

Curriculum Vitae

**COURTLAND GILLETT LEWIS, M.D.**

**PROFESSIONAL**

**Affiliation:**

July 3, 2000 - present  
Clinical Professor  
Department of Orthopaedic Surgery  
University of Connecticut Health Center, Farmington, CT

July 3, 2000 – present  
Orthopaedic Associates of Hartford, PC  
Hartford, CT

August 1, 2007 – present  
Connecticut Joint Replacement Institute  
Director of Research & Quality Improvement

September 1, 1998 – June 30, 2000  
Professor  
Department of Orthopaedic Surgery  
University of Connecticut Health Center, Farmington, CT

September 1, 1993 to August 31, 1998  
Associate Professor of Clinical Orthopaedic Surgery  
University of Connecticut Health Center, Farmington, CT

July, 1985 to August 31, 1993  
Assistant Professor  
Department of Orthopaedic Surgery,  
University of Connecticut Health Center, Farmington, CT

July, 1990 to June 2000  
Program Director  
University of Connecticut Orthopaedic Residency Program

July 1990 to June 2007:  
Director of Orthopaedic Education  
Hartford Hospital

July, 1990 to August 1992  
Acting Chairman  
Department of Orthopaedic Surgery,  
University of Connecticut Health Center,  
School of Medicine, Farmington, CT

**Sabbatical:**

September to November, 1992  
Istituti Ortopedici Rizzoli  
Bologna, Italy

**Fellowship:** July, 1984 to June, 1985:  
Assistant in Orthopaedic Surgery, Division of Arthritis Surgery  
Johns Hopkins University, Baltimore, MD

**Residency:** July, 1979 – June, 1980: general surgery internship; University of Maryland  
July, 1980 – June, 1984: orthopaedic surgery residency; University of  
Maryland Hospital

**Medical School:** University of Vermont, College of Medicine, Burlington, Vermont:  
M.D. degree, 1979

**College:** Bates College, Lewiston, Maine: B.S. degree in Chemistry, 1974

### Memberships

Hartford County Medical Association	1985
Orthopaedic Research Society	1986
American Academy of Orthopaedic Surgeons,	1989
Academic Orthopaedic Society	1990
Association for Arthritic Hip and Knee Surgery	1991
Connecticut State Medical Society	1993
American Orthopaedic Association	1997
Twentieth Century Orthopaedic Association	1997

### Abstracts

Edwards, C.C., Lewis, C.G., Browner, B.D. & Catanzariti, F.J., Treatment of open femoral and tibial shaft fractures with external fixation, *Orthop. Transactions*, 6:407, 1982

Edwards, C.C., Browner, B.D., Catanzaritta, F.J. & Lewis, C.G., Reconstruction of 44 Severly Injured Open Femurs Using Hoffman External Fixation. *Orthopaedic Transactions*, 7:522-3, 1983

Sothoron, W.H., Lewis, C.G., Abrams, R.C. & Morrow, D.A., Evaluation at skeletal maturity of varus derotational osteotomy in the treatment of Legg-Calve-Perthes disease, *Orthop. Transactions*, 9:148, 1985

Lewis, C.G., Malinow, K.L., Jones, L.C., Krackow, K.A., Lennox, D.W. & Hungerford, D.S. Prospective psychological evaluation of total joint arthroplasty patients. *Orthop. Transactions*, 10:472, 1986

Lewis, C.G., Jones, L.C., Connar, K., Lennox, D.W. & Hungerford, D.S.: An evaluation of grafting materials in cementless arthroplasty. *Trans. ORS* 12:319, 1987; 11:365, 1987

Jones, L.C., Lewis, C.G., Lennox, D.W., Schofield, B.H., and Hungerford, D.S. Evaluation of bone grafting materials in an animal model of revision arthroplasty. *Orthop. Transactions*, 12(2):405, 1988

Belniak, R.M., Lewis, C.G., Hopfer, S.M. and Sunderman, F.W. Cobalt gradients adjacent to failed total hip arthroplasties and their relationship to serum measurements. *Orthopaedic Transactions*, 14(2):467, 1990

Lewis, C.G., Leone, D.J., Nowak, M.D., Davis, P.A. and Huang, S.J. Experimental Validation of Three Dimensional Finite Element Analysis in Total Hip Arthroplasty, *Transactions of Orthopaedic Research Society*, 16 (2):515, 1991

Diemente, S., Lewis, C.G., Nowak, M.D., Leone, D.J. "Finite Element Modeling from CT Scan Data", *Proceedings of the 1991 IEEE Seventeenth Annual Northeast Bioengineering Conference*, April 4-5, 1991, Hartford Graduate Center, Hartford Connecticut

Lewis, C.G., Pillsbury, S. "Thin-Needle Biopsy in Osteonecrosis: Correlation with Core Specimens of the Femoral Head", *Arthritis and Rheumatism*, 33 (9):S116, September 1990

Nowak, M.N., Lewis, C.G., Leone, D.J. "Analysis of Hip Implant Stem Modifications via a Validated Orthotropic Finite Element Model", *Advances in Bioengineering*, BED-Vol. 22, ASME 1992

Lewis, C.G., Beauchesne, R., Adams, J., Gossling, H.R. and Pasternak, H.R. "Survivorship of the TrapeZoidal-28 Hip Arthroplasty: Minimum 18 Year Follow-up", Presented at Annual Meeting of American Association of Hip and Knee Surgeons, November 1996, Dallas, TX.

Heck, D., Reuben, J., Stiehl, J., Mekso, J.W. and Lewis, C.G. "The Association of Knee Prosthetic Classification on Re-operation", Accepted for presentation at the 65<sup>th</sup> Annual Meeting of the American Academy of Orthopaedic Surgeons, March 1998, New Orleans, LA.

## **Publications**

Lewis, C.G., Moreland, M.S. & Pope, M.H., Moire fringe topography in gait analysis: A methodologic evaluation, in Moreland, M.S. et al (eds.), Moire Fringe Topography and Spinal Deformity, Pergamon Press, New York, 1981

Freedman, M., Gamble, J.G. & Lewis, C.G., Intrauterine fractures simulating a unilateral clavicular pseudoarthrosis, *J. Can. Assoc. Radiol.*, 33:37-38, 1982

Lewis, C.G., Guest Editorial, Patellar Pitfalls, *Complications in Orthopedics*, 3(6):147 November/December, 1988

Zizic, T.M., Lewis, C.G., Marcoux, C., & Hungerford, D.S., The Predictive Value of Hemodynamic Studies in Preclinical Ischemic Necrosis of Bone, *J Rheumatol* , 16: 1559-1564, 1989

Lewis, C.G., Belniak, R.M., Hopfer, S.M. & Sunderman, F.W., Jr., Cobalt in Periprosthetic Soft Tissue: Observations in Six Revision Cases, *Acta Orthopaedica Scandinavia*, 62: 447-450, 1991

Lewis, C.G., Judge, J. "Hip Fractures" Chapter in The Practice of Geriatrics, Second Edition, Calkins, Ford, Katz. W.B. Saunders Company, 1991

Reisine, S., Lewis, C.G., Tibbles, L., Donald, M., Rippey, R., "Self-Administered Patient Questionnaire for Assessing Knowledge About Joint Arthroplasty Prior to Surgery". *Arthritis Care and Research*, 5(1): 8-12, March 1992

Nowak, M.D., Lewis, C.G., Leone, D.J. "Analysis of Hip Implant Stem Modification via a Validated Orthotropic Finite Element Mode", 1992 *Advances in Bioengineering*, p. 163-166, June 1992

Toni, A., Lewis, C.G., Sudanese, A., Stea, S., Calista, F., Savarino, L., Pizzoferrato, A., Guinti, A. "Bone Demineralization Induced By Cementless Alumina Coated Femoral Stems", *The Journal of Arthroplasty* , 9 (4):435-444, August 1994

Lewis, C.G., Belniak, R.M., Plowman, M.C., Hopfer, S.M., Knight, J.A., Sunderman, F.W. Jr. "Intraarticular Carcinogenesis Bioassays of CoCrMo and TiAlV Alloys in Rats", *The Journal of Arthroplasty* , 10 (1):75-82, February 1995

Zizic, T.M., Hofman, K.C., Holt, P.A., Hungerford, D.S., O'Dell, J.R., Jacobs, M.A., Lewis, C.G., Deal, C.L., Caldwell, J.R., Cholewczynski, J.D., et.al. "The Treatment of Osteoarthritis of the Knee with Pulsed Electrical Stimulation", *J. Rheumatol*, 22 (9): 1757-1761, September 1995

Heck, D.A., Partridge, C.M., Reuben, J.D., Lanzer, W.L., Lewis, C.G. and Keating, E.M. "Prosthetic Component Failures in Hip Arthroplasty Surgery", *The Journal of Arthroplasty*, 10 (5):575-580, October 1995

Harrington, R.D., Lewis, C.G., Aslanzadeh, J, Stelmach, P. and Woolfrey, A.E. "*Oerskovia xanthineolytica* Infection of a Prosthetic Joint: Case Report and Review". *Journal of Clinical Microbiology*, 34 (7):1821-1824, April 1996

Lewis, C.G. and Sunderman, F.W. "Metal Carcinogenesis in Total Joint Arthroplasty". *Clinical Orthopaedics and Related Research*, 329S:S264-S268, 1996

Soni, M.K., Shetty, D., Leone, D.J., Nowak, M.D. and Lewis, C.G. "Investigation Into a Miniaturized Sensing Device For Angular Measurement in Hip Implants", Accepted for publication, *Advances in Bioengineering*, 1996

Lewis, C.G., Jones, L.C., Hungerford, D.S. "The Effects of Grafting on Porous Metal Ingrowth: A Canine Model". *The Journal of Arthroplasty*, 12(4):451-460, 1997

Livingston, K., Horbatuck, A., Lewis, C.G. "Case Study in Total Hip Arthroplasty: A Patient-Centered Model of Care" in Interdisciplinary Case Studies in Health Care Redesign, Parsons, M.L. et al (eds.), Aspen Publication, Maryland. Chapter 12: 209-221, 1998

Benson, E.R., Resine, S.T., Lewis, C.G. "Functional Outcome of Arthrodesis for Failed Total Knee Arthroplasty". *Orthopaedics*, 21 (8); 875-879, August 1998

## **BOOKS AND CHAPTERS**

"General Orthopaedics" section editor in Orthopaedics, Malkani, A., Kaufer, H. and R. Fitzgerald (ed), Harcourt Press, New York, 2001.

"Orthopaedic Pocket Procedures" (series editor), McGraw-Hill, New York, 2002/2003

General Orthopaedics, (volume editor), 2002.

Pediatric Orthopaedics, Blasier, DL & J Drennen (ed) 2003

Foot and Ankle, Kelikian, A. (ed) 2003

Sports Medicine, Arciero, R. (ed) 2003

## **GRANTS/FUNDED RESEARCH**

"Total Joint Arthroplasty: Patient Education and Monitoring", N.I.H. (#AR 20621) Project grant for Multipurpose Arthritis Center. R. Rippey, Co-P.I.: 1987-1992. \$292,800

"Parametric Model of Uncemented Total Hip Implants", (Faculty Research Grant): 1986-1989. \$14,447

"Parametric Modelling of Uncemented Total Hip Implants", (OREF Research Grant): 1989-1990. \$38,388

"Use of Bionicare System in the Treatment of Arthritis":, (Murray Electronics), 1988-1990. \$22,746

"Intraarticular Metal Carcinogenesis: Effects of Commonly Used Implant Biomaterials in a Rat Knee Model", (American Cancer Society): 1989-1990. \$7,538

"Finite Element Analysis in Uncemented Total Hip Arthroplasty", (OREF Research Grant): 1990-1991. \$34,649

"Comparison of the Safety and Efficacy of Patient Controlled Analgesia Delivered by Fentanyl HCL Transdermal System Versus Morphine IV Pump for Pain Management after Primary Unilateral Total Hip Replacement" (Ortho-McNeil), 2005. \$262,000

"Patients A Multi-Center, Double-Blind, Placebo-Controlled, Randomized Study of the Analgesic Efficacy and Safety of Valdecoxib 20mg QD and Valdecoxib 20mg BID Compared to Placebo Over Multiple Days for Management of Acute Post-Surgical pain in Patients Undergoing Anterior Cruciate Ligament Reconstruction" (Pfizer) 2006. \$69,250

"A Phase 2, Randomized, Double-Blinded (BMS-562247 and enoxaparin), Active-Controlled (enoxaparin and warfarin), Parallel-Arm, Dose-Response Study of the Oral Factor Xa Inhibitor BMS-562247 in Subjects Undergoing Elective Total Knee Replacement Surgery" 2006. (Bristol-Myers-Squibb) \$8,400

"Morbidity and Mortality of Uncemented vs Cemented Hemiarthroplasty in Subcapital Hip Fractures." 2005 (Zimmer). \$175,000

"A Multi-Center, Randomized, Double-Blind, Placebo-Controlled, Parallel Design, 2-Arm Study to Investigate the Effect of Aprotinin on Transfusion Requirements and Blood Loss in Patients Undergoing Elective Primary Total Hip Replacement Surgery" 2007 (Bayer) \$42,855

"A Randomized, Double-Blind, Active and Placebo-Controlled, Parallel-Group, Multicenter Study to Evaluate the Efficacy and Safety of Multiple Doses of CG5503 Immediate-Release (IR) Formulation in the Treatment of Acute Pain From Total hip Replacement Surgery Followed by a Voluntary Open-Label Extension" 2006. (Johnson & Johnson) \$85,913

"A Phase 3 Randomized, Double-Blind, Active-Controlled (Enoxaparin), Parallel group, Multi-Center Study to Evaluate the Safety and Efficacy of Oral, Once-daily Apixaban in Subjects Undergoing Elective Total Knee Replacement Surgery" 2006. (Bristol-Myers-Squibb) \$172,860

"Transfusion Trigger Trial for Functional Outcomes in Cardiovascular Patients Undergoing Surgical Hip Fracture Repair (FOCUS)" 2008. Jeffrey Carson, P.I., \$109,000

"Phase IV Study of Vitamin-E Impregnated Polyethylene versus Low Dose Radiation in Total Hip Arthroplasty" 2009. (Biomet) \$47,000

## **COMMITTEES**

### **National**

AAOS Committee on Evaluation

January 1990 - January 1995

AAOS Committee on Educational Programming	October 1993 - 2003
AAOS Subcommittee on Hip, Knee and Adult Reconstruction Evaluation, Chairman	January 1995 – March 2001
AAOS “Task Force on Distance Learning”	January 2000
AAOS Orthopaedic Grand Rounds, Case Developer	February 1996 – March 1998
University Hospital Consortium	
Clinical Evaluative Sciences Council Representative	August 1993 - November 1997
University Hospital Consortium Clinician Coordinating Committee - Total Hip Arthroplasty Benchmarking	March 1995 – September 1995
Total Joint Implant Purchasing Task Force	March 1995 – March 1998
AAHKS Research Committee	January 1994 - October 1997
AAHKS Communications Committee	January 1997 – October 2000
AAHKS Alternate AMA Delegate	June 2008 – present
AAHKS Health Policy Committee	November 2009 - present
AOS Committee on Graduate Medical Education	February 1997 – February 1999
	Chair November 2002 – June 2003
AOS Undergraduate Medical Education Committee	January 1999 – June 2003
AOA Ethics Committee, Chair	July 1999 – June 2000
AOA Graduate & Medical Education Committee	June 2000 – present
Novation Orthopaedic Advisory Council	September 2000 – 2006
Vice-Chair	May 2003 - 2006
Medicare Evidence Development & Carrier Advisory Committee	October 2010 - present

**State**

Connecticut Lupus Chapter, Medical Advisory Board	January 1993 - present
Connecticut State Medical Society	
House of Delegates	January 1998 – present
Medicare Committee	September 2006 – present
CAC Representative	September 2008 – present
Legislative Committee	September 2009 - present
Chair	September 2011 - present
Vice Speaker	September 2010 - present
Executive Committee	September 2010 - present

**Hartford County Medical Association**

Committee on Communications	January 1992 - December 1997
Board of Directors	January 1999 – present
Secretary/Treasurer	October 2005 – October 2006
Vice President	October 2006 – October 2007
President	October 2007 – October 2008
Executive Committee	October 2005 - present

**University of Connecticut School of Medicine**

Committee on Graduate Medical Education	January 1990 – May 2000
CGME Program Review Subcommittee, Chair	December 1996 – May 2000
Associate Vice President for Information Technologies	
Search Committee, Chair	1994
Department of Anesthesiology Review, Chair	April 1994
Department of Medicine Review	December 1996 - February 1997

Clinical Faculty Governance Steering Committee,  
Chair

August 1995 - May 1996



### **John Dempsey Hospital**

Transfusion Committee	October 1987 - July 1996
Hospital Director's Advisory Committee	July 1990 - August 1992
Joint Conference Committee	July 1990 - August 1992
Medical Board	July 1990 - August 1992
Operating Room Committee	October 1990 - December 1992

### **University Physicians**

Medical Records Committee	July 1988 - December 1988
Medical Records - Format Subcommittee	October 1989 - March 1990
Medical Records Committee	August 1990 - December 1993
Executive Committee	July 1990 - December 1993
Medical Records/Quality Assurance Committee Chairman	May 1991 - December 1993
UHC/HH Alliance Task Force on Physician Practice	August 1996 - March 1998

### **University of Connecticut HealthSystem**

Clinical Governance Committee Vice Chair	May 1996 – June 1999
Clinical Practice Subcommittee Chairman	May 1996 – June 1999
Patient Focused Redesign Task Force	July 1995 - June 1997
Electronic Medical Record Committee	September 1995 - September 1996
Chancellor's Advisory Council	September 1998 – May 2000

### **UConn Orthopaedic Residency**

Residency Program Director	July 1990 – August 2000
Residency Education Committee	July 1986 – June 2007
Residency Research Committee	July 1993 – June 2007

### **Other Professional Activities**

Deputy Editor-in-Chief - <i>Complications in Orthopaedics</i>	1987-1992
Expert Analyst - <i>Advances in Orthopaedic Surgery</i>	1990-1996
Associate Editor - <i>Journal of Arthroplasty</i>	1991-present
Expert Reviewer - <i>Medscape Orthopaedics &amp; Sports Medicine</i>	1997 - 1999
University of Connecticut Health Center Hemophilia Treatment Center - Staff Orthopaedist	1985 - 1994

### **Community Activities**

First Church of Christ Congregational, West Hartford, Connecticut	
Christian Education Board	1996-1997
Vice Moderator	1998-1999
Personnel Committee, Chair	1998-1999
Moderator	1999 –2001
Deacon	2004- 2009
Long range Planning, Chair	2006-2007
Leadership Ministry, Chair	2008-2011

Treasurer  
Medicins sans Frontieres (Doctors without Borders)  
North West Frontier Province, Pakistan

2011-present

December 2005

CGL/CV (rev. Sep 2011)