

# **WILLIAM G. HAMILTON, MD**

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## **TITLE**

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### **Staff Member, Anderson Orthopaedic Clinic**

Clinical Instructor, Adult Reconstruction Fellowship, Anderson Clinic Post-Graduate Medical Education Foundation

## **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 Clinic Post-Graduate Medical Education Foundation**

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 Instructor 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  
Harborside Ambulatory Surgery Center  
INOVA Fairfax Hospital- not active  
INOVA Alexandria Hospital-not active

## **LEADERSHIP POSITIONS**

Member, AAOS Adult Reconstruction Hip Program Committee, 2016-2019

Chair, Quality Measures Committee, American Association of Hip and Knee Surgeons,  
2017-present

Editorial Board Member, Journal of Arthroplasty, Orthopedics Today

President, Anderson Orthopaedic Clinic, 2012-2014

Vice Chair, AAHKS Patient Education committee, 2014-2017

Member, AAHKS Publications committee, Vice chair, 2012-2014

Member, AAHKS Health Policy Committee, Quality Measures Subcommittee, 2011-14,  
Total Hip quality measures workgroup

Member, Facility adoption committee for Computerized Order Entry, INOVA Mount  
Vernon Hospital, 2011-15

Member, EPIC EMR Adoption Committee, INOVA Health System, 2011-13

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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Knee Society- member  
Hip Society- member  
American Association of Orthopaedic Surgeons- Fellow  
American Association of Hip & Knee Surgeons- Fellow  
Alpha Omega Alpha Society  
Virginia Orthopaedic Society  
Medical Society of Virginia  
Washington D.C. Orthopaedic Society  
Board Member- Anderson Orthopaedic Research Institute  
Board Member- Anderson Clinic Post-Graduate Medical Education Foundation

## **AWARDS**

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Orthopedics Journal Blue Ribbon Award: Hamilton, WG, McDonald, JF, Pfefferle, KJ, Parks, NL: Prospective Randomized Study of Hip Positioning Software Shows Improved Cup Placement.

AAOS Game Changer Presentation: Hamilton, WG, Ho, H, Hopper, R, Fricka, K, Goyal, NG, Engh, CA, Jr: Running Two Rooms Does Not Compromise Outcomes of Patient Safety in Total Joint Arthroplasty. AAOS, New Orleans, 2018.

AAHKS Larry Dorr Award 2017: Hamilton, WG, Ho, H, Hopper, R, Fricka, K, Goyal, NG, Engh, CA, Jr: Running Two Rooms Does Not Compromise Outcomes of Patient Safety in Total Joint Arthroplasty. AAHKS, Dallas, 2017.

Outstanding Poster, Knee Reconstruction: Hamilton, WG, Brenkel, I, Clatworthy, M, Dwyer, K, Kantor, S, Lesko, J, Himden, S: Early Patient Reported Outcomes with New Primary vs Contemporary Total Knee Arthroplasty: A Comparison of Two, Worldwide, Multi-Center Prospective Studies. AAOS, San Diego, 2016

Aufranc Hip Society Award: Goyal, N, Chen, AF, Padgett, SE, Tan, TL, Kheir, MM, Hopper, RH Jr, Hamilton, WG, Hozack, WJ: Otto Aufranc Award: A Multicenter Randomized Study of Outpatient versus Inpatient Total Hip Arthroplasty. CLIN ORTHO REL RESEARCH. 2016, Jun 10. Epub ahead of print.

OREF/Current Concepts in Joint Replacement (CCJR) Clinical Practice Award. Patient Specific Instruments do not Shorten Surgical Time: A Prospective, Randomized trial. May, 2013, Las Vegas, NV

Leaders in Joint Replacement: Generation Next. A Recognition to Honor Outstanding Talent in Orthopaedics. *Sponsored by Orthopaedics Today*. March 20, 2013, Chicago, IL.

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

## **PUBLICATIONS**

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Sershon, RA, McDonald, JF, Ho, H, Goyal, N, Hamilton, WG: Outpatient Total Hip Arthroplasty Performed at an Ambulatory Surgery Center versus Hospital Outpatient Setting: Complications, Revisions, and Readmissions, J Arthroplasty, Epub July 2019

Held, MB, Grosso, MJ, Sarpong, NO, Hamilton, WG, Sista, AK, Macaulay, W: Recurrent Hemarthrosis Following Total Knee Arthroplasty. JBJS Reviews, 2019

Tauchen, AJ, Hushmendy, S, Parks, NL, Pfefferle, KJ, Hamilton, WG: Simultaneous bilateral anterior hips: Double trouble-opposes. Seminars in Arthroplasty 29, Sept 2018, 161-165.

Hamilton, WG, McDonald, JF, Pfefferle, KJ, Parks, NL: Prospective Randomized Study of Hip Positioning Software Shows Improved Cup Placement. Orthopedics, Jan/Feb 2019, 42(1), 42-47

Hamilton WG, Balkam CB, Purcell RL, Parks NL, Holdsworth JE.: Operating room traffic in total joint arthroplasty: Identifying patterns and training the team to keep the door shut. Am J Infect Control. 2018 Jun;46(6)633-636. Epub Feb 15 2018.

Hamilton WG, Ho H, Parks NL, Strait AV, Hopper RH Jr, McDonald JF, Goyal N, Fricka KB, Engh CA Jr. The Lawrence D. Dorr Surgical Techniques & Technologies Award: "Running Two Rooms" Does Not Compromise Outcomes or Patient Safety in Joint Arthroplasty. J Arthroplasty. 2018 Jul;33(7S):S8-S12. Epub 2018 Jan 31.

Russo, MW, Parks, NL, Hamilton, WG: Perioperative Pain Management and Anesthesia: A Critical Component to Rapid Recovery Total Joint Arthroplasty. *Orthop Clin North Am*, 48(4): 401-405, Oct, 2017.

Russo, MW, Parks, NL, Hamilton, WG, Engh, CA, Jr.: Problems and Solutions of the Extensor Mechanism. *Seminars in Arthroplasty*. Vol 28, p 91-95, 2017.

Toomey, SD, Daccach, J, Shah, J, Himden, S, Lesko, J, Hamilton, WG: Comparative Incidence of Patellofemoral Complications Between Two Total Knee Systems in a Multi-Center, Prospective Clinical Study. *J Arthroplasty*, 32(9S):S187-192, Sep, 2017.

Purcell, RP, Parks, NL, Cody, JP, Hamilton, WG: Comparison of Wound Complications and Deep Infections with Direct Anterior and Posterior Approaches in Obese Hip Arthroplasty Patients. *J Arthroplasty*. Jan; 33(1):220-223, 2018.

Goodman, GP, Goyal, N, Parks, NL, Hopper, RH Jr, Hamilton, WG: Intraoperative fluoroscopy with a direct anterior approach reduces variation in acetabular cup abduction angle. *Hip International*, Vol 27(6) Nov-Dec, 2017

Tauchen, AJ, Hamilton, WG: The anterior approach: Better, faster, and cheaper. *Seminars in Arthroplasty*. Vol 27,(4), Dec 2016.

Pitta, M, Wallach, C, Bauk, C, Hamilton, WG: Lumbar chance fracture after anterior total hip arthroplasty. *Arthroplasty Today*. 2017.

Banerjee, S, Hamilton, WG, Khanuja, HS, Roberts, JT: Outpatient Lower Extremity Total Joint Arthroplasty: Where Are We Heading? *Orthopedics*, 2017, Mar/Apr, 40(2), 72-75.

Hamilton, WG: No Smoking Allowed: Is the Operating Room the Next Place that Smoking Patients Undergoing Total Joint Arthroplasty Will Be Banned?. *J Bone Joint Surg Am* 2017, Feb 15;99(4)

Hamilton, WG, Ameen, DJ, Parks, NL, Goyal, N, Engh, GA, Engh, CA Jr.: Patellar Cut and Composite Thickness: The Influence on Postoperative Motion and Complication in Total Knee Arthroplasty. *J Arthroplasty* 2016 Dec 27 (Epub ahead of Print)

Goyal, N, Chen, AF, Padgett, SE, Tan, TL, Kheir, MM, Hopper, RH Jr, Hamilton, WG, Hozack, WJ: Otto Aufranc Award: A Multicenter Randomized Study of Outpatient versus Inpatient Total Hip Arthroplasty. *CLIN ORTHO REL RESEARCH*. 2016, Jun 10. Epub ahead of print.

Hamilton, WG: CORR Insights: Dual-mobility or Constrained Liners are More Effective Than Preoperative Bariatric Surgery in Prevention of THA Dislocation. *CLIN ORTHO REL RESEARCH*. 2016, 474(10), 2211-2212

Purcell, RL, Parks, NL, Gargiulo, JM, Hamilton, WG: Severely Obese Patients Have a Higher Risk of Infection After Direct Anterior Approach Total Hip Arthroplasty. JOURNAL OF ARTHROPLASTY. Vol 31,no 9S, p s166, Sept 2016

Barnett, SL, Peters, DJ, Hamilton, WG, Ziran, NM, Gorab, RS, Matta, J: Is the Anterior Approach Safe? Early Complication Rate Associated with 5090 Consecutive Primary Total Hip Arthroplasty Procedures Performed Using the Anterior Approach. JOURNAL OF ARTHROPLASTY, 2015, Jul 11, epub ahead of print

Panichkul, P, Parks, NL, Ho, H, Hopper, RH, Hamilton, WG: New Approach and Stem Increased Femoral Revision Rate in Total Hip Arthroplasty. ORTHOPEDICS. 2015 Jan/Feb, 2016, Vol 38, Issue 1: e86-e92

Hamilton, WG, McAuley, JP, Blumenfeld, TJ, Lesko, JP, Himden, SE, Dennis, DA: Midterm Results of Delta Ceramic on Ceramic Total Hip Arthroplasty. JOURNAL OF ARTHROPLASTY. 2015 Sep;30(9 Suppl): 110-5. Epub 2015, Jun 3.

Bedair, H, Goyal, N, Dietz, MJ, Urish, K, Hansen, V, Manrique, J, Hamilton, W, Deirmengian, G: A History of Treated Periprosthetic Joint Infection Increases the Risk of Subsequent Different Site Infection. CLIN ORTHOP RELATED RESEARCH. Vol 473(7), July, 2015: p 2300-4.

Hamilton, WG, Parks, NL, Huynh, C: Comparison of Cup Alignment, Jump Distance, and Complications in Consecutive Series of Anterior Approach and Posterior Approach Total Hip Arthroplasty. JOURNAL OF ARTHROPLASTY. Nov 30(11): 1959-62, 2015. Epub ahead of print, 2015 May 19.

Weidner, ZD, Hamilton, WG, Smirniotopoulos, J, Bagla, S: Recurrent Hemarthrosis Following Total Knee Arthroplasty Treated With Arterial Embolization. JOURNAL OF ARTHROPLASTY. Nov 30(11): 2004-7, 2015. Epub ahead of print, 2015, May 23.

Belmont, PJ, Heida, K, Keeney, JA, Hamilton, W, Burks, R, Waterman, BR: Return to Work and Functional Outcomes Following Primary Total Knee Arthroplasty in US Military Servicemembers. JOURNAL OF ARTHROPLASTY. Vol 30(6), June 2015, p 968-72.

Nunley, RM, Nam, D, Bashyal, RK, Della Valle, CJ, Hamilton WG, Berend, ME, Colhisy, JC, Barrack, RL: The Impact of Total Joint Arthroplasty on Sexual Function in Young, Active Patients. JOURNAL OF ARTHROPLASTY. Epub ahead of print 2014 Oct 2.

Hamilton, W, Reeves, JD, Fricka, KB, Goyal, N, Engh, GA, Parks, N: Mechanical Thromboprophylaxis with Risk Stratification in Total Knee Arthroplasty. JOURNAL OF ARTHROPLASTY, Vol 30, No 1, P 43-45. 2015.

McAsey, CJ, Gargiulo, JM, Parks, N, Hamilton, WG: Patient Satisfaction with Mobile Compression Devices Following Total Hip Arthroplasty. ORTHOPEDICS, Vol 37, No 8, Pg 516, Aug 2014

Hamilton, W, Parks, N: Patient Specific Instrumentation does not Shorten Surgical Time: A Prospective, Randomized trial, response to letter to editor. JOURNAL OF ARTHROPLASTY. Vol 29(7) P 1508-9, Jul 2014.

Hamilton, WG, Ameen, DJ, Hopper, RH Jr: Mid-Term Survivorship of Minimally Invasive Unicompartmental Arthroplasty with a Fixed Bearing Implant: Revision Rate and Mechanisms of Failure. JOURNAL OF ARTHROPLASTY, Vol 29(5), Pg 989-92, May 2014

Belmont, PJ Jr, Goodman, GP, Hamilton, W, Waterman, BR, Bader, JO, Schoenfeld, AJ: Morbidity and Mortality in the Thirty-Day Period Following Total Hip Arthroplasty: Risk Factors and Incidence. JOURNAL OF ARTHROPLASTY, May 27, 2014, Epub ahead of print

Rasouli, MR, Gomes LSM, Parsley, BP, Barsoum, W, Bezwada, H, Garcia, J, Hamilton, W, et al: Blood Conservation. *Consensus Statement of MSIS*. JOURNAL OF ARTHROPLASTY, Vol 29 (Supp), Pg 65-69, Feb 2014

Rasouli, MR, Gomes LSM, Parsley, BP, Barsoum, W, Bezwada, H, Garcia, J, Hamilton, W, et al: Blood Conservation. *Consensus Statement of MSIS*. JOURNAL OF ORTHOPEDIC RESEARCH, Suppl 1:S81-9, Jan 2014

Colwell, CW, Froimson, MJ, Anseth, SD, Giori, NJ, Hamilton, WG, Barrack, RJ, Buehler, KC, Mont, NA, Padgett, DE, Pulido, P, Barnes, LC: A Mobile Compression Device for Thrombosis Prevention in Hip and Knee Arthroplasty. JOURNAL OF BONE AND JOINT SURGERY-A, Vol 96-A, No 3, Feb 5<sup>th</sup>, 2014

Parvizi, J, Nunley, RM, Berend, KR, Lombardi, AV Jr, Ruh, EL, Clohisy, JC, Hamilton, WG, Della Valle, CJ, Barrack, RL: High Level of Residual Symptoms After Total Knee Arthroplasty. CLINICAL ORTHOPAEDICS AND RELATED RESEARCH, 2013, 472(1), P133-137, Jan 2014.

Edwards, PK, Fehring, TK, Hamilton, WG, Perricelli, B, Beaver, WB, Odum, SM: Are Cementless Stems More Durable Than Cemented Stems in Two-Stage Revisions of Infected Total Knee Arthroplasties? CLINICAL ORTHOPAEDICS AND RELATED RESEARCH. Jan; 472(1):206-11, 2014.

Lombardi, AV, Jr., Nunley, RM, Berend, KR, Ruh, EL, Clohisy, JC, Hamilton, WG, Della Valle, CJ, Parvizi, J, Barrack, RL: Do Patients Return to Work after Total Knee Arthroplasty? CLINICAL ORTHOPAEDICS AND RELATED RESEARCH, 472(1), P138-146, Jan 2014.

Barrack, RL, Ruh, EL, Chen, J, Lombardi, AV, Berend, D, Parvizi, J, Della Valle, CJ, Hamilton, WG, Nunley, RM: Impact of Socioeconomic Factors on Outcome of Total Knee Arthroplasty. CLINICAL ORTHOPAEDICS AND RELATED RESEARCH, 472(1): P86-97, Jan, 2014.

Hamilton, W, Saxena, A, Parks, N: Patient Specific Instrumentation does not Shorten Surgical Time: A Prospective, Randomized trial. JOURNAL OF ARTHROPLASTY. Sep 28(8 Suppl):96-100, 2013

Hamilton, WG: Guest Editor Introduction. JOURNAL OF ARTHROPLASTY AAHKS Supplement. September 2012, Vol 27, Num 8, Suppl 1, p 1

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McAuley, JP, Dennis, DA, Grostefon, J, Hamilton, WG: Factors Affecting Modular Acetabular Ceramic Liner Insertion: A Biomechanical Analysis: CLINICAL ORTHOPAEDICS AND RELATED RESEARCH, December 2011, Vol 469, Num 12

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, Ammeen, 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 ORTHOPAEDICS 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.

Pappademos, 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, Tabaree, 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.

Pill, SG, Hamilton, WG, 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.

### **Textbook Chapters**

Hamilton, W Gonzalez, F,: Direct Anterior Approach with the Table. AAOS Hip Arthroplasty textbook, eds Berry, Lieberman

Gonzalez, F, Ongwijitwat, S, Hamilton, W: Direct Anterior Approach Total Hip Arthroplasty on a Specialized Traction Table. The Hip: Preservation, Replacement and Revision, eds Cashman, Goyal, N, Parvizi, J, Datatrace publishing, 2015, P 61-1-61-19.

Hamilton, WG, Uggen, J: The Use of Extensively Coated Stem for Femoral Revision. Chapter in The Adult Hip, Eds Callaghan, J, Rosenberg, A, Della Valle, C, in press.

Makda, J, Siram, G, Hamilton, WG: Revision for Aseptic Failure. Chapter in The Knee: Reconstruction, Replacement, and Revision. Eds Parvizi, J, in press.

Goyal, N, Hamilton, WG, Engh, GA: AORI Bone defect Classification for Revision TKA. Chapter in The Knee: Reconstruction, Replacement, and Revision. Eds Parvizi, J, in press.

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

Hamilton, WG, McAuley, JP. Sepsis, Etiology, Prophylaxis 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.

## **PRESENTATIONS**

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

#### **Podium presentations:**

Tauchen, A, Parks, N, Hushmendy, S, Pfefferle, K, Hamilton, WG: Modern Simultaneous Bilateral Anterior Total Hip Arthroplasty is a Safe and Efficient Surgery. AAOS, Las Vegas, 2019

Robertson, R, Hopper, R, Hamilton, WG: What is the Dislocation Rate when the Anterior Approach is Used to Isolated Head and Liner Exchange? AAOS, Las Vegas, 2019

Brown, N, Goyal, N, Hamilton, WG, Engh, Jr, CA, Fricka, K: Early Periprosthetic fracture following Partial Knee Arthroplasty. AAOS, New Orleans, 2018.

Hamilton, WG, Ho, H, Hopper, R, Fricka, K, Goyal, NG, Engh, CA, Jr: Running Two Rooms Does Not Compromise Outcomes of Patient Safety in Total Joint Arthroplasty. AAOS, New Orleans, 2018. Selected as “Game Changer” presentation.

Hamilton, WG, Ho, H, Hopper, R, Fricka, K, Goyal, NG, Engh, CA, Jr: Running Two Rooms Does Not Compromise Outcomes of Patient Safety in Total Joint Arthroplasty. AAHKS, Dallas, 2017. Larry Dorr Award winner.

Hamilton, WG, Ho, H, Hopper, R, Fricka, K, Goyal, NG, Engh, CA, Jr: Running Two Rooms Does Not Compromise Outcomes of Patient Safety in Total Joint Arthroplasty. Closed Meeting of the Knee Society, New Albany, OH, 2017.

Toomey, S, Himden, S, Dwyer, K, Lesko, J, Hamilton, W: Patellofemoral Complications comparing Currently Available Products and a New Total Knee System. AAHKS, Dallas, 2016.

Hamilton WG, Brenkel, I, Clatworthy, M, Dwyer, K, Himden, S, Kantor, S, Lesko, J: Patient Reported Outcomes in Primary TKA Among Currently Available Products. Eastern Orthopedic Association, New Orleans, LA, 2016

Hamilton WG, Brenkel, I, Clatworthy, M, Dwyer, K, Himden, S, Kantor, S, Lesko, J: Patient Reported Outcomes in Primary TKA Among Currently Available Products. Southern Orthopaedic Association, Naples, Florida, July 27-30, 2016 (Rapid Fire Podium Presentation)

Howard, J. Hamilton, W, et al: Learning curve with a New Primary TKA. Canadian Orthopedic Association, 2016.

Goyal, N, Padgett, SE, Chen, AF, Tan, TL, Kheir, MM, Hopper, RH, Hamilton, WG, Hozack, WJ: A Multi-center, Prospective, Randomized Study of Outpatient vs. Inpatient Total Hip Arthroplasty: AAHKS, Dallas, 2015

Bedair, HS, Goyal, N, Dietz, MJ, Hamilton, W, Urish, K, Hansen, V, Manrique, J, Parvizi, J, Deirmengian, G: Periprosthetic Joint Infection after Primary THA or TKA in Patients with a History of PJI. AAOS Las Vegas, 2015

Hamilton, W, McAuley, JP, Blumenfeld, T, Himden, S, Lesko, J, Dennis, D: Delta Ceramic on Ceramic THA-Midterm Results. AAHKS, Dallas, 2014.

Colwell, CW, Froimson, MI, Anseth, SD, Giori, NJ, Hamilton, WG, Barrack, RL, Mont, MA, Buehler, KC, Barnes, LC: Thrombosis prevention Using a Portable Compression Device in Total Hip Arthroplasty. AAOS New Orleans 2014.

Belmont, PJ, Goodman, GP, Hamilton, WG, Waterman, B, Schoenfeld, AJ: Thirty day Postoperative Complications and Mortality Following Total Hip Arthroplasty: 1 Study of 17,640 patients. AAOS New Orleans 2014.

Barrack, RL, Ruh, EL, Chen, J, Lombardi, AV, Berend, D, Parvizi, J, Della Valle, CJ, Hamilton, WG, Nunley, RM: Impact of Socioeconomic Factors on Outcome of Total Knee Arthroplasty. Interim meeting of Knee Society, 2012, Open Meeting of Knee Society, Chicago, 2013

Lombardi, AV, Jr., Nunley, RM, Berend, KR, Ruh, EL, Clohisy, JC, Hamilton, WG, Della Valle, CJ, Parvizi, J, Barrack, RL: Do Patients Return to Work after Total Knee Arthroplasty? AAOS Chicago 2013, Open Meeting of Knee Society 2013, Interim Meeting of Knee Society 2012.

Hamilton, W, Saxena, A, Parks, N: Patient Specific Instruments do not Shorten Surgical Time: A Prospective, Randomized trial. AAHKS, Dallas, TX, 2012.

Edwards, PK, Perricelli, B, Hamilton, WG, Fehring, TK, Odum, SM, Dennos, AC, Beaver, WB: Uncemented vs. Cemented Stems in Two-Stage Revision For Infected Total Knee Arthroplasty. Closed meeting of the Knee Society, New York City, NY, 2012.

Nunley, RM, Ruh, EL, Clohisy, JC, Lombardi, AV, Berend KR, Hamilton, WG, Della Valle, CJ, Parvizi, J, Barrack, RL: Impact of Socioeconomic Factors On Results of Total Knee Arthroplasty. Closed meeting of the Knee Society, New York City, NY, 2012.

Hamilton, W, McAuley, JP, Murphy, J, Blumenfeld, T, Dennis, D: Delta Ceramic on Ceramic THA-Midterm Results Including Squeaking and Liner Fracture Rates. Canadian Orthopaedic Society, 2012.

Fricka, KB, Engh, Jr, CA, Hamilton, WG, Ho, H: Survivorship and Revision Analysis Among Primary Metal on Metal Total Hip Arthroplasty Using 36 mm Diameter Heads. AAOS San Francisco, CA, 2012

Hamilton, W, McAuley, JP, Murphy, J, Blumenfeld, T, Dennis, D: Delta Ceramic on Ceramic THA-Midterm Results Including Squeaking and Liner Fracture Rates. Closed meeting of the Hip Society, 2011.

Hamilton, WG, Sritulanondha, S, Engh, Jr, CA: Prospective Randomized Comparison of High Flex and Standard Rotating Platform TKA. 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 Unicompartmental 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, Ammeen, D, Engh, CA, Engh, GA: Learning Curve Associated with Minimally Invasive Unicompartmental Arthroplasty. Podium presentation, AAOS, San Francisco, 2008.

Hamilton, WG, Collier, MB, Tabaree, 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, Tabaree, 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, Brenkel, I, Clatworthy, M, Dwyer, K, Kantor, S, Lesko, J, Himden, S: Comparison of Existing and New Total Knee Arthroplasty From The Same Manufacturer: A Prospective Multi-Center Studies. AAOS, Las Vegas, NV, 2019

Hamilton, WG, Henry Ho MS, Nancy Parks MS, Craig McAsey MD, Robert Hopper PhD: Does a “July Effect” Exist for Fellowship Training in Total Hip and Knee Arthroplasty? AAOS, Las Vegas, NV, 2019

Robertson, R, Hopper, R, Hamilton, WG: Rate of Instability after Direct Anterior Approach for Isolated Head and Liner Exchanges. AAHKS, Dallas, TX, 2018

Hamilton, WG, Henry Ho MS, Nancy Parks MS, Craig McAsey MD, Robert Hopper PhD: Does a “July Effect” Exist for Fellowship Training in Total Hip and Knee Arthroplasty? AAHKS, Dallas, TX, 2018

Hamilton, WG, Ho, H, Gargiulo, J, Parks, NL: The Air Barrier System Does Not Reduce the Incidence of Infection in Total Hip Arthroplasty. AAOS, New Orleans, 2018.

Hamilton, WG, McDonald, JF, Pfefferle, KJ, Parks, NL: Prospective Randomized Study of Hip Positioning Software Shows Improved Cup Placement. AAHKS, Dallas, 2017.

Hamilton, WG, Ho, H, Gargiulo, J, Parks, NL: The Air Barrier System Does Not Reduce the Incidence of Infection in Total Hip Arthroplasty. AAHKS, Dallas, 2017.

Hamilton, WG, Brenkel, I, Clatworthy, M, Dwyer, K, Kantor, S, Lesko, J, Himden, S: Early Patient Reported Outcomes with New Primary vs Contemporary Total Knee Arthroplasty: A Comparison of Two, Worldwide, Multi-Center Prospective Studies. ISTA, Boston, 2016

Hamilton, WG, Brenkel, I, Clatworthy, M, Dwyer, K, Kantor, S, Lesko, J, Himden, S: Early Patient Reported Outcomes with New Primary vs Contemporary Total Knee Arthroplasty: A Comparison of Two, Worldwide, Multi-Center Prospective Studies. AAOS, San Diego, 2016 (Awarded Best Poster-Adult Knee Reconstruction)

Toomey, S, Daccach, J, Shah, J, Himden, S, Lesko, J, Hamilton, WG: Comparing the Incidence of Patellofemoral Complications in a New Total Knee Arthroplasty System vs Currently Available Products in Two, Worldwide, Multi-Center, Prospective Clinical Studies. ISTA, Boston, 2016

Brenkel, I, Gibbon, A, Hamilton WG, Kantor, S, Clatworthy, M, Dwyer, K, Himden, S, Lesko, J: Patient Reported Outcomes in Primary Total Knee Arthroplasty (TKA) Among

Currently Available Products: A Large Sample Prospective Worldwide Study. BASK, Liverpool, United Kingdom, March 30-31, 2016 (E-Poster)

Brenkel, I, Gibbon, A, Hamilton WG, Kantor, S, Clatworthy, M, Dwyer, K, Himden, S, Lesko, J: Early Outcomes With A New Primary Total Knee Arthroplasty (TKA) System vs. Contemporary TKA: Interim Results of Two Worldwide, Multi-Center Prospective Studies. BASK, Liverpool, United Kingdom, March 30-31, 2016 (Poster Presentation & E-Poster)

Brenkel, I, Gibbon, A, Hamilton WG, Kantor, S, Clatworthy, M, Dwyer, K, Himden, S, Lesko, J: Patient Reported Outcomes in Primary Total Knee Arthroplasty (TKA) Among Currently Available Products: A Large Sample Prospective Worldwide Study. EFFORT, Geneva, Switzerland, June 1-3, 2016 (Poster Presentation)

Hamilton WG, Brenkel, I, Clatworthy, M, Dwyer, K, Himden, S, Kantor, S, Lesko, J: Comparative Patient Reported Outcomes With A New vs. Contemporary TKA. Southern Orthopaedic Association, Naples, Florida, July 27-30, 2016 (Poster Presentation)

Brenkel, I, Clatworthy, M, Dwyer, K, Gibbon, A, Hamilton WG, Himden, S, Kantor, S, Lesko, J: Early Outcomes With A New Primary TKA System vs. Contemporary TKA: Interim Results of Two Worldwide, Multi-Center Prospective studies. SICOT, Rome, Italy, September 8-10, 2016 (E-Poster)

Brenkel, I, Clatworthy, M, Dwyer, K, Gibbon, A, Hamilton WG, Himden, S, Kantor, S, Lesko, J: Patient Reported Outcomes in TKA Among Currently Available Products: A Large Sample Prospective Worldwide Study. SICOT, Rome, Italy, September 8-10, 2016 (E-Poster)

Goyal, N, Fricka, KB, Ammeen, D, Hamilton, WG, Engh, GA: To Uni Knee or Not Uni Knee- That is the Question: Does Preoperative Range of Motion Matter? AAHKS, Dallas, TX, November 2015

Hamilton, WG, Ammeen, D, Goyal, N, Fricka, KB, Engh, CA, Parks, NL, Engh, GA: Thick or Thin? Patellar Thickness: The Influence on Motion and Complications after Total Knee Arthroplasty. AAHKS, Dallas, TX, November 2015.

Hamilton, WG, Parks, NL, Ho, H, Garguilo, J: Is Obesity Putting Anterior Approach Hips at Higher Risk of Infection?. AAHKS, Dallas, TX, November 2015

Parks, NP, Engh, CA, Jr, Hamilton, WG: Changing demographics in a Total Knee Population over 25 years: A Weight Issue. AAHKS, Dallas, TX, November, 2014

Coles, T, Dwyer, K, Williams, V, Clatworthy, M, Yates, P, Hamilton, WG, et al.: Psychometric Evaluation of the Patient's Knee Implant Performance (PKIP)



Questionnaire for the assessment of Primary Total Knee Arthroplasty. ISPOR 17<sup>th</sup> Annual European Congress, Amsterdam, Netherlands, Nov 2014

Hamilton, WG, Goyal, NG, Parks, NL: New Approach, New Stem, New Problems? AAOS, New Orleans, 2014

Hamilton, WG, Saxena, A, Parks, N: Patient Specific Instruments do not Shorten Surgical Time: A Prospective, Randomized trial. AAOS, Chicago, 2013.

Colwell, CW, Froimson, MI, Anseth, SD, Woolson, ST, Hamilton, WG, Barrack, RL, Buehler, KC, Pulido, PA, Barnes CL: Thrombosis Prevention Using a Portable Compression Device as Monotherapy in Hip and Knee Arthroplasty. AAHKS, Dallas, TX, November, 2012

Colwell, CW, Froimson, MI, Anseth, SD, Woolson, ST, Hamilton, WG, Barrack, RL, Buehler, KC, Pulido, PA, Barnes CL: Thrombosis Prevention Using a Portable Compression Device as Monotherapy in Hip and Knee Arthroplasty. AAOS, San Francisco, CA, February, 2012

Hamilton, WG, Ammeen, D, Engh, Jr, CA, Engh, GA: Modern Minimally Invasive Unicompartamental Arthroplasties (MIUKA) Fail at a Constant and Moderate Rate. 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. AAHKS, Dallas TX, October, 2011

Hamilton, WG, Fricka, K, Ammeen, D, Engh, CA, Engh, GA: Learning Curve Associated with Minimally Invasive Unicompartamental Arthroplasty. AAHKS, Dallas, TX, 2007

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

McAuley, JP, Collier, M, Hamilton, W: Posterior Cruciate Ligament Retaining Total Knee Arthroplasty in the Valgus Knee. 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, IL, 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, TX, November 3-5, 2006

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

Hamilton, WG, Turk, JP, Christians, MA, Garino, JP: Massive Acetabular Impaction Grafting- Midterm Results. AAOS, New Orleans, LA, 2003.

## **Scientific Presentations- Regional**

### **Podium Presentations:**

Tauchen, A, Hushmendy, S, Parks, NL, Pfefferle, KJ, Hamilton, WG: Simultaneous Bilateral Anterior THA is as Safe as Unilateral THA. Virginia Orthopedic Society. Charlottesville, VA, 2017

Hamilton, W, Saxena, A, Parks, N: Does Patient Specific Instruments Affect Limb Alignment in TKA?: A Prospective, Randomized Trial. Virginia Orthopaedic Society. Williamsburg, VA, 2012.

Hamilton, WG: The Direct Anterior Approach is Preferred for Total Hip Arthroplasty: Affirmative. Virginia Orthopaedic Society, Williamsburg, VA, 2012.

Hamilton, WG, Fricka, K, Ammeen, D, Engh, CA, Engh, GA: Learning Curve Associated with Minimally Invasive Unicompartmental Arthroplasty. 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, Tabaree, 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, Ammeen, D, Engh, CA, Engh, GA: Isolated Mechanical Thromboprophylaxis Following Total Knee Arthroplasty. Poster Presentation, Virginia Orthopaedic Society, May, 2008.

## **Multimedia Productions**

Shusmendy, S, Pfflerle, K, Hamilton, WG: A Novel Tension Band Technique for Fixation of Displaced Greater Trochanteric Fractures Following Total Hip Arthroplasty. AAHKS, Dallas, 2016

Hamilton, WG: Live surgical demonstration of Direct Anterior Approach Total Hip Arthroplasty via satellite, ICJR San Diego, July, 2012

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., Principal Investigator, Nancy Parks, Study Co-coordinator

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

**6. Title:** Multi-Center, Non-Comparative Study of Primary TKA Functional Performance

**Description:** This study will evaluate the functional performance of primary TKA at minimum one year and minimum two year post-op using clinical and patient reported outcomes. This post-marketing investigation will describe functional knee performance of Subjects who have undergone primary TKA. Data from Subjects who are receiving one of a variety of four contemporary knee configurations from different manufacturers will be pooled to establish a contemporary dataset. No knee design will be designated “treatment” or “control”.

William G. Hamilton, M.D., Principal Investigator, C. Anderson Engh, Jr., M.D., Sub-Investigator

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

**7. Title:** Randomized, Multicenter Trial of Pinnacle Ceramic on Metal Total Hip System

**Description:** The purpose of this IDE study is to determine the safety and efficacy of the cementless Ceramic-on-Metal (COM) total hip prosthesis as compared to the cementless Metal-on-Metal (MOM) total hip prosthesis. Subjects are in 6-7 year follow-up.

C. Anderson Engh, Jr., M.D., Principal Investigator, William G. Hamilton, M.D., Sub-Investigator, Charles A. Engh, Sr., M.D., Sub-Investigator

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

**8. Title:** Metal Ion Release from an FDA-Approved Metal-on-Metal Hip Replacement Implant: A Multi-Center, Randomized Clinical Trial

**Description:** The purpose of the study is to measure the metal ion release in the blood and urine of total hip replacement patients implanted with DePuy metal-on-

metal hip replacement components. We will compare the cobalt, chromium, and titanium metal ion levels among patients randomized into the following 3 groups: 1) those with metal-on-metal acetabular components articulating with 28-mm diameter femoral heads; 2) those with metal-on-metal acetabular components articulating with 36-mm femoral heads; and 3) a control group of patients with metal-on-polyethylene acetabular components articulating with 28-mm diameter femoral heads. Minimum 5-year follow-up will be evaluated.

C. Anderson Engh, Jr., M.D., Principal Investigator, William G. Hamilton, M.D., Sub-Investigator, Charles A. Engh, Sr., M.D., Sub-Investigator

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

**9. Title:** A Randomized Clinical Study to Compare the Safety and Efficacy of the Oxford Cementless Partial Knee System

**Description:** The IDE study is designed to document and compare the clinical and radiographic results of the Oxford® Cementless Partial Knee System to those of the cemented Oxford® Partial Knee System (control treatment). Minimum 2-year follow-up data will be evaluated.

William G. Hamilton, M.D., Principal Investigator

**Supporting Agency:** Biomet

**10. Title:** Impact of Non-thermal Pulsed Radio Frequency (PRF) on Opioid Use, Pain, and Joint Function Following Total Knee Arthroplasty: A Double-Blind, Randomized, Sham-Controlled Trial

**Description:** The main objective of this prospective clinical trial was to determine the effectiveness of non-thermal PRF delivered with the Ivivi Torino II for reducing post-operative narcotic use in patients recovering from TKA. Secondary objectives of this trial will be to determine if the Ivivi Torino II improves post-operative pain severity, knee edema, and joint range of motion.

Gerard A. Engh, M.D., Principal Investigator, William G. Hamilton, M.D., Sub-Investigator, Kevin B. Fricka, M.D., Sub-Investigator, C. Anderson Engh, Jr., M.D., Sub-Investigator, Nitin Goyal, M.D., Sub-Investigator

**Supporting Agency:** Amp Orthopedics, Inc.

## **INVITED LECTURES**

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**Protocol Development and Execution. Outpatient Total Joint Arthroplasty Symposium.** AAOS, Las Vegas, NV Nov, 2019

**Blood Management Strategies for Outpatient Total Joint Arthroplasty.** Outpatient TJA Symposium. AAOS, Las Vegas, NV 2019

**Preventing Uncemented Femoral Component Loosening after Direct Anterior THA.** Symposium, Las Vegas, NV, 2019

**The Tricompartmental Solution: Stick with the one the brought ya!** CCJR Orlando, Dec 2018

**Anterior Approach: Better, Faster, Cheaper.** CCJR Orlando, Dec 2018

**Outpatient Total Joint Arthroplasty.** Grand Rounds, Brown University Department of Orthopedics. Providence, RI. Dec, 2018.

**Protocol Development and Execution. Outpatient Total Joint Arthroplasty Symposium.** AAHKS, Dallas, TX, Nov, 2018.

**Perioperative Pain Management and Minimizing Narcotics.** AAHKS Team Member Course. Dallas, Tx, Nov 2018

**Femoral Exposure and Implantation.** Anterior Approach Total Hip Instructional Course. Geneva, Switzerland, Oct, 2018

**Surgical Approaches to Total Hip Arthroplasty.** Introduction to Hip and Knee Arthroplasty. Nashville, TN, Sept, 2018.

**Ligament Balancing in TKA.** Introduction to Hip and Knee Arthroplasty. Nashville, TN, Sept, 2018.

**Does a July Effect Exist for Training Adult Reconstruction Fellows?** Revisiting the Beginning: Plotting the Future of Total Joint Arthroplasty. Engh Society Reunion. Alexandria, VA, June 2018.

**Patients with High BMI Should be Optimized Prior to TJA.** ICJR South, Key Largo, FL, Jun 2018.

**Hospital, Surgeon, and Vendor Alignment.** . ICJR South, Key Largo, FL, Jun 2018.

**Simultaneous Bilateral Anterior Total Hip Arthroplasty: Double Bonus.** Current Concepts in Joint Replacement. Las Vegas, NV, May, 2018.

**Blood Management in Total Hip Arthroplasty: TXA Combined Clinical Practice Guidelines.** Current Concepts in Joint Replacement. Las Vegas, NV, May, 2017.

**Unicompartmental Arthroplasty: Moderator Breakout Session.** AAHKS Spring Meeting. Miami, FL, 2018.

**Outpatient Clinical Protocol Development and Execution and Anesthesia.** ICL: Outpatient Arthroplasty: Same Day, Home Safe. Talk: AAOS ICL 2017-2018.

**Clinical results of Treatment of Acetabular revision.** ICL: The Treatment of Management of Acetabular Bone Loss in Revision Total Hip Arthroplasty. AAOS ICL 2016-2018.

**Patient and Radiographic Workup of Revision THA.** ICL: The Treatment of Management of Acetabular Bone Loss in Revision Total Hip Arthroplasty. AAOS ICL 2016-2018.

**Ceramic on Ceramic- Update of IDE Study Results.** Joint Arthroplasty Mountain Meeting. Park City Utah, Jan 2018.

**Cementless Total Knee Design.** Joint Arthroplasty Mountain Meeting. Park City Utah, Jan 2018.

**Anterior Approach Total Hip Arthroplasty- Video Vignettes.** Joint Arthroplasty Mountain Meeting. Park City Utah, Jan 2018.

**Total Hip Arthroplasty after Acetabular Fracture.** Joint Arthroplasty Mountain Meeting. Park City Utah, Jan 2018.

**Staph Screening Pre-operatively.** Joint Arthroplasty Mountain Meeting. Park City Utah, Jan 2018.

**Ligament Balancing in TKA.** Introduction to Hip and Knee Arthroplasty. Nashville, TN, Sept, 2017.

**Hip Instrumentation.** Introduction to Hip and Knee Arthroplasty. Nashville, TN, Sept, 2017.

**Total Knee Approaches.** Introduction to Hip and Knee Arthroplasty. Nashville, TN, Sept, 2017.

**Anterior Approach THA with the Traction Table.** Park City Hip and Knee Symposium. Park City, Ut, Aug, 2017

**Bearing Surface Selection in THA.** Park City Hip and Knee Symposium. Park City, Ut, Aug, 2017

**Using Radiographs to Determine Intraoperative Leg Lengths.** Anterior Hip Foundation. Las Vegas, NV, June, 2017.

**Why I Prefer a Collared Stem for THA.** Anterior Hip Foundation. Las Vegas, NV, June, 2017.

**Extensively Porous Coated Femoral Stems: 15 Years and Counting.** Current Concepts in Joint Replacement. Las Vegas, NV, May, 2017.

**Posterior Stabilized Knee Designs: Vestigial Organs, Opposed.** Current Concepts in Joint Replacement. Las Vegas, NV, May, 2017.

**TKA: Current Trends and Future Directions.** From Primary TKA to Revision. Raynham, MA, May, 2017.

**Can a New TKA System Improve Patient Outcomes?** From Primary TKA to Revision. Raynham, MA, May, 2017.

**Patient Selection and Perioperative Management for Outpatient TJA.** Vumedi Outpatient Total Joint Arthroplasty Webinar. April, 2017.

**Transitioning to the Outpatient Setting.** Vumedi Outpatient Total Joint Arthroplasty Webinar. April, 2017.

**Prospective Randomized Study of Hip Positioning Software Shows Improved Cup Placement.** Hip Society Traveling Fellowship. April, 2017.



**Medical and Blood Management in Outpatient Total Joint Arthroplasty.**

Instructional Course Lecture, AAOS San Diego, 2107

**Patient and Radiographic Workup of Revision Acetabulum.**

Instructional Course Lecture, AAOS San Diego, 2107

**Clinical Results of Acetabular Revisions.**

Instructional Course Lecture, AAOS San Diego, 2107

**Anterior Approach: Lessons Learned.**

Alleghany Hospital Grand Rounds. Pittsburgh, PA, Jan 2017.

**Differential diagnosis of Hip Pain.**

AAHKS Team member course, AAHKS Dallas, 2016.

**Can a New Knee System Improve Patient Reported Outcomes?**

From Primary to Revision TKA Learning Center. Tampa, FL, Apr 2016

**Can a New Knee System Improve Patient Reported Outcomes?**

Anderson Postgraduate Medical Education Foundation. April, 2016.

**Anterior Approach For Revision THA.**

Anderson Postgraduate Medical Education Foundation. April, 2016.

**Why I prefer the Anterior Approach? Course Moderator.**

Anterior Approach Depuy Cadaveric Course. AAOS learning center, Chicago, Nov 2015.

**Anterior Approach Case Presentations.**

Anterior Approach Depuy Cadaveric Course. AAOS learning center, Chicago, Nov 2015.

**Ask the Experts: Primary Total Knee Case Review.**

AAHKS meeting, Dallas, 2015.

**Differential diagnosis of Hip Pain.**

AAHKS Team member course, AAHKS Dallas, 2015.

**Outpatient Total Joint Arthroplasty Symposia: Anesthesia, Medical and Blood Management.**

AAHKS meeting, Dallas, 2015.

**Management of Bone Loss During Revision TKA: Use of Bulk Allograft.**

3<sup>rd</sup> Annual Philadelphia Revision Course, Philadelphia, PA, Apr 30-May 2, 2015

**Femoral Component Revision: Indications and Limitations of Extensively Coated Stems.**

3<sup>rd</sup> Annual Philadelphia Revision Course, Philadelphia, PA, Apr 30-May 2, 2015

**Isolated Liner Exchange in Revision TKA.**

3<sup>rd</sup> Annual Philadelphia Revision Course, Philadelphia, PA, Apr 30-May 2, 2015

**Hard on Hard Bearings in THA: Making a Bearing Choice.**

AAOS/AAHKS Hip Course, From Primary to Revision, AAOS OLC, Chicago, IL, June 2015

**Anterior Approach THA: Live Cadaveric Demonstration:**

AAOS/AAHKS Hip Course, From Primary to Revision, AAOS OLC, Chicago, IL, June 2015

**Revision TKA Exposure. Revision TKA: Step by Step Video Techniques.**

Instructional Course Lecture, AAOS Las Vegas 2015

**Revision TKA Using Metaphyseal Sleeves. Revision TKA: Step by Step Video Techniques** Instructional Course Lecture, AAOS Las Vegas 2015

**Tips and Techniques for UKA. Update on Unicondylar Knee Replacement.** Instructional Course Lecture, AAOS Las Vegas 2015

**Blood Management in Outpatient Total Joint Arthroplasty.** Symposium, AAOS Las Vegas, 2105

**Management of Osteolysis with Cup Revision.** Instructional Course Lecture, AAOS Las Vegas, 2015

**Too Thick or Too Thin: The Patellar Cut in Total Knee Arthroplasty.** Current Controversies in Total Joint Arthroplasty, Cancun, Jan 2015

**Cup Positioning in THA.** Current Controversies in Total Joint Arthroplasty, Cancun, Jan 2015

**Air Barrier System for Infection Prevention.** Current Controversies in Total Joint Arthroplasty, Cancun, Jan 2015

**The Use of the Air Barrier System to Prevent Infection:** Modern Trends in Total Joint Replacement, 6<sup>th</sup> annual Meeting, Palm Springs, CA, Dec, 2014.

**The Anterior Approach: Today's Gold Standard?** Charles Schwartz Annual Memorial Lectureship; Loyola University of Chicago, Oct 17<sup>th</sup>, 2014.

**Ceramic on Ceramic Total hip Arthroplasty: A New Generation of Ceramic Bearings.** Charles Schwartz Annual Memorial Lectureship; Loyola University of Chicago, Oct 17<sup>th</sup>, 2014.

**Why Anterior Approach is My Preferred Surgical Technique.** Orthopaedic Learning Center. Chicago, IL, May 8-9, 2014

**Moderator: Anterior Approach Cadaveric Learning Center, Faculty Panel and Discussion, Case Presentations.** Orthopaedic Learning Center. Chicago, IL, May 8-9, 2014

**Management of Bone Loss during Revision TKA: Use of Bulk Allograft.** 2<sup>nd</sup> Annual Philadelphia Revision Course, Philadelphia, PA, May 2-3, 2014

**Femoral Component Revision: Indications and Limitations of Extensively Coated Stems.** 2<sup>nd</sup> Annual Philadelphia Revision Course, Philadelphia, PA, May 2-3, 2014

**Direct Anterior Approach.** Emily Berend Adult Reconstruction Symposium. Duke University Medical Center, April 2014.

**Blood Management in Outpatient Total Joint Arthroplasty.** Emily Berend Adult Reconstruction Symposium. Duke University Medical Center, April 2014.

**Trunion Corrosion: What's the Deal?** Emily Berend Adult Reconstruction Symposium. Duke University Medical Center, April 2014.

**Partial Knee Arthroplasty vs Total Knee Arthroplasty: Uni's Work!** Emily Berend Adult Reconstruction Symposium. Duke University Medical Center, April 2014.

**Patient Specific Instrumentation.** Emily Berend Adult Reconstruction Symposium. Duke University Medical Center, April 2014.

**Direct Anterior Approach: Lessons Learned.** Hip Society Traveling Fellowship. Alexandria, VA, April, 2014

**Revision TKA Exposure. Revision TKA: Step by Step Video Techniques.** Instructional Course Lecture, AAOS New Orleans 2014

**Revision TKA Using Metaphyseal Sleeves. Revision TKA: Step by Step Video Techniques** Instructional Course Lecture, AAOS New Orleans 2014

**Tips and Techniques for UKA. Update on Unicdylar Knee Replacement.** Instructional Course Lecture, AAOS New Orleans 2014

**Direct Anterior Approach: A Better Approach?** 6th annual Winter Hip & Knee Course, Vail, CO, Jan, 2014

**Ceramic on Metal.** 6<sup>th</sup> annual Winter Hip and Knee Course, Vail, CO, Jan 2014.

**Direct Anterior Approach: Summary of a Single Surgeons First 1000 Cases,** 43<sup>rd</sup> annual Orthopaedic and Trauma Seminar, Minneapolis, MN, Nov 2013

**Delta Ceramics in Total Hip Arthroplasty,** 43<sup>rd</sup> annual Orthopaedic and Trauma Seminar, Minneapolis, MN, Nov 2013

**Blood Management in Total Joint Arthroplasty,** AAHKS annual Meeting; Symposium of Perioperative Management, Dallas, TX, Nov 2013

**Femoral Broaching with the Anterior Approach, Staying out of Trouble,** Depuy Anterior approach learning center, Raynham, MA, Oct 2013

**Patient Selection for Direct Anterior Approach,** Depuy Anterior approach learning center, Raynham, MA, Oct 2013

**Cup Positioning and Interpretation of X-ray with the Anterior Approach,** Depuy Anterior approach learning center, Raynham, MA, Oct 2013

**TKA Ligament Balancing.** Depuy Basics in Arthroplasty Course, Chicago, IL, Aug, 2013

**OREF/Current Concepts in Joint Replacement (CCJR) Clinical Practice Award.** Patient Specific Instruments do not Shorten Surgical Time: A Prospective, Randomized trial. May, 2013, Las Vegas, NV

**AAOS/AAHKS Challenges and Controversies:** Management of Hip Instability, Philadelphia, PA, May 2013.

**AAOS/AAHKS Challenges and Controversies:** Measured Resection vs Gap Balancing, Philadelphia, PA, May 2013.

**Anterior Approach: Today's Gold Standard.** Cherry Blossom Seminar, Arlington, VA April 2013

**Rothman-Ranawat Hip Society Traveling Fellowship.** Direct Anterior Approach: First 945 DA Hips: Blood, Cups, and Stems. Alexandria, VA, April, 2013

**Custom Patient Instrumentation.** Engh Society Reunion. St Thomas, USVI, Feb 2013.

**Revision of Primary Hips with Differing Hip Approaches, A Single Surgeons Perspective.** Engh Society Reunion. St Thomas, USVI, Feb 2013.

**Ceramic on Metal.** 5<sup>th</sup> annual Winter Hip and Knee Course, Vail, CO, Jan 2013.

**Don't Forget About the Uni.** 5<sup>th</sup> annual Winter Hip and Knee Course, Vail, CO, Jan 2013.

**Metal hypersensitivity: A Diagnosis Not Worth Chasing.** 5<sup>th</sup> annual Winter Hip and Knee Course, Vail, CO, Jan 2013.

**Managing the Painful Total Hip Arthroplasty. Intrarticular Causes of Hip Pain.** AAOS Revision THA Webinar, Jan 2013

**ETO in Revision THA.** Modern Trends in Joint Replacement, ICJR, Palm Springs, CA, 2012

**Custom Patient Instrumentation in TKA.** Modern Trends in Joint Replacement, ICJR, Palm Springs, CA, Nov, 2012

**Extensively Coated Stems in Primary THA.** Modern Trends in Joint Replacement, ICJR, Palm Springs, CA, Nov, 2012

**Delta on Delta Bearing: Current Data.** Alternative Bearings in THA Seminar, AAHKS meeting, Dallas, TX, Nov, 2012

**The Direct Anterior Approach: Today's Gold Standard?** Georgetown University Grand Rounds, October, 2012

**TKA Ligament Balancing.** Depuy Basics in Arthroplasty Course, Atlanta, GA, Sep, 2012

**Preoperative Preparation: Patient Selection, Templating, and Draping with the Direct Anterior Approach.** Depuy Anterior Approach Learning Center, Atlanta, GA, Sep, 2012

**Broaching with the Corail Stem in the Anterior Approach.** Depuy Anterior Approach Learning Center, Atlanta, GA, Sep 2012

**Acetabular Reaming and Positioning and Interpretation of XRay.** Depuy Anterior Approach Learning Center, Miami, FL, Jun, 2012

**Preoperative Preparation: Patient Selection, Templating, and Draping with the Direct Anterior Approach.** Depuy Anterior Approach Learning Center, Miami, FL, Jun, 2012

**Optimizing Blood Management in Total Joint Arthroplasty.** AORI fellows course, Alexandria, VA, May, 2012

**Direct Anterior Approach, an Introduction.** AORI fellows course, Alexandria, VA, May, 2012

**Optimizing Blood Management in Total Joint Arthroplasty.** Annual INOVA Joint Replacement Seminar, Alexandria, VA, May, 2012

**Short Stems.** 2<sup>nd</sup> Annual Marshall University Arthroplasty Course. Greenbrier, WV, May, 2012

**Ceramic on Ceramic update.** 2<sup>nd</sup> Annual Marshall University Arthroplasty Course, Greenbrier, WV, May, 2012

**MRSA Screening.** 2<sup>nd</sup> Annual Marshall University Arthroplasty Course, Greenbrier, WV, May, 2012

**Fighting Infection in THA: Current AAOS Recommendations and the use of PROSTALAC Spacers.** Masters Hip Revision Course, OLC, Chicago, IL, April, 2012

**Direct Anterior Approach to THA.** Vumedi Webinar, May, 2012

**Fixed Bearing Medial UKA: A Better Option?** Annual Winter Hip & Knee Course, Vail, CO, January, 2012

**Direct Anterior Approach: The New Standard.** Annual Winter Hip & Knee Course, Vail, CO, January, 2012

**Delta Ceramic on Ceramic THA.** Winter Hip & Knee Course, Vail, CO, January, 2012

**Delta Ceramic on Ceramic THA.** Depuy National Sales Meeting, San Antonio, TX, January, 2012

**Optimizing Blood Management following Total Joint Arthroplasty.** Grand Rounds John Hopkins, Baltimore, MD, January, 2012

**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.** Depuy Hip Masters Revision Course, Chicago, IL, September, 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 with the Direct Anterior Approach to the Hip.** Anterior approach learning center, Miami, FL, Jan, 2010

**The Electronic Medical Record.** John Insall Traveling 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, Park City, UT, March, 2007

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

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

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

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

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

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

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

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

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

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

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

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

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

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

**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, Fairfax, VA, April, 2005

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



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

## **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, recertified, 2014

VA MD License: 0101232484

DEA License- current

ACLS/ATLS

BLS

## **EXPERIENCE**

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Operation Walk Virginia-Founding member, Board member

Medical team traveling to underserved countries to perform joint arthroplasties

Managua, Nicaragua- 2007

Managua, Nicaragua-2008

Guayaquil, Ecuador-2010

Antigua, Guatemala-2012

Panama City, Panama-2015

Guest Editor, AAHKS Journal of Arthroplasty Supplement, 2012-2013

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

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

Consultant- Medtronic/Salient Surgical, 2010-2012

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