

**Brendan M. Patterson MD**  
**2025 Chestnut Hills Drive**  
**Cleveland Heights, Ohio 44106**  
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<b>CURRENT</b>	<p>Chairman, Department of Orthopaedic Surgery  The MetroHealth System  Cleveland, Ohio</p> <p>Associate Professor, Orthopaedic Surgery  Case Western Reserve University School of Medicine  Cleveland, Ohio</p>	
<b>CERTIFICATION</b>	American Board Orthopaedic Surgery Recertification	<p>July 1994</p> <p>June 2003</p>
<b>LICENSURE</b>	Ohio	1992
<b>TRAINING</b>	<p><b>Fellowship</b>, Orthopaedic Traumatology  Harborview Medical Center  University of Washington  Seattle, Washington</p> <p><b>Residency</b>, Orthopaedic Surgery  Cornell University School of Medicine  Hospital for Special Surgery  New York, New York</p> <p><b>Internship</b>, General Surgery  Case Western Reserve University  Cuyahoga County Hospital  University Hospitals of Cleveland  Cleveland, Ohio</p>	<p>1991-92</p> <p>1987-91</p> <p>1986-87</p>
<b>EDUCATION</b>	<p><b>Weatherhead School of Management</b>  <b>Case Western Reserve University</b>  Master Business Administration  Cleveland, OH</p> <p><b>Case Western Reserve University School of Medicine</b>  Cleveland, Ohio  Medical Degree</p> <p>Alpha Omega Alpha  President, Alpha Omega Alpha</p> <p><b>Amherst College</b>  Amherst, Massachusetts  Bachelor of Arts <i>Magna Cum Laude</i>  Chemistry Major  Economics Major</p>	<p>May 2000</p> <p>May 1986</p> <p>1985</p> <p>1986</p> <p>1981</p>

## AWARDS/GRANTS

Kappa Delta Award Orthopaedic Research & Education Foundation Lower Extremity Assessment Project	2003
Teaching Excellence Award Case Western Reserve University Orthopaedic Residency Program	1998
Site Principal Investigator LEAP Project, NIH funded Multicenter Limb Salvage Study (\$150,000)	1994
Lewis Clark Wagner Resident Research Award Hospital for Special Surgery	1991
AOA-Zimmer Research Award	1991
Howard Waters Doughty Prize Best Thesis in Chemistry, Amherst College	1981
Mary and David Hoar Fellowship	1990
NIH Nutrition Pilot Study Grant	1989
Merck Sharp Dome Award           CWRU	1986
Lubrizol Foundation Award        CWRU	1986
Paul H. Curtiss Musculoskeletal Award	1984
Magna Cum Laude, Amherst College	1981
Sigma Xi, Amherst College	1981

## LEADERSHIP

Chair, MetroHealth Leadership Institute	3/20/2001-11/18/2003
Chair, MetroHealth Foundation	5/2000-4/30/2005
Partner, Cleveland Social Venture Partners	7/18/2002-present
Board Member, Cleveland Social Venture Partners	2/1/2004-1/1/2006
Planning Committee, MetroHealth Board of Trustees	5/1/2000-3/2/2006
Medical Director, Quality Department	1997-2000
Operating Room Executive Committee	1998-present
Operating Room Committee	1998-present

## **PUBLISHED PAPERS**

- Dooley, DM. and Patterson, BM.: Photooxidation of Bis(maleonitriledithiolate) Complexes. *Inorganic Chemistry* 21:4330-4332, 1982.
- Patterson, BM., Marchand, R. and Ranawat, CS: Complications of Heparin Therapy Following Total Joint Arthroplasty. *J Bone and Joint Surg.* 71A:1130-1134, 1989.
- Patterson, BM., Salvati, EA, and Huo, M.: Total Hip Arthroplasty Following Intertrochanteric Fractures. A Technical Note. *J Bone and Joint Surg.* 72A:776-777, 1990.
- Patterson, BM., Healey, JH. Cornell, CN. and Sharrock, N.: Cardiac Arrest During Long Stem Cemented Hip Arthroplasty. A Report of Seven Cases. *J Bone and Joint Surg.* 73A:271-278, 1991.
- Moeckel, BH., Patterson, BM., Inglis, AE., and Sculco, TP.: Ankle Arthrodesis. A Comparison of Internal and External Fixation. *Clinical Orthopaedics and Related Research* 268:78-83, 1991.
- Lieberman, JR., Patterson, BM., Salvati, EA.: Complications of Total Hip Arthroplasty. *Current Opinion in Orthopaedics* 2:455-462, 1991.
- Patterson, BM., Cornell, CN., Carbone, B., Levine, B., and Chapman, D.: Metabolic Stress and Protein Depletion in Elderly Patients with Hip Fractures. *J Bone and Joint Surg.* 74A:251-260,1992.
- Patterson, BM., Insall, JN.: Surgical Management of Gonarthrosis in Patients with Poliomyelitis. *J of Arthroplasty* 7:Supplement 419-426, 1992.
- Patterson, BM. , Routt, ML., Benirschke, SK., and Hansen, ST.: Retrograde Nailing of the Femur. A Treatment for Severe Injuries. *Journal of Trauma* 38:38-43, 1995.
- Rosenberg, GA. and Patterson, BM.: Tarsometatarsal (Lisfranc's) Fracture-Dislocation. *American Journal of Orthopaedics, Supplement*:7-16, 1995.
- Patterson, BM.: Pelvic Ring Injury and Associated Urologic Trauma. An Orthopaedic Perspective. *Seminars in Urology* 13:25-34, 1995.
- Patterson, BM., Lieberman, JR., Salvati, EA.: Intraoperative Complications of Total Hip Arthroplasty. *Orthopaedics* 18:1089-1095, 1995.
- Hegstad, SJ., Smith, AS., Patterson, BM., et al.: Functional Lower Limb Salvage with an Osteocutaneous Filet Flap of the Foot. *Annals of Plastic Surgery.* 36:413-416, 1996.
- Patterson, BM., Inglis AE., Moeckel, B.: Anterior Sliding Graft for Tibiotalar Arthrodesis. *Foot and Ankle* 18:330, 1997.
- Peljovich, A. and Patterson, BM.: Ipsilateral Femoral Neck and Shaft Fractures. *Journal of the American Academy of Orthopaedic Surgeons* 6, 1998.
- Rosenberg, G and Patterson, BM.: Limb Salvage for Severe Lower Extremity Trauma. *American Journal of Orthopaedics*, 1998.

Miric, A and Patterson, BM.: Pathologic Anatomy of Intra-articular Os Calcis Fractures; J of Bone and Joint Surgery 80A:207-212, 1998.

Schildhauer, T., Wilber, JH, Patterson, BM.: Locked Posterior Fracture Dislocation of the Pelvic Ring. Journal of Orthopaedic Trauma 14:107-111, 2000.

Patterson, BM., Smith, AA., Holdren, AM., and Sontich, JK.: Osteocutaneous Pedicle Flap of the Foot for Salvage of Below Knee Amputation Following Lower Extremity Trauma. J of Trauma 48:767-772, 2000.

LEAP Study Group: MacKenzie, E., Bosse, M., Kellam, J., Burgess, A., Webb, L., Swiontkowski, M., Sanders, R., Jones, A., McAndrew, M., Patterson, B., and McCarthy, M.: Characterization of Patients With High-Energy Lower Extremity Trauma. J. Orthopaedic Trauma 14:457-466, 2000.

Yue, J., Sontich, J., Miron, S., Wilber, J., Peljovich, A., Yue, D. and Patterson, B.: Blood Flow Changes to the Femoral Head Following Acetabular Fracture or Dislocation in the Acute Injury and Perioperative Period. J. Orthopaedic Trauma 15:170, 2001.

LEAP Study Group: Bosse, M., MacKenzie, E., Kellam, J., Burgess, A., Webb, L., Swiontkowski, M., Sanders, R., Jones, A., McAndrew, M., Patterson, B., McCarthy, M., and Cyril, J.: A Prospective Evaluation of the Clinical Utility of the Lower-Extremity Injury Severity Scores. J of Bone and Joint Surgery 83A:3-14, 2001.

Yowler, C., Patterson, B., Brandt, C. and Fratianna, R.: Osteocutaneous Pedicle Flap of the Foot for Salvage of Below-Knee-Amputation Level After Burn Injury. J. Burn Care and Rehabilitation. 22:21-25, 2001.

Cohen, N., Balazsy, JE., Patterson, BM.: Capture of Percutaneous Locking Screws. Acta Orthop Scand 73:589, 2002.

LEAP Study Group: An Analysis of Outcomes of Reconstruction or Amputation of Leg-Threatening Injuries. New England Journal of Medicine 347:1924-31, 2002.

Castillo, R. C., Bosse, M. J., MacKenzie, E. J., Patterson, B. M., LEAP Study Group: Impact of Smoking on Fracture Healing and the Risk of Complications in Limb-Threatening Open Tibia Fractures. Journal Orthopaedic Trauma 19(3) 151-157 March 2005

Vallier, H. A., Hennessey T. A, Sontich, J. K. and Patterson, B. M.: Failure of LCP Condylar Plate Fixation in the Distal Part of the Femur. A Report of Six Cases. J. Bone Joint Surg. Am. 2006; 88: 846-853.

DeFranco, M. J. and Patterson, B.M.: The Floating Shoulder. J Am Acad Orthop Surg, Vol. 14 No 8 August 2006 499-509

## **BOOK CHAPTERS**

*Complications of Multiple Trauma*, Brendan M. Patterson, M.D. and Sigvard T. Hansen, M.D. in Complications of Orthopaedic Surgery, edited by Charles Epps, J. B. Lippincott Philadelphia PA 1994.

*Forearm Fractures-ORIF*. Brendan M. Patterson, M.D. in Master Techniques in Orthopaedic Surgery: Fractures, edited by Donald A. Wiss, M.D. Lippincott Raven, Philadelphia, PA 1998.

## **PRESENTATIONS**

### **National/International**

Metabolic Stress in Elderly Patients with Hip Fractures. American Academy of Orthopaedic Surgeons, February 1989.

Complications of Heparin Therapy Following Total Joint Arthroplasty. American Academy of Orthopaedic Surgeons, February 1989.

Tibiotalar Arthrodesis Using an Anterior Sliding Graft. American Academy of Orthopaedic Surgeons, February 1989.

The Impact of Protein Depletion on Elderly Patients with Hip Fractures. New York Academy of Medicine, January 1991.

Intraoperative Complications of Total Hip Replacement. Robert P. Kelly Lectureship, Emory University, Atlanta, Georgia, April 23, 1991.

A Comparison of All Polyethylene and Metal-Backed Acetabular Components in Cemented Total Hip Arthroplasty. Eastern Orthopaedic Association, presented by Michael Huo, MD Madrid, Spain October 1991.

Metabolic Stress and Protein Depletion in Elderly Patients with Hip Fractures. Orthopaedic Trauma Association, Seattle, Washington, November 1991.

Retrograde Nailing of the Femur. A Treatment for Severe Injuries. Orthopaedic Trauma Association, Minneapolis, Minnesota, October 1992.

Comminuted Intraarticular Fractures of the Distal Femur. A Study of Outcome. Orthopaedic Trauma Association, Minneapolis, Minnesota, October 1992.

Custom Contoured 3.5 and 4.5mm Blade Plates for Periarticular Fractures of the Tibia. American Academy of Orthopaedic Surgeons, presented by S.K.Benirschke, San Francisco, February 1993.

Indications for Internal Fixation in Foot and Ankle Trauma. AO Foot and Ankle Course, Breckenridge, Colorado, February 1994.

Fractures of the Talus Blood Supply and Classification. AO Foot and Ankle Course, Breckenridge, Colorado, February 1994

Management of Lower Extremity Injury. Lisfranc Fracture-Dislocations. Orthopaedic Trauma Association, Trauma Update, Chicago, Illinois, May 1994.

Shoulder Girdle Injuries, AO Basic and Advanced Course, Phoenix, Arizona, April 1994.

Management of Humeral Shaft Fractures in Multiply Injured Patients. Plates vs. Antegrade Nailing. Orthopaedic Trauma Association, Tampa, Florida, September 1995.

Plate Stabilization of Proximal Third Tibial Shaft Fractures. An Alternative to Nailing. Orthopaedic Trauma Association, Tampa, Florida, September 1995.

Management of Lower Extremity Fractures: The Soft Tissues are the Key. American Academy of Orthopaedic Surgeons, Orthopaedic Learning Center, Rosemont Illinois, October 26-29, 1995.

## **PRESENTATIONS(cont.)**

Plate Stabilization of Proximal Third Tibial Shaft Fractures. An Alternative to Nailing. American Academy Orthopaedic Surgery Atlanta, Georgia, February 1996.

Distal Femur Fractures. Surgical Management. Advanced Concepts of Internal Fixation AO Course, Marco Island, Florida, March 1996.

Osteotomy Instructional Series. Advanced Concepts of Internal Fixation AO Course, Marco Island, Florida, March 1996.

Pathologic Anatomy of Intraarticular Calcaneal Fractures. Orthopaedic Trauma Association. Boston, Massachusetts, October 1996.

Avascular Necrosis in Displaced Talar Neck Fractures Treated by Emergent ORIF using a two incision Technique. Orthopaedic Trauma Association. Boston. Massachusetts, October 1996.

Reamed versus Unreamed Nails for Femoral Shaft Fractures. A Randomized Study. Orthopaedic Trauma Association, Boston, Massachusetts, October 1996.

Femoral Head Blood Supply Following Hip Dislocation. Orthopaedic Trauma Association. Boston. Massachusetts, October 1996.

Surgical Management Humeral Shaft Fractures. Indications for Internal Fixation of Tibial Shaft Fractures. Lectures and Lab instruction. Summer Institute American Academy of Orthopaedic Surgeons, Washington, DC, September 1997

Posterior Approach for the Stabilization of Pelvic Ring Injuries, Orthopaedic Trauma Association. Louisville, Kentucky, October 1997

Stabilization of Distal Femur Fractures. Orthopaedic Trauma Association. Louisville, Kentucky, October 1997

Complex Distal Humeral Fractures. Surgical Treatment and Complications. Hospital for Special Surgery Alumni Meeting. New York, New York, November 1997

Retrograde Intramedullary Nailing for Femoral Shaft Fractures. Indications and Limitations. AO North American Fracture Course, Sun Valley, Idaho, March 1999

Management of Proximal Tibial Shaft Fractures. AO North American Fracture Course. Sun Valley, Idaho, March 1999

Amputation Update. An Emphasis on Trauma. Instructional Course Lecture. American Academy of Orthopaedic Surgeons, Orlando, Florida, March 2000

Symposium. The Dysvascular Limb. Mangled Lower Extremity Assessment Project. American Academy of Orthopaedic Surgeons, Orlando, Florida, March 2000

Pilon Fractures: Surgical Treatment and Outcomes. Visiting Professor, Gujarat Orthopaedic Association, Gujarat Orthopaedic Association Annual Meeting, Ahmdebhad, India February 2003

Management of Subtrochanteric Fractures. Visiting Professor, Gujarat Orthopaedic Association, Gujarat Orthopaedic Association Annual Meeting, Ahmdebhad, India February 2003

Soft Tissue Management, Wound Care and Coverage. Practical Techniques for Improved Fracture Management AAOS Orthopaedic Learning Center, Rosemont, Illinois December 5-7 2003

Orthopaedic Traumatology. The Hospital Side of the Ledger. Orthopaedic Trauma Association Annual Meeting Ottawa, Canada October 20, 2005

## **ORGANIZATIONS**

Orthopaedic Trauma Association  
Health Care Policy and Planning Committee  
Cleveland Orthopaedic Society  
Fellow, American Academy of Orthopaedic Surgeons  
Cleveland Social Venture Partners  
St. Paul's Church  
Stewardship Committee  
North American AO/ASIF Faculty