

Benjamin K. Wilke, M.D.
Department of Orthopedic Surgery
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Education

B.S., Integrative Physiology, with Honors and Distinction, University of Iowa, Iowa City, IA 2004- 2007

Postdoctoral Training

Fellowship in Musculoskeletal Oncology, University of Florida, Gainesville, FL 2016 - 2017

Residency, Mayo Clinic Department of Orthopedic Surgery, Rochester, MN 2011 - 2016

Academic Appointments

Associate Professor

Department of Orthopedic Surgery, Mayo Clinic, Jacksonville, FL 2022

Assistant Professor

Department of Orthopedic Surgery, Mayo Clinic, Jacksonville, FL 2017 - 2022

Major Leadership Positions

Medical Director for Mayo Clinic School of Health Sciences Surgical Technologist and Sterile Instrument Processing Internship Programs
Mayo Clinic, Jacksonville FL 2020

Orthopedic Administrative Chief Resident
Mayo Clinic, Rochester, MN 2015 - 2016

Honors and Awards

Top 10% Most Published Clinician by Doximity 2022, 2023

Top 10% Most Cited Clinician by Doximity 2022

Excellence in Teaching Associate Faculty Award (University of Florida – Jacksonville) 2021

Mayo Quality Fellows Gold Quality Improvement Project for Total Joint Enhanced Recovery Optimization 2020

Research Accelerator Award 2019

Mayo Clinic Scholars Award 2017

Alpha Omega Alpha Honor Society 2011

Donald W. Bussmann M.D. Award, Saint Louis University School of Medicine 2011

Most Outstanding Scholar Award, Saint Louis Veterans Association and Saint Louis University School of Medicine 2010

Educational Activities

Teaching Activities in Programs and Courses

Participate in a weekly multidisciplinary sarcoma conference	2017
Participate and help lead the Mayo Clinic Florida total joint arthroplasty conferences.	2019
Participate and help lead quarterly cadaveric dissections for the orthopedic surgery residents	2019

Clinical Education

Responsible for training the University of Florida Jacksonville orthopedic residents in musculoskeletal oncology and total joint arthroplasty.	2017
Participate in the surgical education for the Mayo Clinic Florida arthroplasty fellowship.	2017

Research Educati

Direct the departmental research meetings.	2020
Participate in monthly University of Florida journal club for the orthopedic surgery residents.	2017
Participate in a monthly total joint arthroplasty journal club	2019

Advising and Mentoring

Students

- Mentor to Devon Foster on "Using Ice Around Postoperative Total Knee Incisions – Does This Make Sense? An Evaluation of Blood Flow Using Fluorescence Angiography"
- Mentor to Christian Guier on "Primary Total Hip Arthroplasty in Ehlers-Danlos Patients: A Retrospective Matched-Cohort Study"

Residents

- Mentored Meagan Tibbo MD on "Outcomes of Primary Total Knee Arthroplasty in Patients with Ehlers Danlos"

Mentor to Christopher Roberts MD on “A Collaborative Approach to Pain Control Reduces In-Hospital Opioid Use and Improves Range of Motion Following Total Knee Arthroplasty

Mentor to John Taliaferro MD on “For Profit Stem-Cell Clinics: The Modern-Day Snake Oil Salesman? Two Cases of Patients Harmed by Intra-Articular Stem Cell Injections

Mentor to Jared Bell MD on “Septic Arthritis in Immunosuppressed Patients: Do Laboratory Values Help?”

Mentor to Zach Elstad on “Outcomes of Total Hip Arthroplasty via the Direct Anterior versus Alternative Approaches for Acute Femoral Neck Fractures”

Mentor to Jeb Williams on “Application of Ice for Postoperative Total Knee Incisions – Does this Make Sense? A Pilot Evaluation of Blood Flow Using Fluorescence Angiography”

Mentor to Nicholas James on “Incidence of Encountering the Infrapatellar Nerve Branch of the Saphenous Nerve During a Midline Approach for Total Knee Arthroplasty”

Mentor to Arun Kumar on “Incidence of Encountering the Infrapatellar Nerve Branch of the Saphenous Nerve During a Midline Approach for Total Knee Arthroplasty”

Mentor to Price Sessums on “Are all Wound Classes the Same? A Comparison of Interobserver Reliability between Orthopedic Surgeons using the Centers for Disease Control Surgical Wound Class Definitions”

Grants

Grant ID: Institutional Support from the Research Accelerator Grant Program

Wilke (PI)

4/1/2018 – 12/31/2018

A Pilot Study of Intralesional Injection of Triamcinolone Acetonide for Desmoid Tumors

Goal: To evaluate the response of desmoid tumors to serial injections of triamcinolone acetonide as a potential new therapy (Partial study funding: 1 of 3 grants).

Role: Principal Investigator

Grant ID: Institutional Support from the Cancer Focused Research Team

Wilke (PI)

1/17/2018 –

A Pilot Study of Intralesional Injection of Triamcinolone Acetonide for Desmoid Tumors

Goal: To evaluate the response of desmoid tumors to serial injections of triamcinolone acetonide as a potential new therapy (Partial study funding: 1 of 3 grants).

Role: Principal Investigator

Grant ID: External Grant from the Desmoid Tumor Research Foundation

Wilke (PI)

4/23/2018 –

A Pilot Study of Intralesional Injection of Triamcinolone Acetonide for Desmoid Tumors

Goal: To evaluate the response of desmoid tumors to serial injections of triamcinolone acetonide as a potential new therapy (Partial study funding: 1 of 3 grants).

Role: Principal Investigator

Grant ID: Institutional Support from the Kern Center for Healthcare Delivery

Wilke (PI)

A Comparison of Postoperative Pain Scores in Total Knee Patients with and without an Adductor Canal Pain Catheter

Goal: To evaluate postoperative pain levels in patients with and without the adductor canal nerve catheter

Role: Principal Investigator

Grant ID: Research Support from Summit Medical

Wilke (PI)

A Randomized, Double-Blinded, Placebo-Controlled Trial Comparing a Multi-Modal Pain Protocol with and without Schedule II Oral Opioids Following Total Joint Arthroplasty

Goal: To compare postoperative pain levels in patients with a multimodal pain pathway with and without scheduled II oral narcotics

Role: Principal Investigator

Grant ID: Institutional Support from the Clinical Practice Committee

Wilke (Co-PI)

A Novel Chest Tube Dressing to Prevent Iatrogenic Post-Removal Pneumothorax

Goal: To develop a novel chest tube dressing that will reduce or eliminate iatrogenic pneumothorax following chest tube removal

Role: Co-Principal Investigator

Grant ID: Institutional Support from the Department of Orthopedic Surgery

Yaszemski (PI)

08/19/2016-08/18/2018

Does Esmarch Use Enable Spread of Infection?

Goal: To evaluate if use of an esmarch during surgery potentiates the spread of bacteria into the bloodstream.

Role: Co-Investigator

Grant ID: Research Support from AVANOS

Wilke (PI)

A Three-arm, Double-blinded, Randomized Controlled Trial Comparing the Efficacy of Adductor Canal Pain Catheters Following Total Knee Arthroplasty

Goal: This study will evaluate the efficacy of adductor canal pain catheters following total knee arthroplasty, using either an intermittent bolus or continuous infusion compared to a single-shot adductor canal block.

Role: Principal Investigator

Certification and Licensure

American Board of Orthopedic Surgery Certification

2019

Florida Medical License

2016

Minnesota Medical License

2011

Scholarship

Peer-reviewed publications

1. **Wilke BK MD**, Spaulding AC PhD, Crowe MM MD, Ledford CK MD, Sherman CE MD, Spencer-Gardner L MD, Blasser KE MD. Do All Postoperative Vancouver B2 Fractures Require Revision Arthroplasty with Cementless Stems? *Arthroplasty Today*. June 2024.
2. Garayua-Cruz L, Broida SE, Okuno SH, Robinson SI, Siontis BL, Welliver, MX, **Wilke BK**, Goulding KA, Rose PS, Houdek MT. Outcomes of Non-Angiosarcoma Radiation-Associated Soft Tissue Sarcomas of the Chest. *Journal of Surgical Oncology* June 2024.
3. Young PF MD, Roberts C MD, Shi GG MD, Heckman MG MS, White LJ BS, Ledford CK MD, Clendenen SR MD, **Wilke BK MD**. Total Knee Arthroplasty with and without Schedule II Opioids: A Randomized, Double-Blinded, Placebo-Controlled Trial. *Cureus*. March 2024
4. Voigt JD MBA, Potter BK MD, Souza J MD, Forsberg J MD, Melton D MD, Hsu J, **Wilke BK MD**. Lifetime Cost-Effectiveness Analysis Osseointegrated Transfemoral Versus Socket Prosthesis Using Markov Modeling. *Bone Joint Open*. March 2024
5. Foster D BS, Sebro R MD PhD, Garner HW MD, Stanborough R MD, Spaulding A PhD, Goulding KA MD MPH, Houdek MT MD, **Wilke BK MD**. Intravenous Tranexamic Acid is Associated with an Increased Risk of Pulmonary Embolism Following Sarcoma Resection. *Journal of Surgical Oncology*. July 2023.
6. Thompson JC MD, VanWagner MJ DO, Spaulding AC PhD, **Wilke BK MD**, Schoch BS MD, Spencer-Gardner LS MD, Ledford CK MD. A Survey of Personal Health Habits, Wellness, and Burnout in Practicing Orthopaedic Surgeons – Are We Taking Care of Ourselves? *JAAOS Global Research and Reviews* May 2023
7. Iturregui JM MD; Sebro RA MD PhD; Baranek M BS; Garner HW MD; Stanborough RO MD; Goulding KA MD MPH; Ledford CK MD; **Wilke BK MD**. A Multicenter Retrospective Review of Total Hip Arthroplasty and Lumbar Spine Fusion Demonstrates a Lower Dislocation Risk with the Direct Anterior Compared to the Posterior and Anterolateral Approaches. *Hip International* March 2023
8. Hoppe BS, Petersen IA, **Wilke BK**, DeWees TA, Imai R, Hug EB, Fiore MR, Debus J, Fossati P, Yamada S, Orlandi E, Zhang Q, Bao C, Seidensaal K, May BC, Harrell AC, Houdek MT, Vallow LA, Rose PS, Haddock MG, Ashman JB, Goulding KA, Attia S, Krishnan S, Mahajan A, Foote RL, Laack NN, Keole SR, Beltran CJ, Welch EM, Karim M, Ahmed SK. Pragmatic, Prospective Comparative Effectiveness Trial of Carbon Ion Therapy, Surgery, and Proton Therapy for the Management of Pelvic Sarcomas (Soft Tissue/Bone) Involving the Bone: The PROSPER Study Rationale and Design. *Cancers* Mar 8 2023.
9. **Wilke BK MD**, Guier C BS, Applewhite A MD, Garner HW MD, Stanborough RO MD, Spaulding A PhD, Sebro RA MD PhD. Is Heterotopic Ossification Associated with Surgical Approach in Total Hip Arthroplasty? *JAAOS* April 2023
10. Houdek MT MD, **Wilke BK MD**, Barlow JD MD. Management of Scapular Tumors. *Orthop Clin North Am*. Jan 2023.

11. Iturregui JM MD, Haupt ET MD, **Wilke BK MD**, Kraus JC MD, Shi GG MD. Patient Satisfaction and Pain Relief After Deep Peroneal Nerve Neurectomy for Midfoot Arthritis: A Preliminary Short Report. *Foot and Ankle International* March 2023.
12. **Wilke BK MD**, Garner HW MD, Bestic JM MD, Chase LA MS, Heckman MG MS, Schoch JJ MD, Attia S DO. A Pilot Study of Intralesional Injection of Triamcinolone Acetonide for Desmoid Tumors: Two Year Outcomes *Clinical Cancer Research* February 2023.
13. Pelkowski JN ARNP, **Wilke BK MD**, Glabach MR RN, Bowman JC RN, Ortiguera CJ MD, Blasser KE MD, Crowe MM MD, Sherman CE MD, Ledford CK MD. The Development and Early Experience of a Destination Center of Excellence Program for Total Joint Arthroplasty. *Orthopaedic Nursing* January 2023.
14. Iturregui, JM MD, Haupt ET MD, **Wilke BK MD**, Kraus JC MD, Shi GG MD. Durability and Safety of Deep Peroneal Nerve Neurectomy for Midfoot Arthritis at Midterm Follow Up. *Foot & Ankle Orthopedics* November 2022
15. Isaza LF MD, Garner HW MD, Edgar MA MD, Attia S DO, **Wilke BK MD**. A Case Report of Two Distinct Primary Sarcomas Arising in an Extremity in Rapid Succession. *Radiology Case Reports* October 2022.
16. Barry KS MD, Nimma SR MD, Spaulding AC PhD, **Wilke BK MD**, Torp KD MD, Ledford CK MD. Perioperative Outcomes of Immersive Virtual Reality as Adjunct Anesthesia in Primary Total Hip and Knee Arthroplasty. *Arthroplasty Today* October 2022
17. Lai C MD, Long JR MD, Larsen BT MD, PhD, Iturregui JM MD, **Wilke BK MD**, Goulding KA MD MPH. Percutaneous Biopsy of Musculoskeletal Tumors and the Potential for Needle Tract Seeding: Technical Considerations, Current Controversies, and Outcomes. *Skeletal Radiology* October 2022.
18. Guier C BS, Shi GG MD, Clendenen SR MD, Heckman MG MS, Chase, LA MS, **Wilke BK MD**. A Retrospective Case Series of Prophylactic Neurectomy During Total Knee Arthroplasty. *Journal of Orthopedic Surgery* September 2022.
19. Porter SB MD, Spaulding AC PhD, Duncan CM MD, **Wilke BK MD**, Pagnano MW MD, Abdel MP MD. Tranexamic Acid Was Not Associated with Increased Complications in High-Risk Patients with Intertrochanteric Fracture. *Journal of Bone and Joint Surgery* April 2022.
20. **Wilke BK MD**, Sessums PO MD, Shi GG MD, Libertin CR MD, Heckman MG MS, Brushaber DE BS, Sherman CE MD, Ledford CK MD. An Alternative Wound Class for Orthopedic Surgery is more Strongly Associated with Risk for Postoperative Infection than the Current Surgical Wound Classification System *Journal of Orthopedic Experience and Innovation* January 2022.
21. Ledford CK MD, Elstad ZM MD, **Wilke BK MD**, Pagnano MW MD, Berry DJ MD, Abdel MP MD. Metabolic Syndrome Increases the Risk of Reoperation after Primary Total Hip Arthroplasty. *Journal of Arthroplasty* February 2022
22. Overfield CJ MD, Edgar MA MD, Wessell DE MD PhD, **Wilke BK MD**, Garner HW MD. NTRK Rearranged Spindle Cell Neoplasm of the Lower Extremity: Radiologic-Pathologic Correlation. *Skeletal Radiology* January 2022

23. Leford CK MD, VanWagner MJ DO, Spaulding AC PhD, Spencer-Gardner LS MD, **Wilke BK MD**, Porter SB MD. Outcomes of Femoral Neck Fracture Treated with Hip Arthroplasty in Solid Organ Transplant Patients. *Arthroplasty Today* October 2021
24. Glenn G. Shi MD, Arun Kumar MD, Cameron K. Ledford MD, Cedric J. Ortiguera, MD, **Benjamin K Wilke MD**. Infrapatellar Saphenous Nerve is at Risk During Tibial Nailing: An Anatomic Study. *JAAOS Global Research and Reviews* October 5th, 2021
25. Porter SB, Spaulding AC, Duncan CM, **Wilke BK**, Pagnano MW, Abdel MP. Tranexamic Acid was Not Associated with Increased Complications in High-Risk Hip Fracture Patients Undergoing Arthroplasty. *JBJS*. October 20th, 2021
26. VanWagner MJ DO; Porter SB MD; Spaulding AC PhD; Shi GG MD; **Wilke BK MD**; Ledford CK MD. Intertrochanteric Fracture Fixation in Solid Organ Transplant Patients: Outcomes and Survivorship. *Archives of Orthopaedic and Trauma Surgery* August 3rd, 2021
27. **Wilke BK MD**, Buckner JF MD, Huallani MT MD, Spaulding AC PhD, Forte AJ MD PhD. Analysis of Cost Variance in Soft Tissue Sarcoma Patients Who Develop Postoperative Wound Complications. *JAAOS Global Research and Reviews*. July 5th, 2021
28. **Wilke BK MD**, Shultz DS MD, Huayllani MT MD, Boczar D MD, Spaulding AC PhD, Sherman C MD, Murray PM MD, Forte AJ MD PhD. Intraoperative Indocyanine Green Fluorescence Angiography Decreases Postoperative Wound Complications in Soft Tissue Sarcoma Surgery. *JAAOS Global Research and Reviews* May 15th, 2021
29. Sessums PO MD, Ledford CK MD, Sherman CE MD, Bosch W MD, Libertin CR MD, Brumble LM MD, **Wilke BK MD**. Are all Wound Classes the Same? A Comparison of Interobserver Reliability between Orthopedic Surgeons and Infectious Disease Specialists using the Center for Disease Control Surgical Wound Class Definitions. *JAAOS* May 4th, 2021.
30. Elstad ZM MD, Buckner JF MD, Taunton MJ MD, Sherman CE MD, Ledford CK MD, **Wilke BK MD**. Outcomes of Total Hip Arthroplasty via the Direct Anterior versus Alternative Approaches for Acute Femoral Neck Fractures. *Arthroplasty Today* Vol. 8, April 2021. Pg. 92-95.
31. Huayllani MT; Daniel Boczar MD; Peter M. Murray MD; Courtney E Sherman MD; **Benjamin K Wilke MD**; Antonio J Forte MD, PhD, MS. Reconstruction of Quadriceps Muscle Function Using a Free Neurotized Latissimus Dorsi Muscle Transfer in an Elderly Patient. *JBJS Case Connector* Vol 10, Issue 4. Dec. 2020.
32. Kumar AR MD, **Wilke BK MD**, Folpe AL MD, Murray PM MD. Glomangiomas of the Upper Extremity. *Journal of Hand Surgery* Dec. 17th, 2020.
33. Burke J MD, Shi GG MD, **Wilke BK MD**, Whalen J MD. Allograft Interposition Bone Graft for First Metatarsal Phalangeal Arthrodesis: Salvage after Bone Loss and Shortening of the First Ray. *Foot and Ankle International* Nov. 6th, 2020.
34. Eugene P Harper MD, Justin Oring DO, Harry Powers MD, Courtney E Sherman MD, **Benjamin Wilke MD**, Jane Hata PHD, Aziza Nassar MD MPH, Julio C Mendez MD, Claudia R Libertin MD. Case Series of Echinococcus Infections at Mayo Clinic Florida. *Open Forum Infectious Diseases*. Volume 7, Issue Supplement 1, October 2020

35. **Wilke BK MD**, Shultz DS MD, Huayllani MT MD, Boczar D MD, Spaulding AC PhD, Sherman C MD, Murray PM MD, Forte AJ MD PhD. Intraoperative Indocyanine Green Fluorescence Angiography is Sensitive for Predicting Postoperative Wound Complications in Soft Tissue Sarcoma Surgery. *JAAOS* 2020 Sept 17
36. Pelkowski JN DNP, **Wilke BK MD**, Crowe MM MD, Sherman CE MD, Ortiguera CJ MD, Ledford CK MD. Robotic- Assisted versus Manual Total Knee Arthroplasty in a Crossover Cohort: What Did Patients Prefer? *Surgical Technology International* 2020 Sep 7;37
37. Wellings EP MD, Wagner ER MD, **Wilke BK MD**, Asante D MD, Sangaralingham LR MD, Rose PS MD, Moran SL MD, Houdek MT MD. What are Predictors of Emergency Department Utilization and Readmission Following Extremity Bone Sarcoma Resection? *Journal of Surgical Oncology* 2020 Aug 13
38. Rhea EB MD, Iman DJ DO, **Wilke BK MD**, Sherman CE MD, Ledford CK MD, Blasser KE MD. A Crossover Cohort of Direct Anterior Versus Posterolateral Approach in Primary Total Hip Arthroplasty: What Does the Patient Prefer? *Arthroplasty Today* 2020 Sep 8;6(4):792-795
39. **Wilke BK MD**. Medicaid Expansion: Is there a Storm Brewing? Commentary and Perspective on "Unmet Need for Total Joint Arthroplasty in Medicaid Beneficiaries after Affordable Care Act Expansion". *Journal of Bone and Joint Surgery* 2020 Sep 2;102(17)
40. Rasmussen L MD, Bell J MD, Kumar A MD, Heckman MG MS, Lesser ER MS, Whalen JL MD, Shi GG MD, Ledford CK MD, **Wilke BK MD**. A Retrospective Review of Native Septic Arthritis in Patients: Can We Diagnose Based on Laboratory Values? *Cureus* 2020 June.
41. Guier C, Shi GG MD, Ledford CK MD, Taunton MJ MD, Heckman MG MS, **Wilke BK MD** Primary Total Hip Arthroplasty in Ehlers Danlos Patients: A Retrospective Matched-Cohort Study *Arthroplasty Today* 2020 June 16th
42. Bell J MD; Rasmussen L MD; Kumar A MD; Heckman MG MS; Lesser ER MS; Whalen J MD; Shi GG MD; **Wilke BK MB**. Septic Arthritis in Immunosuppressed Patients: Do Laboratory Values Help? *JAAOS Global Research and Reviews* 2020 Mar 17
43. Cooper AR, **Wilke BK**, Scarborough MT, Gibbs CP, Spiguel AR. Pediatric Sarcoma Patients have worse Physical Function but better Peer Relationships and Depressive symptoms than the U.S. general pediatric population as measured by PROMIS. *Cureus* 2020, February 19th
44. Reif T MD, Schoch B MD, Spiguel A MD, Wright T MD, Sanchez-Sotelo J MD, PhD, **Wilke BK MD**. A Retrospective Review of Revision Proximal Humeral Allograft Prosthetic Composites Procedures: An Analysis of Proximal Humeral Bone Stock Restoration. *Journal of Shoulder and Elbow Surgery* 2020 Feb 12th.
45. Dent PA, **Wilke BK MD**, Terkonda S MD, Luther I DPT, Shi GG MD. Validation of Teleconference-based Goniometry for Measuring Elbow Joint Range of Motion. *Cureus* 2020, February 9th.
46. Shi GG, Schultz DS, Whalen J, Clendenen S, **Wilke BK**. Midterm Outcomes of Ultrasound-guided Local Treatment for Infrapatellar Saphenous Neuroma Following Total Knee Arthroplasty. *Cureus* 2020, January 4th.

47. Huayllani MT, Restrepo DJ, Boczar D, Sisti A, Spaulding AC, Parker AS, Manrique OJ, Lu X, **Wilke BK**, Forte AJ. What Factors Define Limb Salvage or Amputation Surgery in Osteosarcoma of the Upper Extremities? *Anticancer research journal* 2019 Dec.
48. James, N MD; Kumar A MD; **Wilke BK MD**; Shi GG MD. Incidence of Encountering the Infrapatellar Nerve Branch of the Saphenous Nerve During a Midline Approach for Total Knee Arthroplasty. *JAAOS Global Research and Reviews* 2019. Dec 12th.
49. Taliaferro J MD, Shapiro SA MD, Montero DP MD, Shi GG, MD, **Wilke BK MD**. For Profit Stem-Cell Clinics: The Modern-Day Snake Oil Salesman? Two Cases of Patients Harmed by Intra-Articular Stem Cell Injections. *JBJS Case Connector* 2019 Dec 9th.
50. Foster D, Shi GG MD, Lesser ER MS, Heckman MG MS, Whalen JL MD, Forte AJ MD PhD MS, **Wilke BK MD**. A Prospective, Blinded Study Comparing In-Hospital Postoperative Pain Scores Reported by Patients to Nurses versus Physicians. *Cureus* 2019, November 11th
51. Shi GG MD, Kumar A MD, Williams MA PA-C, **Wilke BK MD**, Whalen JL MD PhD, Kraus J MD. Early Outcomes Following Dorsal Denervation of the Midfoot for Management of Arthritic Pain. *Foot & Ankle Orthopaedics*. October 28th, 2019
52. Foster D, Williams J MD, Forte AJ MD, Lesser ER MS, Heckman MG MS, Shi GG MD, Whalen JL MD, **Wilke BK MD**. Application of Ice for Postoperative Total Knee Incisions – Does this Make Sense? A Pilot Evaluation of Blood Flow Using Fluorescence Angiography. *Cureus*. 2019, July 11th
53. Post J, Houdek M, Folpe A, Kakar S, **Wilke BK**. A Retrospective Case Series of Synovial Sarcoma of the Upper Extremity *Sarcoma*. 2019. August 1st
54. Glenn G. Shi MD, Meredith A. Williams, PA-C, Joseph L. Whalen, MD, PhD, **Benjamin K. Wilke, MD**, and Jonathan C. Kraus, MD. An Anatomic and Clinical Study of the Innervation of the Dorsal Midfoot Capsule. *Foot and Ankle International*. 2019 Jul 23rd
55. **Wilke BK**, Foster D, Roberts C, Shi GG, Lesser ER, Heckman MG, Whalen JL, Clendenen SR. Early In-Hospital Pain Control is a Stronger Predictor for Patients Requiring a Refill of Narcotic Pain Medication Compared to the Amount of Narcotics Given at Discharge. *The Journal of Arthroplasty* 2019 Jul;34(7):1354-1358
56. Roberts C, Foster D, Shi GG, Lesser ER, Heckman MG, Whalen JL, Clendenen SR, **Wilke BK**. A Collaborative Approach to Pain Control Reduces In-Hospital Opioid Use and Improves Range of Motion following Total Knee Arthroplasty. *Cureus*. 2019 May 16;11(5):e4678
57. Garner HW, **Wilke BK**, Fritchie K, Bestic JM. Epithelioid Schwannoma: Imaging Findings on Radiographs, MRI, and Ultrasound. *Skeletal Radiology*, March 22, 2019
58. **Wilke BK**, Cooper AR, Scarborough MT, Gibbs CP, Spiguel AR. Evaluation of Planned versus Unplanned Soft-Tissue Sarcoma Resection using PROMIS Measures. *Sarcoma*. 2019. March 5

59. **Wilke BK**, Cooper A, Scarborough MT, Gibbs CP, Spiguel A. An Evaluation of PROMIS Health Domains in Sarcoma Patients Compared to the United States Population. *Sarcoma*. 2019. Jan. 16
60. **Wilke B**, Cooper A, Scarborough M, Gibbs CP, Spiguel A. A Comparison of Limb Salvage versus Amputation for Non-Metastatic Sarcomas using PROMIS Outcomes. *JAAOS* October 23, 2018
61. **Wilke BK**, Houdek MT, Rose PS, Sim FH. Proximal Femoral Allograft Prosthetic Composites; Do they Really Restore Bone? A Retrospective Review of Revision Allograft Prosthetic Composites. *The Journal of Arthroplasty* 2018 Oct. 24
62. Tibbo ME, Wyles CC, Houdek MT, **Wilke BK**. Outcomes of Primary Total Knee Arthroplasty in Patients with Ehlers-Danlos. *The Journal of Arthroplasty* 2018 Sep 27.
63. **Wilke B**, Cooper A, Gibbs P, Scarborough M, Spiguel A. Long-Term Functional Outcomes of Distal Femoral Replacements Compared to Geographic Resections for Parosteal Osteosarcomas of the Distal Femur. *Iowa Orthopedic Journal* 2018;38:177-181
64. **Wilke B**, Cooper A, Gibbs P, Scarborough M, Spiguel A. The Reverse-Reamed Intercalary Allograft: A Surgical Technique. *JAAOS*. 2018 Jul15;26(14): 501-505
65. Houdek MT, Walczak BE, **Wilke BK**, Kakar S, Rose PS, Shin AY. What Factors Influence the Outcome of Surgically Treated Soft Tissue Sarcomas of the Hand and Wrist? *Hand*. 2017 Sep;12(5):493-500
66. SRW Nurkic, **B Wilke**, Z Li, X Shen, MW Ho, DJ Indelicato, CP Gibbs, A Spiguel, M Scarborough, RA Zlotecki, MS Rutenberg. Pencil Beam Scanning Proton Radiation Therapy Reduces Dose to the Planned Surgical Skin Flap and Uninvolved Bone in Preoperative Radiation Therapy for Soft Tissue Sarcomas of the Lower Extremity. *International Journal of Radiation Oncology*. V.99, Issue 2. October 01, 2017
67. **Wilke B**, Houdek M, Rameshwar R, Caird M, Larson N, Milbrandt T. Treatment of Unicameral Bone Cysts of the Proximal Femur with Internal Fixation Lessens the Risk of Additional Surgery. *Orthopaedics*. 2017. Sep 1:40(5):e862-e867
68. Houdek MT, Wagner ER, **Wilke BK**, Wyles CC, Taunton MJ, Sim FH. Long Term Outcomes of Cemented Endoprosthetic Reconstruction for Periarticular Tumors of the Distal Femur. *Knee*. 2016 Jan;23(1):167-72.
69. Houdek MT, Wagner ER, **Wilke BK**, Wyles CC, Taunton MJ, Sim FH. Late Complications and Long-term Outcomes Following Aseptic Revision of a Hip Arthroplasty Performed for Oncological Resection. *Hip International*. 2015 Sep-Oct;25(5):428-34.
70. **Wilke BK**, Wagner ER, Trousdale RT. Long-Term Survival of a Semi-Constrained Implant Following Revision for Infection. *Journal of Arthroplasty*. 2015 May;30(5):808-12.
71. **Wilke BK**, Wagner ER, Trousdale RT. Long-Term Survival of Semi-Constrained Total Knee Arthroplasty For Revision Surgery. *Journal of Arthroplasty*. 2014 May;29(5):1005-1008

72. Sebastian AS, **Wilke BK**, Taunton MJ, Trousdale RT. Femoral Bow Predicts Postoperative Malalignment in Revision Total Knee Arthroplasty. *Journal of Arthroplasty*. 2014 Aug;29(8):1605-9
73. Houdek MT, **Wilke BK**, Ryssman DB, Turner NS. Radiographic and Functional Outcomes Following Bilateral Ankle Arthrodesis. *Foot and Ankle International*. 2014 Dec;35(12):1250-4.
74. **Wilke B**, Kakar S. Delayed Avascular Necrosis and Fragmentation of the Lunate following Perilunate Dislocation. *Orthopedics* 2014.

Books & Chapters

1. Goulding K MD; **Wilke BK MD**; Kiernan HC BS; Houdek MT MD; Sherman CE MD. Skeletal Sarcomas: Diagnosis, Treatment, and Follow-up from the Orthopedic Oncologist Perspective. *Radiology Clinics of North America* 2022 Mar, 60 (2): 193-203
2. **Wilke BK MD**, Goulding K MD, Sherman CE MD, Houdek MT MD. Soft Tissue Tumors: Diagnosis, Treatment, and Follow-up from the Orthopedic Oncologist Perspective. *Radiology Clinics of North America*. 2022 Mar, 60 (2):253-262
3. Mallet KE MD, **Wilke BK MD**, Houdek MT MD. Proximal Tibia Allograft Prosthetic Composite. In: *Orthopedic Onco-surgery: Approach to Bone and Soft Tissue Tumors*. (in press)
4. Schoch B, Wright T, **Wilke BK**. Tumors of the Shoulder. In: Matsen F, Cordasco F, Sperling J, eds. *Rockwood and Matsen's The Shoulder*. 6th ed. Philadelphia, PA: Elsevier, 2021
5. **Wilke B**, Kakar S, Murray P, "Benign and Malignant Neoplasms of the Upper Extremity". In Trumble TE, Rayan GM, Budoff JE, Baratz ME [eds], *Principles of Hand Surgery and Therapy*. Philadelphia: Elsevier, 2017.
6. **Wilke BK**, Wenger D, Kakar S. Common cartilage tumors: benign. In Kakar S, Jebson PJ, Athanasian E, Murray P. *Tumors of the Hand & Upper Extremity*. Chicago, IL: American Society for Surgery of the Hand, 2015. eBook.

Articles in Submission

1. **Wilke BK MD**, Choudhury P MBBS, Baranek ME BS, Garner HW MD, Iturregui J MD, Stanborough RO MD, Sebro RA MD PhD. An Evaluation of Precision in Component Placement During the Early Learning Curve for the Direct Anterior Approach in Total Hip Arthroplasty.

Patents

1. Osseointegration System
Appl. No. 63/084,235
Filed: September 28th, 2020
2. Tissue-Friendly Enhanced Friction Surface for Surgical Retractors

Patient No. 11684353

Issued: 06/27/2023

Invited Presentations and Posters

“Development in Ambulatory Orthopedics: A Surgeon’s Perspective” 3rd European Symposium on Ambulatory Anesthesia and Analgesia. 2023.

“Direct Anterior Approach is Associated with Lower Dislocation Risk after Primary Total Hip Arthroplasty in Patients with Prior Lumbar Spine Fusion” Podium presentation at the Florida Orthopedic Society Annual Meeting, 2022.

“Masses of the Foot and Ankle – A Practical Approach to Unknown Masses for the Foot and Ankle Surgeon, and How to Stay Out of Trouble” Invited talk at the Florida Orthopedic Society Annual Meeting, 2022.

“Direct Anterior Approach is Associated with Lower Dislocation Risk after Primary Total Hip Arthroplasty in Patients with Prior Lumbar Spine Fusion” Podium presentation at the Southern Orthopedic Association Annual Meeting, 2022

“A Pilot Study of Intralesional Injection of Triamcinolone Acetonide for Desmoid Tumors: One Year Outcomes” Podium Presentation at the Southern Orthopedic Association Annual Meeting, 2022

“A Comparison of Precision in Total Hip Arthroplasty Component Placement Based on Surgical Approach” Podium Presentation at the Southern Orthopedic Association Annual Meeting, 2022

“A Survey of Personal Health Habits, Wellness, and Burnout in Practicing Orthopedic Surgeons – Are We Taking Care of Ourselves?” Poster presentation at the American Orthopedic Association (AOA) Annual Meeting, 2022.

“Metabolic Syndrome Increases the Risk of Reoperation after Primary Total Hip Arthroplasty.” Podium presentation at the AAOS annual meeting, 2022

“A Survey of Personal Health Habits, Wellness, and Burnout in Practicing Orthopedic Surgeons – Are We Taking Care of Ourselves?” Poster presentation at the AAOS annual meeting, 2022

“A Pilot Study of Intralesional Injection of Triamcinolone Acetonide for Desmoid Tumors: One Year Outcomes” Podium presentation at the AAOS annual meeting, 2022

“Updates in Orthopedic Oncology: Using Indocyanine Green Fluorescence Angiography to Decrease Wounds in Soft Tissue Sarcomas” Presented at Memorial Sloan Kettering. October 29th, 2021

“Updates in Orthopedic Oncology: Using Indocyanine Green Fluorescence Angiography to Decrease Wounds in Soft Tissue Sarcomas” Presented at the University of Iowa. May 26th, 2021

“Metabolic Syndrome Increases the Risk for Reoperation after Primary Total Hip Arthroplasty” Poster presentation at the American Academy of Hip and Knee Surgeons annual meeting, 2021.

“A Randomized Double-Blinded Placebo-Controlled Trial Comparing a Multimodal Pain Protocol With and Without Schedule II Narcotics Following Total Knee Arthroplasty”. Podium presentation at the AAOS annual meeting, 2021.

“A Pilot Study of Intralesional Injection of Triamcinolone Acetonide for Desmoid Tumors: One Year Outcomes”. Podium presentation at the MSTS annual meeting, 2021.

“Cost Variance in Soft Tissue Sarcoma Patients who Develop Postoperative Wound Complications”. Podium presentation at the MSTS annual meeting, 2021.

“Indications for DAIR, One-stage Revision, and Two-stage Revision in PJI” Presentation at ArthroChile Meeting, 2021

“Total Knee Arthroplasty with and without Opioids: A Randomized, Double-Blinded Controlled Trial” Podium Presentation at the Mayo Clinic House of Surgery Meeting, 2020

“Are all Wound Classes the Same? A Comparison of Interobserver Reliability between Orthopedic Surgeons and Infectious Disease Specialists using the Center for Disease Control Wound Class Definitions” Poster Presentation at the Mayo Clinic House of Surgery Meeting, 2020

“Outcomes Between the Direct Anterior and Alternative Approaches for Acute Femoral Neck Fractures when Performed by Arthroplasty Surgeons” Poster Presentation at the Mayo Clinic House of Surgery Meeting, 2020

“Intraoperative Indocyanine Green Fluorescence Angiography Decreases Postoperative Wound Complications in Soft Tissue Sarcoma Surgery” Poster Presentation at the Mayo Clinic House of Surgery Meeting, 2020

“Incidence of Encountering the Infrapatellar Branch of the Saphenous Nerve During a Midline Approach for Total Knee Arthroplasty” Poster Presentation at the Orthopedic Trauma Association conference, 2020.

“Allograft Interposition Bone Graft for First Metatarsal Phalangeal Arthrodesis: Salvage after Bone Loss and Shortening of the First Ray” Poster Presentation at the American Orthopedic Foot and Ankle Society Meeting, 2020.

“Infrapatellar Saphenous Nerve is at Risk During Tibial Nailing: An Anatomic Study” Poster Presentation at the Orthopedic Trauma Association conference, 2020.

“Intraoperative Indocyanine Green Fluorescence Angiography Decreases Postoperative Wound Complications in Soft Tissue Sarcoma Surgery” Poster Presentation at the Musculoskeletal Tumor Society Meeting, 2020

“Intraoperative Indocyanine Green Fluorescence Angiography is Sensitive for Predicting Postoperative Wound Complications in Soft Tissue Sarcoma Surgery” Poster Presentation at the Musculoskeletal Tumor Society Meeting, 2020

“Incidence of Encountering the Infrapatellar Branch of the Saphenous Nerve During a Midline Approach for Total Knee Arthroplasty” Presentation at the American Academy of Orthopedic Surgeons conference, 2020.

“Early Outcomes Following Dorsal Denervation of the Midfoot for Management of Arthritic Pain” Presentation at the American Academy of Orthopedic Surgeons conference, 2020.

“Using Ice Around Postoperative Total Knee Incisions – Does This make Sense? An Evaluation of Blood Flow Using Fluorescence Angiography” Presentation at the American Academy of Orthopedic Surgeons conference, 2020.

“Orthopedic Emergencies” Presented at Mayo Clinic’s 4th Annual Inpatient Medicine for NPs and PAs: Hospital Medicine from Admission to Discharge. October 2019.

“Bone Preservation Following Revision Allograft Prosthetic Composite Reconstruction of the Proximal Humerus” Podium Presentation at the Musculoskeletal Tumor Society Meeting, October 2019.

“Pediatric Sarcoma Patients Have Worse Physical Function but Better Peer Relationships and Depressive Symptoms than the U.S. General Pediatric Population as Measured by PROMIS.” Podium Presentation at the Musculoskeletal Tumor Society Meeting, October 2019.

“Long-Term Functional Outcomes of Distal Femoral Replacements Compared to Geographic Resections for Parosteal Osteosarcomas of the Distal Femur” Poster Presentation at the International Society of Limb Salvage, September 2019.

“A Comparison of Limb Salvage versus Amputation for Non-Metastatic Sarcomas Using PROMIS Outcomes” Poster Presentation at the International Society of Limb Salvage, September 2019.

“Proximal Femoral Allograft Prosthetic Composites: Do They Really Restore Bone? A Retrospective Review of Revision Allograft Prosthetic Composites” Podium Presentation at the International Society of Limb Salvage, September 2019.

“A Comparison of Porous Tantalum Acetabular Implants versus Harrington Reconstruction for Metastatic Disease of the Acetabulum” Podium Presentation at the American Academy of Orthopedic Surgeons conference, March 2019.

“An Evaluation of PROMIS Health Domains in Sarcoma Patients Compared to the United States Population” Podium Presentation at the American Academy of Orthopedic Surgeons conference, March 2019.

“Outcomes of Primary Total Knee Arthroplasty in Patients with Ehlers-Danlos” Poster Presentation at the American Academy of Orthopedic Surgeons conference, March 2019

“Innervation of the Dorsal Midfoot Capsule: An Anatomic and Clinical Study” Poster Presentation at Orthopedics Now Annual Meeting, January 2019

“Does A Previous Allograft Restore Bone Stock in Revision Hip Arthroplasty?” Poster Presentation at the Musculoskeletal Tumor Society Annual Meeting, October 2018

“An Evaluation of PROMIS Health Domains in Sarcoma Patients Compared to the United States Population” Podium Presentation at the Musculoskeletal Tumor Society Annual Meeting, October 2018

“Lumps and Bumps, A Practical Approach to Unknown Masses” Podium Presentation at the Mayo Clinic Alumni Meeting, October 2017

“A Comparison of Limb Salvage versus Amputation for Non-Metastatic Sarcomas Using PROMIS Outcomes” Podium Presentation at the Musculoskeletal Tumor Society Annual Meeting, October 2017

“Reverse-Reamed Intercalary Allograft: A Surgical Technique” Podium Presentation at the Musculoskeletal Tumor Society Annual Meeting, October 2017

“Evaluation and Management of a Suspected Pathologic Fracture” Presentation at the Trauma Symposium at Baptist Hospital in Pensacola, FL September 2017

“Parosteal Osteosarcoma of the Distal Femur: Geographic Resection versus Endoprosthetic Reconstruction and Functional Outcomes Using the Musculoskeletal Tumor Society Scoring System” Poster Presentation at the International Society of Limb Salvage, May 2017

“Reverse-Reamed Intercalary Allograft: A Surgical Technique” Poster Presentation at the International Society of Limb Salvage, May 2017

“A Comparison of Limb Salvage versus Amputation for Non-Metastatic Sarcomas Using PROMIS Outcomes” Podium Presentation at the International Society of Limb Salvage, May 2017

“Long-Term Outcomes of Endoprosthetic Reconstruction Following Resection of Periarticular Tumors of the Knee” Poster presentation at the American Academy of Orthopedic Surgeons conference, March 2015

“Reverse Total Shoulder Allograft-Prosthetic Composite Reconstruction: A Viable Option for Massive Bone Loss” Poster presentation at the Musculoskeletal Tumor Society meeting, October 2014

“Long-Term Radiographic and Functional Outcomes Following Bilateral Ankle Arthrodesis” Presentation at the Mid-America Orthopedic Association conference, April 2014

“Revision Total Knee Arthroplasty in the Setting of Infection Using a Semi-Constrained Prosthesis” Poster presentation at the Mid-America Orthopedic Association conference, April 2014

“Femoral Bow Predicts Postoperative Malalignment in Revision Total Knee Arthroplasty” Poster presentation at the Mid-America Orthopedic Association conference, April 2014

“Long-Term Clinical and Functional Outcomes Following Bilateral Ankle Arthrodesis” Podium Presentation at the American Academy of Orthopedic Surgeons conference, March 2014

“Femoral Bow Predicts Postoperative Malalignment in Revision Total Knee Arthroplasty” Poster presentation at the American Academy of Orthopedic Surgeons conference, March 2014

“Intermediate Follow-Up of the Mobile Bearing TC III Revision Total Knee Arthroplasty” Poster presentation at the Mid-America Orthopedic Association conference, April 2013

“10 Year Survival of the Fixed-Bearing Total Condylar III Used in Revision Surgery” Podium presentation at the Mid-America Orthopedic Association conference, April 2013

Academic Service

Health System

Practice Optimization for Outpatient Total Joint Arthroplasty	2019
Opioid Task Group, Mayo Clinic Florida Campus	2018 - 2019
S.T.A.R.T. Taskforce at Mayo Clinic Florida Campus	2019

Professional Memberships and Activities

American Academy of Orthopedic Surgeons	2018
Musculoskeletal Tumor Society	201
American Medical Association Member	2007 - 2011
Reviewer for the Journal of Bone and Joint Surgery	2019