of Rotator Cuff Tears. In: Normal and Pathological Anatomy of the Shoulder. Springer, 2015.
- 4) **Hartzler RU**, Burkhart SS. Anterior Instability with Moderate Glenoid Bone Loss: The Latarjet Procedure. In: AAOS Advanced Reconstruction: Shoulder 2. American Academy of Orthopaedic Surgeons, 2016.
- 5) **Hartzler RU**, Morrey BF. Coronoid Fractures. In: Morrey's The Elbow and Its Disorders, 5th Edition. Section IV: Acute Trauma. Elsevier; 2017.
- 6) Sheean AJ, **Hartzler RU**, Burkhart SS. Latarjet. In: An Atlas of Advanced Shoulder Arthroscopy. CRC Press; 2018.
- 7) **Hartzler RU**, Sheean AJ, Burkhart SS. 9 Massive Rotator Cuff Repair: Margin Convergence. Shoulder Surgery: Tricks of the Trade. 2019 Apr 4:8.
- 8) **Hartzler RU**, Burkhart SS. Arthroscopic Subscapularis Repair. In: Illustrated Tips and Tricks in Sports Medicine Surgery. Wolters-Kluwer; 2018.
- 9) Schoch BS, **Hartzler RU**, Sperling JW. Total Shoulder Arthroplasty. In: Operative Techniques: Shoulder and Elbow Surgery. Elsevier; 2018.
- 10) **Hartzler RU**, Marder RA, Burkhart SS. Rotator Cuff Disorders. In: Chapman's Comprehensive Orthopaedic Surgery: Four Volume Set. Jaypee Brothers, Medical Publishers Pvt. Limited; 2019 Jan 31.
- 11) **Hartzler RU**, Denard PJ. Subscapularis Tears – Recognition and Techniques of Fixation. In: Premier Approaches to Arthroscopic Rotator Cuff Repair. SLACK Incorporated; 2020.
- 12) Denard PJ, **Hartzler RU**. Tricks of the Trade for Poor Tissue and Bone. In: Premier Approaches to Arthroscopic Rotator Cuff Repair. SLACK Incorporated; 2020
- 13) **Hartzler RU**, Burkhart SS. Glenohumeral Osteoarthritis: Biological Interposition. In: Rotator Cuff Across the Life Span: ISAKOS Consensus Book. Imhoff AB, Savoie III FH, editors. Springer; 2019 Apr 27.
- 14) Sheean AJ, **Hartzler RU**, Burkhart SS. Double Row – When is it truly indicated? In: Rotator Cuff Across the Life Span: ISAKOS Consensus Book. Imhoff AB, Savoie III FH, editors. Springer; 2019 Apr 27.
- 15) Duquin TR, Hohman, Jr. DW, **Hartzler RU**. Arthroscopic Rotator Cuff Repair. In: Atlas of Essential Orthopaedic Procedures, Ed 2. Wolters-Kluwer. Flatow E, Colvin AC. Atlas of Essential Orthopaedic Procedures. Lippincott Williams & Wilkins; 2019 Jul 11.
- 16) Burkhart SS, **Hartzler RU**. The Philosophy of Arthroscopic Rotator Cuff Repair. In: Rotator Cuff Across the Life Span: ISAKOS Consensus Book. Imhoff AB, Savoie III FH, editors. Springer; 2019 Apr 27..
- 17) **Hartzler RU**, Sheean AJ, Burkhart SS. 9 Massive Rotator Cuff Repair: Margin Convergence. Shoulder Surgery: Tricks of the Trade. 2019 Apr 4:8.
- 18) **Hartzler RU**, Burkhart SS. Subscapularis Tears and Subcoracoid Impingement. Orthopaedic Knowledge Update: Shoulder and Elbow 5. *Submitted*
- 19) Lynch TB, Barlow JD, **Hartzler RU**. Distal Biceps Repair: Dual Incision. Elbow Surgery: Tricks of the Trade. *Submitted*
- 20) Denard PJ, **Hartzler RU**, Elhassan BT. Approach to the Irreparable Cuff Tear and Failed Cuff Repair. The Shoulder: 5<sup>th</sup> Edition. *Submitted*

## SCIENTIFIC PRESENTATIONS/POSTERS/ABSTRACTS

- 1) Sarkari M, Chen X, **Hartzler RU**, Young TJ, Rogers TL, Vaughn JM, Brown JN, Hu J, Williams III RO, Johnston KP. Evaporative Precipitation into Aqueous Solutions (EPAS) - A New Technology to Enhance Bioavailability for Poorly Water Soluble Drugs. Poster presented at the American Association of Pharmaceutical Scientists Meeting; Denver, Colorado, 2001.
- 2) Goova M, Ritter E, Tesfay S, Pimentel E, **Hartzler RU**, Scott D. Proficiency-Based FLS Skills Training Results In Durable Performance Improvement and Uniform Certification

- Pass Rate. Poster presented at the Scientific Session of the Society of American Gastrointestinal and Endoscopic Surgeons (SAGES); Philadelphia, Pennsylvania, 2008.
- 3) **Hartzler RU**, Llusa-Perez M, Steinmann SP, Morrey BF, Sanchez-Sotelo J. Coronoid Fracture Fixation and Radial Head Replacement Using a Monopolar or Bipolar Implant Improve Elbow Stability and Kinematics. Poster presented at the International Congress of Shoulder and Elbow Surgery; Edinburgh, Scotland, 2010.
  - 4) Steinmann SP, **Hartzler RU**, MD, Llusa-Perez M, Morrey BF, An KN, Sanchez-Sotelo J. The Effect of Coronoid Fracture Fixation and Radial Head Replacement using a Monopolar or Bipolar Implant on Elbow Stability and Kinematics. Presented at the American Shoulder and Elbow Surgeons Closed Meeting; Scottsdale, Arizona, 2010.
  - 5) Elhassan BT, Bishop AT, Spinner RJ, Shin AY, **Hartzler RU**. Shoulder Reconstruction Options in Patients with Brachial Plexus Injury. Podium presentation at the Annual Meeting of the American Society for Surgery of the Hand; Boston, Massachusetts, 2010.
  - 6) Elhassan BT, **Hartzler RU**. Biomechanical Effectiveness of Different Types of Tendon Transfers to the Shoulder for External Rotation. Presented at the International Congress of Shoulder and Elbow Surgery; Edinburgh, Scotland, 2010.
  - 7) Barlow JD, **Hartzler RU**, Abdel MP, Morrey ME, An KN, Steinmann SP, Morrey BF, Sanchez-Sotelo J. Adjuvant rosiglitazone does not increase the effectiveness of surgical release in a model of arthrofibrosis. Poster presentation at the Orthopaedic Research Society Annual Meeting; Long Beach, California; 01/13/11-01/16/11.
  - 8) Barlow JD, **Hartzler RU**, Abdel MP, Morrey ME, An KN, Steinmann SP, Morrey BF, Sanchez-Sotelo J. Limited capsular release reduces flexion contracture in a rabbit model of arthrofibrosis. Poster presentation at the Orthopaedic Research Society Annual Meeting. Long Beach, California; 01/13/11-01/16/11
  - 9) **Hartzler RU**, Sperling JW, Schleck CD, Cofield, RH. Clinical and Radiographic Factors Influencing the Results of Revision Rotator Cuff Repair. Podium Presentation at the Mid-America Orthopaedic Association Annual Meeting; Bonita Springs, Florida; 4/20/12.
  - 10) Bui CNH, **Hartzler RU**, Jeong WK, Akeda M, Peterson A, McGarry M, Burkhart SS, Lee TQ. Biomechanical Stability of Glenohumeral Bipolar Bone Lesions After Soft Tissue Repair. Presented at Western Orthopaedics Association Annual Meeting, Coeur d'Alene, Idaho, 2015. Winner of Sanford and Darlene Anzel Award.
  - 11) Sheean AJ, **Hartzler RU**, Burkhart SS. Diagnostic Shoulder Arthroscopy With A 70-Degree Arthroscope Improves Visualization Of The Bicipital Groove In Cadaveric And Living Subjects. Presented at The Society of Military Orthopaedic Surgeons Annual Meeting, St. Petersburg, Florida, 2015.
  - 12) **Hartzler RU**, Steen BM, Hussey MM, Cusick MC, Cottrell BJ, Clark RE, Frankle MA. Reverse Shoulder Arthroplasty for Massive Rotator Cuff Tear: Risk Factors For Poor Functional Improvement. Podium Presentation at American Shoulder and Elbow Surgeons Specialty Day, AAOS Annual Meeting; Las Vegas, Nevada; 3/28/2015
  - 13) **Hartzler RU**, Bui CN, Jeong WK, Akeda M, Peterson A, McGarry M, Denard PJ, Burkhart SS, Lee TQ. Remplissage of an Off-Track Hill-Sachs Lesion is Necessary to Restore Biomechanical Glenohumeral Joint Stability in a Bipolar Bone Loss Model. Podium Presentation, Mayo Orthopedic Research Alumni Association International Symposium; Rochester, Minnesota; 8/8/2015.
  - 14) **Hartzler RU**, Burkhart SS. Arthroscopic glenoid resurfacing for Severe Glenohumeral Arthritis: Does a Thicker Graft Improve Results? ePoster Presentation at the AANA Annual Meeting; Boston, Massachusetts, 2016.
  - 15) Hanson TM, **Hartzler RU**, Burkhart SS. Risk Factors for Failure of a Standardized Non-Operative Treatment Protocol for Idiopathic Shoulder Adhesive Capsulitis. ePoster Presentation at the AANA Annual Meeting; Boston, Massachusetts, 2016.
  - 16) **Hartzler RU**, Bui CN, Jeong WK, Akeda M, Peterson A, McGarry M, Denard PJ, Burkhart SS, Lee TQ. Remplissage of an Off-Track Hill-Sachs Lesion is Necessary to Restore Biomechanical Glenohumeral Joint Stability in a Bipolar Bone Loss Model. Podium Presentation at American Shoulder and Elbow Surgeons Specialty Day, AAOS Annual Meeting; Orlando, Florida, 3/5/2016.
  - 17) Sheean AJ, **Hartzler RU**, Denard PJ, Lädermann A, Sanders T, Zlatkin M, Burkhart SS. Preoperative Risk Factors for an Irreparable Supraspinatus Tendon in Arthroscopic Massive Rotator Cuff Surgery. ePoster presentation at AANA Annual Meeting; Denver, Colorado, 2017.

- 18) Funakoshi T, **Hartzler RU**, Stewien ET, Burkhart SS. Bipolar Bone Loss Measurements in Shoulder Instability: Poor Agreement Between 3D CT and Arthroscopic Values. Presented at AANA Annual Meeting: Chicago, Illinois, 2018.
- 19) Prankun JJ, **Hartzler RU**, Burkhart SS. Arthroscopic Superior Capsular Reconstruction with Dermal Allograft: A Comparison of Outcomes During the “Learning Curve” and Afterward. ePoster presentation at AANA Annual Meeting: Orlando, Florida 2019.
- 20) Navasartian DJ, DeBerardino TM, **Hartzler RU**, Burkhart SS. “Outcomes of Arthroscopic HAGL Repair.” Presented at George E. Omer Jr Research Symposium: San Antonio, Texas, 2019.
- 21) Denard PJ, Lädermann A, Haidamous G, **Hartzler RU**, Parsons BO, Lederman ES, Tokish JM. Radiographic Parameters Associated with Excellent Versus Poor Range of Motion Outcomes Following Reverse Shoulder Arthroplasty. Podium Presentation at ASES Annual Meeting. New York, New York, 2019

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#### PROFESSIONAL COURSES & MEETINGS

##### ***Biomet Oxford Unicompartmental Knee Arthroplasty***

- Warsaw, Indiana; 4/17/09

##### ***DePuy Introduction to Hip & Knee Arthroplasty***

- Dallas, Texas; 10/08/09 – 10/10/09

##### ***American Medical Association Interim Meeting***

- Minnesota Medical Association Representative
- Houston, Texas; 11/06/09 – 11/08/09

##### ***Zimmer Resident Hip, Knee, and Shoulder Arthroplasty Course***

- Minneapolis, Minnesota; 12/04/09 – 12/05/09

##### ***AO Principles and Treatment of Spinal Disorders***

- Las Vegas, Nevada; 01/22/10 – 01/24/10

##### ***Synthes Spine Resident & Fellows Spine Forum***

- Minneapolis, Minnesota; 04/17/10 – 04/18/10

##### ***Zimmer Total Knee Arthroplasty Course***

- Minneapolis, Minnesota; 04/30/10

##### ***AO Basic Principles of Fracture Management***

- Marco Island, Florida; 06/12/10 – 06/17/10

##### ***DePuy Advanced Concepts for the Senior Resident***

- Chicago, Illinois; 10/14/11 – 10/16/11

##### ***Stryker Trauma Shoulder and Elbow Dissection Course***

- Tampa, Florida; 03/02/13

##### ***Mayo Clinic Advanced Elbow Surgical Skills Course***

- Rochester, Minnesota; 05/17/13-05/18-13

##### ***AIUM Hands-on Diagnostic and Interventional Musculoskeletal Ultrasound Course***

- Rochester, Minnesota; 06/27/13-06/29/13

##### ***DJO Masters Course in Shoulder Arthroplasty***

- Tampa, Florida; 08/02/2013-08/03/13

##### ***Current Concepts in Shoulder Arthroscopy***

- Tampa, Florida; 08/10/13

##### ***American Academy of Orthopaedic Surgeons Annual Meeting***

- New Orleans, Louisiana; 3/11/14 – 3/15/14

##### ***Arthrex Sports Medicine Fellowship Forum***

- Naples, Florida; 5/29/14 – 5/30/14

##### ***San Diego Shoulder Course***

- San Diego, California; 6/18/14 – 6/21/14

##### ***Mayo Clinic “Teach the Teachers” Advanced Elbow Surgical Skills Course***

- Rochester, Minnesota; 5/14/15-5/16/15
- Lab Instructor

##### ***Orthopaedic Summit 2015: Evolving Techniques – Sports Medicine, Arthroscopy, and Arthroplasty***

- Las Vegas, Nevada; 12/4/15

##### ***AANA Mission Possible for Today’s Shoulder Surgeon: A New Standard for a New Century***

- Rosemont, Illinois; 2/19/16 - 2/21/16
- Associate Instructor

***Berlin International Shoulder Course***

- Berlin, Germany; 4/7/16 - 4/8/16
- Assistant for live surgery: Arthroscopic Superior Capsular Reconstruction

***Mayo Clinic “Teach the Teachers” Advanced Elbow Surgical Skills Course***

- Rochester, Minnesota; 5/6/16-5/7/16
- Lab Instructor

***DJO Surgical - The Shoulder Summit***

- Chicago, Illinois; 8/11/17-8/13/17
- Podium Presentation – “Horrible Cases: The Worst of the Worst”

***Stryker Current Concepts in Shoulder Arthroplasty***

- Mahwah, New Jersey; 7/22/17

***Arthrex National Futures Forum***

- Naples, Florida; 8/4/17 – 8/4/17

***Arthrex Sports Medicine Orthopedic Technology and Innovation Forum***

- Naples, Florida; 1/20/18

***Arthrex Arthroplasty Orthopedic Technology and Innovation Forum***

- Shoulder Arthroplasty Panel: Preoperative Planning with VIP System
- Naples, Florida; 4/20/18 – 4/21/18

***Arthroscopy Association of North America (AANA) Annual Meeting***

- Scientific Session Moderator: Shoulder Instability 2
- Chicago, Illinois; 4/27/18 – 4/28/18

***Mayo Clinic “Teach the Teachers” Advanced Elbow Surgical Skills Course***

- Rochester, Minnesota; 6/8/18-6/9/18
- Lab Instructor