

DAVID COVALL, MD | PRESENTER



David Covall, with more than thirty years of experience, leads the Northside Arthritis Center, which provides conservative, patient-centered personalized care. The center engages and empowers patients to take part in a shared-medical decision process to establish their personalized lifetime of care plan. Dr. Covall has become a Champion of Yes for the Arthritis Foundation. Besides his staggering fundraising work for the organization, Dr. Covall has been a valuable volunteer for the Science pillar. He became a Science volunteer in 2014 and quickly jumped in to offer his services for the group. He is a member of the 2015 Scientific Discovery Advisory Committee (SDAC) and now represents the SDAC as a speaker at Arthritis Foundation events in the regions. He was a reviewer for the Scientific Strategy and serves as an advisor to the osteoarthritis and rheumatoid arthritis Big Data projects. "It's important to help where you can," he says. "I volunteer so I can make a difference. Most of my adult life has been devoted to people with arthritis, and the Arthritis Foundation is so important to all of us. Get involved, no matter how much or how little – it all helps. We must help our neighbors, friends and family deal with this debilitating disease."

DAVID J. COVALL, M.D.

PROFESSIONAL EXPERIENCE

Northside Arthritis Center Medical Director	7/2013-Present
Northside Hospital Forsyth Comprehensive Joint Arthroplasty Management Program, Developer and Medical Director Institute for Healthcare Improvement and Harvard Business School Total Joint Arthroplasty Collaborative, Local project director	7/2013-Present
Resurgens Orthopaedics Clinical Private Practice, Partner Hip and Knee Surgery Resurgens Total Joint Arthroplasty Center, Co-Director Resurgens Board of Directors, 2006-2010	3/2003-7/2013
Peachtree Orthopaedic Clinic, P.A. Clinical Private Practice, Partner	2/1997-3/2003

2015 Ishmael Lectureship



The Southeast Permanente Medical Group, Atlanta, Georgia
Department of Orthopaedic Surgery 10/1993-2/1997

Boston City Hospital, Boston, Massachusetts
Associate Director, Department of Orthopaedic Surgery 8/1990-10/1993

University Hospital, Boston, Massachusetts
Private Attending 8/1990-10/1993

RESEARCH AND DESIGN EXPERIENCE

UMBRA Global, LLC, Global Solutions for Life & Health Sciences
Co-Founder and President 1/2014-present

Comprehensive Patient Recovery, LLC
Founder and Managing Partner
Developer of personalized medicine algorithms 1/2012-present

Research and Design in Motion, LLC
Founder and Managing Partner
Patented Total Joint Implants, Porous Materials
And Arthroplasty Methods and Systems 2/2010-present

Treeridge Research Consulting, Inc
President, CEO 1/2001-12/2011

OPUS Institutional Review Board
Chief Clinical Officer 3/2009-1/2010

nTouch Research
Principal Investigator 5/1998-12/2000

Boston University Medical Center, Boston, Massachusetts
Research Associate, Orthopaedic Surgery 6/1975-7/1982

Analysis and Inference, Inc., Boston, Massachusetts
Research Associate 5/1979-12/1980

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EDUCATION

Boston University School of Medicine, Boston, Massachusetts Doctor of Medicine	May 1984
Harvard College, Cambridge, Massachusetts Bachelor of Art, with honors in Chemistry	January 1980

TRAINING

Lahey Clinic Medical Center, Burlington, Massachusetts Fellow, Stephen A. Wasilewski, M.D., Chairman Department of Orthopaedic Surgery	1989-1990
Boston Medical Center, Boston, Massachusetts Residency, Orthopaedic Surgery	1985-1989
Beth Israel Medical Center, New York, New York Intern, General Surgery	1984-1985

LICENSURE AND CERTIFICATION

Georgia #037514	1993
Massachusetts #71417	1989-2006
National Board of Medical Examiners Diplomate #295931	1985
American Board of Orthopaedic Surgery	1992-2002
Board Recertification	2002-2012
Board Recertification (MOC)	2013-2023

AFFILIATIONS

American Academy of Orthopaedic Surgeons, Fellow	
American Association of Hip and Knee Surgeons, Fellow	
Georgia Orthopaedic Society	
Medical Association of Georgia	
Atlanta Medical Association	
Massachusetts Orthopaedic Association Board of Directors	1990-1993
Massachusetts Medical Society	1987-1994

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ACADEMIC APPOINTMENTS

Boston University School of Medicine, Boston, Massachusetts
Assistant Professor of Orthopaedic Surgery 1990-1994

HOSPITAL APPOINTMENTS, BOARDS, COMMITTEES

The Arthritis Foundation, Board of Directors, Leadership Council 2014-2018
Atlanta, GA

The Arthritis Walk, 2015, Chairperson 2014-2015

Northside Hospital Forsyth, Cumming, GA 2007-2014
Chief of Surgery

Resurgens Joint Replacement Center 2007-2013
Co-Medical Director

Northside Hospital, Atlanta, Georgia 2007-2015
Medical Executive Committee, Member
Surgical Executive Committee, Member 2007-2015

Delegate, House of Delegates, Medical Association of Georgia 2010-2012
Savannah, Georgia

Resurgens Orthopaedics, Atlanta, GA 2006-2010
Board of Directors

Prime MD, LLC 2004-2006
Board of Directors

Atlanta Outpatient Surgery Center, Atlanta, GA 2001-2003
Medical Executive Committee, Chairman

National Football League Players Alumni Association 1999-2006
Consultant

Northside Hospital, Atlanta, GA 1998-2000
Orthopaedic Section, Chair
Orthopaedic Section, Vice-chair 1997-1998

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Committee on Implant Selection, Chairman	1998
Taskforce on Total Joint Guidelines, Chairman	1997-2005
Committee on Rehabilitation and Therapy, Chairman	1998-2005
Committee on Education and Research	1995-2000
University Hospital, Boston, Massachusetts	
Task force on HIV Guidelines	1992
Committee on Research and Ethics	1991

AWARDS AND HONORS

One of the Top 70 Hip Surgeons in the United States, 2012, Becker's Orthopedic and Spine Review, a national orthopedic publication.

One of the Top 125 Knee Surgeons in the United States, 2012, Becker's Orthopedic and Spine Review, a national orthopedic publication.

"President's Award 2011-2012" National Association of Orthopaedic Nurses, 32nd Congress, New Orleans, LA, 2012.

"Top Orthopaedic Surgeon in Metro Atlanta": National Consumers' Checkbook's 3rd annual "Consumers' Guide to Top Doctors", 2009.

"Top Physician in Georgia": Patients' Choice Award, 2008, 2009, 2010, 2011, 2012 and 2013.

"America's Most Compassionate Doctor": Vitals.com and Patientschoice.org, 2010, 2011, 2012 and 2013.

PUBLICATIONS

Yablon, IG, Brandt KD, Delellis, R, and Covall, D: The antigenic determinants of articular cartilage: Their role in the homograft rejection. Trans. Ortho. Res. Soc., 2:90, 1977.

Yablon, IG, Brandt, KD, Delellis, R, and Covall, D: Destruction of joint homografts. Arthritis and Rheumatism 20: 1526, 1977.

Yablon, IG, and Covall, D: The preservation of articular cartilage. Am. Journal of Medical Technology 44: 799, 1978.

Yablon, IG, Cooperband, S, and Covall, DJ: Matrix antigens in allografts: The humeral response. *Clinical Orthopaedics and Related Research* 168: 243, 1982.

Yablon, IG, Copperband, S, and Covall, DJ: Matrix antigens in allografts: The cell-mediated response. *Clinical Orthopaedics and Related Research* 172: 277, 1983.

Lo, TCM, Healy, WL, Covall, DJ, Dotter, WE, Pfeifer, BA, Togerson, GW, and Wasilewski, SA: Heterotopic bone formation after total hip surgery: Prevention with single dose postoperative hip irradiation. *Radiology* 168: 851, 1988.

Healy, WL, Lo, TCM, Covall, DJ, Pfeifer, BA, and Wasilewski, SA: Single-dose radiation therapy for prevention of heterotopic ossification after total hip arthroplasty. *J. of Arthroplasty* 5: 369, 1990.

Covall, DJ, and Wasilewski, SA: Roentgenographic changes after arthroscopic meniscectomy: 5 year follow-up in patients over 45. *Abstracts, Arthroscopy* 6: 152, 1990, *Ortho. Trans.*, 1990.

Wasilewski, SA, Covall, DJ, and Cohen, SA: Effect of surgical timing on recovery and associated pathology after ACL reconstruction. *Abstracts, Ortho. Trans.*, Fall 1991, *Am J. Sports Medicine*.

Covall, DJ, and Wasilewski, SA: Roentgenographic changes after arthroscopic meniscectomy: 5 year follow-up in patients over 45. *J. of Arthroscopy* 8(2): 242-246, 1992.

Whitelaw, GP, Mallik, AR, Wetzler, MJ, and Covall, DJ: Pneumatic braces in the postoperative management of ankle and tibial fractures. *Complications in Orthopaedics* 7(4): 281, 1992.

Mallik, AR, Covall, DJ, and Whitelaw, GP: Internal versus external fixation of bicondylar tibial plateau fractures. *Ortho. Review* 21(12): 1433, 1992.

Wasilewski, SA, Covall, DJ, and Cohen, SA: Effect of surgical timing on recovery and associated pathology after ACL reconstruction. *Am J of Sports Medicine* 21(3): 338, 1993.

Levy, AS, Wetzler, MJ, Guttman, G, Covall, DJ, et al: Treating gunshot femoral shaft fractures with immediate reamed intramedullary nailing. *Ortho. Rev.* 22(7): 805, 1993.

- Covall, DJ and Yablon, IG: Joint replacement in the aged. Chapter in the rational use of advanced diagnostic and therapeutic technology in the aged. Editor: F. Homberger, 1993.
- Whitelaw, GP, Abramowitz, A, and Covall, DJ: Open tibial fractures and their management, Chapter in Fracture management, Editor, Micelli Cremi, 1993.
- Yablon, IG, Covall, DJ, and Dorn, B: Irreducible Maisonneuve and Dupuytren fractures. Abstract, Ortho. Trans. Fall 1993.
- Covall, DJ, and Fowble, CD: Arthroscopic treatment of synovial chondromatosis of the shoulder. J of Arthroscopy 9(5): 602, 1993.
- Covall, DJ, Fowble, CD, Foster, TJ, and Whitelaw, GP: Principles of managing bicondylar tibial plateau fractures. Contemp. Ortho. 28(2): 115, 1994.
- Covall, DJ and Fowble, CD: Synovial chondromatosis of the biceps tendon sheath. Ortho. Rev. 23(11): 902, 1994.
- Danziger, MB, Caucci, D, Zecher, SB, Segal, D, and Covall, DJ: Treatment of intercondylar and supracondylar distal femur fractures using the GSH supracondylar nail. Am J Orthop 24(9): 684, 1995.
- Zecher, SB, Danziger, MB, Segal, D, Foster, T, Whitelaw, GP, and Covall, DJ: Treatment of high energy proximal tibial fractures using the Monticelli-Spinelli external fixator: A preliminary report. Am J Orthop 25(1): 49, 1996.
- Covall, DJ, Stulberg, BN, Mabrey, J, Burstein, A, Angibaud, L, and Smith, K: Introducing a New Technique for Improving Predictability in Cruciate Retaining Total Knee Arthroplasty: The Posterior Cruciate Referencing Technique. Techniques in Knee Surgery, 8(4): 271-275, December 2009.
- Covall, DJ, Gimbel, JS, Neustadt, DH, Skrepnik, NV, Kivitz, AJ, and Plancher, KD: A Randomized Controlled Trial of a Single-Injection, Cross-Linked Sodium Hyaluronate for Symptomatic Relief of Osteoarthritis of the Knee. Submitted for publication.

OPERATIVE TECHNIQUES

The Optetrak Low Profile Instrumentation
The Optetrak Logic Total Knee Arthroplasty

CR Slope: The PCL Referencing Technique
Novation: Revision Acetabular System

ISSUED US PATENTS

US 8,506,640 B2 Aug 13, 2013

SYSTEMS AND METHODS RELATING TO A KNEE PROSTHESIS CAPABLE OF CONVERSION FROM A CRUCIATE RETAINING TYPE PROSTHESIS TO A POSTERIOR STABILIZING TYPE PROSTHESIS

US 8,414,653 B2 Apr 9, 2013

KNEE PROSTHESIS SYSTEM WITH AT LEAST A FIRST TIBIAL PORTION ELEMENT (A TIBIAL INSERT OR TIBIAL TRIAL) AND A SECOND TIBIAL PORTION ELEMENT (A TIBIAL INSERT OR TIBIAL TRIAL), WHEREIN EACH OF THE FIRST TIBIAL PORTION ELEMENT AND THE SECOND TIBIAL PORTION ELEMENT HAS A DIFFERENT SLOPE

PRESENTATIONS

Determination of Development Factors for Automobile Insurance, American Statistics Association, October 1979, Atlanta, GA.

AAOS Annual meeting, Single-dose radiation therapy for prevention of heterotopic ossification after total hip arthroplasty, February, 1990, New Orleans, LA.

AOA meeting, Roentgenographic changes after arthroscopic meniscectomy, March, 1990, Newport Beach, CA.

AANA meeting, Roentgenographic changes after arthroscopic meniscectomy: Five year follow-up in patients over 45, April, 1990.

ESKA Congress, Cost-effectiveness of accelerated rehabilitation after arthroscopic ACL surgery, June, 1990. Stockholm, Sweden.

NEOS meeting, Heterotopic ossification after total hip arthroplasty, June, 1990, Cape Cod, MA.

AOSSM meeting, Effect of surgical timing on recovery and associated pathology after ACL reconstruction, July, 1991, Orlando, FL.

2015 Ishmael Lectureship



Problem Fractures and New Frontiers in Orthopaedic Surgery, CME course co-director and lecturer, November 14-16, 1991, Boston, MA.

AAOS annual meeting, Post-operative complications in the treatment of olecranon fractures, February, 1992, Washington, D.C.

The young athlete, a multidisciplinary approach, CME course lecturer, Belfast, ME. August 1992. Topics: Shoulder anatomy and injuries, the overlap syndrome.

Problem Fractures and New frontiers in Orthopaedic Surgery. CME course co-director and lecturer, November 12-14, 1992, Boston, MA. Topics included: Cervical spine evaluation, acetabulum fractures, and periarticular tibial fractures.

Visiting guest lecturer, Orthopaedic congenital anomalies, Canadian Consulate, Hong Kong, November, 1992.

Invited speaker, Trauma management, Periarticular tibial fractures, Bangkok, Thailand, December, 1992.

AO/ASIF Residents Basic Course, Faculty, Sturbridge, MA, February, 1993.

AAOS annual meeting, Internal versus external fixation of bicondylar tibial plateau fractures Poster presentation, San Francisco, CA, February, 1993.

AOA annual meeting, Irreducible Maisonneuve and Depuytren fractures, Coronado, CA, June, 1993.

AAOS annual meeting, Arthroscopic reduction and percutaneous fixation of tibial plateau fractures, Poster presentation, New Orleans, LA, February, 1994.

AAOS annual meeting, Operative and short-term complications of the treatment of tibial shaft fractures with a new, solid unreamed intramedullary nail, Poster presentation, New Orleans, LA, February, 1994.

Applying orthopaedic skills in the primary care setting, CME course lecturer, Atlanta, GA, June and August, 1996. Topics: Spine, Hip, Understanding fractures and their management, Tissue response to injuries.

Visiting guest lecturer, Medical College of Georgia, Periarticular tibial fractures and their management, Acetabular fractures, and External fixation workshop, Augusta, GA, April, 1997.

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Total Knee, Hip and Shoulder Arthroplasty, course faculty. Outcome solutions to the managed care marketplace, Pebble Beach, CA, August, 1997.

Office Orthopaedics, When to treat, when to street: Course co-director, lecturer. Overuse injuries, Osteoarthritis. Atlanta, GA. February 1999.

Prevention and Treatment of Osteoporosis. Women's first Series, Atlanta, GA. August 2000.

Management of fractures and trauma. Invited speaker, Atlanta Society of Radiologic Technologists, Inc. January 2001.

AAOS Annual meeting, Dallas, TX, Evaluation of Extracorporeal Shock Wave Therapy for Chronic Lateral Epicondylitis. Paper No. 271 presentation, Feb. 2002.

"Avoiding hip dislocations", Hip and Knees in Pinehurst, Pinehurst, NC, October 18-19, 2002.

"The Painful Total Knee" and "The Beneficial Effects of a Comprehensive Peri-operative Arthroplasty Management Program", Emerging Techniques and Technologies in Knee and Hip Arthroplasty, Atlanta, GA, April 2-3, 2004.

"A Randomized, Prospective, Observational, Longitudinal Clinical Outcome Study Comparing the Efficacy of Intermittent Pneumatic Compression Devices in the Prevention of Venous Thromboembolic Events at Large Community Hospital", Georgia Orthopaedic Society, Lake Oconee, GA, October 9, 2004.

"The Impact of a Comprehensive Joint Program and Minimally Invasive Total Knee Arthroplasty", 2nd Annual Emerging Techniques and Technologies in Knee and Hip Arthroplasty, Atlanta, GA, April 14-15, 2005.

"Analyzing Factors Influencing Postoperative Allogeneic Blood Transfusions Rates in Total Hip and Knee Arthroplasty", Georgia Orthopaedic Society, Lake Oconee, GA. October 6-9, 2005.

"The Benefits of a Comprehensive Perioperative Protocol and Minimally Invasive Surgical Technique in Total knee Arthroplasty", AAHKS Annual Meeting, Dallas, TX, November 4-6, 2005.

AAOS annual meeting, The benefits of a comprehensive perioperative protocol and minimally invasive surgical technique in total knee arthroplasty. Paper #144, podium presentation, Chicago, IL, March 23, 2006.

2015 Ishmael Lectureship



- “The Benefits of Mini Total Joint Replacement”, National Association of Orthopaedic Nurses, Atlanta Chapter Annual Workshop, Marietta, GA. March 10, 2007.
- “The Patient of the New Millennium” Discussion of large head technology, Ultramet XL and ASR-XL, A Satellite Symposium, Southeast Region Moderator, April 26, 2007, Atlanta, GA.
- “The Impact of Patient Factors and Protocols on Total Knee Outcomes”, Research Summit, InMotion Musculoskeletal Institute, University of Memphis Institute of Technology, May 4, 2007, Memphis, TN.
- “Hemiarthroplasty for hip fractures: pros and cons” Georgia Orthopaedic Trauma Symposium, September 7, 2007, Atlanta, GA.
- “Surgical Management of Hip Instability”, Latest Advancements In Orthopaedics, September 28, 2007, Atlanta, GA.
- “Alternative to Traditional Total Joint Replacement”, National Association of Orthopaedic Nurses, Atlanta Chapter Annual Workshop, Marietta, GA. March 16, 2008.
- “Improvements in Total Knee Arthroplasty” Symposium, Director, March 29-30, 2008, Albany, GA.
- “A Novel TKA Implant Solution for PCL Preservation and Balancing”, National Association of Orthopaedic Nurses, 29th Annual Congress, Tampa, FL. May 19, 2009.
- “Preserving the Posterior Cruciate Ligament in TKA: A New Implant Solution”, Argentina Association Of Orthopaedics and Trauma, Buenos Aires, Argentina, May 26, 2009.
- “A Randomized, Prospective Study comparing the Efficacy of IPC Technologies and the extended Use of Pharmaceutical Agents versus ASA in Prevention of VTEs after Total Joint Arthroplasty”, Georgia Orthopaedic Society, October 2009.
- “Effects of Tibial Insert Slope on Polyethylene Wear”,
“Early Results of the Posterior Cruciate Referencing Technique and Posterior Sloped Tibial inserts on Total Knee Arthroplasty”,

“Re-thinking Cruciate Retention in Total Knee Arthroplasty: Podium presentations

“Improving Predictability in Cruciate Retaining Total Knee Arthroplasty”,

“A Randomized, Prospective Study comparing the Efficacy of IPC Technologies and the extended Use of Pharmaceutical Agents versus ASA in Prevention of VTEs after Total Joint Arthroplasty”, Poster presentations at the International Society of Technology in Arthroplasty (ISTA) Annual Congress, Hawaii, October 2009.

“Vertical Separation Distance of the Bony Insertions of the Posterior Cruciate Ligament as a function of the Posterior Tibial Slope”,

“Effect of Varying Posterior Tibial Slopes on Intra-operative Passive Flexion in Total Knee Arthroplasty”,

Deutscher Kongress für Orthopädie und Unfallchirurgie (DKOU), Berlin, Germany, October 2009.

“A Novel TKA Implant Solution for PCL Preservation and Balancing”, National

Association of Orthopaedic Nurses, Atlanta Chapter Annual Workshop, Marietta, GA. February 20, 2010.

“Improving Predictability in Cruciate Retaining TKA”, “Effects of Tibial Insert Slope on Polyethylene Wear”, and “Early Results with the PCRT and Posterior Sloped Tibial Inserts in TKA”, Mid America Orthopaedic Association, 28th Annual Meeting, Austin, TX, April 21-25, 2010.

“Improved Outcomes with Shorter Hospital Length of Stay after Total Joint

Arthroplasty,” National Association of Orthopaedic Nurses, 30th Annual Congress, Seattle, WA. May 17, 2010.

Optimizing Patient Outcomes in THA, OLC, Rosemont, IL, September 23, 2010: Faculty, topics include “Acetabular positioning in THA, the basics”.

Advancing education and research: “Metal on Metal: the Pros and Cons”, Dallas, TX. September 30, 2010.

Advanced Techniques in TKA, Surgical Skills Lab. Atlanta, GA. October 9, 2010. Faculty.

The Cutting Edge: The Cleveland Clinic Arthroplasty Course. An ICJR Course.

Cleveland, OH. March 10-11, 2011. Faculty. Topics included “Experience with MoM”, “Revision and Infected THA”, “Rapid Recovery”, “PCRT for CR TKA”.

12th Campinas Knee Surgery Course, Campinas, Brazil. April 1-2, 2011. Invited International Faculty. Topics included "Preserving the PCL in TKA for active patients" and "Improving outcomes while decreasing complications in athletic patients with TKAs".

12th EFORT Congress, "Impact of PCRT and Posterior Sloped Tibial Inserts on Cruciate Retaining TKA: 2 year results." Voted one of the Best 200 Papers. June 4, 2011, Copenhagen, Denmark.

Advances in Orthopaedics PacAsian International Conference, Co-Chair, Manila, Philippines, June 23-26, 2011. Topics included "A new and improved cruciate retained TKA", "Improving patient outcomes with efficient use of available resources", "Revision THA: new porous materials".

Georgia Bio-Life Science Conference, Emerging Changes in Research and Technology for Healthcare, Atlanta, GA, October 20, 2011. "Research Initiatives for Community Based Hospitals and Private Practices.

The 2nd Annual Cleveland Clinic Arthroplasty Course: The Cutting Edge. An International Congress for Joint Reconstruction Course. Cleveland, OH. March 22-23, 2012. Faculty speaker. Topics included "Failure of MoM", "Porous Metal Technology", "Rapid Recovery", and "PCRT for CR TKA: How to prevent CR knees from failing".

RESEARCH EXPERIENCE

Organon - A Multicenter, Multinational, Randomized, Double-Blind, Comparison of Subcutaneous study drug with Enoxaparin in the Prevention of Deep Vein Thrombosis and Symptomatic Pulmonary Embolism After Elective Major Knee Surgery or a Revision. 7 screened, 5 randomized, 5 completed, 1 screen failure, 1 dropped (enrollment goal 6/ 1 month enrollment period as an add on site) 9/99-11/99.

Parke-Davis - A 4-Week, Randomized, Double-Blind, Placebo- and Positive-Controlled, Parallel-Group, Multicenter Study of Gabapentin-Naproxen Sodium Combination Therapy in Patients with Acute Osteoarthritis Pain of the Knee. 24 screened, 6 randomized, 4 completed, 12 screen failures, 8 dropped (enrollment goal 15/2 month enrollment period) 3/00-5/00.

Parke-Davis - A long-term, Open-Label, Multicenter, Safety study of Study Drug I in Combination with Study Drug II in patients With Osteoarthritis of the Knee, Open-

Label Extension. 5 patients enrolled and 5 patients completed when sponsor closed study (2 month enrollment period to rollover) 4/00-9/00.

Scirex/IBAH - Double-Blind, Placebo-Controlled, Parallel-Group Comparison of the Efficacy, Opioid Dose Sparing Effects and Safety of Controlled Release Oxymorphone and Placebo in Postsurgical Pain Following Knee Arthroplasty. 24 screened, 15 randomized, 9 screen failures (enrollment goal 12/ 6 month enrollment period) 6/00-11/00.

Siemens - Randomized Clinical Study To Evaluate the Safety and Efficacy of the Siemens Sonocur ESWT System in Treating Patients with Lateral Epicondylitis (Chronic Tennis Elbow). 32 screened, 27 randomized, 5 screen failures (Enrollment goal 12/ 5 month enrollment period) 9/00- 7/01.

Protocol: CMSALP001-A Three Month Randomized, Prospective, Observational, Longitudinal Clinical Outcome Study Comparing the Efficacy of Intermittent Pneumatic Compression Devices in the Prevention of Venous Thromboembolic Events at Large Community Hospital. 1502 screened, 1453 randomized, 1424 completed, (enrollment goal 1500) 3/02-12/03

Boehringer Ingelheim Pharmaceuticals, Inc.: RE-MOBILIZE Protocol 1160.24, A phase III, randomized, parallel-group, double-blind, active controlled study to investigate the efficacy and safety of two different dose regimens of Dabigatran Etexilate administered orally, compared to enoxaparin 30 mg twice a day subcutaneous for 12-15 days in prevention of venous thromboembolism in patients with primary elective total knee replacement surgery. 15 screened, 13 randomized and completed, 6/05-11/05.

Healthonics- MedRelief Osteoarthritis Knee Pain Study: Effect of Pulsing Electromagnetic Fields on Knee Osteoarthritis (OA) Pain of At Least 3 Months Duration: A Randomized, Multi-center Placebo-Controlled, Double-Blind Study. 3 screened, 1 randomized and completed, 1 screen failure, 1 dropped. 10/06-01/07.

DePuy Orthopaedics, Inc.: Protocol 04062, A Randomized, Prospective, Comparative, Multi-Center Clinical Evaluation of the DePuy ASR-XL Acetabular Cup System vs. the Pinnacle Metal-on-Metal Total Hip System Study. Lead Principal Investigator. Participated in Protocol design. 34 screened, 31 randomized, 3 screen failures. Enrollment completed, 10/06-10/10.

Anika Therapeutics, Inc.: MONOVISC-0702, A Randomized, Double-Blind, Placebo Controlled, Multi-Center Study of a Single Injection Cross-linked Sodium

Hyaluronate (HA) to Provide Symptomatic Relief of Osteoarthritis of the Knee. 38 screened, 16 randomized and completed, 22 screen failures. 01/08-11/08.

Pfizer: Gastrointestinal (GI) Randomized Event and Safety Open-Label NSAID Study (GI-REASONS): A Randomized, Open-Label, Blinded-Endpoint, Parallel-Group Trial of GI Safety of Celecoxib Compared with Non-Selective Nonsteroidal Antiinflammatory Drugs (NSAIDs) in Osteoarthritis Patients. 14 screened, 4 screen failures, 10 randomized, 1 dropped. Enrollment completed, 01/08-06/09.

Exactech, Inc.: Optetrak CR Slope Study: A Prospective, Non-randomized, Multi-Center Clinical Study Evaluating the Effect of Posterior Tibial Slope on Passive Range of Motion. 21 enrolled; 20 completed, 1 screen failure. 4/08-10/08.

Exactech, Inc.: Optetrak® RBK Clinical Trial: A Prospective, Multi-Center, Randomized Clinical Trial to Evaluate the Safety and Effectiveness of the Exactech® Optetrak® Rotating Bearing Knee Total Knee System; Exactech Protocol #CR05-006; IDE#G060118. 34 screened, 5 screen failures, 26 randomized, 1 dropped. Enrollment completed, 11/08-01/13.

Anika Therapeutics, Inc.: MONOVISC-0802, Extension Study of MONOVISC-0702. A Study of the Safety of Repeat Injection of Intra-articular MONOVISC™ Sodium Hyaluronate in Patients with Osteoarthritis of the Knee. 15 enrolled and completed. 12/08-6/09.

Exactech, Inc.: Post Approval Study: NOVATION® Ceramic Articulation Hip System. A Multi-Center, Open-Label Study to Evaluate the Mid and Long-Term Safety and Effectiveness of the Exactech® NOVATION® Ceramic Articulation Hip System. Exactech Protocol #CR05-005. PMA #P050039, PMA Approval: July 5, 2007. 9/2011-03/13.

Exactech, Inc.: A Post-Market Domestic (US) and International Data Collection to Assess Hip Replacement Systems Manufactured and/or Distributed by Exactech. Protocol ID: CR07-002. 9/2011-present. Enrolling.

Exactech, Inc.: A Post-Market Domestic (US) and International Data Collection to Assess the Optetrak® Knee System. Protocol #CR05-007. 9/2011-present.