

## Glenn Buterbaugh, MD

Medical Advisor  
Orthopedics

### Career Summary



Dr. Buterbaugh is the President of the Hand & UpperEx Center and the Executive Director of the Western PA Surgery Center. A Pittsburgh native, he received his Medical Degree from the University of Pittsburgh, and proceeded on to Syracuse, New York where he completed his residency in Orthopedic Surgery. He was then Fellowship-trained in Hand and Microvascular Surgery at Harvard Medical School. Dr. Buterbaugh has been in private practice since 1985 and also actively practices on the medical staffs of several local high-profile hospitals, including multiple sites of UPMC facilities. His current academic appointment is Clinical Associate Professor, Department of Orthopedic Surgery at the University of Pittsburgh School of Medicine.

### Medical Experience

|   |               |
|---|---------------|
| Medical Director<br>Western PA Surgery Center, Pittsburgh, PA | 1999-Present  |
| Allegheny General Hospital, Pittsburgh, PA                    | 1985-Present  |
| Children's Hospital of Pittsburgh of UPMC, Pittsburgh, PA     | 1985-Present  |
| UPMC Presbyterian, Pittsburgh, PA                             | 1986-Present  |
| UPMC Passavant, Pittsburgh, PA                                | 1986-Present  |
| UPMC Mercy, Pittsburgh, PA                                    | 1986-Present  |
| UPMC Shadyside, Pittsburgh, PA                                | 2000-Present  |
| UPMC St. Margaret, Pittsburgh, PA                             | 2000-Present  |
| UPMC Passavant Cranberry, Cranberry Twp., PA                  | 2002- Present |
| St. Francis Health System, Pittsburgh, PA                     | 1986-2001     |

## Clinical Consulting

**Corazon, Inc.**

**2011-Present**

**Medical Advisor, Orthopedics**

Provides consultation to hospitals and health systems across the country for the implementation or development of stand-alone or hospital-based ortho programs. Participates in site visits to present to Boards, hospital leadership, and/or internal and external stakeholders on the clinical, operational, and financial aspects of best practice ortho services. Provides expertise and opinions on procedures and commentary about current industry trends, medical advances, and new technology in his area of specialty.

**Hand Surgeon Consultant**

**1992 – Present**

**Pittsburgh Penguins Hockey Club**

**Physician Advisor**

**1996 – Present**

**Highmark Blue Cross/Blue Shield**

**Hand Surgeon Consultant**

**2002 – Present**

**Pittsburgh Steelers**

## Education

Bachelor of Science Degree, Summa Cum Laude

University of Pittsburgh

Pittsburgh, PA

Medical Degree, Cum Laude

University of Pittsburgh

Pittsburgh, PA

### *Post-Graduate Training*

Internship in General Surgery

UPMC Mercy

Pittsburgh, PA

Residency in Orthopedic Surgery

State University of New York

Upstate Medical Center

Syracuse, NY

Fellowship in Hand Microvascular Surgery

Harvard Medical School

Massachusetts General Hospital

Boston, MA

## Licensure and Board Certification

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|------|---|
| 1980 | New York State Medical License  |
| 1984 | Massachusetts Medical License   |
| 1985 | Pennsylvania Medical License  |
| 1980 | Diplomat of the National Board of Medical Examiners   |
| 1987 | Diplomat – American Board of Orthopedic Surgery   |
| 1989 | Certificate of Added Qualification in Hand Surgery, American Board of Orthopedic Surgery<br>(Completed re-certification in 2008.) |

## Professional Memberships

Allegheny County Medical Society  
American Medical Association  
Boston Hand Club  
Interstate Orthopedic Society  
Massachusetts General Hospital Hand Club  
Pennsylvania Orthopedic Society  
Pittsburgh Hand Club  
University of Pittsburgh Alumni Association

## Publications

"A Student Developed and Operated Preceptorship Experience: The Western Pennsylvania Health Preceptorship Program"; Glenn A. Buterbaugh, M.D.; Nancy K. Alberts, M.D.; and Joel H. Merenstein, M.D. Published in: The Proceedings of A National Workshop on Medical Preceptorships, October 1977.

"Other Carpal Fractures"; Glenn A. Buterbaugh, M.D., Andrew K. Palmer, M.D. The Hand and Upper Limb, Fractures of the Hand and Wrist; Nicholas Barton, Editor, November 1987.

"The Function and Kinesiology of the Thumb"; Richard J. Smith, M.D., Glenn A. Buterbaugh, M.D. Published in: The Hand and Upper Limb, Volume II, 1994.

"Incomplete Anterior Interosseous Nerve Palsy Following Spinal Surgery"; Stephen Albanese, M.D., Glenn A. Buterbaugh, M.D., Et. Al., Spine, Volume II, Number 10, April 1986.

"Fractures and Dislocations of the Distal Radioulnar Joint"; Glenn A. Buterbaugh, M.D., and Andrew Palmer, M.D.; Hand Clinics, Peter Stern, M.D, Editor, August 1988.

"Proximal and Distal Oblique Radiography of the wrist: Value in Occult Injuries"; Richard Daffner, M.D., Glenn A. Buterbaugh, M.D. Journal of Hand Surgery, Volume 17A, No. 3, May 1992.

"Ulnar Impaction Syndrome; Treatment of Arthroscopic Removal of the Distal Ulna"; Glenn A. Buterbaugh, M.D. Techniques in Orthopaedics. Volume 7, No.1, March 1992.

"Triangular Fibrocartilage Complex Injury and Ulnar Wrist Pain"; Glenn A. Buterbaugh, M.D. Published in: Hand Knowledge Update, 1994, Chapter II, Volume I.

"Skeletal Radiology, A Journal of Radiology - Case Report"; Richard Daffner, M.D., Girja Nathan, M.D., Glenn Buterbaugh, M.D.; Pathology and Orthopaedics Volume 23, No. 5, July, 1994.

"Radiocarpal Arthroscopy Portals and Normal Anatomy"; Glenn A. Buterbaugh, M.D.; Hand Clinics, Volume 4, November 1994.

"Ulnar-sided wrist pain in athletes"; Glenn A. Buterbaugh, M.D., Timothy R. Brown, M.D., Paul C. Horn, M.D.; Clinic in Sports Medicine. Volume 17, Number 3, July 1998

"Outcomes of Digital Sympathectomy for Vascular Insufficiency in the Hand", Balk ML, Hagberg WC, Buterbaugh GA, Imbriglia JE. Accepted for publication, American Journal of Orthopedics, 2004.

"Outcome of Surgery for Lateral Epicondylitis (Tennis Elbow): Effect of Worker's Compensation," Balk ML, Hagberg WC, Buterbaugh GA, Imbriglia JE. Am J of Orthopedics, March 2005, Volume XXXIV, Number 3.

"Assessing the Impact of Antibiotic Prophylaxis in Outpatient Elective Hand Surgery: A Single-Center, Retrospective Review of 8,850 Cases," Bykowski MR, Sivak WN, Cray J, Buterbaugh G, Imbriglia JE, Lee WPA. Journal of Hand Surgery, Vol 36A, November 2011.

"Recalcitrant Trigger Finger Managed with Flexor Digitorum Superficialis Resection," Husain SN, Clarke SE, Buterbaugh GA, Imbriglia JE. Am J of Orthopedics, December 2011, Volume XL, Number 12.

## **Presentations**

"Hand Transplantation", Orthopaedic & Plastic Surgery Residents and Hand Fellows, Sydney Hospital, Sydney Australia, June 18, 2011.

"Function & Kinesiology of the Thumb", Orthopaedic & Plastic Surgery Residents and Hand Fellows, Sydney Hospital, Sydney Australia, June 19, 2011.

"ASC Operations/Management – Business Operations", ASSH Pre-Course: Monthly Performance Review, Strategies for Revenue Enhancement, Strategies for Expense Control, Chicago, IL, September 17, 2003.

"Ulnar-sided Wrist Pain and Distal Radial Ulnar Joint Injuries", 5<sup>th</sup> Annual Big Sky Sports Medicine Conference, Butte, MT, June 9-10, 2001.

"Fractures of the Scaphoid and Carpal Bones", 5<sup>th</sup> Annual Big Sky Sports Medicine Conference, Butte, MN, June 9-10, 2001.

"Extensor Origin Release for Lateral Epicondylitis in Patients Receiving Workers' Compensation", American Society for Surgery of the Hand, Seattle, WA, .October 5-7, 2000

"Proximal Row Carpectomy: Long-Term Results", Japanese and American Society for Surgery of the Hand Maui, Hawaii, March 26-28, 2000.

“Kienboeck’s Disease: Results of Operative Treatment with Radial Shortening”, Japanese and American Society for Surgery of the Hand, Maui, Hawaii, March 26-28, 2000.

“The Incidence of Intrinsic Tightness Requiring Release Following a Distal Radius Fracture”, Japanese and American Society for Surgery of the Hand, Maui, Hawaii, March 26-28, 2000.

“Assessment of Intercarpal Kinematics Using Real-Time MRI”, Japanese and American Society for Surgery of the Hand, Maui, Hawaii, March 26-28, 2000.

“Kienboeck’s Disease: Results of operative Treatment with radial shortening”, Eastern Orthopaedic Association, Vienna, Austria, October 13-17, 1999.

“Proximal Row Carpectomy: Long- Term Results”, Eastern Orthopaedic Association, Vienna, Austria, October 13-17, 1999.

“Incidence of Intrinsic Tightness Requiring Release Following A Distal Radius Fracture.”, Eastern Orthopaedic Association, Vienna, Austria, October 13-17, 1999.

“Long-Term Results Of An Ulnar-Based Dorsal Capsulodesis For Scapholunate Instability”, Eastern Orthopaedic Association, Vienna, Austria, October 13-17, 1999.

“Assessment Of Intercarpal Kinematics In Radial And Ulnar Deviation Using Real-Time MRI”, Eastern Orthopaedic Association, Vienna, Austria, October 13-17, 1999.

“Active Kinematics In The Upright Cervical Spine As Demonstrated By Real-Time Magnetic Resonance Imaging”, Eastern Orthopaedic Association, Vienna, Austria, October 13-17, 1999.

“Assessment of Intercarpal Kinematics in Radial and Ulnar Deviation Using Real-Time MRI”, American Society for Surgery of the Hand, Boston, MA, September 2-4, 1999.

“Small Joint Arthroscopy”, German-American Hand Teleconference, Buffalo, NY, July 9, 1999.

“Business Symposia”, Moderator, American Society for Surgery of the Hand, Minneapolis, MN, September 10-12, 1998.

“Surgical Techniques in Rheumatoid Arthritis”, American Academy of Orthopaedic Surgeons, Annual Meeting, Instructional Course Faculty, Atlanta, GA, February 22-26, 1996.

“Treatment of Ulnar Wrist Pain in the Athlete”, Course Co-Director, Sports & Recreational Injuries. Tactics for Prevention and Treatment, Breckenridge, CO, March 27-30, 1996.

“Shoulder Injuries - Determining the Source of Pain”, Course Co-Director. Sports & Recreational Injuries. Tactics for Prevention and Treatment, Breckenridge, CO, March 27-30, 1996.

“Burners, Stingers and Other Upper Extremity Nerve Problems”, Course Co Director, Sports & Recreational Injuries. Tactics for Prevention and Treatment, Breckenridge, CO, March 27-30, 1996.

"Arthroscopic Evaluation and Treatment of Chronic Wrist pain", Annual Clinical Assembly of Osteopathic Specialists, New Orleans, LA, September 16, 1995.

"Clinical Controversies in Hand Surgery", American Society for Surgery of the Hand 50th Annual Meeting, San Francisco, CA, September 13, 1995.

"Fracture and Dislocations of the Hand and Wrist", Trauma Tactics, 1995, Steamboat, CO, March 1995.

"Neurologic Injuries to the Upper Extremity", Trauma Tactics, 1995, Steamboat, CO, March 1995.

"Ulnar Impaction Syndrome and Central Perforation Tears of the TFCC", American Society for Surgery of the Hand, Wrist Arthroscopy Course, Birmingham, AL, October 1, 1994.

"Cadaver Demonstration of Arthroscopic TFCC Debridement of the Wrist", American Society for Surgery of the Hand, Wrist Arthroscopy Course, Birmingham, AL, October 1, 1994.

"Career Opportunities in Hand Surgery", Moderator - 1994 Residents and Fellow Conference, American Society for Surgery of the Hand, Cincinnati, OH, October 26-29, 1994.

"Media Training Session", Co-Chairman - American Society for Surgery of the Hand, Cincinnati, OH, October 26-29, 1994.

"Results of Ulnar Shortening in the Ulnar Impaction Syndrome", American Academy of Orthopaedic Surgeons Meeting, New Orleans, LA, February 1994.

"The Evaluation and Treatment of Major Upper Extremity Trauma", Pittsburgh Chapter of the National Association of Orthopaedic Nurses, Pittsburgh, PA, October 1993.

"Flexor Tendon Injuries", ASSH Regional Review Course, Erie, PA, October 1993.

"Hand Trauma", Trauma Tactics - Emergency Room Personnel and Trauma Surgeons, Pittsburgh, PA, March 1993.

"Flexor Tendon Injuries", ASSH Regional Review Course, Pittsburgh, PA, October 1992.

"Evaluation and Treatment of Neurovascular Injuries Associated with Humeral: Shaft Fractures", The Second Annual Bonesetters Conference, Pittsburgh, PA, June 1992.

"CMC Fractures and Dislocations", American Academy of Orthopaedic Surgeons, Injury to the Hand and its Sequelae, Pittsburgh, PA, May 1992.

"Indications for Wrist Arthroscopy", International Society for Surgery of the Hand, Paris, France, May 1992.

"Treatment of Serratus Anterior Palsy with Pectoralis major Transfer" International Society for Surgery of the Hand, Paris, France, May 1992.

"Radial Instability of the Thumb Metacarpophalangeal Joint: Surgical", Pathology and Therapeutic Results, American Society for Surgery of the Hand, 46th Annual Meeting, Orlando, FL, October 1991.

“Treatment of Hand and Upper Extremity Trauma: Fractures of Hand and Wrist”, Trauma Tactics - Emergency Room & Trauma Surgeons, Park City, UT, February 1991.

“Diagnostic and Therapeutic Efficacy of Wrist Arthroscopy”, American Society for Surgery of the Hand, Toronto, Canada, September 1990.

“The Surgical Management of SLAC Wrist: Proximal Row Carpectomy vs. Scaphoid Excision with Four Bone Fusion”, American Society for Surgery of the Hand, Toronto, Canada, September 1990.

“Radial Scapholunate Fusion”, American Society for Surgery of the Hand, Toronto, Canada September 1990.

“Results of Upper Extremity Replantation”, Trauma Tactics 1990, Park City, UT, February 26 - March 2, 1990.

“Perioperative Complications of Major Limb Replantation and Revascularization”, American Society for Surgery of the Hand 44th Meeting, September 13-16, 1989.

“Dorsal Capsulodesis for Scapholunate Instability”, American Society for Surgery of the Hand 44th Meeting, September 13-16, 1989.

“Principles of Fracture Management”, Skeletal Radiology 1989, Phoenix, AZ, March 1989.

“Clinical/Surgical Approach to Ligamentous Instability of the Wrist”, Skeletal Radiology 1989, Phoenix, AZ, March 1989.

“Clinical/Surgical Approach to Fractures and Dislocations of the Hand and Wrist”, Skeletal Radiology 1989, Phoenix, AZ, March 1989.

“Fractures and Dislocations Distal Radioulnar Joint”, American Academy of Orthopaedic Surgeons, Annual Meeting, Atlanta, GA, February 1988.

“Carpal Bone Fractures”, Upstate Medical Center, Alumni Day Meetings, Syracuse, NY, June 1986.

“The Evaluation and Treatment of Hand Injuries”, Post-graduate Course in Emergency Medicine, Harvard Medical School, Massachusetts General Hospital, May 1985.

“Triquetral-Hamate Joint Instability”, The Third Annual Residents' and Fellows, Hand Surgery Conference, Las Vegas, NV, January 1985.

“Lunate Load Fractures: A Clinical and Biomechanical Study”, The Second Annual Residents' and Fellows', Hand Surgery Conference, Atlanta, GA, February 1984.

“A Student Developed and Operated Preceptorship Experience”, The Western Pennsylvania Health Preceptorship Program, A National Workshop on Medical Preceptorships, Madison, WI, October 1977.