

# **GORDON I GROH MD, MBA**

Adjunct Professor Department of Orthopedic Surgery  
University of North Carolina School of Medicine  
Director of Shoulder/Elbow Surgery  
Mission Health, Asheville NC  
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## **EDUCATION**

Undergraduate – Washington University (B.A.)

Medical School – University of Missouri School of Medicine (MD)

Graduate School—University of North Carolina at Chapel Hill  
Master in Business Administration (MBA)

## **INTERNSHIP**

General Surgery Internship  
University School of Medicine-Columbia  
Harry S. Truman Veterans Administration

## **RESIDENCY**

Orthopaedic Surgery Residency  
University of Missouri-Columbia  
Harry S. Truman Veterans Administration

## **FELLOWSHIP**

Shoulder Fellowship  
University of Texas at San Antonio

Hand and Microsurgery Fellowship  
Baylor College of Medicine  
Houston, Texas

## **HONORS**

**Undergraduate: Washington University, St. Louis, Mo**

General Honors – summa cum laude

Election to Phi Beta Kappa

Department Honors in Biology

Dean's list

**Medical School—University of Missouri, Columbia, Mo**

General Honors – magna cum laude

Class rank 2 of 115 graduates  
Election to Alpha Omega Alpha  
Election to Phi Kappa Phi  
Missouri State Medical Association Outstanding Medical Graduate  
Bohlinger Pharmaceutical Winner National Pharmacology Essay Award  
Outstanding Student – Medical Pharmacology

### **Graduate School—MBA University of North Carolina at Chapel Hill**

General Honors—Dean’s Scholar—top 5% of graduating class  
Election to Beta Gamma Sigma Honor Society  
Leadership Award  
Named Top Business Student in Class—profiled in Poets & Quants  
Named Student Ambassador

### **Postgraduate**

Nominated for Charles S. Neer Award for Clinical Research, by American  
Shoulder and Elbow Surgeons  
  
Named Top 65 Shoulder Surgeon in USA Becker’s Orthopedics

### **Patents and Trademarks:**

US Patent 8,480,677 B2: System for Treating Proximal Humeral Fractures and  
Method of Using the Same. October, 2013  
  
U.S. Patent Application for *Device And Method For Anchoring Soft Tissue  
To Bone* Appl. No. 14/590,190; Filed

### **Medical Device Development**

Design Surgeon for Reverse Shoulder Prosthesis Monobloc Humeral Stem DJ  
Orthopedics; product launch 2012. Revenue \$20M/year  
  
Chief Design Surgeon for Anatomic AltiVate Shoulder Replacement System,  
DJO, 2017, Revenue \$20M/year

## **PRESENTATIONS**

Groh GI, Frankle MA, Williams GR, Levy JA: Shoulder Arthroplasty for the General Orthopedic Surgeon. Instructional Course Lecture. American Academy of Orthopedic Surgeons, Las Vegas, NV, March 2019.

Groh GI, Groh GM: Immediate, Intermediate and Long Term Results of Physical Therapy in the Treatment of Massive Non-repairable Rotator Cuff Tears. American Academy of Orthopedic Surgeons, New Orleans, LA, March 2018

Groh GI: Shoulder Arthroplasty. Mountain Orthopedic Annual Update. UNC School of Medicine, Asheville, NC April 2017

Groh GI, Mighell MA, Basamania CG, Higgins, LA: All Things Clavicle—From AC to SC and all Points In Between. American Academy of Orthopedic Surgeons Meeting, Orlando, FL, March 2016

Groh GI: Shoulder and Elbow III—Reverse Shoulder Arthroplasty, American Academy of Orthopedic Surgeons Meeting, Orlando, FL, March 2016

Groh GI, Mighell MA, Basamania CG, Higgins, LA: All Things Clavicle—From AC to SC and all Points In Between. American Academy of Orthopedic Surgeons Meeting, , Las Vegas, NV. March 2015

Groh GI: Shoulder Elbow VI. American Academy of Orthopedic Surgeons Meeting, Las Vegas, NV, March, 2015

Groh GI, Mighell MA, Basamania CG, Kibler TA: All Things Clavicle—From AC to SC and all Points In Between. American Academy of Orthopedic Surgeons Meeting, , New Orleans, LA. March 2014

Groh GI, Dines DA: Shoulder Elbow V. American Academy of Orthopedic Surgeons Meeting, New Orleans, LA. March 2014

Groh GI, Frankle MA, Iannotti J, Wirth MA: ICL270 Reverse Shoulder Arthroplasty—Beyond the Basics. American Academy of Orthopedic Surgeons, Chicago, March 2013

Groh GI, Groh GM: Results of Physical Therapy in the treatment of Massive Rotator Cuff Tears. American Academy of Orthopedic Surgeons, Chicago, March 2013

Groh GI, Frankle MA, Iannotti J, Wirth MA: ICL270 Reverse Shoulder Arthroplasty—Beyond the Basics. American Academy of Orthopaedic Surgeons, San Francisco, February 2012

Groh GI, Wirth MA, Rockwood CA: Results of Treatment of Luxatio Erecta (Inferior Shoulder Dislocation). American Academy of Orthopaedic Surgeons, San Francisco, February 2012.

Groh GI: Elbow Fractures. Current Solutions in Shoulder and Elbow Surgery, Tampa, FL, Jan 2012

Groh GI, Frankle MA, Iannotti J, Wirth MA: ICL270 Reverse Shoulder Arthroplasty—Beyond the Basics. American Academy of Orthopaedic Surgeons, San Diego, February 2011

Groh GI et al: 8SK: Reverse Shoulder Arthroplasty, faculty lab instructor. American Academy of Orthopaedic Surgeons Meeting, San Diego, February, 2011.

Groh GI, Wirth MA, Rockwood CA: The treatment of Traumatic Posterior Sternoclavicular Joint Injuries, American Academy of Orthopaedic Surgeons, Las Vegas, March 2009.

Groh GI et al: 8SK: Reverse Shoulder Arthroplasty, faculty lab instructor. American Academy of Orthopaedic Surgeons Meeting, Las Vegas, February, 2009.

Groh GI, Wirth MA, Rockwood CA: Results of Treatment of Snapping Scapula with a Physical Therapy Program. American Academy of Orthopaedic Surgeons, Las Vegas, March 2009.

Groh, GI, Wirth MA, Rockwood CA: The Treatment of Traumatic Posterior Sternoclavicular Joint Injuries, American Shoulder and Elbow Surgeons Open Meeting, San Francisco, March 2008.

Groh GI, Wirth MA, Rockwood CA: The Treatment of Traumatic Posterior Sternoclavicular Joint Injuries, American Academy of Orthopedic Surgeons, San Francisco, Scientific Exhibit, March 2008

Wirth MA, Groh GI, Rockwood CA: The Treatment of Traumatic Posterior Sternoclavicular Joint Injuries, American Shoulder and Elbow Surgeons, Dallas, October, 2007.

Groh, G.I., Sutherland, S.: Effectiveness and Cost Analysis of Adjuvant Modalities to Control Pain in Rotator Cuff Repair. American Academy of Orthopedic Surgeons Meeting, Chicago, Illinois, Poster Exhibit, March 2006.

Wirth, M.A., Groh, G.I., Rockwood, C.A.: Treatment of Symptomatic Posterior Instability with an Anterior Capsular Shift. American Shoulder and Elbow Surgeons Meeting, Atlanta, Georgia, February, 1996.

Groh, G.I., Simoni, M., Heckman, M.M., Allen, T.A., Rockwood, C.A.: Treatment of Snapping Scapula with a Periscapular Muscle Strengthening Program. American Shoulder and Elbow Surgeons Meeting, Orlando, Florida, February, 1995.

Allen, T.A., Dwyer, T.L., Johnassen, A.L., Groh, G.I.: Treatment of Tibial Plateau Fractures Utilizing a Hybrid Ilizarov External Fixator. American Academy of Orthopaedic Surgeons Meeting, Orlando, Florida, Poster Exhibit, February, 1995.

Groh, G.I., Allen, T.A., Williams, R.P.: Treatment of Proximal Humeral Neoplasms Utilizing a Modular Shoulder Hemiarthroplasty. American Academy of Orthopaedic Surgeons Meetings, Orlando, Florida, Poster Exhibit, February 1995.

Heckman, M.M., Groh, G.I., Allen, T.A., Kilcoyne, R.J.: Diagnostic Accuracy of Saline Contrast MRI. American Academy of Orthopaedic Surgeons Meeting, Orlando, Florida, Poster Exhibit, February, 1995.

Allen, T.A., Dwyer, T.L., Johnassen, A.L., Groh, G.I.: Treatment of Tibial Plateau Fractures Utilizing a Hybrid Ilizarov External Fixator. Rocky Mountain Orthopaedic Society, Denver, Colorado, May 1994.

Groh, G.I., Michael S., Paolo R.: Loss of Deltoid Following Shoulder Operations: An Operative Disaster. American Shoulder and Elbow Surgeons 10<sup>th</sup> Open Meeting, New Orleans, Louisiana, February, 1994.

Groh, G.I., Heckman, M.M., Curtis, R.J.: Treatment of Fractures Adjacent to Humeral Prosthesis. American Academy of Orthopaedic Surgeons Meeting, New Orleans, Louisiana, February, 1994.

Heckman, M.M., Groh, G.I., Andrews, J.: Treatment of Arthrofibrosis of the Knee using a Limited Two Incision Posterior Release. American Academy of Orthopaedic Surgeons Meeting, New Orleans, Louisiana, February 1994.

Groh, G.I., Williams, G.R., Rockwood, C.A.: Management of Shoulder Arthrodesis Complications. American Academy of Orthopaedic Surgeons Meeting, New Orleans, Louisiana, February 1994.

Groh, G.I., Curtis, R.J., Heckman, M.M., Rockwood, C.A.: Treatment of Fractures Adjacent to Humeral Prosthesis. American Academy of Orthopaedic Surgeons Meeting, New Orleans, Louisiana, Poster Exhibit, February 1994.

Groh, G.I., Simoni, M., Rolla, P., Rockwood, C.A.: Loss of Deltoid Following Shoulder Operations: An Operative Disaster. American Academy of Orthopaedic Surgeons Meeting, New Orleans, Louisiana, Poster Exhibit, February 1994.

Groh, G.I., Rockwood, C.A.: Comparison of Biodegradable and Metallic Suture Anchors Used in Shoulder Surgery. American Academy of Orthopaedic Surgeons Meeting, New Orleans, Louisiana, Poster Exhibit, February, 1994.

Wirth, M.A., Groh, G.I., Rockwood, C.A.: Treatment of Symptomatic Posterior Glenohumeral Instability with an Anterior Capsular Shift. Southern Medical Association, New Orleans, Louisiana, October, 1993

Ono, K., Wirth, M.S., Groh, G.I., Aufdemorte, T.A., Rockwook, C.A.: Host Compatibility using Biodegradable Suture Anchors. American Academy of Orthopaedic Surgeons Meeting, San Francisco, California, February, 1993.

Grassi, F., Groh, G.I., Rockwood, C.A.: Arthroplasty of the Sternoclavicular Joint. American Academy of Orthopaedic Surgeons Meeting, San Francisco, California. February, 1993

Grassi, F., Groh, G.I., Rockwood, C.A.: Results of Treatment of Posterior Glenohumeral Instability. American Academy of Orthopaedic Surgeons Meeting, San Francisco, California. February, 1993

Chun, J.M., Groh, G.I., Rockwood, C.A.: Treatment of Two-Part Fractures of the Proximal Humerus. American Academy of Orthopaedic Surgeons Meeting, San Francisco, California. February, 1993

Ono, K., Groh, G.I., Wirth, M.A., Rockwood, C.A., Williams, G.R.: Host Compatibility using Biodegradable Suture Anchors. Western Orthopaedic Society Meeting, Monterrey, California, October, 1992.

Groh, G.I., Chun, J.M., Grassi, F., Rockwook, C.A.: Loss of the Deltoid Following Shoulder Operations: An Operative Disaster. Western Orthopaedic Society Meeting, Monterrey, California, October, 1992

Groh, G.I., Simone, M., Rolla, P., Rockwood, C.A.: Loss of the Deltoid Following Shoulder Operations: An Operative Disaster. Clinical Orthopaedic Society Meeting, Denver, Colorado, October 1992.

Chun, J.M., Groh, G.I., Rockwood, C.A.: Treatment of Two-Part Fractures of the Proximal Humerus. Texas Orthopaedic Association, San Antonio, Texas, May 1992.

Groh, G.I., Buchert, P.K., and Allen, W.C.: A comparison of transfusion requirements after total knee replacement using the Solcotrans Autotransfusion

device. American Association of Blood Banks / International Society of Blood Transfusion Joint Congress Annual Meeting, 1991, S193

Gainor, B.J., Groh, G.I.: Stabilization of Complex Distal Radius Fractures with the Orthofix System. Mid-America Orthopaedic Association Meeting, Point Clear, Alabama, April 1990

Allen, W.C., Faranghi, M., Groh, G.I., Parker, J.L.: An update in Sarcoma Management. American Academy of Orthopaedic Surgeons Meeting, New Orleans, Louisiana, February 1990, Scientific Exhibit

Groh, G.I., Buchert, P.K., Allen, W.C.: A Comparison of Transfusion Requirements after Total Knee Replacement Using the Solcotrans Autotransfusion Device. American Academy of Orthopaedic Surgeons Meeting, New Orleans, Louisiana, February 1990.

Gainor, B.J., and Groh, G.I.: Stabilization of Complex Wrist Fractures with the Orthofix System: Advantages and Disadvantages. American Orthopaedic Association Meeting, Colorado Springs, Colorado, June 1989, Scientific Exhibit.

Gaines, R.W., Carson, W.L., Satterlee, C.C., Groh, G.I.: Improving Quality of Spinal Internal Fixation – Evolution Toward Ideal Immobilization – A Biomechanical Study. Scoliosis Research Society, Hamilton, Bermuda, September 1986

Satterlee, C., Gaines, R.W., Carson, W.L., Glascock, C., Groh, G.I.: Experimental Evaluation of Spinal Fracture Stabilization Systems: A comparison of Luque Rectangles and the Kaneda Device. American Academy of Orthopaedic Surgery Meeting, New Orleans, Louisiana, February 1986, Scientific Exhibit.

Harris, R.A., Groh, G.I., Baxter, D.M., Hitzeman, R. J.: Gangliosides Enhance the Membrane Actions of Ethanol and Pentobarbital. International Society for Biomedical Research on Alcoholism Meeting, Santa Fe, New Mexico, June 1984.

## **PUBLICATIONS**

Matsen, FR, Groh GI et al : One and two-year clinical outcomes for a polyethylene glenoid with a fluted peg: one thousand two hundred seventy individual patients from eleven centers. International Orthopedics, December 2018.

Groh, GI (Editor): Clavicle Injuries—A Case Based Guide to Diagnosis and Treatment (Textbook). 2017, Springer Publishing

Groh, GI, Basamania CJ, Higgins, LW, Mighell, MA: Clavicle Injuries—From AC to SC and all Points In Between. Instruction Course Lecture Series Volume 65: 181-198; AAOS, 2016

Groh, GI: Clavicle Fractures: Pins, Plates and Drilling Down. Journal of Bone and Joint Surgery. March, 2015. doi.org/10.2106/JBJS.O.00118

Groh, GI, Groh, GM: Initial Complication rates in Reverse Shoulder Arthroplasty. Journal of Shoulder and Elbow Surgery; doi.org/10.1016/j.jse.2013.06.002; March 2014

Groh GI, Wirth MA: Results of Revision from Hemiarthroplasty to Total Shoulder Arthroplasty Utilizing Modular Component Systems, Journal of Shoulder and Elbow Surgery, 2011. doi:10.1016/j.jse.2010.09.014

Groh, GI and Wirth MA: Management of Traumatic Sternoclavicular Joint Injuries: Journal of the American Academy of Orthopaedic Surgeon. Vol 19, No 1 pages 1-7, January 2010.

Groh GI, Wirth MA, Rockwood CA: The Treatment of Traumatic Posterior Sternoclavicular Joint Injuries. Journal of Shoulder and Elbow Surgery. January, 2011. doi:10.1016/j.jse.2010.03.009

Groh GI: Survival and Radiographic Analysis of a Cementless Fluted Peg Glenoid Component, Journal of Shoulder and Elbow Surgery. December, 2010. doi:10.1016/j.jse.2010.03.012

Groh, GI, Wirth MA, Rockwood CA: Results of Treatment of Luxatio Erecta (Inferior Shoulder Dislocation). Journal of Shoulder and Elbow Surgery (2010) 19, 423-426. doi: 10.1016/j.jse.2009.07.062

Groh, G.I., Wirth, M.W., Rockwood, C.A.: Treatment of Fractures Adjacent to Humeral Prostheses. Journal of Shoulder and Elbow Surgery: (17): 85-89, 2008.

Groh GI, Simoni M, Allen T, Dwyer T, Heckman MM, Rockwood CA Jr. Treatment of snapping scapula with a periscapular muscle strengthening program. [abstract]. J Shoulder Elbow Surg. 1996;5(2-Pt 2):S6.

Ruhmann O, Claire DJ, Wirth MA, Groh GI, Rockwood CA: Pseudoarthrosis after Shoulder Arthrodesis. J Bone Joint Surgery, 2002(84): 874-876.

Claire DJ, Wirth MA, Groh GI, Rockwood CA: Shoulder Arthrodesis. J Bone Joint Surgery, 2001 (83):593-599.

Groh, G.I.: Adult Elbow Fractures, in Orthopaedic Surgery Board Review Manual, Editor Anglen, J. Turner Communications Wayne, PA, 1998.



Rockwood, C.A., Clare, D.J., Wirth, M.A., Groh, G.I.: Shoulder Arthrodesis in Shoulder Surgery, editor Fu, F: Lippincott, New York, 1998.

Rockwood, C.A., Clare, D.J., Wirth, M.A., Groh, G.I.: Scapulohumeral Arthrodesis in Shoulder Surgery Textbook, editors Wulker, N. and Mansat, M. Jartin Dunitz, Ltd, Paris 1998

Rockwood, C.A., Groh, G.I., Wirth, M.A., Grassi, F.A.: Resection Arthroplasty of the Sternoclavicular Joint. Journal of Bone and Joint Surgery, 79A: 387-393, 1998

Groh, G.I., Williams, G.R., Rockwook, C.A.: Management of Shoulder Arthrodesis Complications. Journal of Bone and Joint Surgery, 79A: 881-887, 1997.

Ono, K.K., Williams, G.R., Clem, M.D., Lee J.C., Wirth, M.A., Aufdemorte, T.B., Groh, G.I., Rockwood, C.A.: Repair of Soft Tissue to Bone Using a Biodegradable Suture Anchor. Orthopaedics 20 (6): 383-390, 1997.

Heckman, M.M., Groh, G.I.: Acromioplasty, in Diagnostic and Operative Arthroscopy, editors James Andrews and Laura Timmerman, W.B. Saunders, Philadelphia, 1996.

Groh, G.I., Rockwood, C.A.: The Terrible Triad of the Shoulder: The Management of Anterior Dislocation of the Shoulder Associated with Rupture of the Rotator Cuff and Injury to the Brachial Plexus. Journal of Shoulder and Elbow Surgery, 4: 101-103, 1995.

Groh, G.I., Lichtman, D.M.: Triquetro-hamate instability, in Wrist Instability, editor Ueli Buchler, Martin Dunitz Limited, London, 1995.

Groh, G.I., Bennett, J.M.: Fractures about the Elbow, in Surgery of the Upper Extremity, Editor Clayton Peimer, McGraw-Hill, New York, New York, 1995.

Gonzalez, J.C., Seltzer, D.G., Wirth, M.A., Groh, G.I., Rockwood, C.A.: Lexicons Acromioclaviculares Grados IV, V y VI. Acta Ortopedica LatinoAmericana, 17 (1): 22-33, 1994.

Groh, G.I., Rockwood, C.A.: Anatomy and Surgical Approaches, in The Shoulder, Editor Richard J. Friedman, Thieme, New York, 1994.

Groh, G.I., Simone, M., Rolla, P., Rockwood, C.A.: Loss of the Deltoid Following Shoulder Operations: An Operative Disaster. Journal of Shoulder and Elbow Surgery, 3: 301-316, 1994.

Chun, J.M., Groh, G.I., Rockwood, C.A.: Management of the Two Part Fractures of the Proximal Humerus. *Journal of Shoulder and Elbow Surgery*, 3: 99-107, 1994.

Groh, G.I., Badwey, T.M., Rockwood, C.A.: Treatment of Acromioclavicular Cysts by Shoulder Hemiarthroplasty. *Journal of Bone and Joint Surgery*, 75A: 1790-1794, 1993

Groh, G.I., Parker, J., Allen, W.C.: Fractures of the Femur Treated by Intramedullary Nailing Using the Fluted Rod: A report of 193 consecutive cases. *Clinical Orthopaedics and Related Research*, 285: 101-107, 1992.

Groh G.I., Parker, J., Elliot, J., Pearl, A.J.: Evaluation of Posterior Stabilized Total Knee Arthroplasty. *Clinical Orthopaedics and Related Research*, 269: 58-62, 1991.

Gaines, R.W., Carson, W.L., Satterlee, C.C., Groh, G.I.: Experimental Evaluation of Seven Different Spinal Internal Fixation Devices Under Non-Failure Laboratory Testing. *Spine* 16(8): 902-909, 1991.

Groh, G.I., Gainor, B.J., Jeffries, J.T., Brown, M., Eggers, G.W.: Pseudoaneurysm of the Axillary Artery with Median Nerve Neuropraxia after Axillary Block Anesthesia: A case Report. *Journal of Bone and Joint Surgery*, 72(A): 1407-1408, 1990.

Gainor, B.J., Groh, G.I.: Early Clinical Experience with Orthofix External Fixation of Complex Wrist Fractures, *Orthopaedics*, 13(3): 329-333, 1990.

Groh, G.I., Buchert, P.K., Allen, W.C.: A Comparison of Transfusion Requirements after Total Knee Replacement Using the Solcotrans Autotransfusion System. *Journal of Arthroplasty*, 3:218-285, 1990

Harris, R.A., Groh, G.I., Hitzemen, R.J.: Gangliosides Enhance the Membrane Actions of Ethanol and Pentobarbital. *Alcoholism: Clin. Exp. Res.* 8:95, 1984.

Harris, R.A., Groh, G.I.: Membrane Disordering Effects of Anesthetics are Enhanced by Gangliosides, *Anesthesiology* 62 (2): 114-119, 1985.

Harris, R.A., Groh, G.I., Baxter, D.M., Hitzemen, R. J.: Gangliosides Enhance Membrane Actions of Ethanol and Pentobarbital. *Molecular Pharmacology*, 25:410-417, 1984.

**Pending Publications:**

**Groh, GI: Immediate, Intermediate and Long Term Results of Rehabilitation in Treatment of Massive Rotator Cuff Tears. Under review Journal of Bone and Joint Surgery.**

**GUEST FACULTY:**

Anatomic and Reverse Shoulder Arthroplasty Marketing: The Shoulder Summit, DJO, August, 2019

Shoulder Arthroplasty Trends: The Shoulder Summit, DJO, Chicago, July 2017

Building and Marketing your Practice: ASES Workshop, DJO, New Orleans, LA, September, 2017

Shoulder and Clavicle Injuries Course and Cadaver Lab: Acumed, Charlotte, NC, Feb 2016

Hand, Wrist and Distal Radius Fracture Course: Acumed; Houston, TX, March 2015

Shoulder Arthroplasty Masters Course, DJ Orthopedics, Miami, FL; Sept, 2014

Shoulder Arthroscopy Masters Series, Arthrocare, Austin TX, August, 2012

Shoulder Arthroplasty Masters Course, DJ Orthopedics, Tampa, FL, June, 2012

Shoulder Arthroscopy Masters Series, Arthrocare, New York City, September, 2011

Shoulder Arthroscopy Masters Series, Arthrocare, Miami FL, August, 2011

Treatment of Proximal Humerus Fractures, Mountain Orthopaedic Symposium, Asheville, NC Oct 2011

Modular Shoulder Arthroplasty, DJ Orthopaedics, Baltimore, Maryland, August 2011

Shoulder Arthroscopy Masters Series, Arthrocare, Miami, FL, September, 2010

Reverse Shoulder Training, Don Joy Orthopaedics, Tampa, FL, August, 2010

Reverse Shoulder Arthroplasty, Don Joy Orthopaedics, Greenville, SC, November 2010

Treatment of Proximal Humeral Fractures and Roundtable: Orthopaedic Education Summit, Lake Tahoe, Don Joy Orthopaedics, January 2010.

Shoulder Arthroplasty Surgeon Advisory Board, Depuy, Chicago, IL, October 2009

Shoulder Arthroscopy, Masters Series. Miami, FL; Arthrocare, September, 2009.

Glenoid Exposure Masters Series. Tucson AZ, Depuy, February 2009  
Shoulder Arthroplasty: Standard and Reverse. Orthopedic Learning Center. Depuy. Chicago IL, August 2008

Shoulder Arthroplasty. Baltimore, MD, Depuy, May 2009

Proximal Humeral Intramedullary Nailing. Japanese Society for Fracture Repair. Fukuoka Japan. June 2008

Proximal Humeral Fracture Treatment. Orthopedic Learning Center. Depuy. Chicago IL, August 2008

Live OR Webcast Reverse Shoulder Arthroplasty. Moderator. Durham NC. April 2008

Treatment of Proximal Humeral Fractures. Web-Ex Presentation. Depuy. August 2007.

Proximal Humeral Fracture Treatment Analysis. Global Shoulder Society. Toronto, June 2007

Proximal Humeral Fracture Treatment Options. Depuy. Baltimore, MA. May 2007

Intramedullary Nailing and Hemiarthroplasty for Humerus Fractures. Depuy. St. Louis, MO. March 2007.

Shoulder Fracture Course. Hand Innovations-Depuy. Orlando, FL January 2007.

Global AP Shoulder Prosthesis. Depuy. Chicago IL, January 2007

Advanced Shoulder Arthroscopy. Depuy-Mitek. Las Vegas, NV Oct 2006

Intramedullary Nailing for Proximal Humeral Fractures. Global Shoulder Society. Boston, Ma July 2006

Advanced Arthroscopic Shoulder Concepts Course. Depuy-Mitek. Memphis, TN. June 2006

Shoulder and Knee Arthroscopy. Depuy-Mitek. Orlando, Fl. January 2005.

Duke Shoulder Arthroscopy Course. Depuy-Mitek. Durham, NC. March, 2005

Patient Education Roundtable. Depuy-Mitek. Cincinnati, Oh. November 2005

Mexican Orthopaedic Shoulder and Elbow Society, Visiting Professor. Villahermosa, Tabasco, Mexico, October 1998

Issues in Orthopaedic Implant Technology. Joint Implant Surgery and Research Foundation. Keystone, Colorado, April, 1994.

Issues in Orthopaedic Implant Technology. Joint Implant Surgery and Research Foundation. Keystone, Colorado, March, 1993.

18<sup>th</sup> Annual Primary Musculoskeletal Care Conference. Office of Continuing Medical Education, University of Colorado School of Medicine. Breckenridge, Colorado, August, 1993.

University of Missouri School of Medicine Visiting Professor, Division of Orthopaedics. Columbia, Missouri, November, 1993.

### **Current Research:**

Principle Investigator: Multicenter prospective randomized study: Pyrocarbon versus Metallic Radial Head Arthroplasty. Sponsor Integra Orthopedics

Principle Investigator: Multicenter prospective study: Radiographic and Clinical Outcomes utilizing the Global AP Shoulder Prosthesis. Sponsor Depuy Orthopaedics.

### **Funding:**

Groh, G.I.: Experimental Evaluation of Spinal Fracture Stabilization Systems: A Comparison of Transpedicular Screws with Plates and the Kaneda Device. Orthopaedic Research and Education Foundation Grant #86-432.

### **COMMITTEE APPOINTMENTS:**

Leadership Council: Center for Business of Health. University of North Carolina School of Medicine and the Kenan Flagler Business School.

American Society for Surgery of the Hand: Industrial Relations Committee, 2016

American Shoulder and Elbow Surgeons Research Committee 2016

AAOS Shoulder and Elbow Program Committee, 2012-2016

Instructional Course Evaluation Subcommittee for AAOS annual meeting, 2009-2012

Program Review Committee ASES open meeting 2010

Program Evaluator AAOS annual meeting 2011-2015

**JOURNAL APPOINTMENTS:**

Assistant Editor: *Journal of Shoulder and Elbow Surgery* 2012

Reviewer: *Journal of Bone and Joint Surgery* 2012

Reviewer: *Journal of Shoulder and Elbow Surgery* 2004

**TEACHING APPOINTMENT:**

Adjunct Professor of Orthopedic Surgery, University of North Carolina School of Medicine

**TEACHING AFFILIATIONS:**

University of North Carolina School of Medicine Asheville Campus

Mountain Area Family Practice Residency Program

**LICENSURE:**

Diplomat National Board of Medical Examiners

North Carolina 41256

**BOARD CERTIFICATION:**

American Board of Orthopaedic Surgery 1995 with recertification

Certificate of Added Qualification in Hand Surgery 1997 with recertification

Recertification 2014

**ABOS BOARD CERTIFICATION EXAMINER APPOINTMENT:**

Examiner: American Board of Orthopedic Surgery Oral Examination for Part II Certification and Recertification Exams 2015-2019.

**SOCIETY MEMBERSHIPS:**

American Shoulder and Elbow Surgeons

American Academy of Orthopedic Surgeons

American Society for Surgery of the Hand

North Carolina Orthopedic Society

North Carolina Hand Society

**HOSPITAL AFFILIATIONS**

Mission Health System

**Hospital Committees**

Peer Review Committee

Joint Implant Task Force

Workers compensation Key Physician

Operating Room Efficiency Key Physician

Orthopedic Executive Committee

Orthopedic Service Line

**EMPLOYMENT: In Addition to Residency/Fellowship Positions**

2016-present Orthopedic Surgeon  
Director of Shoulder and Elbow Surgery

Mission Orthopedics, a division of Mission Health and Mission Hospitals  
One Hospital Drive  
Asheville, NC 28801

1995-2016    Orthopedic Surgeon  
Shoulder and Elbow Surgery  
Hand Surgery  
Blue Ridge Bone & Joint Clinic  
129 McDowell Street, Asheville, North Carolina 28801

1992-1994    Assistant Professor  
Director of Shoulder and Elbow Surgery  
Department of Orthopaedic Surgery  
University of Colorado School of Medicine  
4701 E. 9<sup>th</sup> Avenue, Box E203  
Denver, Colorado 80262