

## **WILLIAM G. HAMILTON, MD**

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Alexandria, VA 22306  
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703-799-5989 fax

### **TITLE**

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Staff Member, Anderson Orthopaedic Clinic  
Clinical Instructor, Adult Reconstruction Fellowship, Anderson Orthopaedic Research Institute

### **EDUCATION**

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**Brown University**  
ScB Psychology, 1992

**University of Cincinnati College of Medicine, MD, 1997**  
Honor: Alpha Omega Alpha, 1997

### **RESIDENCY**

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**Hospital of the University of Pennsylvania, Philadelphia, PA**  
Internship, General Surgery, 1997-1998  
Orthopaedic Surgery, 1998-2002

### **FELLOWSHIP**

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**Anderson Orthopaedic Adult Reconstruction Fellowship**  
Alexandria, VA, August, 2003

**John Insall Knee Society Traveling Fellowship**  
October, 2009

### **SPECIAL INTERESTS**

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Anterior Supine Muscle Sparing Total Hip Arthroplasty  
Instructor- Anterior approach learning center  
Visitation Site for the direct anterior approach  
Primary & Revision Hip & Knee Arthroplasty  
Tissue Sparing Hip & Knee Arthroplasty  
Unicondylar Knee Arthroplasty  
Certified for the Oxford Partial knee Arthroplasty  
Total Knee Arthroplasty with Custom Patient Instruments  
Computer Assisted Total Joint Arthroplasty

## **HOSPITAL PRIVILEGES**

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INOVA Mount Vernon Hospital  
INOVA Fairfax hospital  
INOVA Alexandria Hospital

## **LEADERSHIP POSITIONS**

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Member, AAHKS Health Policy Committee, Quality Measures Subcommittee, 2011

Member, Facility adoption committee for Computerized Order Entry, INOVA Mount Vernon Hospital, 2011

Member, EPIC EMR Adoption Committee, INOVA Health System, 2011-present

Member-at-large, Executive Committee, Mount Vernon Hospital, 2009-2011

Chairman, Department of Orthopaedic Surgery, INOVA Mount Vernon Hospital  
2008-present

President, Washington D.C. Orthopaedic Society  
2006-2007

Administrative Chief Resident, 2001-2002  
Department of Orthopaedic Surgery, University of Pennsylvania

## **MEMBERSHIP**

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American Association of Orthopaedic Surgeons- Fellow  
American Association of Hip & Knee Surgeons- Fellow  
American Medical Association  
Alpha Omega Alpha Society  
Virginia Orthopaedic Society  
Medical Society of Virginia  
Medical Society of Northern Virginia  
Washington D.C. Orthopaedic Society  
Board Member- Anderson Orthopaedic Research Institute  
Board Member- Anderson Orthopaedic Postgraduate Medical Foundation

## **PUBLICATIONS**

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Hamilton, WG: Risedronate Decrease Bone Loss Around Hip Implants, But how Useful Is Its Effect?: Commentary on an article by Olaf Gustak Skoldenberg, MD, PhD, et al.: "The Effect of Weekly Risedronate on Periprosthetic Bone Resorption Following Total

Hip Arthroplasty. A Randomized, Double-Blind, Placebo-Controlled Trial” THE JOURNAL OF BONE AND JOINT SURGERY, October 19, 2011, Vol 30, Issue 20

Barrett, M, Van Citters, D, Hamilton, WG: Mechanical failure of Marathon Cross-linked Polyethylene Liner after Total Hip Arthroplasty. AMERICAN JOURNAL OF ORTHOPAEDICS, October, 2011, Vol 40, No. 10, 523-526

Hamilton, WG, Sritulanondha, S., Engh, Jr., CA: Prospective Randomized Comparison of High-Flex and Standard Rotating Platform Total Knee Arthroplasty. THE JOURNAL OF ARTHROPLASTY. Sept. 2011, Vol 26, 28-34

Hamilton, WG, Sritulanondha, S., Engh, Jr., CA: Results of Prospective, Randomized Clinical Trials Comparing Standard and High-flexion Posterior-stabilized TKA: A Focused Review. ORTHOPEDICS. Sept. 2011, Vol 34, Num 9, 681

Hamilton, WG, Hopper, RH, Jr, Engh, Jr, CA, Engh, Sr, C: Survivorship of Polyethylene Liner Exchanges Performed for the Treatment of Wear and Osteolysis Among Porous-Coated Cups. JOURNAL OF ARTHROPLASTY. Sept, 2010, Supp, 75-80.

Hamilton, WG, Ameen, D, Engh, Jr, CA, Engh, GA: Learning Curve with Minimally Invasive Unicompartmental Knee Arthroplasty. JOURNAL OF ARTHROPLASTY. Aug, 2010, Vol 25, 735-740.

Engh, Jr, CA, Ho, H, Engh, Sr, CA, Hamilton, WG, Fricka, KB: Metal-on-Metal Total Hip Arthroplasty Adverse Local Tissue Reaction. SEMINARS IN ARTHROPLASTY, March 2010, Vol 21, No 1, 19-23.

Bergin, PF, Doppelt, JD, Hamilton, WG, Mirick, GE, Jones, AE, Sritulanondha, S, Helm, JM, Tuan, R, et al.: Detection of Periprosthetic Infections with use of Ribosomal RNA-Based Polymerase Chain Reaction. JOURNAL OF BONE AND JOINT SURGERY-A. March 2010, 92-A(3), 654-663.

Hamilton, WG, McAuley, JP, Dennis, Blumenfeld, T, D Politi, J: Total Hip Arthroplasty with Delta Ceramic on Ceramic:Results of a Multicenter Investigational Device Exemption (IDE) Trial with Minimum 2-Year Follow-up. CLINICAL ORHTOPAEDICS AND RELATED RESEARCH,468(2) 358-366, Feb, 2010.

Fehring, K, Hamilton, WG: Metastatic Carcinoma as an Unusual Cause of Knee Pain After Total Knee Arthroplasty. JOURNAL OF BONE AND JOINT SURGERY-A. March 2009;91: 693-5.

Pappedemos, P, Hamilton, WG: Bilateral femoral neck fractures after myoclonic seizure treated with bilateral total hip arthroplasties. AMERICAN JOURNAL OF ORTHOPEDICS, Feb 2009;38(2): 88-89.

Fricka, KB, Hamilton, WG: Gender Specific Total Knee Arthroplasty- A Current Review. Current Orthopaedic Practice. Vol 20, Number 1, Jan/Feb 2009, 47-50.

McAuley, JP, Collier, MB, Hamilton, WG, Tabaree, E, Engh, GA: Posterior Cruciate-retaining Total Knee Arthroplasty for Valgus Osteoarthritis. CLINICAL ORTHOPAEDICS AND RELATED RESEARCH. 2008, Vol 66, Number 11, p 2644-2649 .

Hamilton, WG, McAuley, JP, Hopper, RH, Engh, CA Sr.: The Outcome of Rerevision of a Failed Porous Coated Stems with Another Porous Coated Stem. JOURNAL OF ARTHROPLASTY, Vol 23(2), 2008, p 170-174.

Hamilton, WG, Calendine, CL, Beykirch, SE, Hopper, RH, Engh, CA, Sr.: Acetabular Fixation Options: First Generation Modular Cup: Curtain Calls and Caveats. JOURNAL OF ARTHROPLASTY, Vol 22 (4), Supp 1, 2007, 75-81.

Hamilton, WG, Cashen, DV, Ho, Henry, Hopper, RH, Engh, CA, Sr.: Extensively Porous-Coated Stems for Femoral Revision: A Choice for all Seasons. JOURNAL OF ARTHROPLASTY Vol 22(4), 2007, 106-110.

Hamilton, WG, Collier, MB, Tarabee, E, McAuley, JP, Engh, CA, Engh, GA: Incidence and Reasons for Reoperation After Minimally Invasive Unicompartmental Knee Arthroplasty. JOURNAL OF ARTHROPLASTY. Vol 21 (6), 2006, 98-107.

Hamilton, WG: Wear in Total Knee Arthroplasty. CURRENT OPINIONS IN ORTHOPAEDICS. Vol 17, No. 1, Feb 2006, 38-42.

Hamilton, WG, Hopper, RH, Iskander, JM, Young, AM, Engh, CA, Jr. The Effect of Total Hip Arthroplasty Cup Design on Polyethylene Wear Rate, JOURNAL OF ARTHROPLASTY. Vol 20 (Supp) Oct, 2005, 63-72.

SG Pill, WG Hamilton, and Dormans, JP: Percutaneous Toggle Technique for Manipulating Displaced, Unstable, and Nonreducible Proximal Tibial Fractures in Children. AMERICAN JOURNAL OF ORTHOPAEDICS 23(3): 156-157, 2003.

Hamilton, WG, Born, CT, DeLong, WG: Total Hip Arthroplasty after Surgically Treated Acetabular Fractures. SEMINARS IN ARTHROPLASTY 12(3): 201-210, 2001

Hamilton, WG, Freedman, KF, Haupt, H, Lackman, RL: Knee Pain in a 40 Year-Old Man. Orthopaedic/Radiology/Pathology Conference. CLINICAL ORTHOPAEDICS AND RELATED RESEARCH 383: 282-285, 2001.

Hamilton, WG, Garino, JP.: The Management of Severe Acetabular Bone Loss During Revision Total Hip Arthroplasty: Role of Impaction Grafting. SEMINARS IN ARTHROPLASTY, 12(1): 52-59, 2001.

Hamilton, WG, Klostermeier, T, Lim, E, Moulton, J: Surgically Documented Case of Rupture of the Plantaris Tendon. A Case Report and Literature Review. FOOT AND ANKLE INTERNATIONAL, 18(8): 522-523, 1997.

Hamilton, WG, Stambough, J: Diskitis Associated with Transpedicular Screw Fixation: A Case Report. JOURNAL OF SPINAL DISORDERS, 9(1): 68-71, 1996.

## **Non-Peer reviewed publications**

Hamilton, WG: Gender Considerations in the Surgical Treatment of Hip Pathology with an Extensively Coated Femoral Stem. Depuy White Paper Publication, July 2007.

Hamilton, WG: Extensively Coated Femoral Stems: Rationale, Benefits, and Addressing Perceived Pitfalls. White Paper Depuy Publication, April, 2006.

Hamilton, WG: The AORI Experience: An Insiders Perspective. White Paper Depuy Publication, Aug 2005.

Hamilton, WG: The Management of Severe Acetabular Bone Loss in Revision Hip Surgery. Annual Resident Reporter Publication, American Academy Orthopedic Surgeons, Orlando, FL, 2000.

Hamilton, WG, Ramsey, ML: Rupture of the Distal Tendon of the Biceps Brachii. THE UNIVERSITY OF PENNSYLVANIA ORTHOPAEDIC JOURNAL. 12: 21-26, 1999.

## **Publications in Press**

## **Textbook Chapters**

Engh, GA, Hamilton, WG: Unicondylar Arthroplasty. Chapter in Knee Arthroplasty, Eds. Berry, D, Lieberman, J. 2011.

Barrett, M, Fricka, KB, Hamilton WG: Total Hip Arthroplasty in Developmental Dysplasia of the Hip. Chapter in Arthritis and Arthroplasty, Eds. Brown, Mihalko, Saleh 2009.

Hamilton, WG, Curbside Consultations in Hip Arthroplasty: Trochanteric Osteolysis. Ed. Sporer, S, 2008..

Hamilton, WG, Tarabee, E: Preoperative Evaluation of Total Joint Arthroplasty. Adult Reconstruction & Arthroplasty: Core Knowledge in Orthopaedics. Eds Garino, JP, Beredjikian, PK. Elsevier, 2007, p 91-107.

Hamilton, WG, McAuley, JP. Sepsis, Etiology and Diagnosis. The Adult Hip, 2<sup>nd</sup> ed. Callaghan, Rosenberg, Rubash. Lippincott Williams & Wilkins, Philadelphia, 2007, p 1257-1270.

Hamilton, WG, Engh, CA: Hip Designs: Cementless Femoral Stems. Orthopaedic Knowledge Update, Hip and Knee Reconstruction 3. Published by AAOS, pgs. 345-369.

Hamilton, WG, and McAuley, JP: Evaluation of the Unstable Total Hip Arthroplasty. Instructional Course Lecture, Vol 53, 87-92, 2004.

## **Manuscripts submitted for Publication**

### **PRESENTATIONS**

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#### **Scientific Presentations-National & International**

##### **Podium presentations:**

Hamilton, WG, Sritulanondha, S, Engh, Jr, CA: Prospective Randomized Comparison of High Flex and Standard Rotating Platform TKA. Podium Presentation, AAOS, San Diego, CA, 2011

Fricka, KB, Engh, Jr, CA, Hamilton, WG: Pathologically Confirmed Metal-on-Metal THA Adverse Local Tissue Reactions from One Center, AAOS, San Diego, CA 2011

Hamilton, WG, Sritulanondha, S, Engh, Jr, CA: Prospective Randomized Comparison of High Flex and Standard Rotating Platform TKA. Podium Presentation, AAHKS, Dallas, , 2010, AAHKS Clinical Award Winner

Hamilton, WG, Engh, CA, Jr., Hopper, R, Engh, CA, Sr.: The Outcome of Polyethylene Exchange for the Treatment of Wear and Osteolysis among Porous Coated Cups. Podium Presentation, AAOS, New Orleans, 2010.

Hamilton, WG, Reeves, J, Fricka, K, Ammeen, D, Engh, GA: Isolated Mechanical Prophylaxis for Total Knee Arthroplasty. Podium Presentation, AAOS, New Orleans, 2010.

Hamilton, WG, Engh, CA, Jr., Hopper, R, Engh, CA, Sr.: The Outcome of Polyethylene Exchange for the Treatment of Wear and Osteolysis among Porous Coated Cups. Podium Presentation, AAHKS, Dallas, 2009.

Hamilton, WG, Ammeen, D, Engh, GA: The Effect of Obesity on the Revision Rate of Minimally Invasive Unicompartamental Arthroplasty. Podium Presentation, AAOS, Las Vegas, NV, 2009.

Doppelt, JD, Bergin, PF, Jones, A, Hamilton, WG, Helm JM, Tuan, RS: Rapid Detection of Periprosthetic Joint Infections with Real-Time Reverse Transcription Polymerase Chain Reaction Using Ribosomal Ribonucleic Acid. Podium Presentation, AAOS, Las Vegas, NV, 2009.

Hamilton, WG, McAuley, JP, Politi, J, Garino, J, Dennis, D: Total Hip Arthroplasty with Delta Ceramic on Ceramic:Results of a Multicenter Investigational Device Exemption (IDE) Trial with Minimum 2-Year Follow-up. Closed Meeting of the Hip Society, Chicago, Il, Sept, 2008.

Hamilton, WG, Fricka, K, Ameen, D, Engh, CA, Engh, GA: Learning Curve Associated with Minimally Invasive Unicompartmental Arthroplasty. Podium presentation, AAOS, San Francisco, 2008.

Hamilton, WG, Collier, MB, Tarabee, E, McAuley, JP, Engh, CA, Engh, GA: Incidence and Reason for Reoperations After Minimally Invasive Unicompartmental Knee Arthroplasties. Podium Presentation, AAOS, Chicago, 2006.

Hamilton, WG, Collier, MB, Tarabee, E, McAuley, JP, Engh, CA, Engh, GA: Incidence and Reason for Reoperations After Minimally Invasive Unicompartmental Knee Arthroplasties. Podium Presentation, AAHKS, Dallas, 2005

Hamilton, WG, McAuley, JP, Hopper, RH, Engh, CA Sr.: The Outcome of Rerevision of a Failed Porous Coated Stems with Another Porous Coated Stem, Podium Presentation, AAOS Annual meeting, Washington, D.C, 2005

Hopper, RH, Iskander, JM, Young, AM, Hamilton, WG, Engh, CA, Jr. The Effect of Total Hip Arthroplasty Cup Design on Polyethylene Wear Rate, Podium Presentation, AAHKS annual meeting, Dallas, Tx, 2004

### **Poster Presentations:**

Hamilton, WG, Ameen, Deborah, Engh, Jr, CA, Engh, GA: Modern Minimally Invasive Unicompartmental Arthroplasties (MIUKA) Fail at a Constant and Moderate Rate. Poster Presentation, AAHKS, Dallas TX, October 2011

Hamilton, W, McAuley, JP, Murphy, J, Blumenfeld, T, Dennis, D: Delta Ceramic on Ceramic THA-Midterm Results Including Squeaking and Liner Fracture Rates. Poster Presentation, AAHKS, Dallas TX, October 2011

Hamilton, WG, Fricka, K, Ameen, D, Engh, CA, Engh, GA: Learning Curve Associated with Minimally Invasive Unicompartmental Arthroplasty. Poster Presentation, AAHKS, Dallas, TX, 2007

McAuley, JP, Collier, M, Engh, GA, Hamilton, W: Factors Influencing Survival of Minimally Invasive Unicompartmental Knee Arthroplasty: Poster Presentation, Canadian Orthopaedic Association, Halifax, 2007.

McAuley, JP, Collier, M, Hamilton, W: Posterior Cruciate Ligament Retaining Total Knee Arthroplasty in the Valgus Knee. Poster Presentation, Canadian Orthopaedic Association, Halifax, 2007.

Engh CA, Belmont PJ, Hopper Jr RH, Hamilton WG, Engh Jr CA. Outcome of total hip arthroplasty using extensively porous-coated components at 20-year follow-up. AAOS, Chicago, Illinois, March 22, 2006

Belmont PJ, Beykirch S, Hopper Jr RH, Hamilton WG, Engh Jr CA, Engh CA. Outcome of total hip arthroplasty using extensively porous coated components at 20-year follow-up. AAHKS, Dallas, Texas, November 3-5, 2006

Hamilton, WG, Collier, MB, Turk, J: Mechanical Axis Variation When Component Valgus Angles Are Reproduced Across Different Total Knees. Poster Presentation, AAOS, Chicago, 2006.

Hamilton, WG, Turk, JP, Christians, MA, Garino, JP: Massive Acetabular Impaction Grafting- Midterm Results, Poster presentation, AAOS, 2003.

## **Scientific Presentations- Regional**

### **Podium Presentations:**

Hamilton, WG, Fricka, K, Ameen, D, Engh, CA, Engh, GA: Learning Curve Associated with Minimally Invasive Unicompartmental Arthroplasty. Podium presentation, Virginia Orthopaedic Society, May 2008.

Fricka, KB, Hamilton, WG, Engh, CA, Jr, Engh, GA: Arthroscopic Treatment of the Painful Minimally Invasive Unicompartmental Arthroplasty. Virginia Orthopaedic Society, May, 2008.

Hamilton, WG, Collier, MB, McAuley, JP, Engh, CA, Engh, GA: Early Reoperation Rate of Minimally Invasive Unicompartmental Knee Arthroplasties. Virginia Orthopaedic Society, May 2005.

Hamilton, WG, McAuley, JP, Tarabee, E, Engh, CA: The Outcome of Rerevision of a Failed Porous Coated Stems with Another Porous Coated Stem. Virginia Orthopaedic Society, May 2005.

Hamilton, WG, Collier, MB, McAuley, JP, Engh, GA: Total Knee Arthroplasty with Posterior Cruciate Retention for Treatment of Valgus Osteoarthritis. Virginia Orthopaedic Society, May 2005.

### **Poster Presentations:**

Hamilton, WG, Fricka, KB, Egawa, H, Ho, H, Hopper, RH, Engh, CA, Jr, Engh CA: Relationship between Acetabular Osteolysis Volume and Cup-Lesion Interface Involvement in Cementless Total Hip Arthroplasty. Virginia Orthopaedic Society, 2008.

Hamilton, WG, Fricka, KF, Reeves, JR, Fehring, K, Ameen, D, Engh, CA, Engh, GA: Isolated Mechanical Thromboprophylaxis Following Total Knee Arthroplasty. Poster Presentation, Virginia Orthopaedic Society, May, 2008.

## **Multimedia Productions**

Hamilton, WG: Treatment of Infected Total Hip Arthroplasty with PROSTALAC Implant: Indications and Surgical Technique, AAOS 2009. Judged Award Winner.

Hamilton, WG, Branche, G, Engh, GA: Surgical Techniques In Orthopaedics: Arthroplasty for Unicompartmental Knee Arthritis. Medial Unicompartmental Arthroplasty and ACL Reconstruction, Video Technique. Eds Della Valle, Stuchin. 2008.

Turk, JP, Hamilton, WG, Garino, JP: The surgical technique of impaction grafting to reconstruct the acetabulum in revision arthroplasty: Video Presentation, AAOS, 2003.

Hamilton, WG, Alavi, R, Garino, JP: Femoral Impaction Grafting: Background, Indications and Surgical Technique. Video Presentation, AAOS, 2001. Judged Award Winner.

## **Research Grants**

### **1. Title:** DePuy Delta Ceramax Ceramic-on-Ceramic Acetabular Cup Prosthesis System

**Description:** As part of a multi-center Investigational Device Exemption (IDE) study, patients prospectively randomized to either an investigational ceramic-on-ceramic or a conventional ceramic-on-polyethylene hip implant bearing surface. A total of 264 subjects at 8 sites will be enrolled. Minimum 2-year outcome data will be evaluated to demonstrate substantial equivalency as part of a Pre-Market Approval (510K) application that will be submitted to the Food and Drug Administration.

William G. Hamilton, M.D., Principal Investigator, Charles A. Engh, Sr., M.D., Sub Investigator, Charles A. Engh, Jr., M.D., Sub Investigator, James P. McAuley, M.D., Sub Investigator, Supatra Sritulanondha, M.P.H, Study Coordinator

**Supporting Agency:** DePuy, a Johnson and Johnson Company

### **2. Title:** DePuy Delta Ceramax Ceramic-on-Ceramic Acetabular Cup Prosthesis System 36 mm.

**Description:** As part of a multi-center Investigational Device Exemption (IDE) study, a consecutive series of patients will be implanted with ceramic-on-ceramic THAs that include 36-mm femoral heads. Minimum 2-year outcome data will be evaluated to demonstrate substantial equivalency as part of a Pre-Market

Approval (510K) application that will be submitted to the Food and Drug Administration.

William G. Hamilton, M.D., Principal Investigator, Charles A. Engh, Sr., M.D., Sub Investigator, Charles A. Engh, Jr., M.D., Sub Investigator, James P. McAuley, M.D., Former PI, Supatra Sritulanondha, M.P.H, Study Coordinator

**Supporting Agency:** DePuy, a Johnson and Johnson Company

**3. Title:** Factor Influencing Outcome After Joint Replacement

**Description:** This retrospective study will investigate outcome after total joint arthroplasty stratified by patient age. Appropriation for funding was included in 2003 legislation. Contract was signed in August of 2005. IRB approval necessary to initiate the study was obtained in October 2007. Study will continue through April 2010.

Robert H. Hopper, Jr., Ph.D., Principal Investigator, C. Anderson Engh, Jr., M.D., Co PI, William G. Hamilton, M.D., Sub Investigator

**Supporting Agency:** A cooperative agreement was awarded and administered by the U.S. Army Medical Research & Materiel Command (USAMRMC) and the Telemedicine & Advanced Technology Research Center (TATRC) under Contract Number W81XWH-05-2-0079.

**4. Title:** A Prospective Comparison of Rotating Platform Cruciate Substituting Total Knee Arthroplasty with Rotating Platform High-Flex Cruciate Substituting Total Knee Arthroplasty

**Description:** This study will investigate whether there is a significant difference in outcome at 1-year among patients receiving a conventional mobile bearing knee and the same type of component designed to allow increased flexion. Planned enrollment of 142 patients.

William G. Hamilton, M.D., Principal Investigator, C. Anderson Engh, Jr., M.D., Sub Investigator, Supatra Sritulanondha, M.P.H, Study Coordinator

**Supporting Agency:** DePuy, a Johnson and Johnson Company

**5. Title:** A Prospective Randomized Evaluation of Total Knee Arthroplasty Performed with Conventional and Custom Patient Instrumentation

**Description:** This study will investigate whether there is a significant difference in outcome at 6 months among patients having TKA with either standard or custom patient instruments. Planned enrollment 52 patients.

William G. Hamilton, M.D., Principle Investigator, Nancy Parks, Study Co-ordinator

**Supporting Agency:** Depuy, a Johnson and Johnson Company

### **INVITED LECTURES**

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**High Flex, Mobile Bearing and Gender Specific TKA: Where are we?** 55<sup>th</sup> Annual Edward T. Smith Orthopaedic Lecture Series, Houston, TX, November 2011

**Delta Ceramic on Ceramic THA.** Eastern Orthopaedic Association, Williamsburg, VA, October 2011

**Acetabular Reaming and Positioning with the Anterior Approach.** Anterior Hip Course, Boston MA, October 2011

**Femoral Revisions with Sufficient Proximal Host Bone.** Depuy Hip Masters Revision Course, Chicago IL, September 2011

**Ceramics in THA: Filling the Metal Void?** Engh Society reunion, Alexandria, VA, September 2011

**Blood Management after total joint arthroplasty.** Engh Society reunion, Alexandria, VA, September 2011

**Alternative Bearings are a Better Alternative.** Resident Course, Chicago, IL, September 2011

**There is a Place for Unicompartmental Knees (UKA).** Resident Course, Chicago, IL, September 2011

**Alternative Bearings are a Better Alternative.** Resident Course, San Diego, CA, August 2011

**There is a Place for Unicompartmental Knees (UKA).** Resident Course, San Diego, CA, August 2011.

**Surgical Approaches in Revision Total Hip Arthroplasty.** Chicago, IL, August 2011

**Fixed Bearing UKA Pitfalls and Complications:** Controversies and Technological Advances in Primary and Complex Hip and Knee Replacement, White Sulfur Springs, VA, May, 2011

**Blood Loss After Total Joint Arthroplasty:** Controversies and Technological Advances in Primary and Complex Hip and Knee Replacement, White Sulfur Springs, VA, May, 2011

**Anterior Approach THA with a Special Table:** Controversies and Technological Advances in Primary and Complex Hip and Knee Replacement, White Sulfur Springs, VA, May, 2011

**Pearls for a Successful THA:** Controversies and Technological Advances in Primary and Complex Hip and Knee Replacement, White Sulfur Springs, VA, May, 2011

**Is Ceramic on Polyethylene the Bearing Surface for All?:** 2<sup>nd</sup> Annual Spring Hip & Knee Course, ICJR: Kiawah Island, SC, April 2011

**Surgical Exposures in Revision Total Knee Arthroplasty:** 2<sup>nd</sup> Annual Spring Hip & Knee Course, ICJR: Kiawah Island, SC, April 2011

**Ceramic on Ceramic talk given at symposium:** AAHKS, THA with Delta Ceramic on Ceramic, Results of Multicenter IDE, Dallas, TX, November 2010

**Alternative Bearings are a better alternative for THA, Ligament balancing TKA and There is a Place for Unicompartmental Knees:** Depuy Resident Course, Chicago, IL, October 2010

**Alternative Bearings are a better alternative for THA, Ligament balancing TKA and There is a place for Unicompartmental knees:** Depuy Resident Course, Boston, MA, August 2010

**Early experience with Anterior Approach to the Hip, Anatomical consideration and Patient selection for Direct Anterior Approach to the Hip:** Anterior Hip Cadaver Course, Las Vegas, NV, October 2010

**Introduction and Early results with Direct Anterior Approach to the Hip:** Depuy Mobile Lab Cadaver Course, Atlanta, GA, September 2010

**Direct Anterior Approach to the Hip, Introduction to the Hip:** Operation Walk, Guayaquil, Ecuador, September 2010

**Early experience with the Direct Anterior Approach to the Hip:** Michigan Resident Day, Troy, MI, July 2010

**Early Experience with the Direct Anterior Approach to the Hip, Use of X-ray in Direct Anterior Approach to the Hip:** Anterior Hip Cadaver Course, Miami, FL, June 2010

**Early Experience with the Direct Anterior Approach to the Hip, Use of X-ray in Direct Anterior Approach to the Hip:** Anterior Hip Cadaver Course, Baltimore, MD, June 2010

**Early experience the Direct Anterior Approach to the Hip:** Anterior approach learning center, Miami, FL, Jan 2010

**The Electronic Medical Record:** John Insall Travelling Fellowship, Oct, 2009

**To Revise or Not to Revise? Work up of painful THA:** Masters Hip Revision Course, Raynham, MA, Aug 2009

**Pitfalls and Complications of Minimally Invasive UKA:** Contemporary Issues in Partial Knee Arthroplasty, New Albany, Ohio, Sept, 2008

**Articulation Choices for THA:** Advances in Arthroplasty, Arlington, VA, Sept, 2008

**Considerations in Revision Total Hip Arthroplasty,** Cherry Blossom Seminar, Tyson's Corner, VA, April, 2008

**Alternative Bearings for THA,** Cherry Blossom Seminar, Tyson's Corner, VA, April, 2008

**Computer Assisted Surgery**, Cherry Blossom Seminar, Tyson's Corner, VA, April, 2008

**Why I Use Metal on Metal Total Hip Arthroplasty**, Advances in Arthroplasty, Arlington, VA, Sept, 2007

**Alternative Bearings for the Millenium Patient**, Corail Learning Center, Philadelphia, PA, Sept 2007

**Diagnosis and Management of Osteolysis in Total Hip Arthroplasty**, Grand Rounds, University of Connecticut, July 26<sup>th</sup>, 2007

**Minimally Invasive Unicompartmental Arthroplasty: Pitfalls and Complications**, Cherry Blossom Seminar, Arlington, VA, April 2007

**Evaluation of the Painful Total Knee Arthroplasty**, Cherry Blossom Seminar, Arlington, VA, April 2007

**Minimally Invasive Total Hip Replacement- Fact or Fiction?**, Cherry Blossom Seminar, Arlington, VA, April 2007

**Computer Assisted Surgery: Luxury or Necessity?**, Cherry Blossom Seminar, Arlington, VA, April 2007

**Acetabular Revision: Structural Grafting**, Transforming Orthopaedics: Improving Outcomes through Technology, March 2007, Park City , Utah

**Management and Treatment of Osteolysis**, Transforming Orthopaedics: Improving Outcomes through Technology, March 2007, Park City , Utah

**Conversion of Failed Uni and HTO to TKA**, Transforming Orthopaedics: Improving Outcomes through Technology, March 2007, Park City , Utah

**Managing Hip Instability**, Masters Series Hip Revision Course, AAOS Learning Center, Feb 2007, Chicago, IL

**Osteolysis, Diagnosis and Management**, Techniques in Arthroplasty, June, 2006, Baltimore, MD

**AVN of the Hip: Treatment Algorithm**, Advances in Total Joint Replacement: Indications, Techniques and Pearls, May 4-6, 2006, White Sulfur Springs, West VA

**Ten Pearls of TKA**, Advances in Total Joint Replacement: Indications, Techniques and Pearls, May 4-6, 2006, White Sulfur Springs, West VA

**Pitfalls & Complications of Minimally Invasive Unicompartmental Arthroplasty**, Advances in Total Joint Replacement: Indications, Techniques and Pearls, May 4-6, 2006, White Sulfur Springs, West VA

**Revision THA: Structural Acetabular Allografting**, Advances in Total Joint Replacement: Indications, Techniques and Pearls, May 4-6, 2006, White Sulfur Springs, West VA

**Revision THA: Femur: Allograft Prosthesis Composite**, Advances in Total Joint Replacement: Indications, Techniques and Pearls, May 4-6, 2006, White Sulfur Springs, West VA

**Work-up of the Painful TKA**, Advances in Total Joint Replacement: Indications, Techniques and Pearls, May 4-6, 2006, White Sulfur Springs, West VA

**Ligament Balancing: The Varus Knee**, Advances in Total Joint Replacement: Indications, Techniques and Pearls, May 4-6, 2006, White Sulfur Springs, West VA

**Computer Assisted TKA: Rationale and Introduction to CAS Platform**, New England Baptist Learning Center, March, 2006, Boston, MA

**Unicompartmental Knee Arthroplasty: Issues and Indications**, New England Baptist Learning Center, March, 2006, Boston, MA

**Tissue Sparing Total Knee Arthroplasty**, Transforming Orthopaedics, Advances in Technology and Techniques, Feb 8-12, 2006, Vail, CO

**Instrumentation in Total Knee Arthroplasty**, Basics in Arthroplasty Residents Course, San Diego, Sept, 2008, Baltimore, MD, July, 2008 Philadelphia, PA, Aug 2007, San Diego, CA, Oct 2005, Baltimore, MD, Aug 2005, Cincinnati OH, Aug, 2004

**The Patella in Total Knee Arthroplasty**, Basics in Arthroplasty Residents Course, Philadelphia, PA, Aug 2007, San Diego, CA, Oct 2005, Baltimore, MD, Aug 2005, Cincinnati OH, Aug, 2004

**Ligament Balancing: Varus Knee**, Basics in Arthroplasty Residents Course, San Diego, CA, Sept, 2008, Baltimore, MD, July 2008, Philadelphia, PA, Aug 2007, San Diego, CA, Oct 2005, Baltimore, MD, Aug 2005, Cincinnati OH, Aug, 2004

**New Technologies in Total Joint Arthroplasty**, INOVA Annual Nurses Lectureship, April, 2005, Fairfax, VA

**Minimally Invasive Hip Replacement**, INOVA Nurses Spring Seminar, April 2004, April 2005, Alexandria, VA, Lecturer and Live Surgical Demonstration

**Rapid Rehabilitation Pathway**, INOVA Nurses Spring Seminar, April 2004, April 2005, Alexandria, VA, Lecturer and Live Surgical Demonstration

## **AWARDS**

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AAHKS Clinical Award Paper: Hamilton, WG, Sritulanondha, S, Engh, Jr, CA: Prospective Randomized Comparison of High Flex and Standard Rotating Platform TKA. Podium Presentation, AAHKS, Dallas, 2010

Outstanding Video Award, AAOS annual meeting, 2009: Hamilton, WG: Treatment of Infected Total Hip Arthroplasty with PROSTALAC Implant: Indications and Surgical Technique.

Outstanding Video Award, AAOS annual meeting, 2001: Hamilton, WG, Alavi, R, Garino, JP: Femoral Impaction Grafting: Background, Indications and Surgical Technique.

De Forest Willard Award for Outstanding Performance as a Senior Resident in Orthopaedic Surgery, Hospital of the University of Pennsylvania, June 7, 2002

Leonard Marmor Surgical Arthritis Foundation Award for Excellence in Adult Reconstruction, Hospital of the University of Pennsylvania, June 1, 2001

Alpha Omega Alpha Honor Society, 1997, University of Cincinnati College of Medicine

Brown University Football - 4 Year Varsity Letterman  
Awarded Brown Club of Philadelphia Honor, 1991

## **CERTIFICATIONS**

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BOARD CERTIFIED, AMERICAN BOARD ORTHOPAEDIC SURGERY, 2005-2015

Orthopaedic Board Part I- passed, 2002

Orthopaedic Board Part II- passed, 2005

VA MD License: 0101232484

DEA License- current

ACLS/ATLS

BLS

## **EXPERIENCE**

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Operation Walk Virginia-Founding member

Medical team traveling to underserved countries to perform joint arthroplasties

Managua, Nicaragua- 2007

Managua, Nicaragua-2008

Guayaquil, Equador-2010

Consultant, Depuy, Johnson & Johnson Orthopaedics, 2003-current

Consultant and Certified instructor for Oxford Unicompartmental Knee, Biomet 2010-current

Consultant- Salient Surgical, 2010-current

Consultant, Lifenet, 2005-2009

Reviewer- Journal of Bone and Joint Surgery, 2005- current

Reviewer- Clinical Orthopaedics and Related Research-2008-current

Residency Selection Committee, 2001

Department of Orthopaedic Surgery, University of Pennsylvania

Publications Editor, 1999, 2000.

University of Pennsylvania Orthopaedic Journal,

Representative, Residency Education Committee, 1998-2002

Department of Orthopaedic Surgery, University of Pennsylvania