

MICHAEL THOMAS ARCHDEACON, M.D., M.S.E.

Director, Division of Musculoskeletal Traumatology

Associate Professor & Vice Chairman, Department of Orthopaedic Surgery

Chief of Staff, University Hospital of Cincinnati

Department of Orthopaedic Surgery • College of Medicine • University of Cincinnati

CLINICAL POSITIONS:

Chief of Staff, University Hospital	June, 2008 - present
Vice Chairman, Orthopaedic Surgery	August, 2007 - present
Associate Professor, Orthopaedic Surgery	September, 2006 – present
Director, Division of Musculoskeletal Traumatology	September, 2006 – present
Medical Director, Department of Orthopaedic Surgery,	November, 2002 – present
Assistant Professor, Orthopaedic Surgery	September, 2001 –September, 2006
University of Cincinnati, College of Medicine	Cincinnati, Ohio
Adjuvant Associate Professor, Biomedical Engineering	September, 2006 - present
Adjuvant Assistant Professor, Biomedical Engineering	May, 2006 - September, 2006
University of Cincinnati, College of Engineering	Cincinnati, Ohio

EDUCATION & POSTDOCTORAL TRAINING:

AAOS – Leadership Fellows Program	February, 2007 – February, 2008
Physicians’ Executive Development Program	August, 2005 – May 2006
Physician MBA Certificate Program, University of Cincinnati	Cincinnati, Ohio
Fellowship, Orthopaedic Traumatology	August, 2000 –July, 2001
Florida Orthopaedic Institute, Tampa General Hospital	Tampa, Florida
Resident Physician in Orthopaedic Surgery	July, 1996 –June, 2000
Department of Orthopaedic Surgery, University Hospitals of Cleveland	Cleveland, Ohio
Case Western Reserve University School of Medicine	
Allen Orthopaedic Surgical Research Fellowship	July, 1995 - June, 1996
Case Western Reserve University School of Medicine	Cleveland, Ohio
General Surgery Internship, University Hospitals of Cleveland	July, 1994 - June, 1995
Case Western Reserve University School of Medicine	Cleveland, Ohio
Master of Science in Biomedical Engineering	April, 1993 - June, 1994
The Ohio State University College of Engineering	Columbus, Ohio
Doctor of Medicine	August, 1989 - June, 1993
The Ohio State University College of Medicine	Columbus, Ohio
Bachelor of Science in Biomedical Engineering	August, 1985 - May, 1989
Tulane University School Of Engineering	New Orleans, Louisiana

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LICENSE & CERTIFICATION:

American Board of Orthopaedic Surgery, Inc.	Board Certified	07/11/03
Fellow, American Academy of Orthopaedic Surgeons	Active Fellow	09/26/05
The American Orthopaedic Association	Active Member	06/04/08
State Medical Board of Ohio		Expires 07/01/11
State of Florida Department of Health		Expires 01/31/10
State Medical Board of Kentucky		Expires 03/01/10
Advanced Trauma Life Support		Expires 7/1/2008
American Medical Association	Active	09/01/01
Ohio Orthopaedic Association	Active	01/01/02
Mid-American Orthopaedic Association	Active	01/01/02
Cincinnati Academy of Medicine	Active	09/01/02

PEER REVIEWED PUBLICATIONS:

Collinge C, Archdeacon MT, Sagi HC. "Effects of Operative Positioning on the Surgical Results of Transversely Oriented Acetabular Fractures Performed via the Kocher-Langenbeck Approach: Lateral versus Prone Position." *J Orthop Trauma*. (submitted, October 2008).

Aronhalt TW, Hewett T, Archdeacon MT, Wordman S, Shear JT, Paterno M. "Effects of Patellar Reconstruction Procedures on Extensor Torque Output of the Human Knee Joint." *J Orthop Trauma* (submitted October 2008).

Romanowski JR, Archdeacon MT, Mobberley PS, Weiss AA. "The Protective Effect Of Intramedullary Reaming On Bacterial Seeding In A Cadaveric Open Femur Fracture Model." *J Bone Joint Surg Am*. (submitted, September 2008).

Collinge C, Archdeacon MT, LeBus G. "Saddlehorn" Injury of the Pelvis and Associated Male Sexual Dysfunction." *J Bone Joint Surg Am*. (accepted, September 2008).

Archdeacon MT, Arebi S, Le TT, Wirth R, Keibel R, Thakore M. "Orthogonal Pin Construct Versus Parallel Uniplanar Pin Constructs For Pelvic External Fixation: A Biomechanical Assessment Of Stiffness." *J Orthop Trauma* (accepted, October 2008).

Russell GV, Graves ML, Archdeacon MT, Barei DP, Brien GA, Porter SE. "The Clamshell Osteotomy: A Simple Technique to Correct Complex Diaphyseal Malunions." *J Bone Joint Surg Am*. (accepted, September 2008).

Cannada L, Anglen JA, Archdeacon MT, Herscovici D, Ostrum R. "Avoiding Complications In The Care Of Fractures Of The Tibia." *J Bone Joint Surg Am*. 2008 Aug;90(8):1760-1768.

Anglen JA, Archdeacon MT, Cannada L, Herscovici D. "Avoiding Complications In The Treatment Of Humeral Fractures." *J Bone Joint Surg Am*. 2008 Jul;90(7):1580-1589.

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Archdeacon MT, Cannada L, Herscovici D, Ostrum R, Anglen JA. "How To Prevent Complications For Fractures About The Proximal Femur." *Instructional Course Lectures 58* (in press, April 2008).

Herscovici D Jr, Anglen JO, Archdeacon M, Cannada L, Scaduto JM. "Avoiding Complications In The Treatment Of Pronation-External Rotation Ankle Fractures, Syndesmotic Injuries And Talar Neck Fractures." *J Bone Joint Surg Am* 2008 Apr;90(4):898-908.

Ostrum R, Anglen JA, Archdeacon MT, Cannada L, Herscovici D. "Avoiding Complications In Fracture Care: Femoral Shaft And Distal Femoral Fractures." *Instructional Course Lectures 58* (accepted, March 2007).

Pittner DE, Levin L, Archdeacon MT. "In Vitro Corrosion Analysis in Low-Intensity, Pulsed Ultrasound." *Am J Orthop.* 2008;37(2):E32-E37.

Archdeacon MT, Ford K, Wyrick J, Paterno M, Hampton S, Ludwig MB, Hewett T. "A Prospective Functional Outcome and Motion Analysis Evaluation of the Hip Abductors After Femur Fracture and Antegrade Nailing." *J Orthop Trauma* 2008;22:3-9.

Archdeacon MT, Simon PM, Wyrick JD. "The Influence Of Insurance Status On The Transfer Of Femoral Fracture Patients To A Level-I Trauma Center." *J Bone Joint Surg Am.* 2007 Dec;89(12):2625-2631.

RM Greiwe, Archdeacon MT. "Locking Plate Technology: Current Concepts." *J Knee Surg* 2007;20(1):50-55.

Archdeacon MT, Safian C, TT Le. "A Cadaver Study Of The Trochanteric Pelvic Clamp For Pelvic Reduction." *J Orthop Trauma* 2007;21:38-42.

Archdeacon MT, Stern PJ. "Level 1 Orthopaedic Trauma Care: A Model for Longevity." *J Bone Joint Surg Am* 2006;88:2305-2309.

Archdeacon MT, Messerschmitt P. "Modern Papineau Technique With Vacuum Assisted Closure." *CASE Orthop Journal* 2006;3(1):86-89.

Archdeacon MT, Wyrick JW. "Reduction Plating For Provisional Fracture Fixation." *J Orthop Trauma* 2006;20(3):206-211.

Archdeacon MT, Anderson R, Harris AM, Wilber JH. "Concomitant Fractures of the Acetabulum and Spine: A Retrospective Review of Over Three-Hundred Patients " *J Trauma* 2006;60(3):609-612.

Paterno MV, Archdeacon MT, Ford KR, Galvin D, Hewitt TE. "Early Rehabilitation Following Surgical Fixation Of A Femoral Shaft Fracture." *Phys Ther* 2006;86(4):558-572.

Archdeacon MT, Messerschmitt P. "Modern Papineau Technique With Vacuum Assisted Closure." *J Orthop Trauma* 2006;20(2): 134-137.

Archdeacon MT, Hiratzka J. "The Trochanteric C-Clamp For Provisional Pelvic Stability." *J Orthop Trauma* 2006;20(1):47-51.

Archdeacon MT. Comment on "A laboratory model to evaluate cutout resistance of implants for pertrochanteric fracture fixation." *J Orthop Trauma* 2005 Jul;19(6):432.

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Qureshi AA, Archdeacon MT, Jenkins MA, Infante A, DiPasquale T, Bolhofner BR. "Infrapectineal Plating For Acetabular Fractures: A Technical Adjunct To Internal Fixation." *J Orthop Trauma* 2003; 18(3):175-178.

Archdeacon MT. "Combined Olecranon Osteotomy And Posterior Triceps Splitting Approach For Complex Fractures Of The Humerus." *J Orthop Trauma* 2003; 17(5):368-373.

Archdeacon MT, Wilber R. "Fractures of the Talar Neck," *Orthop Clinics North Am* 2002;33(1):247-262.

Archdeacon MT, Herscovici D, Sanders RW. "The Mangled Lower Extremity - Wound Care: Debridement, Coverage, and Antibiotic Utilization" *Tech Orthop* 2001;16(4):398-408.

Singerman R, Berilla J, Archdeacon MT, Peyser A. "In Vitro Contact Forces in the Normal and Cruciate-Deficient Knee During Simulated Squatting Motion," *J Biomech Eng* 1999;121(2):234-242.

BOOK CHAPTERS:

Archdeacon MT. "What Is The Best Technique For Nailing A Femoral Shaft Fracture In A 28 Year-Old?" *Curbside Consultation in Fracture Management: 49 Clinical Questions*. 1st Edition; 2008; pages 103-106. Ed: W Virkus. SLACK Incorporated, Thorofare, NJ

Archdeacon MT. "Fractures of the Distal Humerus" *Trauma - Core Knowledge in Orthopaedics*. 1st Edition; 2008; pages 89-103. Ed: RW Sanders. Mosby - Elsevier Science, Philadelphia, PA

Gause LN, Archdeacon MT. "Complications Related to Orthopaedic Implants With Temporary Function: Immediate Post Implantation." *Orthopaedic Implants: Applications, Complications and Management*. Editors: RW Lindsey & Z Gugala. Marcel Dekker, Inc. New York, NY. (in press, September 2007).

Archdeacon MT. "Percutaneous Reduction & Fixation of Pilon Fractures." *Techniques in Fracture Surgery*. Editors: P Tornetta and W Ricci. Elsevier Science (submitted, September 2006).

Archdeacon MT, Sanders R. "Patella Fractures and Extensor Mechanism Injuries" *Skeletal Trauma: Basic Science, Management, and Reconstruction*, 4th Edition, 2006. Eds: Browner, Jupiter, Levine, Trafton. Saunders, Philadelphia, PA. (in press, June 2006).

Horwitz D, Archdeacon MT. "Basic Principles and Techniques of Internal Fixation of Fractures." *Orthopaedic Trauma Association: Trauma and Fracture Care Residency Core Curriculum Lectures*

Archdeacon MT. "Knee and Leg - Bone Trauma " *Orthopaedic Knowledge Update*, 8th Edition, 2004. AAOS, Rosemont, IL, 2005 pp 433-441.

Archdeacon MT, Sanders RW. "Trauma: Limb Salvage Versus Amputation" *Atlas of Limb Prosthetics*, Ed 2. AAOS, Rosemont, IL, 2004 pp 69-77.

Archdeacon MT, Sanders R. "Patella Fractures and Extensor Mechanism Injuries" *Skeletal Trauma: Basic Science, Management, and Reconstruction*, 3rd Edition, 2003; pages 2013-2044. Eds: Browner, Jupiter, Levine, Trafton. Saunders, Philadelphia, PA.

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PRESENTATIONS:

Archdeacon MT, Romanowski J, Mobberley-Schuman P, Weiss A. "Impact Of Intramedullary Reaming On Bacterial Persistence In Open Femur Fractures: A Cadaveric Model." *American Orthopaedic Association 122nd Annual Meeting; Bonita Springs, Florida, June 10 - 13, 2009.* (submitted).

Archdeacon MT, Borzotta A, Wyrick JD, Johannigman J, Le TT. "Planned Delayed Transfer Of Complex Pelvic / Acetabular Fractures From A Level III To A Level I Trauma Center." *Mid-America Orthopaedic Association Annual Meeting, Amelia Island, FL, April 22-26, 2009.* (accepted).

Archdeacon MT, Collinge C, Dulaney-Cripe E. "'Relaxation' of the Symphyseal Hardware: Loss of Fixation after Plating of the Anterior Pelvis is More Common Than You Think." *Mid-America Orthopaedic Association Annual Meeting, Amelia Island, FL, April 22-26, 2009.* (accepted).

Archdeacon MT, Aronhalt T, Wordeman SC, Hewett T. "ORIF Versus Partial Patellectomy For Acute Fractures Of The Patella: Effects On Knee Extensor Torque Output And Gait Mechanics." *Mid-America Orthopaedic Association Annual Meeting, Amelia Island, FL, April 22-26, 2009.* (accepted).

Madhav TJ, To P, Archdeacon MT, Stern PJ. "The Palmar Fat Pad Is A Reliable Intraoperative Landmark During Carpal Tunnel Release." *Mid-America Orthopaedic Association Annual Meeting, Amelia Island, FL, April 22-26, 2009.* (submitted).

Romanowski J, Archdeacon MT, Mobberley-Schuman P, Weiss A. "Impact Of Intramedullary Reaming On Bacterial Persistence In Open Femur Fractures: A Cadaveric Model." *American Academy of Orthopaedic Surgeons 76th Annual Meeting; Las Vegas, NV, February 25-28, 2009.* (accepted).

Collinge C, Archdeacon MT, Dulaney-Cripe E, LeBus G. "Relaxation" of the Symphyseal Hardware: Loss of Fixation after Plating of the Anterior Pelvis is More Common Than You Think." *Orthopaedic Trauma Association 24th Annual Meeting, Denver, CO, October 16 - 18, 2008.* (accepted).

Romanowski J, Archdeacon MT, Mobberley-Schuman P, Weiss A. "Impact Of Intramedullary Reaming On Bacterial Persistence In Open Femur Fractures: A Cadaveric Model." *Orthopaedic Trauma Association 24th Annual Meeting, Denver, CO, October 16 - 18, 2008.* (accepted).

Borzotta A, Johannigman J, Archdeacon MT, Wyrick JD. "Planned Delayed Transfer Of Complex Pelvic Fractures From Level III To Level I Trauma Centers." *67th Annual AAST Meeting, Maui, HA, September 24-27, 2008.* (accepted).

Russell GV, Graves ML, Archdeacon MT, Barei DP, Brien GA, Porter SE. "The Clamshell Osteotomy: A Simple Technique to Correct Complex Diaphyseal Malunions." *Combined Meeting of the American Orthopaedic Association and the Canadian Orthopaedic Association, Quebec City, Canada, June 4-7, 2008.*

Collinge C, Archdeacon MT, LeBus G. "Effects Of Operative Positioning On The Surgical Results Of Transversely Oriented Acetabular Fractures Performed Via The Kocher-Langenbeck Approach: Lateral Versus Prone Position." *Western Orthopaedic Association 72nd Annual Meeting, Maui, HI, July 23-26, 2008.*

Archdeacon MT, Arebi S, Le TT. "Orthogonal Pin Construct Versus Uniplanar Pin Constructs For Pelvic External Fixation." *Mid-America Orthopaedic Association Annual Meeting, Orlando, FL, April 16-20, 2008.*

Romanowski J, Archdeacon MT, Mobberley-Schuman P, Weiss A. "The Impact of Antegrade Intramedullary

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Reaming on Bacterial Colonization in Open Femur Fractures.” *Mid-America Orthopaedic Association Annual Meeting, Orlando, FL, April 16-20, 2008.*

Anglen J, Archdeacon MT, Cannada LK, Ostrum RF, Herscovici D. “Avoiding Complications in Fracture Care.” Instructional Course Lecture # 149 *American Academy of Orthopaedic Surgeons 75th Annual Meeting; San Francisco, CA, March 5th, 2008.*

Collinge C, Archdeacon MT, LeBus G. “Characteristics and Outcomes of Tile B Pelvic Injuries From Horse Riding: The Saddlehorn Injury.” *American Academy of Orthopaedic Surgeons 75th Annual Meeting; San Francisco, CA, March 5-9, 2008.*

Archdeacon MT, Thacker JH, Heikenfeld JC. “Sonofluidic Textiles for Controlled and Localized Orthopedic Drug Delivery.” *54th Annual Meeting of the Orthopaedic Research Society, San Francisco, CA, March 2-5, 2008.*

Collinge C, Archdeacon MT, LeBus G. “Effects of Operative Positioning on the Surgical Results of Transversely Oriented Acetabular Fractures Performed via the Kocher-Langenbeck Approach: Lateral versus Prone Position.” *Orthopaedic Trauma Association 23rd Annual Meeting, Boston, MA, October 18-20, 2007.*

Thacker JH, Archdeacon MT, Heikenfeld JC. “Sonofluidic Gated Networks for Precision-Controlled Biological Delivery Systems.” *American Chemical Society 39th Central Regional Meeting, May 20-23, 2007.*

Oostveen RJ, Wissman RD, Kreeger MC, Archdeacon M. Wing Bone Basics: Anatomy, Imaging, and Injuries of the Scapula. Educational Exhibit, *107th Annual Meeting of the American Roentgen Ray Society 2007, May 15-20, 2007.*

DeSilva G; Archdeacon MT; DeSilva S. “Soft Tissue Coverage for the Non-Microsurgeon: Non-Flap Local Coverage.” Instructional Course #3 *Mid-America Orthopaedic Association Annual Meeting, Boca Raton, Florida, April 14, 2007.*

Archdeacon MT; McCoy B; Hampton S; Ludwig MB. “A Prospective, Matched Controls Evaluation of Severely Injured (ISS \geq 30) Acetabulum Fracture Patients.” *Mid-America Orthopaedic Association Annual Meeting, Boca Raton, Florida, April 11-14, 2007.*

Martens JP; Archdeacon MT; Le TT; Wyrick JW. “Operative Delay in Hip Fracture Patients on Clopidogrel (Plavix).” *Mid-America Orthopaedic Association Annual Meeting, Boca Raton, Florida, April 11-14, 2007.*

Owens R; Harrison M; Archdeacon MT; Le TT; Wyrick JW. “Humeral Shaft Fracture Nonunion with Dynamic Compression Plating Versus Locked Plating.” *Mid-America Orthopaedic Association Annual Meeting, Boca Raton, Florida, April 11-14, 2007.*

Anglen J, Archdeacon MT, Cannada LK, Ostrum RF, Herscovici D. “Avoiding Complications in Fracture Care.” Instructional Course Lecture # 404 *American Academy of Orthopaedic Surgeons 74th Annual Meeting; San Diego, CA, February 18th, 2007.*

Archdeacon MT, Hewett T, Wyrick J, Hampton S, Ludwig MB, Paterno M, Ford K. “A Prospective, Randomized Functional Evaluation of Hip Function after Piriformis versus Trochanteric Femoral Nailing.” *American Academy of Orthopaedic Surgeons 74th Annual Meeting: OTA Specialty Day; San Diego, CA, February 18th, 2007.*

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Cannada LK, Dickson K, Archdeacon MT. "Femoral Nailing Tips: Selection of Position, Table and Starting Point: To Start From the Hip or the Knee?" *American Academy of Orthopaedic Surgeons 74th Annual Meeting: OTA Specialty Day; San Diego, CA, February 18th, 2007.*

Archdeacon MT, Hewett T, Wyrick J, Hampton S, Ludwig MB, Paterno M, Ford K. "A Prospective, Randomized Functional Evaluation of Hip Function after Piriformis versus Trochanteric Femoral Nailing." *Orthopaedic Trauma Association 22nd Annual Meeting, Phoenix, Arizona, October 5-7, 2006.*

Archdeacon MT, Hewett T, Hampton S, Ludwig MB, Paterno M, Ford K. "A Prospective, Randomized Study Of Entry Portal On Hip Biomechanics After Femoral Nailing." *Mid-America Orthopaedic Association Annual Meeting, San Antonio, Texas April 19-23, 2006.*

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

Archdeacon MT, Hewett T, Hampton S, Ludwig MB, Paterno M, Ford K. "A Prospective, Randomized Study Of Entry Portal On Hip Biomechanics After Femoral Nailing." *American Academy of Orthopaedic Surgeons 73rd Annual Meeting, Chicago, IL, March 22-26, 2006.*

Schnell S, Archdeacon MT, Hampton S, Ludwig MB. "A Prospective Study Of The Iliioinguinal-Stoppa Approach For Acetabulum Fractures." *American Academy of Orthopaedic Surgeons 73rd Annual Meeting, Chicago, IL, March 22-26, 2006.*

Fortuna RB, Wissman RD, Archdeacon MT.. "Innovative and Novel Concepts in Orthopaedic Trauma." *105th Annual Meeting of the American Roentgen Ray Society 2005, May 15-20, 2005 (Scientific Exhibit).*

Archdeacon MT, Hewett T, Hampton S, Ludwig MB, Paterno M, Ford K. "A Prospective, Functional Evaluation of Hip Abductor Function after Femur Fracture and Antegrade Nailing." *Orthopaedic Trauma Association 20th Annual Meeting, October 8 - 10, 2004.*

Pittner D, Wainright J, Archdeacon MT. "In Vitro Corrosion Analysis of 316L Stainless Steel Orthopedic Implants Subjected to Low-intensity Ultrasound," Southern Orthopaedic Association 2000 Annual Meeting.

Archdeacon MT, Davy DT, Jepsen KJ. "Time Dependent Damage Accumulation in Bovine Cortical Bone Loaded in Torsion," *Transactions of the 43rd Annual Meeting of the Orthopaedic Research Society*, Edited by L.J. Sandell, pp. 40, February 9-13, 1997.

Singerman R, Berilla J, Archdeacon MT, Peyser A. "Tibiofemoral Contact Forces for the Normal and Cruciate-Deficient Knee," *Transactions of the 43rd Annual Meeting of the Orthopaedic Research Society*, Edited by L.J. Sandell, pp. 653, February 9-13, 1997.

Archdeacon MT, Jepsen KJ, Davy DT. "The Effects Of Torsional Loading Conditions On Bovine Cortical Bone Strength: Preliminary Results," *Proceedings of the Fifteenth Southern Biomedical Engineering Conference*, Edited by P.K. Bajpai, pp. 445-448, March 29-31, 1996.

Archdeacon MT, Engin AE, Ostrum RF. "Physiologic Loading with a Single Axial Force and Two Bending Moments in Human Cadaver Tibiae Implanted with an Intramedullary Rod: Preliminary Results," *ASME BIOENGINEERING, ESDA Vol. 4*, Edited by A.E. Engin and A. Ertas, pp. 105-113, 1994.

Archdeacon MT, Engin AE, Ostrum RF. "An Evaluation of the Bending and Torsional Rigidities of the Tibiae -

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Intramedullary Rod Construct in Comminuted Fractures Subjected to Physiological Loading: Preliminary Results,”
Proceedings of the 18th Annual Meeting of the American Society of Biomechanics,
Edited by R.J. Gregor and A.S. Litsky, pp. 53-54, 1994.

GRANTS:

University Orthopaedic Research and Education Foundation – University of Cincinnati

“Precision Controlled Biologic Delivery Systems Employing”
Electrofluidic & Sonofluidic Gated Networks” \$28,554.00
PI’s: Michael T. Archdeacon, M.D & Jason Heikenfeld, PhD. April 2006

Orthopaedic Trauma Association – Resident Research Award

“The Impact of Antegrade Intramedullary Reaming on Bacterial Persistence in Open Femur Fractures” \$10,000.00
PI’s: J.R Romanowski & Michael T. Archdeacon, M.D April 2006

NIH Grant T32-AR07505 (Application)

“Pre-doctoral Training in Functional Tissue Engineering”
PI: David Butler, Ph.D. Application – May, 2006
Co-Investigator & Training Mentor: Michael Archdeacon, M.D., M.S.E. 5% Effort Application

Stryker Orthopaedics

“The Effect of Surgical Intervention on Knee Flexion/Extension Moment and the Angle in Patients Sustaining
Femoral Shaft Fractures Treated with Intramedullary Nailing” \$29,022.00
PI: Michael T. Archdeacon, M.D January 2005

Orthopaedic Research and Education Foundation – Zimmer Orthopaedic Career Development Awards

“Prospective Functional Performance Evaluation Of Lower Extremity Biomechanics After Femur Fracture Treated
With Intramedullary Nailing” \$48,618.00
PI: Michael T. Archdeacon, M.D February 2004

University Orthopaedic Research and Education Foundation – University of Cincinnati

“Functional Outcomes in Fractures of the Acetabulum” \$5,000.00
PI: Michael T. Archdeacon, M.D February 2003

University Orthopaedic Research and Education Foundation – University of Cincinnati

“Abductor Function in Fractures of the Femur Treated with Antegrade Intramedullary Nailing” \$5,000.00
PI: Michael T. Archdeacon, M.D February 2002

NIH Grant T32-AR07505

“The Training Program in Musculoskeletal Research” July 1995 - June 1996
Co-PIs: Roland W. Moskowitz, M.D., and Victor M. Goldberg, M.D.
Appointee for one year of postdoctoral research in Orthopaedic Biomechanics, specifically the material properties of
cortical bone in multimodal loading conditions.

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Ohio State University Intramural Interdisciplinary Seed Grant

“The Biomechanical Evaluation of Cadaveric Tibia Fixed with an Intramedullary Rod”
Co-PIs: Ali E. Engin, Ph.D., and Robert F. Ostrum, M.D.

\$56,000.00
April 1993 - June 1994

Roessler Medical Student Research Grant 1993

“The Biomechanical Evaluation of Cadaveric Tibia Fixed with an Intramedullary Rod”
PI: Michael Archdeacon

\$2,000.00
August 1992 – July 1993

RESEARCH - WORK IN PROGRESS:

- **A Prospective Study of Disability, Functional Outcomes and Biomechanics for Tibia Fractures with Intramedullary Nailing**
Principle Investigator: MT Archdeacon, MD
Co-PI: T Hewett, PH.D
Status: IRB Protocol #05-10-11-01- (pending approval); 2006 OREF Clinical Research Grant Application (\$149,000) submitted November, 2005
- **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, JD Wyrick, MD, TT Le, MD & MB Ludwig, BSN
Status: IRB Protocol#02-2-25-2-; 2004 OREF – Zimmer Orthopaedic Career Development Award (\$46,618); University (Cincinnati) Orthopaedic Research and Education Foundation Grant (\$5,000); OTA presentation 2004, 1 manuscript in press; 1 manuscript in preparation
- **Prospective Functional Performance Evaluation of Quadriceps Function After Femur Fractures Treated with Intramedullary Nailing**
Principle Investigator: MT Archdeacon, MD
Co-Investigators: JD Wyrick, MD, T. Hewett, Ph.D, MB Ludwig, BSN, M Paterno, PT, S Hampton, RA
Status: IRB Protocol #03-08-12-1; 2004 OREF – Zimmer Orthopaedic Career Development Award (\$46,618); Stryker Orthopaedics Research Grant (\$29,022); AAOS presentation 2006, manuscript preparation
- **Prospective Functional Outcomes in Fractures of the Acetabulum**
Principle Investigator: MT Archdeacon, MD
Status: IRB Protocol # 02-5-29-6EE; University (Cincinnati) Orthopaedic Research and Education Foundation Grant (\$7,000); AAOS presentation 2006; 2 OTA 2006 abstract submissions; 1 manuscript in press; 3 manuscripts in preparation
- **The Trochanteric Pelvic Clamp for Provisional Pelvic Stability**
Principle Investigator: MT Archdeacon, MD
Status: 1 manuscript published; 1 manuscript submitted
- **Segmental Fractures of the Lower Extremity**
Principle Investigator: MT Archdeacon, MD
Co-Investigators: R. Gokhale, MD, JD Wyrick, MD & MB Ludwig, BSN
Status: IRB Protocol #01-11-02-3EE; manuscript preparation
- **Retrospective Evaluation of Hip Fracture Patients Treated with Clopidogrel**
Principle Investigator: MT Archdeacon, MD
Co-Investigators: TT Le, MD, JP Martens, MD
Status: IRB approval pending; data collection

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- **Retrospective Analysis of a Unique Failure Mechanism for Intertrochanteric Fractures Treated with Cephalomedullary Nails**
Principle Investigator: MT Archdeacon, MD
Status: IRB approval pending; data collection
- **Prospective and Retrospective Comparison of Large Fragment and Small Fragment Locking Fixation for Humeral Shaft Fractures**
Principle Investigator: MT Archdeacon, MD
Co-Investigators: TT Le, MD, R Owens, MD
Status: IRB approval pending; data collection
- **Prospective Evaluation of High-Energy Tibial Pilon Fractures**
Principle Investigator: TT Le, MD
Co-Investigator: MT Archdeacon, MD
Status: IRB approval pending
- **Outcomes After Crescent Pelvic Fracture Dislocation With and Without Sacroiliac Joint Fixation**
Principle Investigator: M Prayson, MD
Co-PI: MT Archdeacon, MD
Status: IRB Protocol #05-06-01-01-; data collection
- **Immediate Versus Delayed Closure of Open Tibia Fractures: A Protocol for a Randomized Prospective Multicenter Study**
Principle Investigator: Michael Bosse, MD
Site Investigator: MT Archdeacon, MD
Status: IRB Protocol #03-5-12-5; pending NIH funding; manuscript preparation
- **Fixation Using Alternative Implants for the Treatment of Hip Fractures (FAITH): A Multi-Centre Randomized Trial Comparing Sliding Hip Screws and Cancellous Screws on Revision Surgery Rates in the Treatment of Femoral Neck Fractures:**
Principle Investigators: Mohit Bhandari, MD, Gordon Guyatt, PhD
Site Investigator: MT Archdeacon, MD
Status: Pending NIH / CHS funding
- **Hip Fracture Evaluation with ALternatives of Total Hip Arthroplasty Versus Hemi-Arthroplasty (HEALTH): A Multi-centre Randomized trial Comparing Total Hip Arthroplasty and Hemi-Arthroplasty on Revision Surgery and Quality of Life in Patients with Femoral Neck Fractures**
Principle Investigators: Mohit Bhandari, MD, Gordon Guyatt, PhD
Site Investigator: MT Archdeacon, MD
Status: Pending NIH / CHS funding

COMMITTEES & ORGANIZATIONS:

Section Editor, Knee & Tibia Journal of Orthopaedic Trauma	January ,2008 - Present Tampa, FL
AAOS Research Development Committee American Academy of Orthopaedic Surgeons	March, 2008 – March, 2009 Chicago, IL
OTA Resident Basic Fracture Course – Planning Committee Orthopaedic Trauma Association	2006 - 2008 Chicago, IL
Operating Room Culture Committee – The University Hospital University of Cincinnati Academic Medical Center	June, 2007 – present Cincinnati, OH

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Consultant Reviewer Journal of Orthopaedic Research	November, 2007 - Present Amsterdam, The Netherlands
OR Scheduling & Access Committee – The University Hospital University of Cincinnati Academic Medical Center	June, 2007 – present Cincinnati, OH
Dean’s Review Committee - Department of Emergency Medicine University of Cincinnati, College of Medicine	August, 2007 – October, 2007 Cincinnati, OH
OTA Research Committee Orthopaedic Trauma Association	March, 2004 – March, 2009 Chicago, IL
Capital Budget Committee – The University Hospital University of Cincinnati Academic Medical Center	November, 2006 – March, 2007 Cincinnati, OH
Dean’s Review Committee - Department of Ophthalmology University of Cincinnati, College of Medicine	September, 2006 – April, 2007 Cincinnati, OH
University of Cincinnati Physicians Marketing Committee University of Cincinnati Physicians, Inc.	January, 2007 – present Cincinnati, OH
Consultant Reviewer Journal of Bone and Joint Surgery, American	October, 2006 - Present Needham, MA
Consultant Reviewer Journal of the American Academy of Orthopaedic Surgeons	November, 2005 - Present Rosemont, IL
Editorial Review Board Journal of Orthopaedic Trauma	May, 2005 - Present Tampa, FL
Consultant Reviewer Journal of Orthopaedic Trauma	January, 2004 – May, 2005 Tampa, FL Cincinnati, OH

POSITIONS, LECTURES & AWARDS:

Voted “Top Doc” Cincinnati Magazine	November 2008 Cincinnati, OH
Grand Rounds, University of Kentucky Department of Orthopaedic Surgery	August 20, 2008 Lexington, KY
AAOS Instructional Course, Faculty “Preventing Complications Of Fracture Care”	February 25-28, 2009 Las Vegas, NV
AAOS Instructional Course, Faculty “Non-union Evaluation and Treatment”	February 25-28, 2009 Las Vegas, NV
OTA Advanced Trauma Techniques Course for Residents 2008 Course Faculty	May 16 - 17, 2008 Dallas, TX
MAOA Annual Meeting – Session Moderator Breakout Session - Trauma	April 17, 2008 Orlando, FL
AAOS Instructional Course #149, Faculty “Preventing Complications Of Fracture Care”	March 5, 2008 San Francisco, CA
Orthopaedic Trauma: Concepts to Controversies Course Faculty	February 12-16, 2008 Aspen, CO

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AO Basic Principle Course for Residents Course Faculty - AO North America	January 31-February 3, 2008 Jacksonville, FL
Current Techniques in Limb Reconstruction Course Faculty	January 25, 2008 Aspen, CO
Grand Rounds, University of Texas Medical Branch Department of Orthopaedic Surgery	December 12, 2007 Galveston, TX
AAOS – OTA Strategies and Tactics in Orthopaedic Extremity Trauma Course Faculty	December 6-8, 2007 Rosemont, IL
Current & Advanced Trauma Techniques for Community & General Orthopaedists Course Faculty	October 5-6, 2007 Las Vegas, NV
Grand Rounds, Tripler Army Medical Center Department of Orthopaedic Surgery	August 15, 2007 Honolulu, HI
Grand Rounds, University of Hawaii, Queen’s Medical Center Department of Orthopaedic Surgery	August 14, 2007 Honolulu, HI
Trauma 101 – 5th Annual Meeting; Chairman University of Cincinnati	April 27-28, 2007 Cincinnati, OH
MAOA Instructional Course, Faculty “Soft Tissue Coverage for the Non-Microsurgeon: Non-Flap Local Coverage”	April 14, 2007 Boca Raton, FL
AAOS – Leadership Fellowship Program	February, 2006 – February, 2007
AAOS – OTA Specialty Day Highlight Paper “A Prospective, Randomized Functional Evaluation of Hip Function after Piriformis versus Trochanteric Femoral Nailing.”	February, 2007 San Diego, CA
AAOS – OTA Specialty Day, Faculty Femoral Nailing Tips: To Start From the Hip or the Knee?	February 17, 2006 San Diego, CA
AAOS Instructional Course, Faculty “Preventing Complications Of Fracture Care”	February 17, 2006 San Diego, CA
Orthopaedic Trauma Association, Faculty 2006 Basic Science Fracture Forum; Moderator	October 4-7, 2006 Phoenix, AZ
Orthopaedic Trauma Association, Faculty 2006 Residents Basic Fracture Course	October 4-7, 2006 Phoenix, AZ
Surgical Clinical Conference, University of Cincinnati Department of Surgery	May 31, 2006 Cincinnati, OH
Grand Rounds, University of Chicago Department of Orthopaedic Surgery	May 24, 2006 Chicago, IL
Trauma 101 – 4th Annual Orthopaedics: Fracture Care, Meeting Chairman University of Cincinnati	May 11-12, 2006 Cincinnati, OH
AO Basic Principle Course for Residents AO North America	March 9-12, 2006 St. Louis, MO
Invited Lecturer, College of Mount St. Joseph Department of Health Sciences	March 9, 2006 Cincinnati, OH
3rd Annual Current Solutions in Orthopaedic Trauma, Faculty University of South Florida	December 8-11, 2005 Orlando, FL

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Orthopaedic Trauma Association, Faculty 2005 Residents Basic Fracture Course	October 19-22, 2005 Ottawa, Canada
Surgical Clinical Conference, University of Cincinnati Department of Surgery	June 8, 2005 Cincinnati, OH
Grand Rounds, University of Cincinnati Department of Radiation Oncology	May 18, 2005 Cincinnati, OH
Trauma 101 – 3rd Annual Orthopaedics: Fracture Care, Meeting Chairman University of Cincinnati	April 29-30, 2005 Cincinnati, OH
Invited Lecturer, College of Mount St. Joseph Department of Health Sciences	March 3, 2005 Cincinnati, OH
Grand Rounds, University of Cincinnati Department of Orthopaedic Surgery	January 8, 2005 Cincinnati, OH
Grand Rounds, CASE School of Medicine Department of Orthopaedic Surgery	December 23, 2004 Cincinnati, OH
Grand Rounds, University of Cincinnati Department of Emergency Medicine	September 15, 2004 Cincinnati, OH
2nd Annual Current Solutions in Orthopaedic Trauma, Faculty University of South Florida	November 18-20, 2004 Tampa, FL
Grand Rounds, University of Mississippi Department of Orthopaedic Surgery	June 15, 2004 Jackson, MS
Grand Rounds, University of Cincinnati Department of Physical Medicine & Rehabilitation	May 6, 2004 Cincinnati, OH
Trauma 101 – 2nd Annual Damage Control Orthopaedics, Meeting Chairman University of Cincinnati	April 22-23, 2004 Cincinnati, OH
Invited Lecturer, College of Mount St. Joseph Department of Health Sciences	March 4, 2004 Cincinnati, OH
Grand Rounds, University of Louisville Department of Orthopaedic Surgery	January 27, 2004 Louisville, KY
Grand Rounds, Mt. Caramel Hospital Department of Orthopaedic Surgery	October 31, 2003 Columbus, OH
Orthopaedic Trauma Association, Faculty Hands-On Lab Pilon Fractures ORIF	October 10, 2003 Salt Lake City, UT
Orthopaedic Trauma Association, Faculty 2003 Residents Basic Fracture Course	October 8-11, 2003 Salt Lake City, UT
Zimmer Resident Trauma Course, Faculty Course Faculty	September 5-7, 2003 Chicago, IL
Grand Rounds, Orlando Regional Medical Center Department of Orthopaedic Surgery	August 29, 2003 Orlando, FL
Trauma 101 – Damage Control Orthopaedics, Meeting Chairman University of Cincinnati	May 9-10, 2003 Cincinnati, OH
Faculty Resident's Appreciation Award University of Cincinnati, Department of Orthopaedic Surgery	April 22, 2003 Cincinnati, OH

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Orthopaedic Trauma Association, Faculty Hands-On Lab Calcaneus Fractures ORIF	October 11, 2002 Toronto, Canada
Orthopaedic Trauma Association, Faculty 2002 Residents Basic Fracture Course	October 10, 2002 Toronto, Canada
Orthopaedic Trauma Association, Laboratory Instructor 2000 Residents Basic Fracture Course	October 12-14, 2000 San Antonio, TX
2nd Place - Resident Essay Contest Cleveland Orthopaedic Society	June 10, 2000 Cleveland, OH
Chief Resident Teaching Award Case Western Reserve University Department of Orthopaedic Surgery	June 2, 2000 Cleveland, OH
Resident Scholarship Award AAOS Basic Course for Orthopaedic Educators	November 13-19, 1999 Monticello, Illinois
Orthopaedic In-Training Exam CWRU Departmental Award Scored highest in department with 97 th percentile on 1998 OITE	June 31, 1999 Cleveland, OH
Invited Guest Lecturer The Ohio State University College of Medicine	October, 1993-1998 Columbus, OH
1st Place - Post-Doctoral Paper Award Fifteenth Southern Biomedical Engineering Conference "The Effects Of Torsional Loading Conditions On Bovine Cortical Bone Strength"	March 29-31, 1996 Dayton, OH
Vice-chairman of the Bioengineering Session II Second Biannual European Joint Conference on Systems Design and Analysis	July 4-7, 1994 London, England
Omicron Delta Kappa - National Leadership Honor Society	1988
Alpha Eta Mu Beta - Biomedical Engineering Honor Society	1987
Alpha Epsilon Delta - Premedical Honor Society	1987
M.H. Rykoski Engineering Academic Scholarship	1987
Phi Eta Sigma - Freshman Honor Society	1986
Frank E. Davis Memorial Academic Scholarship	1986

ADDITIONAL PERSONAL EXPERIENCE:

Master Thesis Committee – Taylor Arnholt University of Cincinnati College of Engineering	July 2006 – April, 2008 Cincinnati, Ohio
Master Thesis Committee – James Thacker University of Cincinnati College of Engineering	July 2006 – December, 2007 Cincinnati, Ohio
University Hospital Capital Committee University of Cincinnati Medical Center	November 2006 – present Cincinnati, Ohio
Medical Directors Executive Development Program University of Cincinnati Medical Center	January 2005 – November 2005 Cincinnati, Ohio
Finance Council St. James White Oak Church	October 2004 – present Cincinnati, Ohio

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Hockey Coach, Squirt Select & House Teams August 2005 – March 2006
Cincinnati Amateur Hockey Association Cincinnati, Ohio

Track Coach April 2005 – May 2005
St. James White Oak School Cincinnati, Ohio

Festival Booth Chairperson July, 2002 – 2005
St. James White Oak Church Cincinnati, Ohio

Advisor, Biomedical Engineering Senior Design Team January, 2005 - May, 2005
Rensselaer Polytechnic Institute, School of Engineering Troy, NY
Senior design team evaluated and designed prototype pelvic clamp for hemipelvic disruption.

Affiliate Clinical Instructor, Department of Surgery, November, 1995 – July, 2000
Division of Trauma, Burns, Critical Care and Life Flight, MetroHealth Medical Center
Case Western Reserve University School of Medicine Cleveland, Ohio
Flight physician responsible for evaluation and care of critically ill trauma patients during aeromedical transport.

Team Physician August, 1996 - 2000
Mayfield High School Mayfield Heights, Ohio
High school football and wrestling team physician responsible for medical coverage of varsity competitions and pre-participation physical examinations.

Instructor, Medical Anatomy & Physiology August-September, 1995
Case Western Reserve University College of Medicine Cleveland, Ohio
Laboratory Instructor for medical anatomy and physiology for first year medical students.

Instructor, Ohio Department of Health November, 1995
Valley Forge High School Parma, Ohio
Instructor for “Certification of Day Care Personnel Trained in First Aid / Communicable Disease” course.

Biomedical Engineering Design Team September, 1988 - May, 1989
Tulane University School of Engineering New Orleans, LA
Development team evaluated feeding needs of a C4-5 tetraplegic patient and designed, constructed, and tested a prototype which enabled the patient to feed himself independently.