

OrthoCarolina
HIP & KNEE CENTER


Atrium Health
Musculoskeletal Institute



NAME Bryan D. Springer, MD

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Hip and Knee Center
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EDUCATION

1995	Lynchburg College Lynchburg, VA BS/Biology
1999	Marshall University School of Medicine Huntington, WV MD

POSTDOCTORAL TRAINING

2004	Residency/Orthopaedic Surgery Mayo Clinic Department of Orthopaedic Surgery Rochester, MN
2005	Fellowship/Adult Reconstruction Harvard School of Medicine/Brigham and Women's Hospital Boston, MA
2022	Harvard Surgeon Leadership Program

PROFESSIONAL LICENSURE

2005-present	North Carolina Medical License, #200500261
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SPECIALTY CERTIFICATION

2005	American Board of Orthopaedic Surgeons, Certified
2027	American Board of Orthopaedic Surgeons, Recertification in Progress

EMPLOYMENT

Academic Appointments

2015-Present	Clinical Associate Professor Department of Orthopaedic Surgery Marshall University Joan C. Edwards School of Medicine Huntington, WV
2017-2020	Associate Professor Department of Orthopaedic Surgery Atrium Musculoskeletal Institute Charlotte, NC
2020-Present	Professor Department of Orthopaedic Surgery Atrium Musculoskeletal Institute Charlotte, NC

Professional Experience

2005-Present	Attending Joint Replacement Surgeon OrthoCarolina Hip and Knee Center Charlotte, NC
2011-Present	Fellowship Director Adult Reconstruction OrthoCarolina Hip and Knee Center Charlotte, NC

ADMINISTRATIVE SERVICE

2010-2014	Award Committee Chair-American Association of Hip and Knee Surgeons
2010-2012	Course Co-Chairmen- OrthoLive Meeting, San Diego, CA
2010-2019	Leadership Board-Arthritis Foundation North Carolina
2010-Present	Abstract Review Committee- American Association of Hip and Knee Surgeons
2011-2020	Program Committee-American Association of Hip and Knee Surgeons
2012-2012	ICJR Course Chairman-ICJR and Orthopaedics Today

2013-2013 Program Chair-Annual Meeting of American Association of Hip and Knee Surgeons

2013-2013 Leadership Team- North Carolina Orthopaedic Association

2013-2019 Chair of Education Council-American Association of Hip and Knee Surgeons

2014-Present Board of Directors-International Congress on Joint Replacement

2015-2016 President- Musculoskeletal Infection Society

2015-Present Co-Founder and Medical Director-Operation Walk Carolinas

2015-Present Journal Reviewer-Journal of Arthroplasty

2016-2020 Chair Data Committee-American Joint Replacement Registry

2017-2019 Course Chair-American Association Hip and Knee Surgeons Spring Meeting

2018-Present Editorial Board- *Arthroplasty Today*

2018-Present Course Co-Chairman- ICJR Vail, Winter Meeting

2019-2019 Course Co-Chair ICJR Residents and Fellows Course- Advanced Techniques in Total Hip and Knee Arthroplasty, New York, NY

2019-2020 Program Chair / Education Chair- The Knee Society

2019-2020 Board of Directors/Education Chair-The Knee Society

2019-2021 Preoperative Committee Chair- Atrium Musculoskeletal Institute Co-Management

2019-Present Associate Editor-*Arthroplasty Today*

2019-Present Arthritis Foundation National Advocacy Committee

2019-Present Atrium Musculoskeletal Institute Co-Management-Joint Operating Board Member

2020-Present Chair-Steering Committee American Joint Replacement Registry

2020-Present Board Member-Registry Oversight Committee AAOS

2020-Present Value Committee Member-Atrium Musculoskeletal Institute Co-Management

2021-Present Quality Committee Chair-Atrium Musculoskeletal Institute Co- Management

2020-2021 Associate Editor-*Journal of Bone and Joint Infection*

2021-Present Co-Editor in Chief-*Journal of Bone and Joint Infection*

2021-2022 Vice President-American Association of Hip and Knee Surgeons

2021-Present Medical Executive Board Research Committee-Surgical Care Affiliates

2022-Present President-American Association of Hip and Knee Surgeons

EXTRAMURAL APPOINTMENTS AND SERVICE

2005-Present Atrium Medical Center-Mercy
2019-Present Charlotte Surgery Center-Wendover Campus
2005-Present Novant-Charlotte Orthopedic Hospital

EDITORIAL BOARDS

2019-Present Arthroplasty Today
2021-Present Journal on Bone and Joint Infection

JOURNAL REVIEWER

2015-Present Journal of Arthroplasty
2018-Present Bone and Joint Journal
2018-Present Journal of American Association of Orthopaedic Surgeons
2018-Present Arthroplasty Today
2020-Present Journal of Bone and Joint Infection

ADVISORY BOARDS:

Sonoran Bioscience 2012- Present
Osteal Therapeutics 2015- Present
Allay Therapeutics 2020-Present
MiCare Path 2020-Present

PROFESSIONAL MEMBERSHIPS AND SERVICE

1998-Present Alpha Omega Alpha Honors Medical Society
Member
2005-Present American Association of Hip and Knee Surgeons
Member, Vice President, President
2005-Present American Academy of Orthopaedic Surgeons
Fellow
2010-Present International Congress for Joint Reconstruction
Board of Directors, Treasurer
2010-Present Arthritis Foundation
National Advisory Committee
2012-2018 North Carolina Orthopaedic Association
Member

2012-2018	Southern Orthopaedic Association Member
2012-Present	The Knee Society Member
2014-Present	The Hip Society Member, Chair of Membership Committee

HONORS AND AWARDS

2003	Instructor, Smith, and Nephew Surgical Exposures in Trauma
2003	Edward Henderson Award for Excellence in Medical Research Writing, Mid-America Orthopaedic Association
2003	AOA-OREF Resident Leadership Forum, 116 th Annual Meeting of American Orthopaedic Association
2004	Resident/Fellow Travel Grand Award, Mid-America Orthopaedic Association
2004	Emerging Leadership Program, American Orthopaedic Association
2004	H.A. Peterson Scholarly Writing Award, Mayo Clinic
2004	Leonard Marmor Surgical Arthritis Foundation Award
2008	AAHKS James Rand Young Investigators Award
2008	Fellow, The Knee Society John Insall Travelling Fellowship
2009	Co-Author, John Insall Award Knee Society 2010
2009	Co-Author, Chitranjan Ranawat Award Knee Society 2010
2012	Member, The Knee Society
2013	Generation Next, Leader in Total Joint Replacement
2014	Member, The Hip Society
2014	Emerging Leader American Association of Hip and Knee Surgeons
2014	Top 22 North American Knee Surgeons
2018	Top Doctor by Charlotte Magazine
2019	Top Doctor by Charlotte Magazine
2020	65 Total Knee Replacement Surgeons to Know in the US
2021	Top Doctor by Charlotte Magazine

INVITED EXTRAMURAL PRESENTATIONS

Visiting Professor/Grand Rounds

University of California San Francisco Department of Orthopaedics
January 2022

The Herb Pasternak Memorial Lecture/Visiting Professor
UConn Health Nov 2021

Visiting Professor/Grand Rounds
University of Missouri Department of Orthopaedic Surgery
Columbia, MO May 2021

Visiting Professor/Grand Rounds
Columbia University Department of Orthopaedic Surgery
New York, NY

M.B. Lee Visiting Professor in Orthopaedic Surgery
University of Hong Kong Department of Orthopaedic Surgery

Guest Professor
New England Orthopaedic Society

Visiting Professor Grand Rounds
Brown University Department of Orthopaedic Surgery

Visiting Guest Lecturer
Michigan Orthopaedic Society Annual Meeting

Visiting Professor Grand Rounds
University of Florida Dept. of Orthopaedic Surgery

Visiting Professor Grand Rounds
University of Virginia Dept. of Orthopaedic Surgery

Heritage Lecture Visiting Professor
Visiting Professor Grand Rounds
Georgetown University Dept. of Orthopaedic Surgery

James F. Wenz Visiting Professor.
John Hopkins School of Medicine

GRANT FUNDING

Currently Active Grants

Grant number: 5R01AR073147-02

Bryan **Springer**, MD

P.I. Bryan **Springer**, MD

Dates:3/1/2018-2-28-20232

Title: Enhanced Arthroplasty Research through Electronic Health Records and NLP-Enabled Informatics (HK170)

\$82,052/year

The purpose is to develop a reliable, high performance, user-centric informatics tool for TJA data Abstraction from the HER, and a new prosthetic joint infection risk score. This will in turn enhance TJA data collection capabilities and enable affordable large-scale studies through secondary use of real word TJA data.

Grant number:5R01DE027917-03

Bryan **Springer**, MD

P.I. Bryan **Springer**, MD

Dates:9/5/2018-8/31-2021

Title: Do Invasive Dental Procedures Cause Prosthetic Joint Infections (PJI)? - The PJI Study (HK238) \$6073/year

Past grants

Bryan **Springer**, MD

P.I. Bryan **Springer**, MD

Title: AI-Enabled Multimodal Phenotypic Characterization of TJA Patients – THIS ONE DID NOT MOVE FORWARD.

Aim 1: Develop NLP tools to characterize TJA patients and surgical features from HER.

Aim 2: Evaluate TJA radiographs using DL image processing and computer vision applications.

Aim 3: Phenotypically characterize TJA patients using multimodal clinical, surgical, and imaging data for risk-stratification, prognostication, and longitudinal surveillance.

Grant number: 5R01AR073147-02

Bryan **Springer**, MD

P.I. Bryan **Springer**, MD

Title: Creation of Patient-Specific Periprosthetic Fracture Risk Calculator for Total Hip Arthroplasty (9192)- THIS FALLS UNDER THE SAME GREANT AS HK170.

To create a model to determine risk of periprosthetic fracture following primary and revision THA based off demographics, comorbidities, and femoral fixation. To create a deep learning algorithm to assess risk of periprosthetic fracture following primary and revision THA based off a preoperative radiograph. To create a fusion algorithm risk calculator and surgeon decision aid to determine risk of periprosthetic fracture following primary and revision THA based off demographics, comorbidities, and a preoperative radiograph and how this risk is modified in a patient-specific manner when using cemented vs uncemented femoral fixation.

PATENTS

CUTTING TOOL POSITIONED BY FLEXIBLE ROD FOR REVISION SURGERY April 2019 US Patent 11,123,085

BIBLIOGRAPHY

Peer-Reviewed Publications

1. Ahn NU, Ahn UM, Nallamshetty L, **Springer, BD**, Buchowski JM, Funches L, et al. Cauda equina syndrome in ankylosing spondylitis (the CES-AS syndrome): meta-analysis of outcomes after medical and surgical treatments. *Clinical Spine Surgery*. 2001;14(5):427–33.
2. **Springer, BD**, Hanssen AD, Sim FH, Lewallen DG. The kinematic rotating hinge prosthesis for complex knee arthroplasty. *Clinical Orthopaedics and Related Research*®. 2001;392:283–91.

3. **Springer BD**, Berry DJ, Lewallen DG. Treatment of periprosthetic femoral fractures following total hip arthroplasty with femoral component revision. *JBJS*. 2003;85(11):2156–62.
4. **Springer BD**, Hanssen AD, Lewallen DG. Cementation of an acetabular liner into a well-fixed acetabular shell during revision total hip arthroplasty. *The Journal of arthroplasty*. 2003;18:126–30.
5. **Springer BD**, Lee G-C, Osmon D, Haidukewych GJ, Hanssen AD, Jacofsky DJ. SECTION I-SYMPOSIUM-Clinical Studies-Systemic Safety of High-Dose Antibiotic-Loaded Cement Spacers after Resection of an Infected Total Knee Arthroplasty. *Clinical Orthopaedics and Related Research*. 2004;(427):47–51.
6. **Springer BD**, Lee G-C, Osmon D, Haidukewych GJ, Hanssen AD, Jacofsky DJ. Systemic safety of high-dose antibiotic-loaded cement spacers after resection of an infected total knee arthroplasty. *Clinical Orthopaedics and Related Research*®. 2004;427:47–51.
7. **Springer BD**, Sim FH, Hanssen AD, Lewallen DG. The modular segmental kinematic rotating hinge for nonneoplastic limb salvage. *Clinical Orthopaedics and Related Research*®. 2004;421:181–7.
8. Farrell CM, **Springer, BD**, Haidukewych GJ, Morrey BF. Motor nerve palsy following primary total hip arthroplasty. *JBJS*. 2005;87(12):2619–25.
9. Haidukewych GJ, **Springer BD**, Jacofsky DJ, Berry DJ. Total knee arthroplasty for salvage of failed internal fixation or nonunion of the distal femur. *The Journal of arthroplasty*. 2005;20(3):344–9
10. **Springer BD**, Berry DJ, Cabanela ME, Hanssen AD, Lewallen DG. Early postoperative transverse pelvic fracture: a new complication related to revision arthroplasty with an uncemented cup. *JBJS*. 2005;87(12):2626–31.
11. Parvizi J, Wade FA, Rapuri V, **Springer BD**, Berry DJ, Hozack WJ. Revision hip arthroplasty for late instability secondary to polyethylene wear. *Clinical Orthopaedics and Related Research*®. 2006;447:66–9.
12. Parvizi J, Wade FA, Rapuri V, **Springer BD**, Berry DJ, Hozack WJ. SECTION I-SYMPOSIUM-Total Hip Arthroplasty Dislocation: Prevention and Management-Revision Hip Arthroplasty for Late Instability Secondary to Polyethylene Wear. *Clinical Orthopaedics and Related Research*. 2006;(447):66–9.
13. Sah AP, **Springer BD**, Scott RD. Unicompartamental knee arthroplasty in octogenarians: survival longer than the patient. *Clinical Orthopaedics and Related Research*®. 2006;451:107–12.
14. **Springer BD**, Scott RD, Sah AP, Carrington R. McKeever hemiarthroplasty of the knee in patients less than sixty years old. *JBJS*. 2006;88(2):366–71.
15. **Springer BD**, Scott RD, Thornhill TS. Conversion of failed unicompartamental knee arthroplasty to TKA. *Clinical Orthopaedics and Related Research*®. 2006;446:214–20.
16. Freeman MS, Fehring TK, Griffin WL, Mason JB, **Springer BD**, Odum SM. Functional Improvement of Articulating Spacers Versus Static Spacers in Infected Total Knee Arthroplasty. *The Journal of Arthroplasty*. 2007;22(2):310.
17. Griffin WL, Dalury D, Mahoney O, Scott R, **Springer B**, Chiavetta J, et al. Modular Polyethylene Exchange for Wear and Osteolysis in Press-Fit Condylar Total Knees. *The Journal of Arthroplasty*. 2007;22(2):310.
18. **Springer BD**, Della Valle CJ. Extensor mechanism allograft reconstruction after total knee arthroplasty. *The Journal of arthroplasty*. 2008;23(7):35–8.

19. **Springer BD**, Griffin WL, Fehring TK, Suarez J, Odum SM, Thompson CP. Incomplete Seating of Press-Fit Porous-Coated Acetabular Components—The Fate of Zone 2 Radiolucencies. *The Journal of Arthroplasty*. 2008;23(2):326.
20. **Springer BD**, Griffin WL, Fehring TK, Suarez J, Odum S, Thompson C. Incomplete seating of press-fit porous-coated acetabular components: the fate of zone 2 lucencies. *The Journal of Arthroplasty*. 2008;23(6):121–6.
21. Suarez J, Griffin W, **Springer B**, Fehring T, Mason JB, Odum S. Why do revision knee arthroplasties fail? *The Journal of arthroplasty*. 2008;23(6):99–103.
22. Suarez J, Griffin W, **Springer B**, Fehring T, Mason JB, Odum S. Why Do Revision Total Knee Arthroplasties Fail? *The Journal of Arthroplasty*. 2008;23(2):317.
23. Azzam K, Parvizi J, Jungkind D, Hanssen A, Fehring T, **Springer B**, et al. Microbiological, clinical, and surgical features of fungal prosthetic joint infections: a multi-institutional experience. *JBJS*. 2009;91(Supplement_6):142–9.24.
24. Fehring TK, Odum SM, Hughes J, **Springer BD**, Beaver Jr WB. Differences between the sexes in the anatomy of the anterior condyle of the knee. *JBJS*. 2009;91(10):2335–41.
25. Masonis J, **Springer BD**, Odum S, Fehring T. Incidence of Noise in Two Modern Alumina-alumina Total Hip Designs. *The Journal of Arthroplasty*. 2009;24(2):e73.
26. Sah AP, Scott RD, **Springer BD**, Bono JV, Deshmukh RV, Thornhill TS. Custom-made angled inserts for tibial coronal malalignment in total knee arthroplasty. *The Journal of Arthroplasty*. 2009;24(2):288–96.
27. **Springer BD**, Connelly SE, Odum S, Fehring TK, Griffin WL, Mason JB, et al. Success of Modern Cementless Femoral Components in Young Patients: A Systematic Review and Meta-analysis of Total Hip Arthroplasty and Hip Resurfacing. Do the Results Justify Hip Resurfacing? *The Journal of Arthroplasty*. 2009;24(2):e18.
28. **Springer BD**, Connelly SE, Odum SM, Fehring TK, Griffin WL, Mason JB, et al. Cementless femoral components in young patients: review and meta-analysis of total hip arthroplasty and hip resurfacing. *The Journal of arthroplasty*. 2009;24(6):2–8.
29. **Springer BD**, Fehring TK, Griffin WL, Odum SM, Masonis JL. Why revision total hip arthroplasty fails. *Clinical Orthopaedics and related research*. 2009;467(1):166–73
30. Fehring TK, Odum SM, Fehring K, **Springer BD**, Griffin WL, Dennis AC. Mortality following revision joint arthroplasty: is age a factor? *Orthopedics*. 2010;33(10).
31. Fehring TK, Odum SM, Masonis JL, **Springer BD**. Early failures in unicondylar arthroplasty. *Orthopedics*. 2010;33(1).
32. Griffin WL, Nanson CJ, **Springer BD**, Davies MA, Fehring TK. Reduced articular surface of one-piece cups: a cause of runaway wear and early failure. *Clinical Orthopaedics and Related Research®*. 2010;468(9):2328–32.
33. Sherrell JC, Fehring TK, **Springer BD**, Bozic KJ, Hansen EN, Della Valle CJ, et al. The fate of two-stage reimplantation in patients treated with previous irrigation and debridement. *The Journal of Arthroplasty*. 2010;25(3):e36.
34. Dennis D, Kim R, Johnson D, **Springer B**, Fehring T, Rullkoetter P, et al. CONTROL-MATCHED EVALUATION OF PATELLAR CREPITUS IN TOTAL KNEE ARTHROPLASTY: A686. *The Journal of Bone and Joint Surgery-British Volume*. 2011; 93:413–4.

35. Dennis DA, Kim RH, Johnson DR, **Springer BD**, Fehring TK, Sharma A. The John Insall Award: control-matched evaluation of painful patellar Crepitus after total knee arthroplasty. *Clinical Orthopaedics and Related Research*®. 2011;469(1):10–7.
36. Hicks-Little CA, Peindl RD, Hubbard TJ, Scannell BP, **Springer BD**, Odum SM, et al. Lower extremity joint kinematics during stair climbing in knee osteoarthritis. *Medicine & Science in Sports & Exercise*. 2011;43(3):516–24.
37. Hicks-Little CA, Peindl RD, Hubbard TJ, Scannell BP, **Springer BD**, Fehring TK, et al. Temporal-Spatial Gait Adaptations During Stair Ascent and Descent in Patients with Knee Osteoarthritis. *The Journal of Arthroplasty*. 2011. p. 95–95.
38. Kim RH, **Springer BD**, Douglas D, Flynn F. Knee reconstruction and replacement. Orthopaedic Knowledge Update Rosemont, IL: American Academy of Orthopaedic Surgeons. 2011;469–75.
39. Parvizi J, Zmistowski B, Berbari EF, Bauer TW, **Springer BD**, Della Valle CJ, et al. New definition for periprosthetic joint infection: from the Workgroup of the Musculoskeletal Infection Society. *Clinical Orthopaedics and Related Research*®. 2011;469(11):2992.
40. Fehring TK, Fehring K, **Springer BD**, Masonis JL, Dennon AC. Comparative analysis of periarticular osteolysis in modern total hip bearings: a minimum 5-year study. *Orthopedic Clinics*. 2012;43(5):e14–6.
41. Lanting BA, **Springer BD**. Catastrophic wear in total hip arthroplasty. Complete wear-through of a metal-backed acetabular component: case report. *Orthopedic Clinics*. 2012;43(5):e63–5.
42. Lee GC, Kim RH, **Springer BD**, Lustig S. Management of an Infected THA. *Orthopedics*. 2012;35(4):316–9.
43. **Springer, BD**, Habet NA, Griffin WL, Nanson CJ, Davies MA. Deformation of 1-piece metal acetabular components. *The Journal of Arthroplasty*. 2012;27(1):48–54.
44. **Springer BD**, Mason B. Management of infection after total knee arthroplasty. *Current Orthopaedic Practice*. 2012;23(6):549–53.
45. **Springer BD**, Odum SM, Nagpal VS, Lombardi Jr AV, Berend KR, Kim RH, et al. Is socioeconomic status a risk factor for stiffness after total knee arthroplasty? A multicenter case-control study. *The Orthopedic Clinics of North America*. 2012;43(5):e1-7.
46. Barrack RL, Berend KR, Cui Q, Fehring TK, Della Valle CJ, Gehrke T, **Springer Bryan**, et al. Cement spacers in periprosthetic joint infection. *Clinical infectious diseases*. 2013;57(2):328–9.
47. Odum SM, **Springer BD**, Dennon AC, Fehring TK. National obesity trends in total knee arthroplasty. *The Journal of arthroplasty*. 2013;28(8):148–51.
48. Sheth NP, Nelson CL, **Springer BD**, Fehring TK, Paprosky WG. Acetabular bone loss in revision total hip arthroplasty: evaluation and management. *JAAOS-Journal of the American Academy of Orthopaedic Surgeons*. 2013;21(3):128–39.
49. **Springer B**, Parvizi J, Austin M, Backe H, Della Valle C, Kolessar D, et al. Workgroup of the American Association of Hip and Knee Surgeons Evidence Based Committee. Obesity and total joint arthroplasty: a literature-based review. *J Arthroplasty*. 2013;28(5):714–21.
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51. **Springer, BD**, Workgroup A. Obesity and total joint arthroplasty. *JOURNAL OF ARTHROPLASTY*. 2013;28(5):714–21.

52. Citak M, Argenson J-N, Masri B, Kendoff D, **Springer B**, Alt V, et al. Spacers. *The Journal of arthroplasty*. 2014;29(2):93–9.
53. Odum SM, **Springer BD**. In-hospital complication rates and associated factors after simultaneous bilateral versus unilateral total knee arthroplasty. *JBJS*. 2014;96(13):1058–65.
54. **Springer BD**. Transition from nerve blocks to periarticular injections and emerging techniques in total joint arthroplasty. *American journal of orthopedics (Belle Mead, NJ)*. 2014;43(10 Suppl):S6-9.
55. Taunton MJ, Mason JB, Odum SM, **Springer BD**. Direct anterior total hip arthroplasty yields more rapid voluntary cessation of all walking aids: a prospective, randomized clinical trial. *The Journal of arthroplasty*. 2014;29(9):169–72.
56. Baratz MD, Hallmark R, Odum SM, **Springer BD**. Twenty percent of patients may remain colonized with methicillin-resistant *Staphylococcus aureus* despite a decolonization protocol in patients undergoing elective total joint arthroplasty. *Clinical Orthopaedics and Related Research®*. 2015;473(7):2283–90.
57. Bates MD, **Springer BD**. Extensor mechanism disruption after total knee arthroplasty. *JAAOS-Journal of the American Academy of Orthopaedic Surgeons*. 2015;23(2):95–106.
58. Citak M, Masri BA, **Springer B**, Argenson J-N, Kendoff DO. Are preformed articulating spacers superior to surgeon-made articulating spacers in the treatment of PJI in THA? A literature review. *The Open Orthopaedics journal*. 2015;9:255.
59. Dietz MJ, **Springer BD**, Barnes PD, Falciglia MM, Friedrich AD, Berendt AR, et al. Best practices for centers of excellence in addressing periprosthetic joint infection. *JAAOS-Journal of the American Academy of Orthopaedic Surgeons*. 2015;23(suppl):S12–7.
60. Joshi GP, Cushner FD, Barrington JW, Lombardi Jr AV, Long WJ, **Springer BD**, et al. Techniques for periarticular infiltration with liposomal bupivacaine for the management of pain after hip and knee arthroplasty: a consensus recommendation. *Journal of surgical Orthopaedic advances*. 2015;24(1):27–35.
61. McNabb DC, Kim RH, **Springer BD**. Instability after total knee arthroplasty. *The Journal of Knee Surgery*. 2015;28(02):097–104.
62. Mudrick CA, Melvin JS, **Springer BD**. Late posterior hip instability after lumbar spinopelvic fusion. *Arthroplasty today*. 2015;1(2):25–9.
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64. Sarmiento A, Elmallah R, **Springer B**, Mont M. Authors' Responses. *American journal of orthopedics (Belle Mead, NJ)*. 2015;44(6):250.
65. Shirwaiker RA, **Springer BD**, Spangehl MJ, Garrigues GE, Lowenberg DW, Garras DN, et al. A clinical perspective on musculoskeletal infection treatment strategies and challenges. *JAAOS-Journal of the American Academy of Orthopaedic Surgeons*. 2015;23(suppl):S44–54.
66. **Springer B**. EXPOSURE OPTIONS FOR THE REVISION KNEE: GETTING THERE SAFELY. *In The British Editorial Society of Bone & Joint Surgery*; 2015. p. 47–47.
67. **Springer B**. MEASURED RESECTION TRUMPS GAP BALANCING IN TKA–OPPOSES. *In The British Editorial Society of Bone & Joint Surgery*; 2015. p. 26–26.
68. **Springer BD**. CORR Insights®: The alpha-defensin test for periprosthetic joint infection responds to a wide spectrum of organisms. *Clinical Orthopaedics and Related Research®*. 2015;473(7):2236–7.

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70. **Springer BD**, Beaver WB, Griffin WL, Mason JB, Odum SM. Role of surgical dressings in total joint arthroplasty: a randomized controlled trial. *Am J Orthop*. 2015;44(9):415–20.
71. Stryker LS, Odum SM, Fehring TK, **Springer BD**. Revisions of Monoblock metal-on-metal THAs have high early complication rates. *Clinical Orthopaedics and Related Research*®. 2015;473(2):469–74.
72. Tan T, **Springer B**, Parvizi J, Chen A. ADMINISTRATION OF VANCOMYCIN TO PATIENTS WITH A REPORTED PENICILLIN ALLERGY RESULTS IN A HIGHER RATE OF RESISTANT ORGANISM INFECTIONS. In *The British Editorial Society of Bone & Joint Surgery*; 2015. p. 59–59.
73. Wooten C, **Springer BD**. Revision Total Knee Arthroplasty: Management of Deficient Extensor Mechanism. In: *Complex Primary and Revision Total Knee Arthroplasty*. **Springer**, Cham; 2015. p. 113–27.
74. Dietz MJ, **Springer BD**, Barnes P, Falciglia MM, Friedrich AD, Berendt AR, et al. Erratum: Best Practices for Centers of Excellence in Addressing Periprosthetic Joint Infection (Journal of the American Academy of Orthopaedic Surgeons (2016) 24: 1 (1-10)). *Journal of the American Academy of Orthopaedic Surgeons*. 2016;24(4):276.
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79. **Springer BD**. Modifying risk factors for total joint arthroplasty: strategies that work nicotine. *The Journal of Arthroplasty*. 2016;31(8):1628–30.
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84. Cahue S, Etkin C, **Springer B**, McGrory B. Infection burden in total hip and knee arthroplasty: An international registry based perspective. In *American Public Health Association*; 2017.
86. Etkin CD, **Springer BD**. The American joint replacement registry—the first 5 years. *Arthroplasty today*. 2017;3(2):67.

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88. Flierl MA, Culp BM, Okroj KT, **Springer BD**, Levine BR, Della Valle CJ. Poor outcomes of irrigation and debridement in acute periprosthetic joint infection with antibiotic-impregnated calcium sulfate beads. *The Journal of arthroplasty*. 2017;32(8):2505–7.
89. Goodman SM, Miller AS, Turgunbaev M, Guyatt G, Yates A, **Springer B**, et al. Clinical practice guidelines: incorporating input from a patient panel. *Arthritis Care & Research*. 2017;69(8):1125–30.
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Springer, BD, Kim R, Dennis DA. Management of Infection in Total Hip Arthroplasty. *Fundamentals of Revision Hip Arthroplasty: Diagnosis, Evaluation and Treatment* Editors: David Jacofsky, MD, Anthony Hedley, MD Publisher: Slack Incorporated 2012

Springer, BD. Revision for Infection: Irrigation and Debridement. Knee Reconstruction, Replacement, and Revision. Editors: Dr. Javad Parvizi Data Trace Publishing Company 2012

Springer B, Griffin W. Femoral Revision: Uncemented Extensively Porous Coated Implants. Surgery of the Hip. Editors: Daniel J. Berry and Jay R. Lieberman. Elsevier 2013

Springer B. Posterior Approaches to the Hip. Surgery of the Hip. Editors: Daniel J. Berry and Jay R. Lieberman. Elsevier. 2013

Lanting, B. **Springer, BD.** Use of cemented stems in revision TKA. Total knee revision: Surgical techniques. Editor: Roberto Rossi, MD. Edizioni Minerva Medica. 2013

Complex Primary Total Hip Arthroplasty. In: Adult Reconstruction The Essentials. Editor: Javad Parvizi and Brian Klatt Slack Incorporated. 2013

Springer, BD. Ruptures of the Patella Tendon. Techniques in Revision Hip and Knee Arthroplasty, edited by Dr. Giles R. Scuderi with Drs. AJ Tria, Michael Kang, and William Long Elsevier 2012

Vegari, D. **Springer, BD.** Irrigation and Debridement for treatment of infected total joint arthroplasty. Periprosthetic Joint Infections. Editors: Bryan D. **Springer** and Javad Parvizi. Publisher: **Springer** 2013

Springer, BD. Scuderi, G. Evaluation and Management of the Infected Total Knee Arthroplasty. Instructional Course Lecture 62. American Academy of Orthopaedic Surgeons. Rosemont, IL.

Salava, J. **Springer, BD.** Orthopaedic Infections. Orthopaedic Knowledge Update 11. American Academy of Orthopaedic Surgeons. Rosemont, IL

Stryker, L. **Springer, BD.** Jumbo cups for Acetabular revision. The Hip. Data Trace publishing. 2013

Springer BD. Acute and Chronic Patellar Tendon Ruptures After Total Knee Arthroplasty. Techniques in Revision Hip and Knee Arthroplasty E-Book: Expert Consult. 2014;204.

Vegari DN, **Springer BD.** Prosthetic Retention: Treatment Options. In: Periprosthetic Joint Infection of the Hip and Knee. **Springer**, New York, NY; 2014. p. 149–58.

Drew, J, **Springer, BD**. Management of the Infected TKA. The Monograph Series. American Academy of Orthopaedic Surgeons 2015.

Wooten, C. **Springer, BD**. Extensor Mechanism Reconstruction in TKA. Clinical Casebook. Complex Primary and Revision Total Knee Arthroplasty. **Springer** Publishing 2015

Carter, J. **Springer, BD**. THA and the Deformed Femur. Complex Total Hip Arthroplasty. Advanced Hip Reconstruction. Hip 2. American Academy of Orthopaedic Surgeons 2017

Ting, N., **Springer, MD**. Cemented TKA: The Gold Standard The Knee. Insall Scott Kelly 2017

Vestermark, G and **Springer, BD**. Femoral Revision: Uncemented Extensively Porous-Coated Implants. Surgery of the Hip. 2nd Edition.

Berry, J and **Springer, BD**. Posterior Approach to the Hip. Surgery of the Hip. 2nd Edition. 2018

Alamanda, V and **Springer, BD**. Perioperative Risk Factors and Modifiable Risk Factors for PJI and Recommended Guidelines. Current Reviews in Musculoskeletal Medicine 2018

Barry, J and **Springer, BD**. Management of the Stiff TKA. Masters Techniques in Orthopaedic Surgery. 2018

Russell, R and **Springer, BD**, The Gap Balanced Total Knee Arthroplasty, Seminars in Arthroplasty.

Barry, J and **Springer BD**, Revision TKA for Stiffness Master Techniques in Orthopaedic Surgery.

Buck, Stewart and **Springer BD**, Managing Instability in Revision THA, Instructional Course Lecture, AAOS.

Alamanda, V and **Springer, BD** "Preoperative and Perioperative Medical Management" The Adult Knee 2ed
Rice Olivia, **Springer, BD**, Karunaker, M Acute Distal Femoral Replacement for Fractures About the Knee in the Elderly. Orthopaedic Clinics. January 2020

Ransone, M and **Springer, BD**, Primary Total Knee Arthroplasty Synopsis of Knee Surgery.

Alamanda, V and **Springer, BD**, Patient Optimization for Outpatient Surgery
Outpatient Joint Replacement: Indications, Implementation and Surgical Management

Moody, P and **Springer, BD**, Surgical Wound Dressing in Orthopaedic Infections
Management of Orthopaedic Infections: A practical guide.

Alamanda, V and Springer, BD. Preoperative Optimization in Total Joint Arthroplasty. Essential of Cemented Total Knee Arthroplasty. Springer 2022 pp: 263-268

PRESENTATIONS AT PROFESSIONAL MEETINGS

Modular Segmental Kinematic Rotating Hinge for Nonneoplastic Limb Salvage
AAOS
Dallas, TX
Feb. 2002

Kinematic Rotating Hinge for Complex Primary and Revision Total Knee Arthroplasty.
AAOS
March 2002

Treatment of Periprosthetic Femoral Fractures Following Total Hip Arthroplasty with Femoral Component Revision
Mid-America Orthopaedic Association
April 2002

Cemented Acetabular Liner Exchange into Well-Fixed Acetabular Shell during Revision Total Hip Arthroplasty.
Presented at Mid-America Orthopaedic Association
April 2003

The Revision Femur: Revision Total Hip Arthroplasty
Oscar Miller Research Day
Charlotte, NC
October 2005

Hip Resurfacing: Current Trends in Hip Arthroplasty
Oscar Miller Research Day
Charlotte, NC
October 2005

Managing Ligamentous Instability in Revision TKA, Instructional Course Lecture: Let Do a Revision TKA
AAOS
Chicago, IL
2006

The Difficult Primary Total Hip
Zimmer Total Joint Update Conference
Asheville, NC
Sept 2007

Hip Resurfacing: A new trend in Hip Arthroplasty
Zimmer Total Joint Update Conference
Asheville, NC
Sept 2007

Periprosthetic Fractures about the Hip
Zimmer Total Joint Update Conference
Asheville, NC
Sept 2007

Surgical Management of the Infected THA
Zimmer Total Joint Update Conference
Asheville, NC
Sept 2007

Periprosthetic Fractures about the Knee
Zimmer Total Joint Update Conference
Asheville, NC
Sept 2007

Fixation Options in Revision TKA
Instruction Course Lecture: Evaluation, Planning and Management of Revision TKA
AAOS San Diego
2007

Evaluation of the Painful Total Hip Arthroplasty
Advances in Total Joint Replacement: Indications, Pearls, and Surgical Techniques
The Greenbrier
White Sulphur Springs, WV
May 2007

How I Choose a Bearing Surface in Total Hip Arthroplasty
Advanced in Total Joint Replacement: Indications, Pearls, and Surgical Techniques
The Greenbrier
White Sulphur **Springer**, WV
May 2007

Management of the Infected Total Hip Arthroplasty
Innovative Surgical Approaches and Technology in Total Joint Replacement
Charleston, SC
May 2007

Mobile Bearing Revision Total Knee Arthroplasty
Innovative Surgical Approaches and Technology in Total Joint Replacement
Charleston, SC
May 2007

Hip Resurfacing
Innovative Surgical Approaches and Technology in Total Joint Replacement
Charleston, SC
May 2007

Periprosthetic Femur Fractures
Technological Advances in Revision Surgery
Pinehurst, NC
Sept 2007

The Painful Aseptic Total Hip
Technological Advances in Revision Surgery
Pinehurst, NC
Sept 2007

Evidence Based Orthopaedics: CPM after TKA
Advances in Surgical Technology
New York, NY
Nov 2007

Extensor Mechanism Reconstruction in Revision TKA
Advances in Surgical Technology
New York, NY
Nov 2007

Osteonecrosis of the Hip: Treatment Options
Technological Advances in Primary and Complex Hip and Knee Replacement.
White Sulphur Springs, WV
May 2008

Templating in Total Hip Arthroplasty
Technological Advances in Primary and Complex Hip and Knee Replacement.
White Sulphur Springs, WV
May 2008

TKA in patients with Flexion Contractures
Technological Advances in Primary and Complex Hip and Knee Replacement.
White Sulphur Springs, WV
May 2008

Balancing the Varus Knee
Technological Advances in Primary and Complex Hip and Knee Replacement.
White Sulphur Springs, WV
May 2008

Managing the Infected Total Knee Arthroplasty
Contemporary Issues and Techniques in Total Hip & Knee Arthroplasty
Nisswa, MN
June 2008

Anterolateral Approach to the Hip- Video Techniques
Contemporary Issues and Techniques in Total Hip & Knee Arthroplasty
Nisswa, MN
June 2008

Augments in Revision Total Knee Arthroplasty
Contemporary Issues and Techniques in Total Hip & Knee Arthroplasty
Nisswa, MN
June 2008

Balancing the Valgus Knee
Contemporary Issues and Techniques in Total Hip & Knee Arthroplasty
Nisswa, MN
June 2008

The Burden of Infected Total Knee Arthroplasty
John Insall Travelling Fellowship
2008

Success of Modern Cementless Femoral Components in Young Patients. A systematic review and meta-analysis. Do the results justify hip resurfacing?
American Association of Hip and Knee Surgeons
2008

Complex case controversies in total knee arthroplasty. Instructional Course Lectures.
American Academy of Orthopaedic Surgeons.
New Orleans, LA
2009

Let's Do a Primary Total Knee Arthroplasty. Instructional Course Lectures.
American Academy of Orthopaedic Surgeons.
New Orleans, LA 2009

Evaluation and Management of Extensor Mechanism Dysfunction in Total Knee Arthroplasty.
International Congress on Joint Replacement
Park City, UT
2009

Evaluation and Treatment of the Unstable Total Knee Arthroplasty.
International Congress on Joint Replacement
Park City, UT
2009

Evaluation and Management of Extensor Mechanism Dysfunction in Total Knee Arthroplasty.
International Congress on Joint Replacement
Kiawah Island, SC
2009

Large Head Metal on Metal THA instead of Resurfacing.
International Congress on Joint Replacement
Kiawah Island, SC
2009

Femoral Component Survivorship: Total hip Arthroplasty vs. Hip Resurfacing.
International Congress on Joint Replacement
New York, NY
2010

Principles of Revision Total Knee Arthroplasty
International Congress on Joint Replacement
New York, NY
2010

Computer Navigation for Complex Deformity in Total Knee Arthroplasty.
International Congress on Joint Replacement
New York, NY
2010

Advances in Surgical Dressings.
International Congress on Joint Replacement
Vail, CO
2011

The Computer is Reliable and Accurate
International Congress on Joint Replacement
Vail, CO
2011

The Seduction of Metal on Metal in Total Hip Arthroplasty
James F. Wenz MD Memorial Lecture, Johns Hopkins School of Medicine
2011

Evaluation and Management of Extensor Mechanism Dysfunction.
International Congress on Joint Replacement
Kiawah Island, SC
April 2011

Cost effectiveness of patient matched instruments.
International Congress on Joint Replacement
Kiawah Island, SC
April 2011

Hip Resurfacing-a niche procedure only?
International Congress on Joint Replacement
Kiawah Island, SC
April 2011

Femoral Component Survivorship. THA vs. Hip Resurfacing.
ICJR Marshall University Arthroplasty Course
May 2011

Does Surgical Approach make a difference in THA
ICJR Marshall University Arthroplasty Course
May 2011

DVT Prophylaxis
ICJR Marshall University Arthroplasty Course
May 2011

Innovations in Surgical Dressings.
ICJR Marshall University Arthroplasty Course
May 2011

Surgical Technique differences for CR vs PS TKA.
ICJR Marshall University Arthroplasty Course
May 2011

Why I use tapered stems in Revision THA
Oscar Miller Research Day
Charlotte, NC
October 2011

Debate: Why I don't use the Direct Anterior Approach in THA
Oscar Miller Research Day
Charlotte, NC October 2011

How to perform a Primary Total Knee Arthroplasty: Video Vignettes
AAOS Instructional Course Lecture
2012

Prevention of Periprosthetic Joint Infection: Strategies that Work
AAOS Instruction Course Lecture
2012

Is Socioeconomic Status a Risk Factor for Stiffness after Total Knee Arthroplasty? Multicenter Case Control Study.
AAOS Poster 2012

How to Perform a Primary TKA. Video Vignettes
AAOS Instructional Course Lecture
2012

Factors Associated with Perioperative Complications with Perioperative Complication Rates after Unilateral vs Simultaneous TKA.
Podium Presentation AAOS
2012

Instructional Course Lecture. Complex Case Controversies in Primary and Revision Total Knee Arthroplasty
AAOS 2012

Infection in Total Knee Arthroplasty: Diagnosis
2012 Emily Berend Adult Reconstruction Symposium
Duke University Department of Orthopaedic Surgery

What do we really know about Metal Ions?
2012 Emily Berend Adult Reconstruction Symposium
Duke University Department of Orthopaedic Surgery

When Hip Preservation is not an Option: What Matters
2012 Emily Berend Adult Reconstruction Symposium
Duke University Department of Orthopaedic Surgery

Highly Cross-Linked Polyethylene in THA.
ICJR Winter Meeting a Patient Specific Approach to the Arthritic Hip and Knee
2012

Improvements in Surgical Dressings in Total Joint Arthroplasty.
ICJR Winter Meeting A Patient Specific Approach to the Arthritic Hip and Knee
2012

Hip Resurfacing: Is it over...again?
ICJR
Kiawah Island, SC 2012

Why I use the Posterior Approach and Why I don't use the Direct Anterior Approach?
ICJR
Kiawah Island, SC 2012

An Update on DVT Prophylaxis
ICJR Marshall University 2012

Gap Balancing vs Measured Resection in Total Knee Arthroplasty
ICJR Marshall University
2012

Bilateral Total Knee Arthroplasty: The Right Way to go?
ICJR Marshall University
2012

Large Heads and Thin Poly: Can We Use Them?
ICJR Marshall University
2012

The Diagnosis of Periprosthetic Infection: An Algorithmic Approach
ICJR Marshall University
2012

Update on Metal-on-Metal THA
ICJR Marshall University
2012

Direct Anterior Approach: Her to stay or Gone Tomorrow?
ICJR Marshall University
2012

Why I do or don't: Evidence Based Approach
Advanced Surgical Techniques for Partial, Total, and Revision Knee Replacement
AAOS/AAHKS
October 2012

Diagnosis, Treatment, and Outcomes of an Infected TKA
Advanced Surgical Techniques for Partial, Total, and Revision Knee Replacement
AAOS/AAHKS
October 2012

Metal on Metal THA: Where Do We Stand?
Complication in Total Hip Arthroplasty Webinar
AAOS/AAHKS
October 2012

Metal on Metal THA: Where Do We Stand?
ICJR
New York, NY
2012

Does the Fixation Surface matter in the Acetabulum?
ICJR
New York, NY
2012

Prevention of Surgical Site Infections.
ICJR
New York, NY
2012

Management of the Infected Total Knee Arthroplasty.
ICJR
New York, NY
2012

Computer Navigation in Total Knee Arthroplasty.
ICJR
New York, NY
2012

Periprosthetic Joint Infection: A Current State of Affairs.
AAHKS Symposium
2012

Primary THA/Revision THA: Session Moderator
AAHKS
2012

Prevalence of Pseudotumors in Asymptomatic Patients with Modular Metal on Metal Total Hip Arthroplasty
AAHKS Poster
2012

National Obesity Trends in Total Knee Arthroplasty
AAHKS
2012

Complex Case Controversies in Primary and Revision Total Knee
Arthroplasty
AAOS Instruction Course Lecture Moderator
2013

Adult Reconstruction Hip V: Infection/Other
AAOS Moderator
2013

Periprosthetic Infection: The Algorithmic Approach and the Emerging Evidence
AAOS Instructional Course Lecture
2013

Prevalence of Pseudotumors in Asymptomatic Patients with Modular Metal on Metal Total Hip Arthroplasties
AAOS Poster
2013

The Role of Surgical Dressings in Total Knee Arthroplasty: A Randomized Clinical Trial.
AAOS Poster
2013

Perioperative Issues and Total Joint Replacement and Blood Conservation and Total Joint Replacement
AAOS Symposium
2013

The Perioperative Management in Total Knee Arthroplasty
AAOS Instructional Course
2013

Effectiveness of a Decolonization Program in Eradication of MRSA in Patients Undergoing Elective Total Joint Arthroplasty
MSIS Clinical Science Presenter
2014

Complex Cases Controversies in Primary and Revision Total Knee Arthroplasty
AAOS Moderator
2014

Periprosthetic Infection: The Algorithmic Approach and the Emerging Evidence.
AAOS Instructional Course
2014

Implications of Outpatients vs Total Joint Arthroplasty on Hospital Readmission Rates.
AAOS Paper Presentation
2014

The Role of Surgical Dressing in Total Joint Arthroplasty: Level 1
Randomized Clinical Trial.
AAOS Instructional Course Lecture
2014

The Perioperative Management in Total Knee Arthroplasty
AAOS Instructional Course Lecture
2014

Direct Anterior Hip Yields Faster Voluntary Cessation of All Walking Aids in a Randomized Trial.
AAOS Instruction Course Lecture
2014

Pelvic Discontinuity: Diagnosis and Surgical Management in Revision THA.
AAOS Scientific Exhibit
2014

Algorithms to Estimate Health Utilities from Total Joint Arthroplasty
Disease-specific measure
AAOS Poster
2014

Perioperative Management in Total Knee Arthroplasty
AAOS Instructional Course Lecture
2015

Thinking Beyond Hospital Pharmacy Silo Analysis of Perioperative Pain Modalities in Total Joint Arthroplasty
AAOS Paper Presentation
2015

How I Perform a Primary and a Revision Total Knee Arthroplasty
AAOS Symposium
2015

Infection Session
AAHKS Moderator
2015

Preoperative Optimization of TJA Surgical Risk
AAHKS Speaker
2015

Revision of Monoblock MoM Total Hip Arthroplasty-Is there a Place for Dual Mobility Without Cup Extractions?
AAHKS Paper Presentation
2015

Alarming National Obesity Trends in Revision Total Knee Arthroplasty
AAHKS Paper Presentation
2015

Modifying Risk Factors: Strategies That Work.
AAHKS Symposium
2015

Knee Arthroscopy in Patients over 50: A Midlife Crisis?
AAOS Paper Presentation
2015

Efficacy and Costs of Reinfusion Drains vs Tranexamic Acid in Total Joint Arthroplasty: A Randomized Trial
A Randomized Trial
AAOS Poster
2015

Complex Cases Controversies in Primary and Revision Total Knee Arthroplasty
AAOS Moderator
2015

Clinical Science Session
MSIS Moderator
2015

Prevention, Diagnosis, and Treatment of Periprosthetic Joint Infection:
A Case-based Analysis
Instructional Course Lecture Moderator
AAOS 2015

The Essentials for Creating Value in a Knee Arthroplasty Practice:
Managing the Post-Discharge expenses: SNF, HH
AAOS Symposium
2016

Operative Fixation Versus Distal Femur Replacement Arthroplasty for Comminuted Distal Femur Fractures.
AAOS Instructional Course Lecture
2016

Revision Total Knee Arthroplasty Essentials: A Case-Based Approach
AAOS Instructional Course Lecture
2016

Symposium II-Periprosthetic Joint Infection
AAHKS **Springer** Moderator
2016

Infections Session AAHKS
Moderator
2016

Symposium: Medical Management of the High-Risk Patient
MSIS Moderator
2016

Prevention, Diagnosis, and Treatment of Periprosthetic Joint Infection:
AN Analysis
AAOS Instructional Course Lecture Moderator
2016

The Urban Legends of Total Knee Arthroplasty
AAOS Instructional Course Lecture Moderator
2016

Ask the Experts Case Sessions- Primary Knee
AAHKS Panelist
2016

Periprosthetic Joint Infections: An Algorithmic Approach
AAHKS Symposium
2016

The Direct Anterior Approach is a Risk Factor for Early Failure in Cementless THA: A Multi-Center Study
AAOS Paper Presentation
2016

Management of Infected Total Joint Arthroplasty in 2016- Where Do We Stand Now?
AAOS Instructional Course Lecture
2016

Catastrophic Varus Collapse of the Tibia in Obese Total Knee Patients
AAOS Paper Presentation
2016

Preoperative Optimization of Total Joint Arthroplasty Surgical Risk: Tobacco Cessation
AAOS Symposium
2016

Vancomycin Administration for Reported Penicillin Allergy Increases Gram Negative Joint Infection
AAOS Poster
2016

Nasal Decolonization of *s. aureus* reduces surgical site infections in TJA patients: A Meta-Analysis".
AAOS Poster
2016

Tibial Tray Thickness Significantly Increases Medial Tibial Bone Resorption in Cobalt Chromium Total Knee
Arthroplasty Implants
AAOS Poster
2017

Early Failure of Primary Total Hip Arthroplasty: Is Surgical Approach a Risk Factor
AAOS Poster
2017

Complex Revision Total Hip Arthroplasty: An Advanced Course
AAOS Instructional Course Lecture
2017

Management of Infected Total Joint Arthroplasty in 2017-Where Do We Stand Now?
AAOS
Instructional Course Lecture
2017

Poor Outcomes of Irrigation and Debridement in Acute Periprosthetic Joint Infection with antibiotic-
impregnated Calcium Sulfate Beads
AAOS Paper Presentation
2017

Dismal Reconstructive Outcomes of Concomitant Periprosthetic Joint Infection and Extensor Mechanism
Disruption
AAOS Peer Presentation
2017

Revision Total Knee Arthroplasty Essentials: A Case-Based Approach
AAOLS Instructional Course Lecture
2017

Great Debates in Total Hip Arthroplasty: Dual Mobility Liners: It is Now A Primary Solution-Negative
AAOS Symposium
2017

All Things Infections: All You Need to Know: Infection and Cancer: Drawing Parallel
AAOS Symposium
2017
Diagnosis and Management of Periprosthetic Joint Infection
ICJR Revision Course
Rochester, MN
April 2017

Managing Bone Loss with Lobes Cones in rTKA
ICJR Revision Course
Rochester, MN
April 2017

Patient Optimization: Contemporary Strategies for Infection Management
ICJR
Rochester, MN
April 2017

Periprosthetic Infection: The Future Challenges in Revision TKA
Dublin Ireland
April 2017

Use of Constraint in rTKA
Challenges in Revision TKA
Dublin, Ireland
April 2017

Why are TKA's failing Today
Challenges in Revision TKA
Dublin, Ireland
April 2017

How to Do a Complex Total Knee Arthroplasty: Case-Based Presentation
AAOS Instructional Course Lecture Moderator
2017

Prevention, Diagnosis, and Treatment of Periprosthetic Joint Infection: An Analysis
AAOS Instructional Course Lecture Moderator
2017

The Urban Legends of Total Knee Arthroplasty
AAOS Instructional Course Lecture Moderator
2017

Measured Resection Trumps Gap Balancing: Opposes
Current Concepts in Joint Replacement
Orlando, FL
2017

Prevention of Periprosthetic Femur Fractures
Current Concepts in Joint Replacement
Orlando, FL
2017

Infection Prevention:12 Modifiable Risk Factors
Current Concepts in Joint Replacement
Orlando, FL
2017

Complex Primary TKA
Great Expectation Meeting
Toronto, CA
2017

Stem Fixation in Revision TKA
Stryker Great Expectations Meeting
Toronto, CA
2017

How I approach the Revision Femur
Stryker Great Expectations Meeting
Toronto, CA
2017

Primary TKA, Evolution of Design and Technique
Stryker Great Expectations
Tokyo Japan
2017

Infection Burden in Total Hip and Knee Arthroplasty.
International Registry Perspective
Closed Meeting of Hip Society
2017

Prevention and Diagnosis of PJI
ICJR South Course
Charleston, SC
May 2017

High prevalence of opioids and benzodiazepines for treatment of osteoarthritis
Closed Meeting of the Hip Society
New York, NY
2018

Implications of withholding TJA in the Morbidly Obese
Closed Meeting of the Knee Society
St. Louis, MO
2018

Perioperative Optimization
ICJR South Hip Knee Course
Key Largo, FL
2018

Anterior Approach: A Wolf (with Numb Thighs) in Sheep's Clothes
ICJR South Hip Knee Course
Key Largo, FL
2018

The Stenotic Femur
ICJR South Hip Knee Course
Key Largo, FL
2018

Dual Mobility: Indications
ICJR South Hip Knee Course
Key Largo, FL
2018

Conversion of the Failed UKA to TKA
New England Orthopaedic Society
2018

The Complex Primary TKA
New England Orthopaedic Society
2018

Gap Balancing TKA: Video Techniques
New England Orthopaedic Society
2018

Gap Balancing TKA. I've made my decision
Worth Arthroplasty Congress
Rome, Italy
2018

When to revise for ALTR in MoM THA
World Arthroplasty Congress
Rome, Italy 2018

Patient Optimization: What's Important
World Arthroplasty Congress
Rome, Italy
2018

Management of Bone Loss in Revision TKA: Titanium Cones
ICJR Revision Course
Rochester, MN
April 2018

Diagnosis and Management of Periprosthetic Joint Infection
ICJR Revision Course
Rochester, MN
April 2018

PJI TKA: When to wash in out?
Knee Society Specialty Day 2018
AAOS Annual Meeting
New Orleans, LA
2018

TKA for Flexion Contracture
ICL 2018 AAOS Annual Meeting
New Orleans, LA
2018

TKA for patient with prior Extensor Mechanism Problems
ICL AAOS Annual Meeting
New Orleans, LA
2018

Recurrent Instability in Revision THA
ICL 222 AAOS Annual Meeting
New Orleans, LA
2018

Acetabular Preparation and Implantation
Symposium L AAOS Annual Meeting
New Orleans, LA
2018

THA after Failed Hip Fracture Fixation
ICJR Winter Course
Vail, CO
2018

Urban Legends vs Evidence Based Medicine
ICJR Winter Course
Vail, CO
2018

Moderator: Why my THA failed
ICJR Winter Course
Vail, CO
2018

The posterior approach in THA: Video Vignettes
ICJR Winter Course
Vail, CO
2018

Irrigation Solutions, Intraosseous Antibiotics
AAOS Instructional Course Lecture
Las Vegas, NV
2019

National Trends in Treatment of Femoral Neck Fracture from the American Joint Replacement Registry
AAOS Paper Presentation
Las Vegas, NV
2019

Periprosthetic Joint Infection of the Knee: Contemporary Diagnosis and Management
AAOS Moderator
Las Vegas, NV
2019

Significant fixed Flexion Contracture & Stiff Knee
AAOS Instructional Course Lecture
Las Vegas, NV
2019

The Knee with prior Extensor Mechanism Problems
AAOS Instructional Course Lecture
Las Vegas, NV
2019

The Spin-Pelvic Relationship: Terminology for the TJA Surgeon
AAOS Instructional Course Lecture
Las Vegas, NV
2019

Perioperative Periprosthetic Femur Fractures are Strongly Correlated with Fixation Method: An Analysis from the American Joint Replacement Registry
AAOS Paper Presentation
Las Vegas, NV
2019

What are the Implications of Withholding Total Joint Arthroplasty in Patients with Morbid Obesity? A Prospective Observational Study
AAOS Paper Presentation
Las Vegas, NV
2019

Achieving Stability in Revision THA=Recurrent Dislocation.
AAOS Instructional Course Lecture
Las Vegas, NV
2019

Patient Selection and Optimization
AAOS Moderator
Las Vegas, NV
2019

The Opioid Crisis: How Big is the Problem?
AAOS Instructional Course Lecture
Las Vegas, NV
2019

Urban Legends vs Evidence Based Medicine
ICJR Winter Hip and Knee Course
Vail, CO
2019

Posterior Approach: Video Vignette
ICJR Winter Hip and Knee Course
Vail, CO
2019

Role for Irrigation & Debridement: Who, When, & How?
ICJR Winter Hip and Knee Course
Vail, CO
2019

The Diagnosis of Periprosthetic Joint Infection
London Knee Meeting
London, UK
2019

Update on One Stage vs Two Stage Exchange for PJI
London Knee Meeting
London, UK
2019

Patient Optimization: Modifiable Risk Factors
London Knee Meeting
London, UK
2019

Single Stage Exchange for Treatment of PJI
Holiday Hip and Knee Course
Hospital for Special Surgery
New York, NY
2019

Hip Precautions in THA: Are they necessary?
Holiday Hip and Knee Course
Hospital for Special Surgery
New York NY
2019

Managing Extraarticular deformity in TKA
Holiday Hip and Knee Course
Hospital for Special Surgery
New York, NY
2019

Complex Primary THA: Protrusion
Holiday Hip and Knee Course
Hospital for Special Surgery
New York, NY
2019

Conversion of Failed UKA to TKA
ICJR Residents and Fellows Course
Advanced Techniques in THA/TKA
New York, NY
2019

Diagnosis of PJI
ICJR Residents and Fellows Course
Advanced Techniques in THA/TKA
New York, NY
2019

Patient Optimization
ICJR Residents and Fellows Course
Advanced Techniques in THA/TKA
New York, NY
2019

Infection prevention in Total Joint Arthroplasty
Argentinian Association for study of hip and knee AARCO
Buenos Aires, Argentina
2019

Irrigation and Debridement for Acute PJI: When and How
Argentinian Association for study of hip and knee AARCO
Buenos Aires, Argentina
2019

Complex Primary Total Knee Arthroplasty
Argentinian Association for study of hip and knee AARCO
Buenos Aires, Argentina
2019

Achieving Stability on Revision Total Hip Arthroplasty
Argentinian Association for study of hip and knee AARCO
2019

Complications in the Treatment of PJI of the Knee
Closed meeting of Knee Society
2019

Preoperative Optimization Total Joint Arthroplasty
International Congress for Joint Replacement South Course
Ocean Reef, FL
2019

Infection Prevention: Intraoperative and Postoperative
International Congress for Joint Replacement South Course
Ocean Reef, FL
2019

The Anterior Approach to THA: A wolf in sheep's clothing
International Congress for Joint Replacement South Course
Ocean Reef, FL
2019

Dual Mobility: Indications
International Congress for Joint Replacement South Course
Ocean Reef, FL
2019

Leg Length Inequality in Total Hip Arthroplasty
International Congress for Joint Replacement South Course
Ocean Reef, FL
2019

The Implications of Obesity and Total Joint Arthroplasty
Grand Rounds Columbia University Department of Orthopaedic Surgery
2019

The psychology of Total Joint Arthroplasty
Symposium AAHKS Spring Meeting
New York, NY
2019

Management of PJI: One Stage vs Two Stage
MB Lee Visiting Professor
Hong Kong University Department of Orthopaedic Surgery
2019

Gap Balancing in Total Knee Arthroplasty
16th Hong Kong International Orthopaedic Forum
2019

The Diagnosis of Periprosthetic Joint Infection
16th Hong Kong International Orthopaedic Forum
2019

Periprosthetic Femur Fractures: The Role of Femoral Fixation
16th Hong Kong International Orthopaedic Forum
2019

How and why, I choose the posterior approach in THA
16 Hong Kong International Orthopaedic Forum
2019

Diagnosis of PJI: An Algorithmic Approach
ICJR Revision Course
Rochester, MN
2019

Porous Titanium Cones
ICJR Revision Course
Rochester, MN
2019

The Direct Anterior Approach: In Opposition
Current Concepts in Joint Replacement (CCJR) Winter Meeting
Orlando, FL
2019

Benchmarking Femoral Neck Fractures in 2019
Current Concepts in Joint Replacement (CCJR) Winter Meeting
2019

Patient Optimization: 12 modifiable risk factors
Current Concepts in Joint Replacement (CCJR) Winter Meeting
Orlando, FL
2019

International Consensus Meeting: A synopsis
ICJR Winter Course
Vail, CO
2020

Urban Legends vs Evidence Based Medicine

ICJR Winter Course
Vail, CO
2020

The posterior approach: Video Vignettes
ICJR Winter Course
Vail, CO
2020

How to Prepare for Revision TKA
International Education Program Fellows/Young Surgeon's Course
Tampa, FL
2020

Antibiotic Spacer in rTHA: What are our options in 2020?
AAHKS Symposium: Tips and Tricks for Revision THA
AAHKS Annual Meeting
Dallas, TX
2020

Systemic and Local Toxicity Associated with Delivery Technology
FDA Device Related Infection Workshop
2020

Single Stage Exchange for Infected TJA
ICJR Winter Course
Vail, CO
2021

My Top 5 Moves in Revision TKA
ICJR Winter Course
Vail, CO
2021

Risk Stratification in TJA
ICJR South Hip and Knee Course
Key Largo, FL
2021

Aligning with large PCP groups in at risk models
ICJR South Hip and Knee Course
Key Largo, FL
2021

Limb Length Discrepancy in THA
ICJR South Hip and Knee Course
Key Largo, FL
2021

Gap Balancing vs Measured Resection
World Arthroplasty Congress Virtual Meeting
2021

Dual Mobility for THA
World Arthroplasty Congress Virtual Meeting
2021

Tips and Tricks to Prepare for Part II of the Boards
Hip and Knee IEP Fellows and Young Surgeons' Course
Austin, TX
2021

Communicating with Referring Providers and Use of Technology
Hip and Knee IEP Fellows and Young Surgeons' Course
Austin, TX
2021

Getting Involved Externally: Societies and Industry
Hip and Knee IEP Fellows and Young Surgeons' Course
Austin, TX
2021
Preparing for Revision THR
Hip and Knee IEP Fellows and Young Surgeons' Course
Austin, TX
2021

Creating an Efficient Practice; From the Office to the OR
Hip and Knee IEP Fellows and Young Surgeons' Course
Austin, TX
2021

The role of Intraosseous Vancomycin Delivery
Symposium: Management of Complicated Bone and Joint Infections
2021 Annual Meeting of the Musculoskeletal Infection Society
Fort Lauderdale, FL
2021

Irrigation and Debridement of Periprosthetic Joint Infection: ICL:
Periprosthetic joint infection of the knee: contemporary diagnosis and management
AAOS Annual Meeting
San Diego, CA
2021

Total Hip Arthroplasty after prior acetabular fracture
Symposium P
Optimizing the results of THA: Managing Simple Complex THA
AAOS Annual Meeting
San Diego, CA
2021

Ask an Expert: Case Based Discussion
AAOS Annual Meeting
San Diego, CA
2021

Cemented Femoral Stem Fixation: back to the Future
AAOS Annual Meeting
San Diego, CA
2021

Managing Instability in rTHA
ICL: A comprehensive approach to Complex revision total hip arthroplasty
AAOS Annual Meeting
San Diego, CA
2021

Infection prevention measures in TJA
AAHK/AAOS Specialty Day
AAOS Annual Meeting
San Diego, CA
2021

All in a Day's Work: How to address the array of knee problems in our patients.
AAOS Annual Meeting
San Diego, CA
2021

TKA with Prior Extensor Mechanism Complications
ICL The Complex Primary Total Knee Arthroplasty Made Simple
AAOS Annual Meeting
San Diego, CA
2021

Managing Extra-Articular Deformity in TKA
ICL The Complex Primary Total Knee Arthroplasty Made Simple
AAOS Annual Meeting
San Diego, CA
2021

Managing Flexion Contractures and Stiffness in TKA
ICL The Complex Primary Total Knee Arthroplasty Made Simple
AAOS Annual Meeting
San Diego, CA
2021

Custom Triflange for Complex Acetabular Revision. Symposium: Tips Tricks to Save you during Revision THA
AAOS Annual Meeting
San Diego, CA
2021

Is there an association between invasive dental procedures and periprosthetic joint infections? A case-cross
over study.
The Hip Society Closed Meeting
Washington, DC
2021

What is the best current use of large databases for arthroplasty research? Symposium of Large Database
Research in Arthroplasty
Chicago, IL
2021

Is there an association between invasive dental procedures and periprosthetic joint infection? A case-crossover study.

AAHKS Annual Meeting
Dallas, TX
2021

Periprosthetic Femur Fractures: Risk Stratification and Registry Data

AAHKS Webinar on Cemented Stem Fixation.
2021

The American Joint Replacement Registry: What's in it (For you)

The Herb Pasternack Memorial Lecture Visiting Professor
2021

Dual Mobility and head sizes in 2021

HSS Winter Arthroplasty Course
New York, NY
2021

MENTORING RELATIONSHIPS

Resident and Fellows

2017-Present	Atrium Musculoskeletal Institute Department of Orthopaedic Surgery Associate Professor/Professor Supervise 6 residents each year
2011-Present	OrthoCarolina Hip and Knee Center Fellowship Director Supervise 4 fellows each year

