



Richard L. Ilgen, II, M.D. - Curriculum Vitae

Personal Data

Department of Orthopedics and Rehabilitation
University of Wisconsin – School of Medicine and Public Health (UW-SMPH)
UW Health at The American Center
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Education

1989 – B.S., The University of Notre Dame, Notre Dame IN
1993 – M.D., The University of Chicago, Pritzker School of Medicine, Chicago IL
July 1, 1994 - December 31, 1998 – Orthopaedic Surgery, Harvard Combined Orthopaedic Program, Boston MA
August 1, 1999 - August 1, 2000 – Adult Reconstruction Orthopaedic Surgery, Massachusetts General Hospital, Boston MA

Certification and Licensure

Board certified in Orthopaedic Surgery July 2002
Wisconsin Medical License – 42140-020

Present Appointment/Position

July 2014 - Present	Professor CHS Department of Orthopedics and Rehabilitation UW-SMPH, Madison, WI
January 2005 – Present:	Co-Director Joint Replacement Program Department of Orthopedics and Rehabilitation UW-SMPH, Madison, WI

Past Appointments/Positions

2015-January 2017	Clinical Director of Surgical Services U. W. Health at The American Center Madison, WI
July 2008 – May 2014:	Associate Professor CHS Department of Orthopedics and Rehabilitation UW-SMPH Madison, WI
August 2000 – June 2008:	Assistant Professor CHS Department of Orthopedics and Rehabilitation UW-SMPH Madison, WI

Past Appointments/Positions continued

January 1999 – August 1999: Assistant in Orthopaedic Surgery
Massachusetts General Hospital
Harvard Medical School
Boston, MA

January 1999 – August 1999: Chief of the East Orthopaedic Trauma Service
Massachusetts General Hospital
Boston, MA

Professional Society Memberships

American Orthopedic Association (AOA), Elected 2011
Alpha Epsilon Delta (national pre-medical honor society)
Alpha Omega Alpha (national medical honor society)
American Academy for Orthopaedic Surgery (AAOS) Fellow
American Association of Hip and Knee Surgeons (AAHKS)
Leadership Fellows Program, AAOS
Madison Orthopedic Society
Mid-America Orthopaedic Association
Orthopaedic Research Society (ORS)
Phi Beta Kappa
The University of Notre Dame Orthopaedic Society
American Joint Replacement Registry (AJRR)

Honors and Awards

2013 Wisconsin Orthopedic Society, 1ST place Resident Paper Award, “Clinical Outcomes–Robotic THA” with Rasheed Abiola, MD, October 12, 2013, Milwaukee, WI

2013 Medical Honoree, Arthritis Foundation, 2013 Jingle Bell Run, Madison, WI

2011 UW Health Clinical Practice Excellence Award, University of Wisconsin Hospital and Clinics (UWHC), Madison, WI

2005/2006 American Academy of Orthopedic Surgeons Leadership Fellows Program

2000 Young Investigator, National Institutes of Health/American Academy of Orthopaedic Surgery Consensus Committee on Polyethylene Wear, Oak Brook, IL (October 2000)

1999 Orthopaedic Research Society, New Investigator Research Award Finalist

1998 Partners Award for Excellence, Massachusetts General Hospital and Brigham and Women’s Hospital

1996 The Richard Kilfoyle Award given by the New England Orthopaedic society in recognition of the best resident paper selected for annual meeting presentation.

Honors and Awards continued

- 1993 The Van Prohaska Award for “Outstanding potential in teaching, research, and clinical medicine” (University of Chicago, Pritzker School of Medicine); Graduated with Highest Honors, University of Chicago, Pritzker School of Medicine
- 1992 Selected for Alpha Omega Alpha Honor Society
- 1992 Calvin Fentress Research Fellowship Award - A competitive award that recognized top senior medical students at The University of Chicago for completing outstanding research.
- 1992 Teaching assistant, Clinical Pathophysiology (top 10% of students)
- 1992 Achievement Award for College Scientists (two students selected per year from The University of Chicago, Pritzker School of Medicine)
- 1991/1992 The Kosciuszko Society Scholarship
- 1991/1992 The Polish Women’s Civic Club Scholarship
- 1990 Outstanding Award from The American Medical Association’s (AMA) Health Promotion and Disease Prevention Project
- 1989 Phi Beta Kappa
- 1989 L.H. Baldinger Award of Distinction - The University of Notre Dame, given to the “outstanding pre-professional student demonstrating academic excellence, leadership, exemplary behavior, and professional awareness towards the healing arts”
- 1989 President, Alpha Omega Alpha Honor Society, the national pre-medical honor society
- 1987 Certificate of Commendation - The National Institutes of Health (NIH)
- 1986 Distinguished Summer Student Award - The NIH
- 1985 Honors group, The Westinghouse Science Talent Search
- 1985 Illinois State Medical Society Award for best medically-related project in the state
- 1985 Bauch and Lomb Award for top state Science project
- 1985 Exceptional Illinois Physics Student Award, The National Fermi Laboratory

Grant Support

1. Wallace H Coulter Foundation Grant: “Orthopedic implant surfaces for enhanced healing” Illgen R, Graf B; Co-investigator, 20% effort
Date of Award: 05/01/09-04/30/10 Total Award: \$100,000
2. Wallace H Coulter Foundation Grant: “Biologically Active Sutures for Healing of Avascular Orthopedic Tissues” Illgen R, Graf B; Co-investigator, 20% effort
Date of Award: 05/01/08-04/30/09 Total Award: \$95,000

Grant Support continued

3. Zimmer Research Grant: Primary Total Hip Arthroplasty with an Uncemented Femoral Component: An Intermediate-Term Study of the Fiber Metal Taper Design; PI, 20% effort
Date of Award: 2007 Total Award: \$136,500
4. Wallace H Coulter Foundation Grant: "Biologically Active Coatings on Bioresorbable Orthopedic Implants" Illgen R, Graf B; Co-investigator, 20% effort
Date of Award: 05/01/06-04/30/07 Total Award: \$100,000
5. Zimmer Research Grant: University of Wisconsin (UW) Joint Replacement Registry; PI, 20% effort.
Date of Award: 2004 Total Award: \$140,500
6. Zimmer Research Grant: Biologic Responses to Two Highly Crosslinked Polyethylenes; PI, 30% effort
Date of Award: 2004 Total Award: \$411,500
7. JBJS/OREF Resident Journal Club Grant; PI, 10% effort
Date of Award: 2003 Total Award: \$2,500
8. OREF Research Grant: Conventional vs. Highly Crosslinked Polyethylene Particles – An *In Vivo* Comparison of Biologic Activities; PI, 20% effort
Date of Award: 07/01/2003-06/30/2005 Total Award: \$100,000
9. Zimmer Research Grant: Conventional vs. Highly Crosslinked Polyethylene Particles - An *In Vitro* Comparison of Biologic Activities; PI, 20% effort
Date of Award: 2002 Total Award: \$45,000
10. UW Department of Orthopedics Surgical Associates Grant: Conventional vs. Highly Cross-linked Polyethylene Particles; PI, 20% effort
Date of Award: 2002 Total Award: \$122,500
11. Depuy Orthopedics-Adult Reconstructive Resident Research and Education; PI, 20% effort
Date of Award: 2001 Total Award: \$71,000
12. Zimmer Research and Education "Versys Hip System Device Outcome Study"; PI 20% effort
Date of Award: 2001 Total Award: \$25,000
13. UW Medical School Startup Funds; PI, 20% effort
Date of Award: 2000 Total Award: \$26,000
14. Orthopaedic Research and Education Foundation Resident Award "An *in vitro* analysis of clinically relevant osteoclast inhibitors" Illgen R, Rubash HE, Shanbhag A, Harris WH; PI, 20% effort
Date of Award: 1999 Total Award: \$15,000
15. National Orthopaedic Fellowship Foundation Award "The molecular biology of osteolysis" Illgen R, Rubash HE; PI, 20% effort
Date of Award: 1998 Total Award: \$5,000

Publications

Refereed Articles

1. Sato EH, Whalen CJ, Lawrence D, Anderson P, **Illgen RI**. Metal-on-Metal versus Metal-on-Polyethylene Total Hip Arthroplasty: Long-Term Failure Rates and Asymptomatic Clinical Failures. Submitted, *J Arthroplasty*, 2018.
2. Binkley N, **Illgen R** et al. DXA Evaluation of Femoral Bone Mineral Density and Cortical Width in Patients with Prior Total Knee Arthroplasty. *Osteoporosis International*, OSIN-D-18-00538R1, Epub, August 2018.
3. Kelly M, Nam D, Chen A, **Illgen R**. Trends in the Use of High-Viscosity Cement in Patients Undergoing Primary Total Knee Arthroplasty. *J of Arthroplasty*, JOA-D-18-00780R1, Accepted for publication, July 2017.
4. **Illgen RL**, Bukowski BR, Abiola R, Anderson P, Chughtai M, Khlopas A, Mont MA. Robotic-Assisted Total Hip Arthroplasty: Outcomes at Minimum Two-Year Follow-up. *Surg Technol Int*. 2017 Jul 25;30:365-372.
5. Surgery alters parameters of vitamin D status and other laboratory results. Binkley N, Coursin D, Krueger D, Iglar P, Heiner J, **Illgen R**, Squire M, Lappe J, Watson P, Hogan K. *Osteoporos Int*. 2017 Mar;28(3):1013-1020. doi: 10.1007/s00198-016-3819-9. Epub 2016 Nov 8. PMID: 27826645
6. Bukowski BR, Anderson P, Khlopas A, Chughtai M, Mont MA, **Illgen RL** . Improved Functional Outcomes with Robotic Compared with Manual Total Hip Arthroplasty. *Surgical Technol Int*. 2016 Oct 26;XXIX:303-308.
7. Elson L, Douchis J, **Illgen R**, Marchand RC, Padgett DE, Bragdon CR, Malchau H. Precision of Acetabular Cup Placement in Robotic Integrated Total Hip Arthroplasty. *Hip Int* 2015 Nov-Dec;25(6):531-6. doi: 10.5301/hipint.5000289. Epub 2015 Sep 10
8. Bukowski B, **Illgen R**. Improved Functional Outcomes with Robotic Total Hip Arthroplasty Compared with Manual Total Hip Arthroplasty. *Hip International*; submitted January 2015.
9. Improved Accuracy, Reproducibility and Outcome Comparing Conventional to Robotic Total Hip Arthroplasty Technique, **Illgen R**, Abiola R, *J or Arthroplasty*, submitted 2013.
10. **Illgen R**. What Causes Total Hip Replacements to Fail? *JBJS Orthop Highlights: Hip Surg*, 2013 July 17;3(7):e5.
11. **Illgen R**, Update from Harvard Medical School 42nd Annual Advances in Arthroplasty Course, *JBJS Orthop Highlights: Hip Surg*, 2012 Dec 05;2(12):e3
12. Kruser TJ, Kozak KR, Cannon DM, Platta CS, Squire MW, Heiner JP, **Illgen RL**. Low rates of heterotopic ossification after resurfacing hip arthroplasty with use of prophylactic radiotherapy in select patients. *J Arthroplasty*, 2012 Aug; 27(7):1349-53.
13. Lu Y, Lee J, Nemke B, Graf B, Royalty K, **Illgen R 3rd**, Vanderby R Jr, Markel M, Murphy W. Coating with a modular bone morphogenetic peptide promotes healing of a bone-implant gap in an ovine model. *PLoS One* 2012;7(11):e50378.doi: 10.1371/journal.pone.0050378. Epub 2012 Nov 21.
14. **Illgen R**, Heiner J, Squire M, Conrad D. Large Head Metal-on-Metal Total Hip Arthroplasty Using the Durom Acetabular Component at Minimum 1 Year Interval. *J of Arthroplasty*. 2010;25(6)Supplement 1:26-30.

Publications – Refereed Articles continued

15. MacDonald K, Mueller C, Heiner J, **Illgen R**, Squire M. Intraoperative Radiographic Assessment for Predicting Postoperative THA Cup Position. *J of Arthroplasty*. 2009 Jan;24(1):117-124.
16. **Illgen R**, Bauer L, Hotujec B, Kolpin S, Bakhtiar A, Forsythe T. Highly Crosslinked vs. Conventional Polyethylene Particles: Relative *In Vivo* Inflammatory Response. *J of Arthroplasty*. 2009 Jan;24(1):A5-A8. Epub 2008 Apr 10.
17. **Illgen R**, Forsythe T, Pike J, Laurent M, Blanchard C. Highly Crosslinked vs. Conventional Polyethylene Particles – An *In Vitro* Comparison of Biological Activities. *J of Arthroplasty*. 2008 Aug;23(5):721-731. Epub 2008 Apr 10.
18. **Illgen R**, Pellino T, Gordon D, Butts S, Heiner J. Prospective Analysis of a Novel Long-Acting Oral Opioid Analgesic Regimen For Pain Control After Total Hip and Knee Replacement. *J of Arthroplasty*. 2006 Sep;21(6):814-20
19. Honkamp N, Anderson P, Heiner J, Weisman M, Hagenauer M, Kirkland D, **Illgen R**. The Diagnostic and Predictive Value of Hip Anesthetic Arthrograms in Selected Patients Prior to Total Hip Arthroplasty. *J of Arthroplasty*. 2006;21(5):724-730.
20. **Illgen R**, Tueting J, Enright T, Schreiber K, McBeath A, Heiner J. Hybrid Total Knee Arthroplasty: A Retrospective Analysis of Clinical and Radiographic Outcomes at Average 10 years Follow-up. *J of Arthroplasty* 2004; 19:(7:Suppl 2) 95-100.
21. **Illgen R**, Rubash H. The Optimal Fixation of the Cementless Acetabular Component in Primary Total Hip Arthroplasty. *J Am Acad Orthop Surg*. 2002;10(1):43-56.
22. **Illgen R**, Rodgers W, Hresko M, Waters P, Zurakowski D, Kasser J. Femur Fractures in Children: Treatment with Early Sitting Spica Casting. *J Pediatr Orthop*. 1998;18(4):481-487.
23. **Illgen R**, Shortkroft S., transl. On a Form of Chronic Tenovaginitis, by Fritz de Quervain in La Chaux-de-Fronds (Translation of: deQuervain F. Ueber eine form von chronischer tenovaginitis. Korrespondenzblatt fur Schweizer Arzte. 1895;25. 389-394.). *Am J Orthop*. 1997;26(9):641-644.
24. **Illgen R**, Shortkroft S., transl. On a Form of Chronic Tenovaginitis, by Fritz de Quervain in La Chaux-de-Fronds (Translation of: deQuervain F. Ueber eine form von chronischer tenovaginitis. Korrespondenzblatt fur Schweizer Arzte. 1895;25. 389-394.). *Am J Orthop*. 1997;26(9):641-644.
25. Ho SS, **Illgen R**, Meyer RW, Torok PJ, Cooper MD, Reider B. Comparison of various icing times in decreasing bone metabolism and blood flow in the knee. *Am J Sports Med*. 1995;23(1):74-76.

Non-Refereed Articles

1. **Illgen R**, Squire M. Metal-on-Metal Total Hip Arthroplasty. *Seminars in Arthroplasty*.2002;13(4):331-337.
2. **Illgen R**, Shanbhag A, Jacobs J. Periprosthetic Osteolysis: Pathophysiology and Medical Management. *Seminars in Arthroplasty*. 2002;13(4):238-254.
3. **Illgen R**, Rubash H, Guest Editors. Osteolysis in Revision Joint Arthroplasty. *Seminars in Arthroplasty*.2002;13(4):237-356.
4. Loftin E, **Illgen R**. letter. Screening for Sleep-Disordered Breathing. *Arch Intern Med*. 2001;161(21):2634-2635.
5. **Illgen R**, Rubash H, Shanbhag A, Harris W. The Molecular Biology of Periprosthetic Osteolysis. *Harvard Orthopaedic Journal*. 1999;1:49-51.

Chapters in Books

1. **Illgen R**, Heiner J, Squire M. Hip, Pelvic Reconstruction, and Arthroplasty. In: Fischgrund, Archibeck, Schmidt, eds. *Orthopaedic Knowledge Update 9*. Rosemont, IL: American Academy of Orthopedic Surgeons, Chap 33, pp.411-425. Pub date: 1/15/2008
2. **Illgen R**, Squire M. How Do You Determine Appropriate Femoral Component Rotation at the Time of Surgery. In: Della Valle, ed. *Curbside Consultation Total Knee Arthroplasty: 49 Clinical Questions*. Thorofare, New Jersey: SLACK Inc, pp 59-61; ISBN: 978-1-55642-824-1; 2008
3. **Illgen R**, Heiner JP. Transient Osteoporosis of the Hip. IN: *Orthopaedic Care: Medical and Surgical Management of Musculoskeletal Disorders* [online textbook] 2001. Southern Orthopaedic Association. Available at: <http://www.orthotextbook.net/>.

Abstracts

1. Robotic-assisted Total Hip Arthroplasty Improves Acetabular Component Positioning. Poster. AOA (Australian Orthopaedic Association) 77th Annual Scientific Meeting 2017. Adelaide, Australia. October 8-12, 2017.
2. Manual vs Robotic Assisted Unicompartmental Knee Arthroplasty: A Comparison of Validated Clinical Outcomes at 3 Years. Poster. 77th Annual Scientific Meeting 2017. Adelaide, Australia. October 8-12, 2017.
3. Manual vs Robotic Assisted Unicompartmental Knee Arthroplasty: A Comparison of Validated Clinical Outcomes at 3 Years. Poster. AAOS Annual Meeting, San Diego CA, March 2017.
4. Manual vs Robotic Assisted Unicompartmental Knee Arthroplasty: A Comparison of Validated Clinical Outcomes at 3 Years. Poster. AAHKS 2016 Annual Meeting, Dallas TX, Nov 10-13, 2016.
5. Functional Outcome After Robotic Total Hip Arthroplasty Compared with Manual Technique at Minimum 1 Yr Follow-Up, AAOS; submitted June 2014.
6. Functional Outcome After Robotic Total Hip Arthroplasty Compared with Manual Technique at Minimum 1 Yr Follow-Up, AAHKS; submitted June 2014.

Abstracts continued

7. Robotic Assisted Total Hip Replacement: Improved Radiographic and Clinical Outcomes Compared with Manual Techniques at Minimum One-Year Follow-Up; CAOS Congress, Milan Italy, June 18-21, 2014. JBJS Proceedings 2014 96-B (Supp 16).
8. Multicenter Evaluation of Acetabular Cup Positioning in Robotic-Assisted Total Hip Arthroplasty, Poster #966, ORS 60th Annual Mtg, New Orleans LA, March 15-18, 2014.
9. TKA in Obese Patients, 43rd Annual Advances in Arthroplasty, Boston MA Oct 23, 2013.
10. Improved Accuracy, Reproducibility and Outcome Comparing Conventional to Robotic Technique, 43rd Annual Advances in Arthroplasty, Boston MA October 25, 2013.
11. Moderator, Prevention of Dislocation, 43rd Annual Advances in Arthroplasty, Boston MA, October 25, 2013.
12. Does Hybrid Fixation Have a Role in TKA? 42nd Annual Advances in Arthroplasty, Boston MA. October 5, 2012.
13. Sensor Assisted TKA: Improved Kinematics? 42nd Annual Advances in Arthroplasty, Boston MA, October 4, 2012.
14. Stem Removal, Cemented and Cementless. 42nd Annual Advances in Arthroplasty, Boston MA, October 4, 2012.
15. The Importance of Combined Positions of Acetabular and Femoral Component in Malposition and Dislocation. 42nd Annual Advances in Arthroplasty, Boston MA, October 4, 2012.
16. Register the Socket Position Off the CT and Use the Robot. 42nd Annual Advances in Arthroplasty, Boston, MA October 4, 2012.
17. Managing the Patella in Revision. 41st Annual Advances in Arthroplasty, Boston MA, October 28, 2011.
18. TKA—Does Volume Matter? 41st Annual Advances in Arthroplasty, Boston MA, October 27, 2011.
19. Hybrid TKA: Long-Term Outcomes. 41st Annual Advances in Arthroplasty, Boston MA October 27, 2011.
20. **Illgen R.** Early Failures Using the Biomet M2a-Magnum Large Head Metal-on-Metal Acetabular Component. AAHKS 10th Annual Meeting, Dallas TX. November 5-7, 2010.
21. Total Knee Arthroplasty - Cement vs Cementless: What is the Evidence? 40th Annual Advances in Arthroplasty, Harvard Medical School, Boston MA, September 30, 2010.
22. **Illgen RI,** Squire MW, Heiner JP, Conrad D. Large Head Metal-on-Metal Total Hip Arthroplasty Using the Durom Acetabular Component at Minimum 1 Year Interval. AAHKS 19th Annual Meeting, Dallas TX. November 6-8, 2009. (Paper #3).

Abstracts continued

23. MacDonald K, Mueller C, Heiner J, **Illgen R**, Squire M. Intraoperative Radiographic Assessment for Predicting Postoperative THA Cup Position. Mid-America Orthopaedic Association Annual Meeting. Champions Gate FL. April 16-20, 2008. (Poster 16).
24. **Illgen RL**, Schreiber JJ, Forsythe TM, Bauer LM, Hagenauer ME, Squire MW. Profiling Serum Markers of Periprosthetic Osteolysis Following Total Knee or Hip Arthroplasty. 54th Annual Meeting of the ORS, San Francisco CA. March 2-5, 2008 (Poster 1945).
25. **Illgen RL**, Heiner JP, Halanski MA, Dohmeier KM, Forsythe TM, Stephani JA. The Effect of Body Mass Index on Wear Rates in Highly Crosslinked and Conventional Polyethylene in Total Hip Arthroplasty. ORS 54th Annual Meeting, San Francisco CA. March 2-5, 2008 (Poster 392).
26. **Illgen RL**, Pellino TA, Gordon DB, Butts SL, Heiner JP. Perioperative Multimodal Oral Analgesia Following Total Knee And Hip Arthroplasty 26th Scientific Meeting of the American Pain Society, Washington DC. May 3-5, 2007 (Poster 780).
27. **Illgen R**, Hotujec B, Bauer L, Forsythe T. Effect of Endotoxin on the Relative Bioreactivity of Conventional and Highly Crosslinked Polyethylenes ORS 53rd Annual Meeting, San Diego CA, February 11-14, 2007 (Poster 1792).
28. **Illgen R.**, Pellino T., Gordon D., Butts S., Heiner J. Pain Management Following Total Hip or Total Knee Replacement. AAOS 73rd Annual Meeting, Chicago IL, March 22-26, 2006 (Poster 131).
29. Forsythe T, Bauer L, Kolpin S, Hagenauer M, **Illgen R**. *In Vivo* Response to Debris from Crosslinked and Conventional Polyethylenes. ORS 52nd Annual Meeting, Chicago IL, March 19-22, 2006 (Poster 0632).
30. Honkamp N, Anderson P, Heiner J, Weisman M, Hagenauer M, Davis K, **Illgen R**. The Diagnostic and Predictive Value of Hip Anesthetic Arthrograms in Selected Patients Prior to Total Hip Arthroplasty. 23rd Mid-America Orthopaedic Association, Amelia Island Plantation FL, April 20-24, 2005, (poster 8).
31. **Illgen R**, Bauer L, Seybold J, Boeckmann S, Forsythe T. Bulk Generation of Submicron UHMWPE Wear Debris. ORS 51st Annual Meeting, Washington DC, February 20-23, 2005 (Poster 1629).
32. **Illgen R**, Bauer L, Forsythe T, Hagenauer M, Franta A, Enright T, Valhmu W, Heiner J. "Serum Markers of Bone Remodeling Following Total Knee or Hip Arthroplasty" 26th Annual Meeting of the American Society for Bone and Mineral Research, Seattle WA, October 1-5th, 2004 (Poster M139)
33. Pellino T, Gordon D, **Illgen R**, Heiner, J, Butts S. "Pain Management Following Total Hip or Total Knee Replacement" National Association of Orthopaedic Nurses Annual Congress, Nashville TN, May 16-19, 2004.
34. **Illgen R**, Tueting J, Hagenauer ME, Enright T, McBeath A, Heiner J. Hybrid Total Knee Arthroplasty: A Retrospective Analysis of Clinical and Radiographic Outcomes at Average 10 Years Follow-up. 22nd Mid-America Orthopaedic Association, La Quinta CA, April 14-18, 2004.

Abstracts continued

35. Matthias R, **Illgen R**, Hagenauer M, Peyerl J, McBeath A, Heiner J. Minimum 16 Year Follow-Up of a Proximally Porous-Coated Titanium Femoral Stem. 22nd Mid-America Orthopaedic Association, La Quinta CA, April 14-18, 2004.
36. **Illgen R**, Tueting J, Hagenauer M, Enright T, McBeath A, Heiner J. Hybrid TKA: Retrospective Analysis of Clinical and Radiographic Outcomes at Average 10-year Follow-up. 71st AAOS, San Francisco CA, March 10-14, 2004, p. 255. (Poster 106).
37. Squire M, **Illgen R**, Flannum M, Heiner J. 6 Year Clinical and Radiographic Review of Cementless Proximally Coated Femoral Revisions. 71st AAOS, San Francisco CA, March 10-14, 2004, p.402 on CD-ROM. (Poster 049).
38. **Illgen R**, Laurent M, Watanuki M, Hagenauer M, Bhambri S, Pike J, Blanchard C, Forsythe T. Highly Crosslinked vs. Conventional Polyethylene Particles-an *In Vitro* Comparison Of Biologic Activities. 29th Annual Meeting of the Society For Biomaterials, Reno NV, April 30-May 3, 2003 (Talk #312).
39. Song G, Heiner J, **Illgen R**, Valhmu W. Effects of IL-6 on Cartilage Matrix Gene Expression in Osteoarthritis. 49th Annual Meeting of the ORS, New Orleans LA, February 1-6, 2003 (Poster 0734).
40. **Illgen R**, Laurent M, Watanuki M, Hagenauer M, Bhambri S, Pike J, Blanchard C, Forsythe T. Highly Crosslinked vs. Conventional Polyethylene Particles-an *In Vitro* Comparison Of Biologic Activities. ORS 49th Annual Meeting, New Orleans LA, February 1-6, 2003 (Poster)
41. **Illgen R**, Fadel A, Squire M, Shaw N, Valhmu W, Heiner J. A novel method of identifying osteolysis using serum markers of bone resorption and formation. *Transactions in the Ortho Research Society*, ORS 48th Annual Meeting, Dallas TX, February 10-13, 2002.
42. **Illgen R**, Shanbhag A, Deshmukh A et al. *In vitro* analysis of novel, clinically relevant osteoclast inhibitors, ORS 47th Annual Meeting, San Francisco CA, February, 2001.
43. **Illgen R**. The molecular biology of fracture healing: the roles of the macrophage, osteopontin, and vascular endothelial growth factor, New Investigator Research Award Finalist, ORS, Anaheim CA, March, 1999.
44. **Illgen R**, Rodgers W, Hresko T, Waters P, Zurakowski D, Kasser J. Femur fractures in children: treatment with early sitting spica casting, AOS Resident Conference, New York NY, March, 1997.
45. **Illgen R**, Rodgers W, Hresko T, Waters P, Zurakowski D, Kasser J. Femur fractures in children: treatment with early sitting spica casting, AAOS Annual Meeting, San Francisco CA, February, 1997.
46. **Illgen R**, Rodgers W, Hresko T, Waters P, Zurakowski D, Kasser J. Femur fractures in children: treatment with early sitting spica casting, The New England Orthopaedic Society, Boston MA, November 1996.
47. Pellino T, **Illgen R**, Heiner J, Butts S. Perioperative Multimodal Oral Analgesia Following a Total Hip and Total Knee Arthroplasty. 2007 UW Nursing Research Fair, Madison WI, April 25, 2007.

Invited Research Presentations - Local

1. Stryker Robotic Patient/Public Presentation, UW Health-The American Center, December 12, 2016.
2. Stryker Robotic Patient/Public Presentation, UW Health-The American Center, December 8, 2016.
3. "Hip & Knee Joint Replacement Surgery: Indications, Techniques and Post-Precautions" WI PT Association, Waukesha WI, October 20, 2016.
4. DDH of the Adult Hip. Grand Rounds, UW-SMPH Orthopedics & Rehabilitation, Madison WI, August 10, 2016.
5. Orthopedic Care & Services, GHC Medical Staff Meeting, Madison, WI, July 8, 2016
6. MakoPlasty THA and UKA, GHC (Group Health Cooperative) Tech Assessment Committee, Madison WI, March 26, 2015.
7. UWHC Experience with MOM Hip Resurfacing. ASEAN Fellows Educational Program, University of Wisconsin, Department of Orthopedics, Madison WI, June 10, 2014.
8. Robotic THA. OR Staff Presentation, UWHC, Madison WI, October 2, 2013.
9. Grand Rounds, UW-SMPH Orthopedics & Rehabilitation, Madison WI, August 21, 2013.
10. New Technology in Hip & Knee Replacement. UW Department of Orthopedics Fall Visiting Professor Lectureship, Madison WI, October 12, 2012.
11. Sensor-Guided Knee Surgery. UW-SMPH Orthopedics & Rehabilitation Grand Rounds. Madison WI, September 5, 2012.
12. Robotic Assisted Orthopedic Surgery: A New Frontier in Joint Replacement. UW CEO Conference, Madison WI, November 17, 2011.
13. Standing Strong: Back & Bone Care. UW-SMPH Mini-Med School Program, Madison WI, September 14, 2011.
14. Large Head Metal-on-Metal THA: Early Failures and Lessons Learned. UW-SMPH Orthopedics & Rehabilitation Grand Rounds, Madison WI, September 7, 2011.
15. Cemented vs Cementless TKA: An Evidence Based Analysis. UW-SMPH Orthopedics & Rehabilitation Grand Rounds, Madison WI, September 22, 2010.
16. UW Hospital Operating Room Clinicians Presentation. Navigation & Robotics: MakoPlasty RTO Unicompartmental Knee Replacement, Madison WI, June 2010.
17. Navigation & Robotics: MakoPlasty RIO Unicompartmental Knee Replacement. UW Sports Medicine Presentation, Madison WI, April 2010.
18. Madison Technical Assessment Meeting: Navigation & Robotics: MakoPlasty RIO Unicompartmental Knee Replacement. Madison WI, March 2010.
19. Navigation & Robotics: MakoPlasty RTO Unicompartmental Knee Replacement. UW-SMPH Orthopedics & Rehabilitation Grand Rounds, Madison WI, February 2010.
20. THA & Dislocation. UW Department of Orthopedics. Madison WI, October 22, 2008.

Invited Research Presentations – Local continued

21. Polyethylene Wear in Obese Patients. UW-SMPH Orthopedics & Rehabilitation Traveling Fellows Program. Madison WI, March 17, 2008
22. Alternative Bearings in THA: New Developments and Future Directions. UW-SMPH Orthopedics & Rehabilitation Grand Rounds, Madison WI, March 12, 2008.
23. Hip Resurfacing. Wisconsin Physician's Service (WPS) Insurance Company Continuing Nursing Educational Program, Madison WI, January 16, 2008.
24. Highly Crosslinked vs. Conventional Polyethylene Particles: Relative Inflammatory Response *In Vitro* and *In Vivo*. UW 2007 Summer Visiting Professor, Madison WI, August 29, 2007.
25. Surface Replacement Arthroplasty vs. Total Hip Arthroplasty. UW-SMPH Primary Care Conference, Madison WI, February 21, 2007.
26. Longevity Highly Crosslinked vs. Conventional Polyethylene: *In Vivo* Comparison of Relative Inflammatory Potentials. UW Summer Visiting Professor Lectureship, Madison WI, August 2, 2006
27. Evaluation and Treatment of Instability After TKA. UW Summer Visiting Professor Lectureship, Madison WI, August 2, 2006
28. Surface Replacement Arthroplasty. UW-SMPH Orthopedics & Rehabilitation Grand Rounds, Madison WI, June 7, 2006.
29. Zimmer Conventional vs. Highly Crosslinked Polyethylene Particles: An *in vitro* comparison of relative inflammatory potential. UW Summer Visiting Professor, Madison WI, August 16-17, 2005.
30. Minimally Invasive Total Knee Arthroplasty. UW-SMPH Orthopedics & Rehabilitation Grand Rounds, Madison WI, March 2005.
31. Treatment of unicompartmental osteoarthritis of the knee in young patients. UW 27th Annual Sports Medicine Symposium, Madison WI, May 20-22, 2004.
32. UW-SMPH 15th Annual Sports Medicine Symposium. The Physical examination of the hip and pelvis. Madison WI, May 9-11, 2002.
33. New Developments in the Evaluation and Medical Management of Periprosthetic Osteolysis. UW-SMPH Orthopedics & Rehabilitation Grand Rounds, Madison WI, February 2002.
34. Alternative bearing surfaces in TKA. UW-SMPH Orthopedics & Rehabilitation Grand Rounds, Madison WI, February 2002.
35. UW Alternative Bearing materials in THA. Madison WI, May 2001.
36. Navigation & Robotics: MakoPlasty RIO Unicompartmental Knee Replacement. Ortho Rehab Group, Portage WI, September 2010.
37. Failed Metal-on-Metal Total Hip Arthroplasty: Lesson Learned. WOS Meeting, Lake Geneva WI, October 13, 2011.

Invited Research Presentations – Local continued

38. Robotic Assisted Orthopedic Surgery: A New Frontier in Joint Replacement. Wisconsin Physical Therapy Assn Fall Conference, September 13, 2011, Wisconsin Dells WI.
39. Alternative Bearing Surfaces. Kohler WI, July 2, 2002.

Invited Research Presentations - National/International

1. Robotic-assisted Total Hip Arthroplasty Improves Acetabular Component Positioning. Poster. AOA (Australian Orthopaedic Association) 77th Annual Scientific Meeting 2017. Adelaide, Australia. October 8-12, 2017.
2. Manual vs Robotic Assisted Unicompartamental Knee Arthroplasty: A Comparison of Validated Clinical Outcomes at 3 Years. Poster. 77th Annual Scientific Meeting 2017. Adelaide, Australia. October 8-12, 2017
3. Robotic Assisted Total Hip Arthroplasty: Improved Accuracy and Outcome Notre Dame Orthopedic Society Meeting, University of Notre Dame, South Bend IN, September 4, 2015.
4. Polyethylene Wear and Osteolysis: What is the Role for Line rExchange and Bone Grafting in 2015? ICJR (International Congress for Joint Reconstruction) 3rd Annual Revision Hip & Knee Course, Philadelphia PA, May 1, 2015.
5. Management of Peri-Prosthetic Dislocation After THA. ICJR 3rd Annual Revision Hip & Knee Course, Philadelphia PA, May 1, 2015.
6. Robotic Assisted Total Hip Arthroplasty: Improved Accuracy and Outcome. MOAOS (Michigan Osteopathic Academy of Orthopedic Surgeons); Detroit MI, January 22, 2015.
7. Decision Making After ALTR, Moderator. 44th Annual Advances in Arthroplasty, Boston MA, October 8, 2014.
8. Management of THA Failure After Edge Loading. 44th Annual Advances in Arthroplasty, Boston MA, October 8, 2014
9. Outcomes After Primary THA: Manual Compared with Robotic Assisted Techniques. 44th Annual Advances in Arthroplasty, Boston MA, October 8, 2014.
10. 10-Year Outcomes with Hybrid TKA. 44th Annual Advances in Arthroplasty, Boston MA, October 8, 2014
11. “How to Reduce Clinical Outliers and Predict Outcomes Pre-operatively”, Stryker Makoplasty Bioskills Program, Las Vegas NV, July 18-19, 2014.
12. Makoplasty – Robotic TKA and THA. Notre Dame Ortho Symposium, Notre Dame IN. September 5, 2014.
13. MakoSurgical/Stryker – “Improved Accuracy and Outcome with Robotic THA” Lansing MI, May 30, 2014.
14. TKA in Obese Patients. 43rd Annual Advances in Arthroplasty, Boston MA, October 23, 2013.

15. Improved Accuracy, Reproducibility and Outcome Comparing Conventional to Robotic Total Hip Arthroplasty Technique. 43rd Annual Advances in Arthroplasty, Boston MA October 25, 2013.
16. Prevention of Dislocation, Moderator. 43rd Annual Advances in Arthroplasty, Boston MA, October 25, 2013.
17. Precision of Acetabular Cup Placement in Robotic Integrated Total Hip Arthroplasty. **Illgen R**, Conditt M; International Society for Technology in Arthroplasty (ISTA) 26th Annual Congress, Palm Beach FL, October 2013.
18. Mako THA hip demos (3) at AAOS Academy, Chicago IL, March 20-22, 2013.
19. Orthosensor demo at AAOS Academy, Chicago IL, March 22, 2013
20. Does Hybrid Fixation Have a Role in TKA? 42nd Annual Advances in Arthroplasty, Boston MA, October 5, 2012.
21. Sensor Assisted TKA: Improved Kinematics? 42nd Annual Advances in Arthroplasty, Boston MA, October 4, 2012.
22. Stem Removal, Cemented and Cementless. 42nd Annual Advances in Arthroplasty, Boston MA, October 4, 2012.
23. Importance of Combined Positions of Acetabular and Femoral Component in Malposition and Dislocation. 42nd Annual Advances in Arthroplasty, Boston MA, October 4, 2012.
24. Register the Socket Position Off the CT and Use the Robot. 42nd Annual Advances in Arthroplasty, Boston MA, October 4, 2012.
25. Managing the Patella in Revision. 41st Annual Advances in Arthroplasty, Boston MA, October 28, 2011.
26. TKA – Does Volume Matter. 41st Annual Advances in Arthroplasty, Boston MA October 27, 2011.
27. Hybrid TKA: Long-Term Outcomes. 41st Annual Advances in Arthroplasty, Boston MA October 27, 2011.
28. Early Failures using the Biomet M2A Magnum Large Head MOM Acetabular Component. AAHKS 20th Annual Meeting, Dallas, TX, November 2010.
29. Total Knee Arthroplasty – Cement vs Cementless: What is the Evidence? 40th Annual Advances in Arthroplasty, Harvard Medical School, Boston MA, September 30, 2010.
30. MakoPlasty RTO Unicompartmental Knee Replacement. Ortho Rehab Specialists, Rockford IL, April 2010.
31. Large Head Metal-on-Metal Total Hip Arthroplasty Using the Durom Acetabular Component at Minimum 1 Year Interval. AAHKS 19th Annual Meeting, Dallas TX. November 6-8, 2009.
32. A Review of MIS Approaches in TKA. Learning Center at Rush Presbyterian St. Luke's Medical Center: Total Hip and Knee Forum, Chicago IL, October 15, 2007.

Invited Research Presentations – National/International continued

33. Managing Instability after TKA. Learning Center at Rush Presbyterian St. Luke's Medical Center: Total Hip and Knee Forum, Chicago IL, October 15, 2007.
34. Preventing Leg Length Inequality in THA. Learning Center at Rush Presbyterian St. Luke's Medical Center: Total Hip and Knee Forum, Chicago IL, October 16, 2007.
35. Use of Large Heads in Surface Replacement Arthroplasties. Learning Center at Rush Presbyterian St. Luke's Medical Center: Total Hip and Knee Forum, Chicago IL, October 16, 2007.
36. Alternative Bearing Surfaces in THA. Learning Center at Rush Presbyterian St. Luke's Medical Center: Total Hip and Knee Forum, Chicago IL, October 16, 2007.
37. Use of Serum Markers of Bone Turnover as an Early Indicator of Osteolysis after TKA and THA. 37th Annual Advances in Arthroplasty, Boston MA, September 26, 2007.
38. Limb Length Inequality after THA: How to Avoid It. 37th Annual Advances in Arthroplasty, Boston MA September 26, 2007.
39. Large Head Metal on Metal Total Hip Arthroplasty. Duluth MN. March 22, 2007.
40. Large Head Metal on Metal Total Hip Arthroplasty Tribology and Patient Selection Criteria. University of Chicago Grand Rounds, Chicago IL, December 6, 2006.
41. Optimal Pain Control After TKA: IV PCA. 36th Annual Advances in Arthroplasty, Boston MA, October 5-6, 2006.
42. Minimally Invasive Total Knee Arthroplasty. Loyola University Grand Rounds, December 15, 2005.
43. Minimally Invasive Total Knee Arthroplasty. Nassau Surgery Clinic Day, Long Island NY, December 5, 2005.
44. Annual Orthopedic and Trauma Seminar. The Large Head: When and Where in THA. Minneapolis MN, November 19, 2005.
45. Leg Length Discrepancy and THA – Tips on How to Avoid This Problem. 35th Annual Advances in Arthroplasty, Boston MA, September 28 – October 1, 2005.
46. Howard University Grand Rounds. Minimally Invasive Total Knee Arthroplasty. Washington DC, April 2005.
47. Hybrid TKA at Average 10 Years”, 34th Annual Advances in Arthroplasty, Boston MA, September 29-October 2, 2004.
48. Limb Length Inequality: How to Avoid. 34th Annual Advances in Arthroplasty, Boston MA, September 29-October 2, 2004.
49. Zimmer Resident Program. Hip Course Director for Total Joint Replacement. Chicago IL, August 12-15, 2004.
50. Hybrid TKA: The UW experience at 10 years 33rd Annual Advances in Arthroplasty, Boston MA, September 16-21, 2003.

Invited Research Presentations – National/International continued

51. Instability after TKA evaluation and management. 33rd Annual Advances in Arthroplasty, Boston MA, September, 16-21, 2003.
52. Zimmer Resident Program. Femoral stem choices in revision THA. Chicago IL, August 9-10, 2003.
53. Zimmer Resident Program. THA in young patients: The role of alternative bearings materials. Chicago IL, August 9-10, 2003.
54. Highly crosslinked versus conventional polyethylene particles-in vitro comparison of biologic activities. ORS 49th Annual Meeting, February 5-9, 2003.
55. Zimmer Resident Course. Femoral Stem Choices in Revision Total Hip Arthroplasty. Chicago IL April 27-28, 2002.
56. Zimmer Resident Program. Posterior Substituting Knee Replacements and new Developments in High Flexion. Chicago IL, April 27-28, 2002.
57. Zimmer Resident Program. Technique of Hybrid THA. Chicago IL, April 27-28, 2002.
58. A Novel Method of Identifying Osteolysis Utilizing Serum Markers of Bone Resorption and Bone Formation. ORS 48th Annual Meeting, February 10-13, 2002.
59. State University of New York. *In Vitro* Analysis of Novel Osteoclast Inhibitors. Stonybrook NY, October 2000.
60. Osteoporosis and Problems in the Older Adult. Medical Management of Periprosthetic Osteolysis. AAOS Symposium, Costa Mesa CA, September 2000.
61. The Harvard Medical School Office of Continuing Education Course for Primary Care Physicians. Common Hip Problems in the Adult Patient. Boston MA, September, 2000.
62. **Illgen R**, Harris W, Shanbhag A, Rubash H. *In vitro* assessment of clinically relevant osteoclast inhibitors. Fall Harvard Hip course, Boston MA, September, 2000.
63. **Illgen R**, Harris W, Shanbhag A, Rubash H. *In vitro* assessment of clinically relevant osteoclast inhibitors. National Orthopaedic Surgery Fellows Foundation Meeting, Amelia Island FL, November, 1999.
64. **Illgen R**. The molecular biology of fracture healing: the roles of the macrophage, osteopontin, and vascular endothelial growth factor, Resident Thesis, Harvard Combined Orthopaedic Program, Boston MA, May, 1999.
65. **Illgen R**. Ashkar S, Kasser J. Novel Murine Model for the Study of the Molecular Basis for Fracture Healing. Children's Hospital, Boston MA, 1998.
66. **Illgen R**. Ashkar S, Kasser J. Role of Macrophages in Tibial Fracture Healing. Children's Hospital, Boston MA, 1998.
67. **Illgen R**. Ashkar S, Kasser J. Role of Vascular Endothelial Growth Factor in the Regulation of Angiogenesis During Fracture Healing. Children's Hospital, Boston MA, 1997.

Invited Research Presentations – National/International continued

68. Ho S, **Illgen R**, Meyer R, Torok P, Cooper M, Reider B. Comparison of various icing times in decreasing bone metabolism and blood flow in the knee, The University of Chicago Senior Scientific Session, Chicago, IL, June 1993.
69. Ho S, **Illgen R**, Meyer R, Torok P, Cooper M, Reider B. Comparison of various icing times in decreasing bone metabolism and blood flow in the knee, The ORS Meeting, San Francisco, CA, February 1993.
70. Development and Quantitative Assessment of Educational Strategies to Reduce the Spread of AIDS in the Bronx, AMA Health Promotion and Disease Prevention Project Meeting, New York NY, 1990.
71. The Role of Ganglioside GD3 in the Regulation of Cell Growth. Senior Scientific Seminar, University of Notre Dame, Notre Dame IN, 1989.
72. *In Vitro* Analysis of Antigen-Antibody Interactions. University of Pennsylvania Summer Research Seminar, Philadelphia PA, 1988.
73. **Illgen R**, Gibbs CJ, Gadjusek C. A Trial of a Post-exposure Vaccine for AIDS Using a Chimpanzee Model, NIH National Institute of Communicative Disorders and Stroke, Summer Research Symposium, Bethesda MD, 1987.
74. **Illgen R**, Brady R, Spiegel S. The Role of Ganglioside GM1 in the Regulation of Cell Growth, NIH National Institute of Communicative Disorders and Stroke, Summer Research Symposium, Bethesda MD, 1986.

Educational Activities & Presentations

Classroom Teaching (average class sizes varies year to year, most recently ~171 students)

1. UW-SMPH, Ortho Skills Lab, September 29, 2017.
2. UW-SMPH, Year 2 MSK Course, “Adult Hip”, April 16, 2015
3. UW-SMPH, Year 2 MSK Course, “Adult Hip” April 2014
4. UW-SMPH, PDS 4 – Fall Course; January – August-December 2013
5. UW-SMPH, Year 2 MSK Course, “Adult Hip” April 2012
6. UW-SMPH, PDS 4 – Spring Course; January – May, 2011
7. UW-SMPH, Year 2 MSK Course, “The Hip: Hip Pain, Fractures, DJD and Treatment” April 2011.
8. UW-SMPH, Year 2 MSK Course, “The Hip: Hip Pain, Fractures, DJD and Treatment” April 2011.
9. UW-SMPH, Year 2 MSK Course: “Hip & Basic Science of DJD” May 2010.
10. UW-SMPH, Spring Course: “Low Back and Hip” May 2010.

Clinic Teaching (In addition to daily interaction with UW-SMPH Medical Students and Orthopedic Residents in the clinical and surgical setting)

1. Stryker-Mako Surgical Corporation, BioSkills Lab Programs (Robotic-Assisted THA/TKA)

2018: January 13 – San Diego CA; January 26-27 Mahwah NJ; February 9-10 Fort Lauderdale FL; March 7 – Dallas TX; March 23 Fort Lauderdale FL; April 6-7 Mahwah NJ; April 27-28 Las Vegas NV; May 4 Fort Lauderdale FL; May 5 Nashville TN; May 18 Fort Lauderdale FL; June 15-16 Las Vegas NV; July 20-21 Mahwah NJ; August 16-17 Osaka Japan; October 19-20 Las Vegas NV; December 7-8 Ft Lauderdale FL

2017: January 12-13 – Mahwah NJ; March 15 San Diego CA; May 5 – Las Vegas NV; June 15-16 Nashville TN; July 20-22 Chicago IL; August 11 Mishawaka IN; September 8-9: South Bend IN; September 21-23 Ft Lauderdale FL; Oct 10-11 Adelaide Australia; Oct 20-21 – Tampa FL; Nov 4 Dallas TX; Nov 10-11 Mahwah NJ; Dec 1-2 Tampa FL

2016: February 18-19 – Ft Lauderdale FL; March 17-19 – Orlando FL; March 31-April 2 - Denver CO; April 21-23 - Mahwah NJ; April 28-30 - Seattle WA; May 12 – Waterloo IA; June 17-18 - Las Vegas NV; June 24-26 - Sydney Australia; July 8-9 - Mahwah NJ; July 29-30 - Mahwah NJ; September 30-October 1 - Tampa FL; October 7, 2016 - Tampa FL; November 15-19, 2016 – Johannesburg South Africa; December 2-3, 2016 - Mahwah NJ; December 16, 2016 – Mahwah NJ

2015: January 8-9 – Spokane WA; January 29-30 – Las Vegas NV; February 7 – Mahwah NJ; March 12-13 – Orlando FL

2014: January 9-11 – Tampa FL; January 25 – Brookfield, WI; February 7-8 – Dallas TX; February 22 – Poughkeepsie NY; March 28 – Coral Springs FL; April 5-6 – Boston MA; May 10 – Pittsburgh PA; July 18-19 – Las Vegas NV; July 31 – Brookfield WI; October 4 – Little Rock AR; October 16-18 – Tampa FL; November 13-15 – Las Vegas NV; December 4-6 – Mahwah NJ

2013: April 5-6, 2013 – Lancaster PA; September 6-7, 2013 – Burr Ridge IL; October 4-5, 2013 – Henderson NV; October 26 – Temple University Lab, Philadelphia PA

2. Zimmer Residency Education, May 27-28, 2010 (Chicago IL), September 1-2, 2011 (Chicago IL), March 5-9, 2012 (Chicago IL), April 8-12, 2013 (Chicago IL)

CME Presentations

Departmental

1. Directed the UW Summer Visiting Professor, Dr. Joshua Jacobs. August 28, 2007.
2. Directed the UW Summer Visiting Professor. Dr. Pascal Vendittoli. August 1-2, 2006.
3. Directed the UW Summer Visiting Professor, Dr. Fred Tria. August 16-17, 2005.
4. Directed the UW Summer Visiting Professor, Dr. Richard Berger. July 24-26, 2004.

National/International

1. Learning Center at Rush Presbyterian St. Luke's Medical Center: Total Hip and Knee Forum, Chicago IL, October 16, 2007.
2. Directed the 2007 Zimmer Residency Course. Hip Arthroplasty. Chicago IL, August 10-12, 2007.
3. Zimmer Hip Arthroplasty Meeting. Vail CO. January 24-27, 2007.

CME National/International continued

4. Directed the 2006 Zimmer Residency Course. Hip Arthroplasty. Chicago IL, August 10-13, 2006.
5. Directed the 2005 Zimmer Residency Course. Chicago IL. August 26-28, 2006.
6. Directed the 2004 Zimmer Residency Course. Chicago IL. August 2004
7. Zimmer Hip and Knee Institute Forum at Rush, May 3-4, 2004. Chicago IL.
8. OREF-NIH, Grant Writing Workshop. April 3-4, 2004. Tampa FL.
9. THA in Young Patients: The role of alternative bearings materials, Zimmer Resident Program. Chicago IL, August 2003.
10. High Flexion TKA, Zimmer Resident Program, Chicago, August 2003.
11. Femoral Stem Choices in Revision THA, Zimmer Resident Program, Chicago, August 2003.
12. Femoral Stem Choices in Revision THA, Zimmer Resident Program, Chicago, August 2003.
13. Achieving optimal knee flexion after TKA, Zimmer Resident Program. Chicago, August 2002.
14. Femoral stem choices in revision THA, Zimmer Resident Program. Chicago, August 2002.
15. Hybrid THA with 3rd generation cement technique, Zimmer Resident Program. Chicago, August 2002.
16. Minimally Invasive THA, Rush Presbyterian St. Luke's Medical Center. Chicago, April 2002.
17. Unicompartamental knee replacement: The Preservation Uni Course. Chicago, April 2002.

Mentoring/Student Involvement

2018	Jesse Wang – Shapiro Medical Research Student
2017	Eleanor Sato – Shapiro Medical Research Student
2016	Dylan Lawrence – Shapiro Medical Research Project
2014-Present	Shapiro Medical Research Project (submitted): Eamon D. Bernardoni “Long-Term Clinical Outcomes of Manual Versus Robotic-Assisted Unicompartamental Knee Arthroplasties”
2014-2017	Shapiro Medical Research Project: Brandon Bukowski - “Functional Results After Robotic THA Compared with Manual THA at Minimum 1- Year Follow-Up”
2012-Present	Resident Research Project: Sylvester Youlo and Rasheed Abiola– Project: “Accuracy of Component Positioning in Primary THA - Standard Instrumentation vs Robotic Assisted THA
2012-2014	Resident Research: Rasheed Abiola - “Clinical Outcomes: Robotic THA”
2007-2008	Research Mentoring Med 2s – Joe Schreiber and Jennifer Stephanie
2007	Research Mentoring-Keeley Dohmeier and Nell Bartzen, Undergrad
2006-2008	Research Mentoring – Gabriel Haywood, Undergrad
2006-2007	Research Mentoring-Hillary Friedman and Brian Beardslly
2004-2007	Research Mentoring-Lindsay Nagel

Mentoring/Student Involvement Continued

2006	Shapiro Medical Research Award-Bryan Hotujec, Med 2
2006	Research Mentoring-Ashley Berman
2005-2006	Research Mentoring-Aleem Bakhtiar
2004-2005	Research Mentoring-Neha Segal, Marty Weismman and Jodi Wernikoff
2005	Shapiro Medical Research Award-Sarah Kolpin, Med 2
2004	Shapiro Medical Research Award-Jeff Seybold, Med 2
2003	Research Mentoring-Pete Stanich and Kevin McDonald
2002-2003	Research Mentoring-Jessica Peyerl
2002	Shapiro Medical Research Award-Tim Enright, Med 2
2002	Research Mentoring-Carina Morena and Tiffany Wright RAP Program
2001	Research Mentoring-Nathan Shaw-NASA Program, and Ashraf Fadel-Serum markers study

Educational Development

1. Patient Education and Instruction Video for Hip and Knee Replacement
2. EdHeads Educational Website. www.edheads.org Total Hip Arthroplasty.
3. EdHeads Educational Website. www.edheads.org Surface Replacement Arthroplasty.
4. On-Line: Robotic assisted THA, March 2013

Service Activities

Departmental

Orthopedic Quality Improvement, UWHC, Madison WI
Orthopedic Department Outcome Database Initiative, UWHC, Madison WI
Education, Department of Orthopedics & Rehabilitation, UWHC, Madison WI
Orthopedics and Rehabilitation Internal Review Committee, UW-SMPH, Madison WI

UWSMPH/Hospital

Resident Research, University of Wisconsin, Madison WI
Surgeons Advisory, UWHC, Madison WI
Technology Assessment and Management Program, UWHC, Madison WI
Interdisciplinary Model of Care (IMOC, UWHC)
DVT Prophylaxis, UWHC, Madison WI
Surgery Search (Chairman), UW, Madison WI
UW Health American Center Planning Committees (Ambulatory, Diagnostics)
Inpatient Department LEAN 3P Team, 2011-present, including 1-wk 3P session in 2012
Fitness/Wellness/Emergency Services, 2011-present
Hospital Hotel Affiliation Committee 2012-present
UWHC TKA bundled payment pilot project 2012-present
Chief of Anesthesia (UW Health American Center) Search Committee, 2013-present
Team Leader - Orthopedic and Rehabilitation Inpatient Clinical Dyad, 2013-present
Physician Leadership Council - UW Health American Center, 2013-present
Patient and Family Experience Council - UW Health American Center, 2013-present
Quality Distinction and Clinical Model of Care Council – UW Health American Center, 2014-present
OR Utilization Committee, Chair, UW Health American Center, 2016-present

Community

Medical Honoree, Arthritis Foundation – Jingle Bell Run, December 2013

National/International

Evidence-Based Medicine Committee, AAOS, 2008-2010

Orthopedic Research Foundation (FUND) Committee, November 2011-Present

Patient Education Committee, AAHKS, 2012-Present

Patient Education Committee, AAOS, 2012-Present

Stryker Total Hip Arthroplasty Surgeon Advisory Board, 2015-present

Other Activities

Research Appointments

2017- AJRR – Chairman, Research Projects Subcommittee

2014- AJRR Data Committee (AAHKS Representative) and Board member for research development

2000- UW-SMPH Arthritis and Total Joint Arthroplasty Laboratory; Director

1999 Orthopaedic Biomechanics Laboratory; Director: William H. Harris, M.D.

1996-1997 Enders Research Laboratory, Harvard Medical School; Director: Melvin Glimcher, M.D.

1995-1996 Children's Hospital, Boston, MA; Director: James R. Kasser, M.D.

1991-1993 University of Chicago, Pritzker School of Medicine; Director: Bruce Reider, M.D.

1988-1989 University of Notre Dame, Department of Biochemistry; Director: Subhash Basu, Ph.D.

1987 University of Pennsylvania, Department of Chemical Engineering; Director: Douglas Lauffenberger, Ph.D.

1985 National Institutes of Health, National Institute of Communicative Disorders and Stroke, Summer Research Program; Director: Carleton Gadjusek, M.D., Nobel Laureate

1985-1986 National Institutes of Health, National Institute of Communicative Disorders and Stroke, Summer Research Program; Director: Roscoe Brady, M.D.

Implant Development

1. Zimmer - Acetabular component. Metasul Monoblock Construct (MMC) – FDA approved 12/01/2009.
2. MakoSurgical robotic-assisted TKA - cruciate retaining (CR), posterior stabilizing, (PS), Bi-cruciate retaining (BCR).