

## CURRICULUM VITAE

5-1-18

### PERSONAL INFORMATION

Name John M. Rayhack, M.D.

Business Address The Wrist and Hand Center of Tampa  
4728 N Habana Avenue - Suite 204  
Tampa, Florida 33614

Business Telephone (813) 879-7478

Birth date: November 10, 1950  
Birthplace: Passaic, New Jersey  
Marital Status: Married, two children

### TRAINING AND EDUCATION:

College: Bucknell University, Lewisburg, Pennsylvania  
B.A. Chemistry - May 28, 1972

Medical School: New Jersey Medical School  
Newark, New Jersey  
M.D., July 1, 1978

Residency: General Surgery  
New Jersey Medical School  
Newark, New Jersey  
July 1, 1978 - June 30, 1979

Orthopedic Surgery  
University of South Florida College of Medicine  
Tampa, Florida  
July 1, 1979 - June 30, 1983

Fellowship: Hand and Microvascular Surgery  
Mayo Clinic  
Rochester, Minnesota  
June 25, 1983 - June 30, 1984

Faculty Position: Assistant Professor of Orthopedic Surgery  
University of Kansas Medical Center  
Kansas City, Kansas  
July 1, 1984 - June 30, 1985

Associate Professor of Orthopedic Surgery  
University of South Florida College of Medicine  
Department of Orthopedics and Rehabilitation  
Division of Hand and Microsurgery

Tampa, Florida July 1, 1985 - August 7, 1989

Clinical Associate Professor of Orthopedic Surgery  
University of South Florida College of Medicine  
Department of Orthopedics and Rehabilitation  
Tampa, Florida August 8, 1989 - March 7, 1991

Clinical Associate Professor of Orthopedic Surgery  
University of South Florida College of Medicine  
Department of Orthopaedics and Rehabilitation  
Tampa, Florida - March 7, 1991 - January 1995

**BOARD CERTIFICATION:**

Orthopedic Surgery, July 26, 1986  
Written: Pass - 84th percentile  
Oral: Pass

**BOARD RECERTIFICATION:**

Orthopedic Surgery, July 1996  
Practice Based Oral: Pass

Orthopedic Surgery July 2006  
Practice Based Oral: Pass

Orthopedic Surgery, July 2015  
Practice Based Oral: Pass Valid to December 31, 2026

**MAINTENANCE OF CERTIFICATION:**

Participating in MOC and current.  
American Board of Orthopedic Surgery

**TRUSTEE:**

Appointed Trustee:  
Foundation of the American Society for Surgery of the Hand  
September 2006. - September 2008

**CERTIFIED EXPERT MEDICAL EXAMINER:**

Certified: October 19, 2012  
Valid Through October 31, 2018

**SOCIETY MEMBERSHIPS:**

Mayo Clinic Hand Club      Membership  
July 1, 1984

Fellow of the  
American Academy Of      Membership  
Orthopedic Surgeons      February 4, 1988

American Society For      Membership  
Surgery of the Hand      September 14, 1988

Florida Hand Society            Membership - 1986

Florida Orthopedic Society    Membership renewal January 2007

Kiros Society For                President [1988-1993] and Founder  
Hand Research                    Membership-September 1988

International Wrist Investigators    Membership - 1998

HONORS/AWARDS:

Omicron Delta Kappa-Men's Leadership Honorary Society, Bucknell University, Lewisburg, Pennsylvania, 1971.

University of South Florida College of Medicine - 1st. Prize, Student & Resident Research Award-1983. "A Strain Recording Model-Analysis of Transverse Osteotomy Fixation in Small Bones".

Florida Orthopedic Society - 1st. Prize, Resident Presentation Award, October 1979. "Flexor Tenosynovitis-An Analysis of Etiological Factors and Treatment Procedures".

American Society for Surgery of the Hand - Science and Industry Exhibit. Best Presentation, Toronto, Canada, September, 1990. "Oblique vs. Transverse Ulnar Shortening Osteotomy - A Clinical and Biomechanical Study".

Elected to Who's Who of American Inventors 1992-1993 for U.S. Patent #5042983 "Precision Bone Cutting Guide".

Elected to The Best Doctors in America 2003. Tampa Bay Metro Magazine August/September 2003.

Elected to The Best Doctors in America 2004, Tampa Bay Metro Magazine, August 2004.

Elected to The Best Doctors in America 2005. Tampa Bay Metro Magazine, August 2005.

Elected to The Best Doctors in America 2006. Tampa Bay Metro Magazine, August 2006.

Elected to The Best Doctors in America 2007. Tampa Bay Metro Magazine, August 2007.

Elected to The Best Doctors in America 2008. Tampa Bay Metro Magazine, August 2008.

Elected to The Best Doctors in America 2009. Tampa Bay Metro Magazine, August 2009.

Elected to The Best Doctors in America 2010. Tampa Bay Metro Magazine, August 2010.

Elected to The Best Doctors in America 2011. Tampa Bay Metro Magazine, August 2011.

Elected to The Best Doctors in America 2012. Tampa Bay Metro Magazine, August 2012.

Elected to The Best Doctors in America 2013 Tampa Bay Metro Magazine, August 2013.

Elected to The Best Doctors in America 2014 Tampa Bay Metro Magazine, August 2014

Elected to The Best Doctors in America 2015 Tampa Bay Metro Magazine, August 2015

Elected to The Best Doctors in America 2016 Tampa Bay Metro Magazine, December 2015 January 2016 #1 Hand Surgery

Elected to The Best Doctors in America 2017 Tampa Bay Metro Magazine, December 2016 January 2017 #1 Hand Surgery

Elected to The Best Doctors in America 2018 Tampa Bay Metro Magazine, December 2017 January 2018 #1 Hand Surgery

#### CIVIC AND PUBLIC SERVICE ACTIVITIES:

Habitat for Humanity -Volunteer

#### NATIONAL COMMITTEES:

Hand Therapy Committee - American Society for Surgery of the Hand, 1990-91

Residents' and Fellows' Conference Committee - American Society for Surgery of the Hand - 1990-91

Wrist Terminology Committee - American Society for Surgery of the Hand - Wrist Investigators - July, 1990

Computer Uses Committee - American Society for Surgery of the Hand - 1990-1995

Clinical Assessment Committee- American Society for Surgery of the Hand

STATE LICENSE:

Florida	34738 - June 29, 1979 (active)
Minnesota	27965 - August 6, 1983 (Inactive)
Kansas	20783- (Inactive)

INVENTIONS AND PATENTS:

<u>Bone Compression And Distraction Device</u> United States Patent #4,929,247	Issued May 29, 1990
<u>Precision Oblique Ulnar Osteotomy Guide</u> United States Patent #5,042,983	Issued August 27, 1991
<u>Precision Bone Cutting Guide</u> United States Patent #5,176,685	Issued January 5, 1993
<u>Radial Malunion Distractor System</u> United States Patent # 6,007,535	Issued December 28, 1999
<u>"Pass Through"™ Plate Bender</u>	May, 1994
<u>SUPerPRO™ Pronation-Supination</u> <u>Measurement Goniometer</u>	June 1993
<u>Hand Center Program</u> Electronic Medical Record System	August 1991

PUBLICATIONS:

Rayhack, J. and Machiedo. G.W.: The Shunt Equation- A Simplified Form. J. Cardio. Puim.Tech. 8: 68-74, 1980.

Schulak DJ, Rayhack JM, Lippert FG, Convery FR: The erythrocyte sedimentation rate in orthopaedic patients. Clinical Orthop: 167-197, 1982.

Rao JP, Banzon MT, Weiss AB, Rayhack JM: Treatment of unstable intertrochanteric fractures with anatomic reduction and compression hip screw fixation. Clinical Orthop; 175:65, 1983.

Rayhack JM, Belsole RJ, Skelton WH: A strain recording model: Analysis of transverse osteotomy fixation in small bones. J Hand Surgery; 9A:383,1984.

Rayhack JM: Flexor origin syndrome. Highlights Issue of the 51st. Annual meeting of American Academy of Orthopedic Surgeons, 7, 1984.

Belsole RJ, Hilbelink DR, Llewellyn JA, Dale M, Stenzler S, Rayhack JM: Scaphoid orientation and location from computed three dimensional carpal models. Orthop Clinical North Am; 17:505, 1986.

Rayhack JM, Belsole RJ, Skelton WH: A strain recording model: Analysis of transverse osteotomy fixation in small bones. In: Dobyns JH, Chase RA, (Editors): Year Book of Hand Surgery, Chicago, Year Book Medical Publishers: 269-271, 1986.

Rayhack JM: Ulnar translation of the carpus. Orthop News; 9:7, 1987.

Quinn SF, Belsole RJ, Greene TL, Rayhack JM, Clark RA, Kimp P: Double Compartment Wrist Arthrography. Proceedings 73rd. Scientific Assembly of the Radiological Society of North America, November 1987.

Quinn SF, Pittman CC, Belsole RJ, Greene TL, Rayhack JM, Digital subtraction wrist arthrography: Evaluation of multi-compartment techniques. AJR 151 (6):1173-4, December 1988.

Quinn SF, Belsole RJ, Greene TL, Rayhack JM: CT evaluation of wrist fractures. CRC Crit Reviews Diagnostic Imaging, 1988.

Pitman CC, Quinn SF, Belsole RJ, Greene TL, Rayhack JM: Digital wrist arthrography: Use of double contrast technique as a supplement to single contrast arthrography. Skeletal Radiology; 17:119-122, 1988.

Bodne D, Quinn SF, Murray WT, Greene TL, Rayhack JM: Imaging foreign glass and wooden bodies of the extremities with CT and MRI. JCAT;12.4:608-611, 1988.

Quinn SF, Belsole RJ, Green TL, Rayhack JM: Post arthrography computed tomography of the wrist: evaluation of the triangular fibrocartilage complex. Skeletal Radiol 1989; 17(8):565-569.

Rayhack JM: "Ulna-radial K-wire fixation of distal radial fractures. Florida Orthopaedic Society Journal; VII:12, 1989.

Rayhack JM, Langworthy JH, Belsole RJ: Ulnar radial percutaneous pinning of displaced distal radial fractures: A preliminary report. J Orthop Trauma. 3(2):107-114, 1989.

Quinn SF, Belsole RJ, Greene TL, Rayhack JM: CT of the wrist for the evaluation of traumatic injuries. Crit Rev Diag Imag 29:357, 1989.

Seleznick M, Aguilar JL, Rayhack JM, Fenske N, Espinoza LR: Polyarthritis associated with cutaneous T Cell Lymphoma. J Rheumatology, 16:1379-1382, 1989.

Rayhack JM: Pronator Compression Test: A New Sign of Carpal Tunnel Syndrome. Florida Orthopaedic Society Journal; VII:3, 21, 1989.

Rayhack JM, Bottke CA: Intraosseous Compression Wiring of Displaced Articular Condylar Fractures. J Hand Surg, 51A(2):370-373, 1990.

Belsole RJ, Quinn SF, Greene TL, Rayhack JM, Beatty ME: Digital subtraction arthrography of the wrist. J Bone Joint Surg, 72-A:846, 1990.

Rayhack JM: Evaluation of adolescent wrist injuries. J Florida Orthop Soc, August 1990.

Cooney WP, Rayhack JM, Melone C, Hastings H, Agee J: Management of intraarticular fractures of the distal radius. Symposium, Contemporary Orthopaedics. 21:71-102, 1990

Sanford E, Acosta R, Rayhack JM, Brzonka R, Persky L: Management of auto-emasculation in the psychotic state. J Urology, 145:560-62, March 1991.

Rayhack JM, "Ulnar Impaction Syndrome: Treatment By Precision Oblique Ulnar Shortening". Techniques Orthop. 7(1): 49-57, 1992.

Rayhack JM, Precision Oblique Ulnar Shortening Osteotomy, Video Journal of Orthopedics, April, 1992.

Rayhack JM, Gasser, S: Precision Oblique Osteotomy for Shortening of the Ulna. J. Hand Surgery. 18A: 908, 1993.

Rayhack JM: "The History and Evolution of Percutaneous Pinning of Displaced Distal Radius Fractures". In; Orthopedic Clinics of North America, Volume 24, Number 2, pp 287-300. W.B. Saunders Company, Philadelphia. 1993

Slowik, G.M., Fitzsimmons, M. Rayhack, JM: Closed Elbow Dislocation and Brachial Artery Damage. Journal of Orthopaedic Trauma. Vol.7, No. 6, 558-561, 1993.

Rayhack, JM Not so Simple Colles' Fracture. Exploring Hand Therapy. Vol. 1, April 2001.

Rayhack, JM Technique of Ulnar Shortening. Techniques in Hand and Upper Extremity Surgery. Vol. II (1): 57-65, 2007.

#### BOOK CHAPTERS:

Rayhack JM, Langworthy J: "Hand Rehabilitation", In; Orthopaedic Rehabilitation, 2nd Edition, pp 695-709. Nichol VL and Botte NJ: Editors. Churchill-Livingston, New York.

Rayhack JM, Wood MB: "Rheumatoid Arthritis-Wrist Fusion Partial and Complete" In; The Wrist: Diagnosis and Operative Treatment, First Edition, 899-923. Cooney WP, Linscheid RL, and Dobyns JH: Editors. Mosby, St. Louis, Sept.1997

Cooney WP, Rayhack JM: "Fractures of the Distal Radial-Ulnar Joint", In; The Wrist: Diagnosis and Operative Treatment First Edition, 743-757. Cooney WP, Linscheid RL, and Dobyns JH: Editors. Mosby, St. Louis Sept .1997

Rayhack, J.M., Gasser S.I., Milne E.L., Latta L.L.: " Biomechanics of Ulnar Osteotomies and Plate Fixation- Clinical and Laboratory Performance of Bone Plates" ASTM STP 1217 J. Paul Harvey and Robert F. Games, Eds., American Society for Testing and Materials, Philadelphia, 1994.

Cooney WP, Rayhack, JM, ": "Fractures of Distal Ulna and the Radioulnar Joint", " In; The Wrist: Diagnosis and Operative Treatment, Second Edition, 893-907: Cooney WP RH Editor: Wolters Kluwer / Lippincott, Williams, and Wilkins, Philadelphia, 2010

Rayhack, JM, " Ulnar Carpal Abutment – Ulnar Shortening Osteotomy" In; The Wrist: Diagnosis and Operative Treatment Second Edition, Second Edition, 908-919: Cooney WP RH Editor; Wolters Kluwer / Lippincott, Williams, and Wilkins, Philadelphia, 2010

Rayhack JM, "Open ulnar shortening for Ulnocarpal impaction." In; Principles and Practice of Wrist Surgery." First Edition, 213-223. Slutsky DJ: Editor. Saunders/ Elsevier, Philadelphia, PA. 2010

Rayhack JM, "Radius shortening in Kienbock's disease." In; Master Techniques in Orthopaedic Surgery: The Wrist, 3rd edition, 473-484: Gelberman, RH Editor; Wolters Kluwer / Lippincott, Williams, and Wilkins, Philadelphia, 2010

Rayhack JM, Ulna shortening for impaction syndrome In: Master Techniques in Orthopaedic Surgery: The Wrist, 3rd edition, 485-497: Gelberman RH Editor: Wolters Kluwer / Lippincott, Williams, and Wilkins, Philadelphia, 2010

#### CREATIVE NON-PUBLISHED WORKS:

Medical illustrations

#### PRESENTATIONS:

Flexor tenosynovitis - An analysis of etiological factors and treatment procedures. Florida Orthopaedic Society, Amelia Island Plantation, Jacksonville Florida, October 1979.

A strain recording model: Analysis of transverse osteotomy fixation in small bones. 38th Annual Meeting American Society for Surgery of the Hand, Anaheim, California, March 7, 1983.

A strain recording model: Analysis of transverse osteotomy fixation in small bones. American Fracture Association, Clearwater, Florida, April 20, 1983.

A strain recording model: Analysis of transverse osteotomy fixation in small bones. Orthopaedic Residents - National Meeting, Washington, D.C., May 1983.



Flexor origin syndrome: American Academy of Orthopaedic Surgeons, Atlanta, Georgia, February 1984.

Ulnar translation of the carpus. American Society for Surgery of the Hand Residents and Fellows Conference, Las Vegas, Nevada, January 20, 1985.

Anatomy of the wrist. American Society for Surgery of the Hand - Regional Review Course, Tampa, Florida, September 7, 1986.

Treatment of fractures and ligament injuries of the wrist. American Society for Surgery of the Hand - Regional Review Course, Tampa, Florida, September 7, 1986

Injuries and disorders of the upper extremities. Orthopaedic Nurses Patient Care Course, Tampa, Florida, October 8, 1986.

Ulnar translation of the carpus. American Academy of Orthopaedic Surgeons - Annual Meeting, January 27, 1987.

Nursing evaluation of upper extremity surgery patients following replantation. Orthopaedic Nurses Care Course, Tampa, Florida, March 11, 1987.

Traumatic ulnar translation of the carpus. Mayo Alumni Association, Orlando, Florida, March 27, 1987.

Ulnar translation of the carpus. Florida Hand Society - Annual Meeting, Clearwater, Florida, May 22, 1987.

Ulnar translation of the carpus. Florida Orthopaedic Society, Orlando, Florida, May 23, 1987.

Open reduction of fractures of the upper extremity - implants, instruments, techniques and clinical examples. AO Course, Clearwater, Florida, June 13, 1987.

Percutaneous ulnar-radial pinning of displaced radial fractures. Academic Day, University of South Florida Department of Orthopaedic Surgery, Tampa, Florida, June 18, 1987.

Improved soft tissue coverage for 3.5 DCP fusion of the wrist. Third International Wrist Investigators, Workshop, Orlando, Florida, October 1987.

Advanced Imaging of the Wrist. (Quinn SF), Radiological Society of North America, Chicago, November 29-December 4, 1987.

Fixation of unstable distal radial fractures. Bay Pines VA Hospital Grand Rounds, St. Petersburg, Florida, March 31, 1988.

Digital subtraction wrist arthrographs - Evaluation of the multiple compartment technique. (Quinn, SF) Eleventh Annual Skeletal Symposium, Sun Valley, Idaho, February 19, 1988.

Ulnar-radial pinning of displaced radial fractures. Florida Hand Society Annual Meeting, West Palm Beach, Florida, June 3, 1988.

Cosmetic and functional results of carpal tunnel releases crossing the distal wrist crease - The antegrade approach. Florida Hand Society Annual Meeting, West Palm Beach, Florida, June 4, 1988.

Cosmetic and functional results of carpal tunnel releases crossing the distal wrist crease - The antegrade approach. Academic Day, University of South Florida Department of Orthopaedic Surgery, Tampa, Florida, June 16, 1988.

The pronation compression test - A new sign of carpal tunnel syndrome. Academic Day, University of South Florida Department of Orthopaedic Surgery, Tampa, Florida, June 16, 1988.

Digital subtraction wrist arthrographs - Evaluation of multiple compartment technique. (Belsole RJ) American Society for Surgery of the Hand Annual Meeting, Baltimore, Maryland, September 16, 1988.

Ulnar-radial pinning of displaced radial fractures. American Society for Surgery of the Hand Annual Meeting, Scientific Poster Exhibit, Baltimore, Maryland, September 16, 1988.

Functional and cosmetic results of carpal tunnel releases crossing the distal wrist crease - The antegrade approach. 43rd Annual American Society for Surgery of the Hand, Scientific Poster Presentation, Baltimore, Maryland, September 13, 1988.

Ulnar-radial percutaneous pinning of displaced distal radial fractures. Orthopaedic Trauma Association Annual Meeting, Dallas, Texas, October 29, 1988.

Dynamic compression plating of ulnar shortening osteotomies. "Wrist Investigator's Workshop", Tampa, Florida, November 2, 1988.

Closed pin fixation of distal radial fractures. "The Wrist, American Society for Surgery of the Hand, Tampa, Florida, November 3, 1988.

Difficult nonunions of the scaphoid. "Orthopaedics for the Primary Practitioner, Clearwater, Florida, November 5, 1988.

Fractures of the hand and wrist. "Orthopaedics for the Primary Practitioner, Clearwater, Florida, November 5, 1988.

Volar and dorsal wrist ganglions. "The wrist, American Society of Surgery of the Hand, Tampa, Florida, November 5, 1988.

Soft tissue masses in the hand and wrist. "Orthopaedics for the Primary Practitioner, Clearwater, Florida, November 12, 1988.

Colles' Fracture. Orthopaedic Trauma Conference, The Tampa General Hospital, Tampa, Florida, January 10, 1989.

Trans-ulnar percutaneous pinning of displaced distal radial fractures. 56th Annual Meeting, American Academy of Orthopaedics Surgeons, Scientific Poster Presentation, Las Vegas, Nevada, February 10, 1989.

Orthopaedic review for general surgery residents. University of South Florida, Tampa, Florida, February 20, 1989.

The pronator compression test: A new sign of carpal tunnel syndrome. Kiros Society for Hand Research First Annual Meeting, Snowbird, Utah, March 29, 1989.

Lunotriquetral compression wire arthrodesis. Wrist Investigator's Workshop, Paris, France, March 29, 1989.

Transulnar percutaneous pinning of displaced distal radial fractures. Symposium on the wrist. Paris, France, April 16, 1989.

The pronator compression test: A new provocative sign of carpal tunnel syndrome. Association of Bone and Joint Surgeons 41st Annual Meeting, Steamboat, Mississippi, May 15, 1989.

The pronator compression test: A new provocative sign of carpal tunnel syndrome. Florida Orthopaedic Society - Annual Meeting, Orlando, Florida, May 26, 1989.

Luno-triquetral compression wire arthrodesis. Florida Hand Society - Annual Meeting, Orlando, Florida, June 9, 1989.

Complications in hand surgery: Panel, Florida Hand Society - Annual Meeting, Orlando, Florida, June 10, 1989.

The pronator compression test: A new provocative sign of carpal tunnel syndrome. (Hoski), Academic Day, University of South Florida Department of Orthopaedic Surgery, Tampa, Florida, June 15, 1989.

Lunotriquetral compression wire arthrodesis. (Smith A), American Society for Surgery of the Hand 44th Annual Meeting. Residents and Fellows Conference. Seattle, Washington, September 12, 1989.

The pronator compression test: A new provocative sign of carpal tunnel syndrome. Scientific Poster Exhibit, American Society for Surgery of the Hand 44th Annual Meeting, Seattle, Washington, September 13, 1989.

The pronator compression test: A new provocative sign of carpal tunnel syndrome. Young Investigator's Panel, American Society for Surgery of the Hand 44th Annual Meeting, Seattle, Washington, September 13, 1989.

Transulnar pinning of displaced distal radial fractures. American Academy of Orthopaedic Surgeons 57th Annual Meeting, New Orleans, Louisiana, February 10, 1990.

Precision oblique ulnar shortening osteotomy - Abandonment of the transverse osteotomy. Kiros Society for Hand Research. Second Annual Meeting. San Diego, California, April 20, 1990.

Transverse ulnar shortening osteotomies using a new compression device and specialized slotted plate. (Seth Gasser). Florida Orthopaedic Society 1990 Annual Meeting, Captiva, Florida, April 21, 1990.

Precision oblique ulnar shortening osteotomy: A clinical and biomechanical study. Wrist Investigator's meeting. New Port Beach, California, May 15, 1990.

Comparison of oblique and transverse ulnar shortening osteotomies. Science and Industry Exhibit. American Society for Surgery of the Hand - 45th Annual Meeting, Toronto, Canada, September 24-27, 1990.

Oblique vs. transverse ulnar shortening osteotomies - A clinical and biomechanical study. American Academy of Orthopaedic Surgeons 58th Annual Meeting, Anaheim, California, March 8, 1991.

The Four Centimeter Arthrotomy Exploration of the Wrist - An Alternative to Arthroscopy? A Prospective Correlation with Triple Injection Arthrograms. Florida Orthopaedic Society, Palm Beach, Florida, May 3-5, 1991.

The Four Centimeter Arthrotomy Exploration of the Wrist - An Alternative to Arthroscopy? A Prospective Correlation with Triple Injection Arthrograms. KIROS Society for Hand Research. Third annual meeting. Florida Keys August 1, 1991.

The Discrepancy Between the Findings of the Four Centimeter Arthrotomy Exploration of the Wrist and Triple Injection Arthrograms. Seventh International Wrist Investigator's Workshop. Orlando, Florida  
October 1, 1991.

Transulnar Percutaneous Pinning of Displaced Radial Articular Fractures. American Society for Surgery of the Hand. Annual meeting Orlando, Florida  
October 3, 1991.

Medical Information Explosion-How to Cope. American Society for Surgery of the Hand. Instructional Course Lecture. Orlando, Florida October 5, 1991.

Lumps and Bumps in the Hand and Wrist. Centurion Hospital, Carrollwood, Florida  
November 11, 1991.

The 90 degree Z Incision for the Release of DeQuervain's Tenosynovitis, KIROS Society for Hand Research. Fourth Annual Meeting, San Francisco, California, April 24, 1992.

A Comparison of the SUPerPRO™ with Standard Goniometric Measurement of Forearm Rotation. (Langworthy) Florida Hand Society, Boca Raton, Florida May 9, 1992.

Ulnar Impaction Syndrome: Technique of Precision Oblique Ulnar Shortening Osteotomies, Tampa Orthopedic Program First Annual Academic Day, June 11, 1992.

Monitored Anesthesia Care With and Without Sedation - Advantages, Disadvantages, and Financial Considerations. (Bamberger) Tampa Orthopedic Program First Annual Academic Day, June 11, 1992.

Articular Fractures and Joint Injuries. American Society for Surgery of the Hand Regional Review Course, Tampa, Florida, September 12, 1992.

Principles of Tendon Transfers to the Hand. American Society for Surgery of the Hand Regional Review Course, Tampa, Florida, September 12, 1992.

Carpal Tunnel Syndrome. Brandon Lions Club, Brandon, Florida, October 1, 1992.

Precision Oblique Ulnar Shortening Osteotomy Using the ROS System. American Society for Surgery of the Hand. 47th Annual Meeting -Video Theatre, Phoenix, Arizona, November 11-14, 1992.

Precision Oblique Ulnar Shortening Osteotomy. Television Interview with Marissa Morris, WFLA Channel 8, March 9, 1993.

Sports Injuries of the Upper Extremity. Chiropractic Physician's Conference. Tampa, Florida, March 21, 1993

Hand Surgery With and Without the Use of Intravenous Sedation. Kiros Society for Hand Research. Fifth Annual Meeting. Puerto Plata, Dominican Republic, April 2, 1993.

Biomechanical Study of Ulnar Shortening: Improved Osteotomy Techniques. ASTM Symposium on Clinical Laboratory Performance of Bone Plates. Atlanta, Georgia, May 5, 1993.

Hand Surgery With and Without the Use of Intravenous Sedation. Florida Hand Society. Palm Beach, Florida, June 12, 1993.

Vascularized Grafts of the Lunate in Kienbock's disease. American Society for Surgery of the Hand - Spring Member's Meeting. Indian Wells (Palm Springs), California, March 18, 1994.

Precision Oblique Radial Shortening in Kienbock's Disease Grade 3A. American Society for Surgery of the Hand - Spring Member's Meeting. Indian Wells (Palm Springs), California. March 18, 1994.

Precision Oblique Radial Shortening in Kienbock's Disease. Mayo Hand Club Phoenix, Arizona, April 17, 1994.

Oblique Ulnar and Radial Shortening in Hand Surgery. Visiting Professor. State University of New York - Stony Brook, Orthopedic Surgery Conference, April 20, 1994.

Precision Oblique Radial Shortening in Kienbock's Disease . Kiros Society for Hand Surgery - Sixth Annual Meeting. Tucson, Arizona, May 6, 1994.

Precision Oblique Radial Shortening in Kienbock's Disease. Florida Hand Society May 20, 1994.

Precision Oblique Radial Shortening in Kienbock's Disease. ASSH Annual Meeting. Science and Industry Exhibit. Cincinnati, Ohio, October 26, 1994.

Treatment of Ulnocarpal Abutment Problems. (Live Surgical Demonstration) ASSH Annual Meeting. Cincinnati, Ohio, October 29, 1994.

Percutaneous Pinning of Radius Compression Fractures. American Academy of Orthopedic Surgeons. Orlando, Florida, February 19, 1995.

Preliminary Results of Radial Shortening in Kienbock's Disease. Florida Hand Society May 5, 1995.

Complications of Distal Radial-Ulnar Arthrodesis. Kiros Society for Hand Research. Park City, Utah March 1996

Results of Radial Shortening in Kienbock's Patients. Florida Hand Society. Orlando, FL May, 1996

Distal Radial Malunion Multi-Plane Distraction. International Wrist Investigator's Conference. Nashville, TN Sept. 30, 1996

Radial Shortening in Kienbock's Disease. Video Theater. American Society for Surgery of the Hand. Nashville, TN Sept. 30- Oct. 2, 1996

Triangular Fibrocartilage and Ulnar Impaction Tears: I Would Shorten the Ulna at the Shaft. American Academy of Orthopedic Surgeons Annual Meeting. ASSH Specialty Day, San Francisco, CA February 16, 1997

Percutaneous Pinning of Intra Articular Fractures of the Radius. American Academy of Orthopedic Surgeons Annual Meeting. San Francisco, CA February 17, 1997.

Precision Distraction of Distal Radial Malunions. Video Theater. American Society for Surgery of the Hand. Denver, CO Sept. 11-13, 1997.

Radial Malunion Osteotomies treated by a double slotted plate. Early clinical results. Third International Distal Radius Fracture Course. San Francisco, CA May 10, 1998.

Radial Malunion Osteotomies treated by a double slotted plate. Early clinical results. Kiros Society for Hand Research. Jackson Hole, WY June 12, 1998.

Osteotomies of the Distal Radius. Reconstructive Surgery of the Upper Extremity. St. Petersburg, FL June 26, 1998

The Role of Obesity in Carpal Tunnel Syndrome. Florida Hand Society Orlando, FL , May 14, 1999

The Role of Obesity in Carpal Tunnel Syndrome. Kiros Society for Hand Research Napa, California June 20, 1999

The Electronic Medical Record. Florida Hand Society, Orlando, FL May 5, 2000

Think Differently- A Guide to Inventing. Rocky Mountain Hand Society Denver, CO April 19, 2001.

Role of Occupational Therapy - A Video Presentation. Florida Hand Society Orlando, FL May 18, 2002.

Radial Malunion Distraction Lengthening - What I Have Learned. International Wrist Investigators Meeting 2003, Chicago, IL. September 17, 2003

Hand and Wrist Injuries in Baseball. Professional Baseball Trainer's Association. Spring Meeting March 6, 2004.

Hand and Wrist Injuries in Baseball. Professional Baseball Trainer's Association. Spring Meeting March 12, 2005.

Medical Innovation Symposium American Society for Surgery of the Hand Annual Meeting 2005, San Antonio, Texas. September 23, 2005.

Techniques in Orthopedic Trauma- Ulnar Shortening Osteotomy Orthopedic Learning Center, Rosemont, Illinois. September 25, 2005.

Hand and Wrist Injuries in Baseball. Professional Baseball Trainer's Association. Spring Meeting March 4, 2006.

A Biomechanical Comparison of Titanium and Stainless Steel Low Profile Locking Ulnar Shortening Osteotomy Plates and Corresponding Locking Screws to the Traditional Non-Locking Stainless Steel Ulnar Shortening Plate. International Wrist Investigators Meeting 2006. Washington, D.C. September 5, 2006.

Hands on Demonstration of Low Profile Locking Ulnar Shortening System. American Society for Surgery of the Hand. Annual Meeting, Washington, D.C. September 8, 2006.

Bringing a Medical Product from Design to Market. Guest Lecture: University of Illinois Orthopedic Residency Program Grand Rounds. Chicago, Illinois. February 13, 2007.

A Biomechanical Comparison of Titanium and Stainless Steel Low Profile Locking Ulnar Shortening Osteotomy Plates and Corresponding Locking Screws to the Traditional Non Locking Stainless Steel Ulnar Shortening Plate. Florida Hand Society. Annual Meeting, Orlando, Florida April 20, 2007.

Locking Ulnar Shortening Osteotomy Plates and Corresponding Locking Screws to the Traditional Non Locking Stainless Steel Ulnar Shortening Plate. Florida Orthopedic Society. 2007 Scientific Annual Meeting. Orlando, Florida. May 18, 2007.

The Role of Ulnar Shortening in Ulnar Impaction Syndrome, Luno-triquetral tears, and mild Distal Ulnar Arthritis. Florida Orthopedic Society. 2007 Scientific Annual Meeting. Orlando, Florida. May 18, 2007.

Radial Malunion Reconstruction Florida Hand Society. Orlando, Florida. May 3, 2008.

3D Hand Surgery. University of South Florida Department of Orthopedics - Grand Rounds. August 8, 2008

Office Management Techniques From Large to Small: What Works for Me -Instructional Course Lecture. American Society For Surgery of the Hand Annual Meeting, September 18, 2008

Distal Ulnar Osteotomy Upper extremity workshop and symposium. Second Annual Meeting - Yale University and University of Connecticut. New Haven, CT. November 1, 2008.

Latta, L et al Rayhack, J.: Biomechanics of Ulnar Osteotomy Fixation Comparing 5 Designs of Plates and Screws (Poster ORS2009-2251) Orthopedic Research Society 55th Annual Meeting. Las Vegas, Nevada February 22-25, 2009

Ulnar Shortening and Radial Shortening for Kienbock's Disease. Orthopedic Learning Course American Academy of Orthopedic Surgeons Chicago, IL. May 2009.

Rayhack Osteotomy Systems- cadaveric presentation. Wrist and Elbow Symposium. Huntsville, AL. June 11, 2009.

Evaluation of instability problems of the distal forearm and carpus. University of South Florida Orthopedic Department Resident Teaching Conference, June 19, 2009.

Rayhack Osteotomy Systems- cadaveric presentation. Wrist and Elbow Symposium. Memphis, TN. July 24, 2009.

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What elbow, wrist, and hand conditions require consultation by a specialist? Community Lecture Series. St Joseph's Hospital North. Tampa, FL June 23, 2011.



What is the significance of calcium deposition in the soft tissues of the wrist and hand?  
Tampa Hand Club. Florida Orthopedic Institute. Tampa, FL April 5, 2012.

Common Wrist and Hand Disorders.  
St. Joseph's Hospital. Tampa, FL October 20, 2015

GRANTS:

BRSB Grant 5 507 RR 05749

Biomedical Research Support Grant Program Division of Research Resources National  
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Research: A Strain Recording Model - Analysis of Transverse Osteotomy in Small  
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\$3,000 Completed 1981.

BASIC CPR CERTIFICATION:

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