

Curriculum Vitae
William Thomas Pennington, M.D.

Address

The Orthopedic Institute of Wisconsin
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Franklin, WI 53132
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Postgraduate Training

Orthopedic Surgery Residency Training
Medical College of Wisconsin
Department of Orthopedic Surgery
Milwaukee, Wisconsin
July 1, 1994 to June 30, 1999
Honors: Elected administrative chief Orthopaedic
resident 1998-1999.

Shoulder and Knee Reconstruction Fellowship Program
Eugene M. Wolf, M.D.
California Pacific Medical Center
San Francisco, California
August 1, 1999 to June 30, 2000

Board Certified American Board of Orthopedic Surgery.
Expires 12/31/2022

Subspecialty Certification in Orthopaedic Sports Medicine
by the American Board of Orthopaedic Surgery. Expires
12/31/2021.

Medical Education

Medical College of Wisconsin
Milwaukee, Wisconsin
M.D. Degree May, 1994
Honors: Elected to the Wisconsin Beta Chapter
of Alpha Omega Alpha Medical Honor Society

Undergraduate Education

University of Wisconsin, Madison, Wisconsin
Major Field: Pharmacology & Toxicology
Degree: Bachelor of Science, May, 1990
Honors: Elected member of Phi Kappa Phi and
Rho Chi Honor Societies

Graduate Education	University of Southern California School of Price and Policy, Los Angeles, California. Graduate Degree: Executive Masters Healthcare Administration. Pending May 2020.
Professional Appointments	Clinical Instructor of Orthopaedic Surgery Medical College of Wisconsin Milwaukee, WI Awarded Clinical Instructor of the year award. June, 2008
Medical Licensure	Wisconsin 1998- present Florida 2018- present
Professional Awards	Elected to Top Doctors List of Orthopedic Surgeons, Milwaukee Magazine: 2012, 2015, 2016, 2017, 2018 Received Healthcare Hero Award, Milwaukee BizTimes-December, 2011
Memberships	Diplomate, American Board of Orthopaedic Surgeons American Academy of Orthopaedic Surgeons Mid-American Orthopaedic Association American Medical Association State Medical Society of Wisconsin Milwaukee Orthopaedic Society American College of Sports Medicine Florida Medical Association
Sites of Practice	Midwest Orthopedic Specialty Hospital Franklin, WI The Surgery Center at Associated Surgical & Medical Specialists, Franklin, WI Wheaton Franciscan Health Care- St Francis Hospital Milwaukee, WI Wheaton Franciscan Health Care- Franklin Hospital Franklin, WI Wheaton Franciscan Health Care- St. Joseph's Outpatient Wauwatosa, WI

Committee Positions Held:

Chief of Staff, Midwest Orthopedic Specialty Hospital,
January 1, 2018 to Present

Vice Chief of Staff, Chief of Staff Elect, Midwest
Orthopedic Specialty Hospital, January 1, 2017 to
December 31, 2018.

Vice President, Orthopedic Institute of Wisconsin,
September 2016 to present.

Executive Board Member, The Surgery Center at
Associated Surgical & Medical Specialists, January 2012 to
present.

Vice Chief of Staff, Midwest Orthopedic Specialty
Hospital, July 2010 to 2013

Orthopedic Care Committee, Midwest Orthopedic Special-
ty Hospital, Physician Representative, July 2015 to
present.

Operations Committee, Midwest Orthopedic Specialty
Hospital, August 2009 to present

Pharmacy and Therapeutic Committee, Midwest
Orthopedic Specialty Hospital, August 2009 to December
2011

Operations Committee The Surgery Center at Associated
Surgical & Medical Specialists, January 2008 to December
2011.

Finance Committee, The Surgery Center at Associated Sur-
gical & Medical Specialists. January 2005 to December
2008.

Community Positions

Board of Trustees, University School of Milwaukee.
September 2011 to 2014.

Muscular Dystrophy Association Milwaukee Chapter
Steering Committee Member for Black and Blue Ball.
September 2016 to Present.

Publications

Book Chapters

Superior Capsular Reconstruction- The Next Frontier. William T. Pennington, MD and Steven Chen in Premier Approaches to Arthroscopic Rotator Cuff Repair. John D. Kelly, Slack Inc., Currently in press.

Arthroscopic Management of Posterior Glenohumeral Instability. Eugene M. Wolf, M.D. and William T. Pennington, M.D. In **An Atlas of Shoulder Arthroscopy**, Editors F.Fu, M.D.; A. Imhoff, M.D. and J. Ticker, M.D. Martin Dunitz, 2003, 175-180

Peer Review Articles

Arthroscopic Superior Capsular Reconstruction with Acellular Dermal Allograft Utilizing a Push- In Anchor Technique. William T. Pennington, M.D., Brian A. Bartz, PA-C, Joann M. Pauli, PA-C, Steven Chen. Currently Accepted for publication in *Arthroscopy Techniques*, August, 2018.

Arthroscopic Superior Capsular Reconstruction with Acellular Dermal Allograft for the Treatment of Massive Irreparable Rotator Cuff Tears in : short- term clinical outcomes and the radiographic parameter of superior capsular distance. William T. Pennington, M.D., Brian A. Bartz, P.A.-C., Joann M. Pauli, P.A.-C., Carol E. Walker, B.A., William Schmidt B.S.

Arthroscopy: The Journal of Arthroscopic and Related Related Surgery, Vo. 34, No 6 (June), 2018: pp 1764-1773.

Comparative Analysis of Single Row vs Double Row Repair of Rotator Cuff Tears. William T. Pennington, M.D.; David J Gibbons, M.D.; Brian A. Bartz, Pa-C; Jonathon Klinger, B.S., Maggie Dodd, MPT, James Daun, MPT, Brian Butler. *Journal of Arthroscopy and Related Research*. 2010 November; 26(11): 1419- 1426.

Arthroscopic Posterior Labral Repair in Athletes: Outcome Analysis at 2-Year Follow-up. William T. Pennington, M.D.; Mark J. Sytsma, M.D.; David J Gibbons, M.D.; Brian A. Bartz, Pa-C; Maggie Dodd, MPT; Jamie Daun, MPT; Jonathon Klinger, B.S. *Journal of Arthroscopy and Related Research*. 2010 September; 26(9): 1162-1171.

Arthroscopic Coracoclavicular Ligament Reconstruction Utilizing Biologic and Suture Fixation. William T. Pennington, M.D.; David Hergan, M.D.; Brian A. Bartz, PA-C. *Journal of Arthroscopic and Related Surgery*. 2007 July; 23(7):785.

Arthroscopic Glenoid Resurfacing with Meniscal Allograft: A Minimally Invasive Alternative for Glenohumeral Arthritis. William T. Pennington, M.D. and Brian A. Bartz, PA-C. *Journal of Arthroscopic and Related Surgery*. 2005 Dec; 21(12) 1517- 1520.

Purely Arthroscopic Repair of Rotator Cuff Pathology Utilizing a Side to Side Suturing Technique. Long- Term Clinical Results. Eugene, M. Wolf, M.D. and William T. Pennington, M.D. *Journal of Arthroscopic and Related Surgery*. 2005 Jul;21(7):881-7.

Arthroscopic Rotator Cuff Repair: 4 to 10 year Results., Eugene M. Wolf, M.D. and William T. Pennington, M.D. *Journal of Arthroscopic and Related Surgery*, 20(1):5-12, 2004.

The Effect of the Forearm Support Band on Forces at the Origin of The Extensor Carpi Radialis Brevis: A Cadaveric Study and Review of the Literature. Nicholas J. Meyer, M.D.; William T. Pennington, M.D.; Barb Haines, OTR, CHT; and Roger Daley, M.D., PhD. *Journal of Hand Therapy*, 15(2):179-84, 2002.

Arthroscopic Repair of Acromioclavicular Joint Dislocation. A Technique Paper. Eugene M. Wolf, M.D. and William T. Pennington, M.D. *Journal of Arthroscopic and Related Surgery* ,17(5):558-563, 2001.

Photopenic Osteomyelitis: A Clinical Perspective. William T. Pennington, M.D.; Michael P. Mott, M.D.; John G. Thometz, M.D. and John R. Sty, M.D. *Journal of Pediatric Orthopaedics*, 19(6): 695-8, 1999.

Presentations

National

Cold Bone Scan Osteomyelitis: A Clinical Perspective
Pediatric Orthopaedic Society of North America annual meeting. May, 1997.

Cold Bone Scan Osteomyelitis: A Clinical Perspective.
Poster exhibit for American Academy of Orthopaedic
Surgeons Annual Meeting, New Orleans, LA., March,
1998.

Cerebral Fat Embolism Syndrome: A Case Report
William T. Pennington, M.D.; Gregory J. Schmeling, M.D.;
Nicholas Meyer, M.D.; James Wallace, M.D.
Henry Meyerding resident essay contest award recipient for
the American Fracture Association annual meeting 1998.

Flexion Osteotomy for Deformity Correction in Severe
Slipped Capital Epiphysis. William T. Pennington, M.D.;
Roger M. Lyon, M.D.; Michael B. Millis, M.D.; Timothy
Hresko, M.D.; James Mooney, M.D.
Poster presentation at The American Academy of
Orthopaedic Surgeons Annual Meeting, Anaheim, CA,
February, 1999.

Arthroscopic Rotator Cuff Repair: Long Term Clinical
Results. Eugene M. Wolf, M.D. and William T.
Pennington, M.D.. 3rd Biennial Shoulder and Elbow
Meeting, Orlando, FL, April 2002.

Arthroscopic Rotator Cuff Repair: Long Term Clinical
Results. Eugene M. Wolf, M.D., William T. Pennington,
M.D. and Vivek Agrawal, M.D. Arthroscopy Association
of North America Spring Meeting, Washington D.C., April
2002.

Arthroscopic Rotator Cuff Repair Utilizing A Side to Side
Suturing Technique. Eugene M. Wolf, M.D., William T.
Pennington, M.D and Vivek Agrawal, M.D. Computer
Presentation at the Arthroscopy Association of North
America Spring Meeting, Washington D.C., April 2002.

Technique and Results of Arthroscopic Coracoclavicular
Reconstruction. Eugene M. Wolf, M.D., William T.
Pennington, M.D. and Austin T. Fragomen, M.D.
Arthroscopy Association of North America 23rd Annual
Meeting. Orlando, FL, April, 2004.

Arthroscopic Glenoid Resurfacing with Meniscal Allograft: A Minimally Invasive Alternative for Glenohumeral Arthritis. William T. Pennington, M.D. and Brian A. Bartz, PA-C. International Cartilage Repair Society 6th Symposium, San Diego, CA, January, 2006.

Arthroscopic Glenoid Resurfacing with Meniscal Allograft: Early Results. William T. Pennington, M.D. and Brian A. Bartz PA-C. Arthroscopy Association of North America 26th Annual Meeting. Hollywood, FL, May, 2006.

Arthroscopic Coracoclavicular Ligament Reconstruction Utilizing Biologic and Suture Fixation- 2 Year Results. William T. Pennington, M.D.; Brian A. Bartz PA-C. Arthroscopy Association of North America 26th Annual Meeting. San Francisco, CA, April, 2007.

Early Results for Arthroscopic Rotator Cuff Repair with Mason-Allen Configuration versus Double Row Transosseous Equivalent Technique. William T. Pennington, M.D.; Joshua Neubauer, M.D.; David Gibbons, M.D.; Brian Bartz, PA-C. Arthroscopy Association of North America 27th Annual Meeting. Washington D.C., April, 2008.

Functional Outcome and Radiographic Appearance of Single Row versus Double Row Rotator Cuff Repair. William T. Pennington, M.D.; David J. Gibbons, M.D.; Brian A. Bartz, PA-C; Jonathon E. Klinger, B.S. The American Academy of Orthopaedic Surgeons Annual Meeting. Las Vegas, NV, February, 2009.

Arthroscopic Glenoid Resurfacing: Results in Patients with Failed Previous Arthroscopic Debridement. William T. Pennington, M.D.; Joseph C. McCormick, M.D.; David J. Gibbons, M.D.; Brian A. Bartz, Pa-C; Jonathon Klinger, B.S. Arthroscopy Association of North America Annual Meeting, San Diego, CA, 2009.

Functional Outcomes and Radiographic Appearance of Single Versus Double Row Rotator Cuff Repair. William T. Pennington, M.D.; David J. Gibbons, M.D.; Brian A. Bartz, Pa-C; Jonathon Klinger, B.S. Arthroscopy Association of North America Annual Meeting, San Diego, CA, 2009.

Outcome Analysis of Arthroscopic Posterior Labral Repair in Athletes. William T. Pennington, M.D.; Mark J. Sytsma, M.D.; David J Gibbons, M.D.; Brian A. Bartz, Pa-C; Jonathon Klinger, B.S. Arthroscopy Association of North America Annual Meeting, San Diego, CA, 2009.

Correlation of Radiographic (MRI) Appearance and Clinical Outcome in Arthroscopic Rotator Cuff Repair. William T. Pennington, MD; Brian L. Butler, Jonathon Klinger, B.S.; Brian A. Bartz, Pa-C; David J. Gibbons, MD. American Academy of Orthopaedic Surgeons Annual Meeting, New Orleans, LA, March, 2010.

Superior Capsular Reconstruction for the Treatment of Massive Rotator Cuff Tears in the Active Patient: 1-2 Year Results. William T. Pennington, MD; Brian A. Bartz, PA-C; Joann M. Pauli PA- C; Carol E. Walker, B.A. Orthopedics Today Annual Meeting, Lahaina, HI, Jan 2016.

“Functional Biologic Augmentation” in Arthroscopic Rotator Cuff Repair: Concomitant Superior Capsular Reconstruction with Arthroscopic Rotator Cuff Repair to Treat Massive Atrophic Rotator Cuff Tears. William T. Pennington, MD; Brian A. Bartz, PA-C; Joann M. Pauli PA- C; Carol E. Walker, B.A. Orthopedics Today Annual Meeting, Lahaina, HI, Jan 2016.

Total Shoulder Arthroplasty with Superior Capsular Reconstruction for the Treatment of Massive Irreparable Rotator Cuff Tears in the Young Active Patient. William T. Pennington, MD; Brian A. Bartz, PA-C; Joann M. Pauli PA- C; Carol E. Walker, B.A. Orthopedics Today Annual Meeting, Lahaina, HI, Jan 2016.

Arthroscopic Superior Capsular Reconstruction for the Treatment of Massive Irreparable Rotator Cuff Tears in the Active Patient: One to Two Year Results. William T. Pennington, MD; Brian A. Bartz, PA-C; Joann M. Pauli, PA-C; Carol E. Walker, BA; William Schmidt, BS. Arthroscopy Association of North America annual meeting, Denver, CO, May, 2017.

“Functional Biologic Augmentation” in Arthroscopic Rotator Cuff Repair: Concomitant Superior Capsular Recon-

struction with Arthroscopic Rotator Cuff Repair to Treat Massive Atrophic Rotator Cuff Tears. William T. Pennington, MD; Brian A. Bartz, PA-C; Joann M. Pauli PA-C; Carol E. Walker, B.A., William Schmidt, B.S. Arthroscopy Association of North America annual meeting, Denver, CO, May, 2017.

Superior Capsular Reconstruction with Acellular Dermal Allograft: Applications and Early Outcomes. American Osteopathic Academy of Orthopedic Surgeons Annual Meeting, Chicago, IL, October, 2017.

Regional

Cold Bone Scan Osteomyelitis: A Clinical Perspective. Mid-American Orthopaedic Association annual conference, Acapulco, MX, April, 1998.

The Glenoid Centering Point as a Tool to Reproduce Glenoid Version During Total Shoulder Arthroplasty. A MRI Study. William T. Pennington, M.D.; Dean W. Ziegler, M.D.; Nicholas J. Meyer, M.D. Presented at the Mid-American Orthopaedic Association annual meeting, Bermuda, 1999.

Arthroscopic Glenoid Resurfacing with Meniscal Allograft: One to Two Year Results. William T. Pennington, M.D. and Brian A. Bartz, PA-C. Mid- American Orthopaedic Association annual meeting, Boca Raton, FL, 2007.

Early Results for Arthroscopic Rotator Cuff Repair with Mason-Allen Configuration versus Double Row Transosseous Equivalent Technique. William T. Pennington, M.D.; Joshua Neubauer, M.D.; David Gibbons, M.D.; Brian Bartz, PA-C. Mid- American Orthopaedic Association annual meeting, Orlando, FL, April, 2008.

Functional Results of Reverse Total Shoulder Arthroplasty as Compared to Arthroscopic Rotator Cuff Repair in Patients Greater Than Age 60. William T. Pennington, M.D.; Timothy I. Mullin, M.D.; Brian A. Bartz, M.D.; David J Gibbons, M.D.; Jonathon Klinger, B.S. Mid- American Orthopaedic Association annual meeting, Amelia Island, FL, April, 2009.

Arthroscopic Glenoid Resurfacing: Results in Patients with Failed Previous Arthroscopic Debridement. William T.

Pennington, M.D.; Joseph C. McCormick, M.D.; David J Gibbons, M.D.; Brian A. Bartz, Pa-C; Jonathon Klinger, B.S. Mid- American Orthopaedic Association annual meeting, Amelia Island, FL, April, 2009.

Functional Outcomes and Radiographic Appearance of Single Versus Double Row Rotator Cuff Repair. William T. Pennington, M.D.; David J. Gibbons, M.D.; Brian A. Bartz, Pa-C; Jonathon Klinger, B.S. Mid- American Orthopaedic Association annual meeting, Amelia Island, FL, April, 2009.

Outcome Analysis of Arthroscopic Posterior Labral Repair in Athletes. William T. Pennington, M.D.; Mark J. Sytsma, M.D.; David J Gibbons, M.D.; Brian A. Bartz, Pa-C; Jonathon Klinger, B.S. Mid- American Orthopaedic Association annual meeting, Amelia Island, FL, April, 2009.

Correlation of Radiographic (MRI) Appearance and Clinical Outcome in Arthroscopic Rotator Cuff Repair. William T. Pennington, M.D.; David J. Gibbons, M.D.; Brian A. Bartz, PA-C, Brian L. Butler. Mid- American Orthopaedic Association 28th Annual Meeting, Austin, TX, April, 2010.

Evaluation of the Clinical Outcome of the Work Injured versus Non-Work Injured Patient Undergoing Arthroscopic Rotator Cuff Repair. William T. Pennington, M.D.; Brian A. Bartz, PA-C, Brian L. Butler. Mid- American Orthopaedic Association 28th Annual Meeting, Austin, TX, April, 2010.

Local

Cold Bone Scan Osteomyelitis: A Clinical Perspective. Wisconsin Orthopaedic Society annual meeting, Kohler, WI, May, 1997.

Evaluation of Dynamic Radiographs and Lumbar Spine MRI in Symptomatic and Asymptomatic Patients. Wisconsin Orthopaedic Society annual meeting, Kohler, WI, May, 1997.

Cerebral Fat Embolism Syndrome in a Multiple Trauma Patient. Wisconsin Orthopaedic Society annual meeting, Kohler, WI, May, 1998.

The Glenoid Centering Point. An MRI Study of Normal Glenohumeral Anatomy. Wisconsin Orthopaedic Society

annual meeting, Green Lake, WI, May, 1999.

Arthroscopic Glenoid Resurfacing with Meniscal Allograft: Early Results. William T. Pennington, M.D. and Brian A. Bartz PA-C. Wisconsin Orthopaedic Society annual meeting, Wisconsin Dells, WI, 2007.

Superior Capsular Reconstruction: Applications and Early Results. Wisconsin Orthopedic Society Annual Meeting, Madison, WI, 2016

Rotator Cuff Injuries: Current Concepts in Surgical Treatment. Wisconsin Physical Therapy Association Annual Meeting, Pewaukee, WI, 2016

Superior Capsular Reconstruction: Applications and Early Results. Wisconsin Physical Therapy Association Annual Meeting, Pewaukee, WI, 2016

New Frontiers: Orthobiologics in Orthopedic Surgery. Wisconsin Physical Therapy Association Annual Meeting, Pewaukee, WI, 2016

Superior Capsular Reconstruction: Applications and Early Results, Wisconsin Orthopedic Society, Madison, WI, 2016

Superior Capsular Reconstruction with Acellular Dermal Allograft: Applications and Early Outcomes. Midwest Orthopedic Specialty Hospital Sports Symposium, Milwaukee, 2017

Meetings

Instructor Synthes Trauma Operating Room Personnel Educational Course, Froedert Memorial Lutheran Hospital, July, 1998.

Director and Instructor, Anatomy Symposium: Shoulder, Curative Rehabilitation Center, Milwaukee, WI, September, 1998.

Instructor, Anatomy Symposium: Knee & Foot/ Ankle: Curative Rehabilitation Center, Milwaukee, WI, November, 1998.

Instructor 8th Annual Current Issues of Magnetic Resonance Imaging in Orthopaedics and Sports Medicine, The Ritz- Carlton, San Francisco, CA, August, 1999.

Instructor symposium "Upper Extremity Injuries: New Treatment

Options, Rehabilitation Alternatives and Cost Containment”, California Pacific Medical Center, San Francisco, CA, March, 2000.

Course Chairman in symposium: “Current Concepts in the Treatment of Cartilage Disorders of the Knee”, The Hilton Conference Center, Milwaukee, WI, May, 2002.

Instructor in Arthroscopic Shoulder Reconstruction, Arthrex Corporate Education Center, April, 2004.

Laboratory Instructor Shoulder Laboratory, Arthroscopy Association of North America Fall Meeting, November, 2006, Palm Desert, CA.

Associate Instructor Arthroscopy Association of North America Masters Shoulder Arthroscopy Course, August, 2007 Orthopaedic Learning Center, Rosemont, IL.

Co- Moderator Shoulder Breakout Symposium, Mid- American Orthopaedic Association annual meeting, April, 2008, Orlando, FL.

Instructor, Advanced Biologic Shoulder Reconstruction Symposium, October, 2009, Chicago, IL.

Instructor, Advanced Biological Solutions for Articular Surfaces Symposium, May, 2010, Milwaukee, WI

Associate Master, Arthroscopy Association of North America Masters Shoulder Arthroscopy Course, January, 2011 Orthopaedic Learning Center, Rosemont, IL.

Director, Advances in Shoulder Reconstruction and Trauma Symposium, Midwest Orthopedic Specialty Hospital, March, 2011, Milwaukee, WI.

Co- Moderator Shoulder Breakout Symposium, Mid- American Orthopaedic Association annual meeting, April, 2011, Tuscon, AZ.

Presenter: “Biologic Treatment of Shoulder Cartilage Disorders,” Arthrex Faculty Forum, Naples, Florida, May, 2015.

Presenter: “Superior Capsular Reconstruction and Utilization in Bioplasty”, Arthrex Global Arthroplasty Summit, Munich, Germany, October, 2015.

Co- Chairman, “Masters Shoulder Arthroplasty” Course, Detroit, MI, February, 2016.

Presenter: “Total Shoulder Arthroplasty with Superior Capsular Reconstruction for Massive Irreparable Rotator Cuff Tears”, Arthroplasty Orthopedic Technology and Innovation Forum, Naples, Florida, April 2016

Presenter: “Superior Capsular Reconstruction: Applications and Early Results”, Elite Orthopedics Orthopedic Educational Series, St. Louis, Missouri, October 2016

Presenter: “Total Shoulder Arthroplasty with Superior Capsular Reconstruction for Massive Irreparable Rotator Cuff Tears”, Arthrex Orthopedic Technology and Innovation Forum, Naples, Florida, January 2017

Presenter: “Superior Capsular Reconstruction: Applications and Early Results”, Liberty Orthopedic Educational Series, Philadelphia, Pennsylvania, March, 2017. Presenter: “Rotator Cuff: Repair, Augment, Reconstruct or Reverse?”, Arthrex Orthopedic Technology and Innovation Forum, Naples, Florida, April 2017

Associate Instructor Arthroscopy Association of North America Masters Shoulder Arthroscopy Course, August, 2017 Orthopaedic Learning Center, Rosemont, IL.