

Theodore Toan Le, M.D.

**Assistant Professor
Musculoskeletal Traumatology
Director, Division of Adult Reconstruction**

Education

Undergraduate- University of California, Irvine 1985-1989
Bachelor of Sciences in Biology & Chemistry
Graduate- University of California, Davis 1989-1994
Doctor of Medicine

Postdoctoral Training

Internship- University Hospitals of Cleveland 7/94-6/95
Case Western Reserve University
Department of Surgery
Residency- University Hospitals of Cleveland 7/95-6/99
Case Western Reserve University
Department of Orthopaedics
Fellowship- Orthopaedic Traumatology - Metrohealth Med. Ctr.
CWRU/Dept. of Orthopaedics 8/99-7/00
AO International Fellowship - Jan.-March 2000
Freiberg, Germany

Certification and Licensure

Medical Physician License: Ohio
Medical Physician License: Michigan
American Board of Orthopaedic Surgery: Board Certified

Academic Appointments

Instructor- Department of Orthopaedics 7/99-8/00
Metrohealth Medical Center
Lecturer- Department of Orthopaedics 9/00-7/03
University of Michigan Medical School
Assistant Professor- Department of Orthopaedics 7/03-8/04
University of Michigan Medical School
Assistant Professor- Department of Orthopaedics 9/04-present
University of Cincinnati Medical School

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Clinical/Hospital Appointments Staff Physician

Department of Orthopaedics 9/2004–present
University of Cincinnati Medical Center

Department of Orthopaedics 9/2000 – 8/2004
University of Michigan Medical Center

Grants Support

Biomechanical Evaluation of Locking Buttress Plate vs. Blade Plate in the Treatment of Distal Femur Fractures
AO North America Grant 2002

A Biomechanical Comparison of Locking Screws versus Non-Locking Screws
University Orthopaedic Research and Education Foundation
February 2006

The Effect of Surgical Approach on Restoration of Gait after Total Hip Arthroplasty
University Orthopaedic Research and Education Foundation
2006

The Strength of Using a Combined Iliac Crest and Supra-Acetabular Pins in Pelvic External Fixation
University Orthopaedic Research and Education Foundation
2006

Honors and Awards

Morton Levitt Research Award 1993 & 1994
Paul Libscomb Award 1994 - Outstanding Medical Student in Orthopaedics

Memberships

2000-	Member, Orthopaedic Trauma Association
2001-	Member, Michigan Orthopaedic Society
2004-	Member, American Academy of Orthopaedic Surgeons
2004-	Member, Mid-America Orthopaedic Association
2004-	Member, Academy of Medicine of Cincinnati
2004-	Member, Ohio State Medical Association

Committee & Administrative Service

2000	Faculty Compensation Committee - Dept. of Orthopaedics
2001	Call Triage & Regulation Committee
2001-	Education Committee – Dept. of Orthopaedics
2001-	Resident Selection Committee – Dept. of Orthopaedics
2001-	Trauma Recertification Committee, Orthopaedic Liason
2002-	Morbidity & Mortality Coordinator, Dept. of Orthopaedics
2003-	Bed Utilization Committee, Orthopaedics representative
2004-	Trauma Performance Improvement Committee-University Hospital, Cincinnati, Ohio

Research

- **Outcomes After Crescent Pelvic Fracture Dislocations with and without Sacroiliac Joint Fixation: a multi-center study**
Principle Investigator: Michael Archdeacon, MD
Co-Investigator: TT Le, MD, JD Wyrick, MD
- **Functional Outcomes in Fractures of the Acetabulum**
Principle Investigator: MT Archdeacon, MD
Co-Investigators: TT Le, MD, JD Wyrick, MD, & MB Ludwig, BSN
- **Prospective Evaluation of Abductor Function in Fractures of the Femur Treated with Antegrade Intramedullary Nailing**
Principle Investigator: MT Archdeacon
Co-Investigators: T Hewett, Ph.D, TT Le, MD, JD Wyrick, MD & MB Ludwig, BSN
- **Prospective Functional Performance Evaluation of Quadriceps Function After Femur Fracture Treated with Intramedullary Nailing**
Principle Investigator: MT Archdeacon, MD
Co-Investigators: TT Le, MD, JD Wyrick, MD, T Hewett, PhD, MB Ludwig, BSN, M Paterno, PT, S Hampton
- **Osteogenic Protein-1 (Bone Morphogenetic Protein-7) in the Treatment of Tibial Nonunions**
Principle Investigator: JD Wyrick, MD
Co-Investigators: MT Archdeacon, MD, TT Le, MD, PJ Stern, MD
- **Retrospective Study of Proximal Humerus Fractures**
Principal Investigators: TT Le, MD, and Benjamin Kleinhenz
- **Review and Evaluation of Locked Plating vs. Non-Locked Treatment of High-Energy Pilon Fractures**
Principal Investigator: TT Le, MD
Co- Investigators: MT Archdeacon, MD, JD Wyrick, MD
- **Zimmer Knee Registry: A prospective, multi-center registry involving orthopaedic surgeons skilled in total knee replacement. Each case enrolled in the registry will receive primary or revision total knee arthroplasty using a Zimmer knee implant.**
Principal Investigator: TT Le, MD

Pending Research Studies:

- **Health: Hip Fracture Evaluation with Alternatives of Total Hip Arthroplasty vs. Hemi-Arthroplasty: a multi-center randomized trial comparing total hip arthroplasty and hemiarthroplasty on revision surgery and quality of life in patients with displaced femoral neck fractures**
Principal Investigator: TT Le, MD
Co-Investigator: MT Archdeacon, MD

- **Faith: Fixation Using Alternative Implants for the Treatment of Hip Fractures: a multi-center randomized trial comparing sliding hip screws and cancellous screws on revision surgery rates and quality of life in the treatment of femoral neck fractures**
Principal Investigator: MT Archdeacon, MD
Co-Investigator: TT Le, MD

Lectures

2006

“Femoral Neck Prosthetic Replacement,” Zimmer 2006 Resident Trauma Course, Newport, Rhode Island, November 3-5, 2006.

“Both Bone Forearm Fractures,” Zimmer 2006 Resident Trauma Course, Newport, Rhode Island, November 3-5, 2006.

“Proximal Femoral Nailing,” OTA Residents Comprehensive Fracture Course, Phoenix, AZ, October 5, 2006.

“Provisional Ex Fix & Temporary Stabilization,” OTA Residents Comprehensive Fracture Course, Phoenix, AZ, October 4, 2006.

“Biomechanics of Intramedullary Nailing,” Treatment Options for Difficult Fractures: Advanced Technology Symposium, Cincinnati, Ohio, September 16, 2006.

“Locking Compression Plates in Periprosthetic Fractures,” Treatment Options for Difficult Fractures: Advanced Technology Symposium, Cincinnati, Ohio, September 16, 2006.

Clavicle Fractures - “Who Needs Fixing?” AO ASIF Midwest Regional Trauma Summit, St. Louis, Missouri, July 28-30, 2006.

Pilon Fracture Strategies - “Definitive Internal Fixation,” AO ASIF Midwest Regional Trauma Summit, St. Louis, Missouri, July 28 -30, 2006

“IM Nailing-The Gold Standard?” 4th Annual Trauma 101 Fracture Care Orthopaedics Symposium, Cincinnati, Ohio, May 12-13, 2006.

“Staged Management-Brace vs Ex Fix; Admit or Home?” 4th Annual Trauma 101 Fracture Care Orthopaedics Symposium, Cincinnati, Ohio, May 12-13, 2006.

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“Mechanics of Locked Plating,” 4th Annual Trauma 101 Fracture Care Orthopaedics Symposium, Cincinnati, Ohio, May 12-13, 2006.

“Proximal Humerus Fractures: Techniques for ORIF”, OTA Regional Resident Course, Atlanta, Ga, May 5 -6, 2006.

“Elbow Dislocations: Associated Injuries, Protocols for Treatment,” OTA Regional Resident Course, Atlanta, Ga, May 5 – 6, 2006.

“Forearm Fx”, Trauma Conference, University of Cincinnati, Department of Orthopaedics, April, 2006

AO ASIF Basic Principles & Techniques of Operative Fracture Management Course for Residents, Lab Instructor, St. Louis, MO, March 9 – 12, 2006

“Fractures/Dislocation”, MSIII Surgical Rotation Lecture, University of Cincinnati, School of Medicine, February 20, 2006

“Hip Biomechanics”, Basic Science Curriculum, University of Cincinnati, Department of Orthopaedics, January 8, 2006

“Pilon Fractures”, Trauma Conference, University of Cincinnati, Department of Orthopaedics, January 6, 2006

2005 “Complications in THA”, Reconstruction Conference, University of Cincinnati, Department of Orthopaedics, Nov. 9, 2005

“Surgical Management of Osteoarthritis”, University of Cincinnati, Department of PM&R, October 27, 2005

“Tension Band/Compression Plate Ulna”, Resident Fracture Course, OTA Annual Meeting, Ottawa, Canada, , October 19, 2005

“Distal Humeral Fixation”, OTA Annual Meeting, Ottawa, Canada, , October 19, 2005

“Distal Femur Fractures” Trauma Conference, University of Cincinnati, Department of Orthopaedics, October 14, 2005

“Hip Lecture” Introduction to Orthopaedics Conference/Anatomy Conference, University of Cincinnati, Department of Orthopaedics, July 13, 2005

“Bone Healing”, AO Basic Resident Fracture Course, Indianapolis, Indiana, May 18 – 22, 2005

“Problem Hip Fx’s”, 3rd Annual Trauma 101 Fracture Care Orthopaedics Symposium, Cincinnati, Ohio, April 29-30, 2005

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- 2004 “What’s New in Total Joint Arthroplasty”, University of Cincinnati, Division of Internal Medicine, Cincinnati December 15
- “Management of Proximal Humerus Fractures with Locked Condylar Buttress Plate”, Synthes Locking Symposium, Cincinnati November 20
- “Updates in the Management of Periarticular Injuries of the Lower Extremities”, University of Cincinnati, Department of Orthopaedics Grand Round, Cincinnati October 13
- “Management of Open Fractures”, Michigan Orthopaedic Society – Nurses Study Group, Mackinac Island, Michigan June 19
- “Controversies in the Management of Supracondylar Fractures”, Grand Rounds, Hannover Medical School – Dept. of Traumatology, Hannover, Germany June 11
- “Nonoperative Treatment of Tibia Shaft Fractures”, 2nd Annual Trauma 101 Symposium – Damage Control Orthopaedics, Cincinnati, Ohio, April 24
- 2003 “Treatment Options of Tibial Shaft Fractures”, AO/ASIF Resident Fracture Course, Lansing, Michigan, September 12
- “Management of Radial Head Fractures”, 2003 Trauma Courses, Chicago, Illinois, September 7
- “Management of Periarticular Injuries”, Michigan Orthopaedic Society, Traverse City, Michigan, June 13
- “Management of Supracondylar Femur Fractures”, Orthopaedic Trauma Update 101, Cincinnati, Ohio, May 9
- “Pilon Fractures – A Learning Experience”, Orthopaedic Trauma Update 101, Cincinnati, Ohio, May 9
- 2002 “Periarticular Injuries of Lower Extremities – Update of Management”, Reno Orthopaedic Society, Reno, Nevada, November 7
- “Principles of External Fixation”, OTA Resident Course, Toronto, Canada, October 17
- “Indirect Reduction Techniques”, AO/ASIF Resident Fracture Course, Kalamazoo, MI, Sept. 20
- “Intramedullary Nailing of the Tibia”, AO/ASIF Resident Fracture Course, Kalamazoo, MI, Sept. 20
- 2001 “Intramedullary Nailing of the Tibia”, AO/ASIF Resident Fracture Course, Kalamazoo, MI, Sept. 21

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“Universal Distractor as a Reduction Tool”, AO/ASIF Resident Fracture Course, Kalamazoo, MI, Sept. 21

2000 “Use of External Fixation in Acute Trauma”, Pediatric Orthopaedic Society, Mexico City, Mexico, June 22

Publications

The Effects of Variable Size Posterior Wall Acetabular Fractures on Contact Characteristics of the Hip Joint; Olson S.A., Bay B.K., Pollak A.N., Sharkey N.A., Le T.T. *J. Ortho. Trauma* 10: 395-402, 1996.

The Effects of Skeletal Injury in Multiple Trauma; Ziran B.H., Le T.T., Zhou H., W. Fallon W., Wilber J.H. *J. of Trauma* 43: 916-921, 1997.

Effects of Chemotherapy on Distraction Osteogenesis; Gravel C., Le T.T., Chapman M.W., *Clin. Ortho. Rel. Res.* 412: 213-224, 2003

Modified IlioInguinal Approach for Acetabular Fractures, Karunakar M.A., Le T.T. Bosse M. J., *J. Ortho. Trauma.* 2004 Jul;18 (6):379-383.

Subtrochanteric Femur Fractures: Treatment Options. Bedi A. and Le T.T., *Ortho. Clinics North America.* 2004 Oct; 35 (4): 473-483.

Thermal Effects of Intramedullary Reaming, Karunakar M.A., Frankenburg E.P., Le T.T., Hall J., *J. Ortho Trauma.* 2004 Nov; 18 (10); 674-679.

Operative Treatment of Unstable Pediatric Pelvic and Acetabular Fractures; Karunakar M.A., Goulet J.A., Mueller K.L., and Le T.T., *Journal of Pediatric Orthopaedic.* 2005 Jan-Feb; 25 (1): 34-8

Subtrochanteric Fixation Stability Depends on Discrete Fracture Surface Points. Bredbenner T., Snyder S., Mazloomi F., Le T.T., Wilber R., *Clin. Ortho. Rel. Res.* March 2005, Vol 432, pp. 217-225.

Surgical Treatment of Nonarticular Distal Tibia Fractures. Bedi A., Le TT., Karunakar MA. *J Am Acad Orthop Surg.* 2006 Jul;14(7):406-416.

Manuscripts Accepted for Publication

Operative Treatment of Distal Tibial Metaphyseal Fractures, Bedi A., Le T.T., Karunakar M.A., *JAAOS Review Journal*

A Cadaver Study of the Trochanteric Pelvic Clamp for Pelvic Reduction. Archdeacon MT., Safian C., TT Le. *J Orthop Trauma* (submitted, November 2005).

Manuscripts Submitted for Publication

A Comparison of Plate Versus Intramedullary Nail Fixation for Distal Tibia Fractures, Vallier H.A., Le T.T., CORR

Efficacy of Exchanged Intramedullary Nailing in the Management of Septic Tibial Nonunion, Thangamani V.B, Le T.T., Karunakar M.A., Goulet J.A., CORR

Published Abstracts

Early Results of Femur Fractures Treated with Reamed vs. Unreamed Intramedullary Nailing: A Prospective Study; T.T. Le, J.H. Wilber, B.M. Patterson, J.H. Wilber, *Orthopaedic Trans.* 21(2): 604.

Minimizing Complications Associated with Internal Fixation of Severe Pilon Fractures: Results of Delayed ORIF; P. Protomastro, T.T. Le, B.M. Patterson, J.H. Wilber. *Orthopaedic Trans.* 22(1): 276.

Comparison of Functional Outcomes and Cost Analysis in the Treatment of Pilon Fractures; T.T. Le, P.D. Protomastro, B.M. Patterson, J.H. Wilber. *Orthopaedic Trans.* 22(2): 337.

Manuscripts in Progress

Effects of Restricted Forearm Pronation in Typing Speed, Le T.T., LaRue J, Parents N, Karunakar M.A

Presentations – Papers

Trochanteric C-Clamp for Provisional Pelvic Stability; Archdeacon MT., Safian C., Le T.T., Mid-America Orthopaedic Association Meeting, San Antonio, Texas, April 19-23, 2006

Comparison of Functional Outcomes and Cost Analysis in the Treatment of Pilon Fractures; **Le T.T.**, Protomastro P., Patterson B.M., Wilber J.H, AOA Resident Symposium 1998

Early Results of Femur Fractures Treated with Reamed vs. Unreamed Intramedullary Nailing: A Prospective Study; **Le T.T.**, Wilber J.H., J. Sontich J., Patterson B.M., Ziran B.H., OTA 1996.

Presentations - Posters

Efficacy of Exchanged Intramedullary Nailing in the Management of Septic Tibial Nonunion, Thangamani V.B, Le T.T., Karunakar M.A., Goulet J.A. OTA 2004, Fort Lauderdale, FL

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Effects of Restricted Forearm Pronation in Typing Speed, Le T.T., LaRue J, Parents N, Karunakar M.A. OTA 2003, Salt Lake City, UT

Operative Treatment of High-Energy Bicondylar Tibial Plateau Fractures; Graf K., Karunakar M.A., Le T.T., Goulet J.A.: AAOS 2003, New Orleans, LA.

Revision Operative Repair after Failed Surgical Treatment of Humeral Nonunions; Yian E, Karunakar MA, Borus T, Le TT, and Goulet JA., AAOS 2003, New Orleans, LA.

Thermal Effects of Intramedullary Nailing; Karunakar M.A., Frankenburg E.P. and Le T.T., AAOS 2003, New Orleans, LA.

Revision Operative Repair after Failed Surgical Treatment of Humeral Nonunions; Yian E., Borus T., Karunakar M.A., Le T.T., and Goulet J.A., OTA 2002, Toronto, Canada

Thermal Effects of Intramedullary Nailing; Karunakar M.A., Frankenburg E.P. and Le T.T., OTA 2002, Toronto, Canada

Operative Treatment of Pediatric Pelvic and Acetabular Fractures; Karunakar M.A., Mueller K.L., Le T.T. and Goulet J.A., OTA 2001, San Diego, CA

Operative Treatment of Pediatric Pelvic and Acetabular Fractures; Karunakar MA, Mueller KL, Le TT, Goulet JA and Farley FA: Pediatric Orthopaedic Society of North America 2002, Salt Lake City, UT.

Minimizing Complications Associated with Internal Fixation of Severe Pilon Fractures: Results of Delayed ORIF; P. Protomastro, T.T. Le, B.M. Patterson, J.H. Wilber. OTA 1997, Louisville, KY

The Effects of Variable Size Posterior Wall Acetabular Fractures on Contact Characteristics of the Hip Joint; S.A. Olson, B.K. Bay, A.N. Pollak, N.A. Sharkey, T.T. Le. OTA 1994, Los Angeles, CA

Operative Management of the Supracondylar Fractures of the Femur: Comparison of the Anterolateral Approach to Other Surgical Approaches; T.T. Le, C.A. Gravel, M.W. Chapman. OTA 1994, Los Angeles, CA