

Cody C. Wyles M.D.

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ACADEMIC APPOINTMENT AND EMPLOYMENT

Mayo Clinic Department of Orthopaedic Surgery, Rochester, MN
Senior Associate Consultant, 2022
Assistant Professor, 2022 – Present

Mayo Clinic Orthopedic Surgery Artificial Intelligence Laboratory (OSAIL), Rochester, MN
Director and Principal Investigator, 2022 – Present

Mayo Clinic Department of Orthopaedic Surgery, Rochester, MN
Mayo Clinic Scholar, 2021 – 2022

Mayo Clinic Department of Anatomy, Rochester, MN
Assistant Professor, 2019 – Present

EDUCATION & TRAINING

American Hip Society – British Hip Society Traveling Fellowship, United Kingdom
Complex Hip Reconstruction Traveling Fellow, 2022

OrthoCarolina Division of Adult Hip and Knee Reconstruction, Charlotte, NC
Adult Hip and Knee Reconstruction Fellow, 2021 – 2022

Mayo Clinic Department of Orthopaedic Surgery, Rochester, MN
Orthopedic Surgery Resident, 2016 – 2021

Mayo Clinic Graduate School, Rochester, MN
Master of Science, Orthopedics, 2017 – 2019

Mayo Medical School, Rochester, MN
Doctor of Medicine, 2011 – 2016

- Co-Valedictorian

Mayo Clinic Graduate School, Rochester, MN
Master of Science, Clinical and Translational Science, 2013 – 2016

University of Washington, Seattle, WA
Bachelor of Science in Neurobiology, 2005 – 2009

- Full College Honors from University Honors Program
- Phi Beta Kappa

- Cum Laude

INSTITUTIONAL POSITIONS

Mayo Clinic Orthopedic Research Executive Committee (OREC), Rochester, MN

Voting Executive Member, 2022 – Present

Orthopedic Surgery Artificial Intelligence and Registry Research Committee, Rochester, MN

Chairman, 2022 – Present

Orthopedic Surgery Basic Science Research Curriculum, Rochester, MN

Chairman, 2022 – Present

Orthopedic Research Review Committee (ORRC), Rochester, MN

Co-Chairman, 2023 – Present

Orthopedic Surgery Administrative Chief Resident

Mayo Clinic Department of Orthopedic Surgery

January – April 2021

Orthopedic Surgery and Anesthesia Surgical Improvement Strategy (OASIS)

Mayo Clinic Department of Orthopedic Surgery

Resident Member

2019 – Present

Orthopedic Research Committee

Mayo Clinic Department of Orthopedic Surgery

Resident Member

2018 – Present

Orthopedic Surgery Education Committee

Mayo Clinic Department of Orthopedic Surgery

Resident Member

2018 – Present

Orthopedic Research Review Committee

Mayo Clinic Department of Orthopedic Surgery

Resident Member

2018 – Present

AWARDS

International Research Awards

2023

Frank Stinchfield Hip Society Award – “Creation of a Patient-Specific Total Hip Arthroplasty Periprosthetic Fracture Risk Calculator”

- 2019 John Charnley Hip Society Award – “Increased PJI Risk Following Primary TKA and THA with Alternatives to Cefazolin: The Value of Allergy Testing for Antibiotic Prophylaxis”
- 2018 CORR® ORS Richard A. Brand Award for Outstanding Orthopaedic Research – “Osteonecrosis Risk Imparted by PPARG Genetic Variance and Pharmacologic Modulation”
- 2018 Chitranjan Ranawat Knee Society Award – “Developing and Implementing a Novel Guideline Strategy Reduced Postoperative Opioid Prescribing Following TKA and THA”
- 2016 John Charnley Hip Society Award – “The Missing Link: Re-Defining the Natural Progression of Osteoarthritis in Patients with Hip Dysplasia and Impingement”
- 2015 Chitranjan Ranawat Knee Society Award Winner – “Running Subcuticular Closure Enables the Most Robust Perfusion Following Total Knee Arthroplasty: A Randomized Clinical Trial With LA-ICGA”
- 2014 Hip Society Award 1st Runner-Up – “Myocardial Cobalt Levels Are Elevated in the Setting of Total Joint Arthroplasty”
- 2014 Knee Society Award Finalist – “All-Polyethylene Tibial Components: Infection and Survival Analysis Compared to Metal-Backed Counterparts”

Scientific Conference Awards

- 2023 Radiologic Society of North America (RSNA) Best Trainee Paper (Pouria Rouzrokh presented). “THA-AID: A Trustworthy Deep Learning Tool for Total Hip Arthroplasty Automatic Implant Detection with Uncertainty and Outlier Quantification.”
- 2023 Society for Imaging Informatics in Medicine (SIIM) Best Paper Presentation (Bardia Khosravi presented). “High-Fidelity Conditional Pelvis Radiograph Generation with Denoising Diffusion Probabilistic Models.”
- 2023 Society for Imaging Informatics in Medicine (SIIM) Best Poster Presentation (Linjun Yang presented). “Development of a Shoulder Radiography Registry Image Classifier.”
- 2023 Pediatric Orthopedic Society of North America (POSNA) Best Paper (Noelle Larson presented) – “Deep Learning Classification of Spinal Radiographs for use in Large Scale Imaging Registries”
- 2022 International Society of Limb Salvage Best Paper (Matt Houdek presented) – “Serum Metal Ion Concentrations in the Setting of an Oncologic Prosthesis: Is There Cause for Concern?”

- 2021 Current Concepts in Joint Replacement Best Hip Paper of the Past 2 Years – “Increased PJI Risk Following Primary TKA and THA with Alternatives to Cefazolin: The Value of Allergy Testing for Antibiotic Prophylaxis”
- 2021 Current Concepts in Joint Replacement Best Knee Paper of the Past 2 Years – “Quicker and More Predictable Return of Motor Function after Mepivacaine vs Bupivacaine Spinal Anesthesia: A Double Blinded RCT”
- 2021 Mid-America Orthopedic Association Best Poster Award – “Creation of a Patient Specific Total Hip Arthroplasty Dislocation Risk Calculator”
- 2021 Mid-America Orthopedic Association Education Grant
- 2019 Mid-America Orthopedic Association E.W. Johnson Physician in Training Award – “Quicker and More Predictable Return of Motor Function after Mepivacaine vs Bupivacaine Spinal Anesthesia: A Double Blinded RCT”
- 2019 American Association of Hip and Knee Surgeons Best Poster Award: Non-Arthroplasty Category – “Hitting the Target: Hip Natural History Based on Achieving an Acetabular Safe Zone Following Periacetabular Osteotomy.”
- 2019 International Cartilage Regeneration and Joint Preservation Society Young Investigator Award – “Revision and Repeat Revision Rates and the Potential Cost-Utility of Knee Preservation in Young Total Knee Arthroplasty Patients”
- 2019 Mid-America Orthopedic Association E.W. Johnson Physician in Training Award – “Increased PJI Risk Following Primary TKA and THA with Alternatives to Cefazolin: The Value of Allergy Testing for Antibiotic Prophylaxis”
- 2018 American Association of Hip and Knee Surgeons Best Poster Award: Complications Not Including Infection Clinical Category – “Cobalt Ion Release in Metal-on-Polyethylene Total Hip Arthroplasty: A Simulator Study with Cellular and Microbiological Correlations”
- 2018 American Association of Hip and Knee Surgeons Best Poster Award: Infection Clinical Category – “Increased PJI Risk Following Primary TKA and THA with Alternatives to Cefazolin: The Value of Allergy Testing for Antibiotic Prophylaxis”
- 2017 Mid-America Orthopedic Association E.W. Johnson, Jr., M.D. Physician in Training Award Winner – “Five-Year Natural History of Asymptomatic FAI: A Prospective Matched Cohort Study”
- 2017 American Association of Hip and Knee Surgeons Best Poster Award: Non-Arthroplasty Category – “Similar Outcomes Between Patients Managed with PAO Alone vs. PAO and Simultaneous Hip Arthroscopy for the Management of Developmental Dysplasia of the Hip.”

2017 American Association of Hip and Knee Surgeons Best Poster Award: Revision Arthroplasty Category – “Revision Total Joint Arthroplasty for Fracture: More Expensive, More Complications, Same DRG. A Local and National Cohort Study.”

Mayo Clinic Institutional Awards

2022 Mayo Clinic Young Investigators Research Symposium Best Clinical Outcomes Oral Presentation (Mentor of presenter John Rudolph Smith) – “Hip Decompression Combined with Bone Marrow Concentrate and Platelet-Rich Plasma for Corticosteroid-Induced Osteonecrosis of the Femoral Head: Mid-Term Update from a Prospective Study”

2021 Mark B. Coventry Clinical Research Award – “Redefining the 3D Topography of the Acetabular Safe Zone: A Multivariable Study Accounting for Approach and Spinal Pathology”

2021 Hamlet A. Peterson Award for Scholarly Writing – “Quicker and More Predictable Return of Motor Function after Mepivacaine vs Bupivacaine Spinal Anesthesia: A Double Blinded RCT”

2021 GOLD Quality Improvement Award – “Orthopedic Surgery and Anesthesiology Surgical Improvement Strategies Project”

2020 Hamlet A. Peterson Award for Scholarly Writing – “Hitting the Target: Hip Natural History Based on Achieving an Acetabular Safe Zone Following Periacetabular Osteotomy”

2020 Patrick J. Kelly Basic Science Research Award Finalist – “Cobalt Ion Release in Metal-on-Polyethylene and Ceramic-on-Polyethylene Total Hip Arthroplasty: A Simulator Study with Cellular and Microbiological Correlations”

2019 GOLD Quality Improvement Award – “Reducing overprescribing and variation in post-operative opioids following primary knee and hip arthroplasty”

2019 Mark B. Coventry Clinical Research Award – “Increased PJI Risk Following Primary TKA and THA with Alternatives to Cefazolin: The Value of Allergy Testing for Antibiotic Prophylaxis”

2018 Patrick J. Kelly Basic Science Research Award Winner – “Osteonecrosis Risk Imparted by PPAR γ Genetic Variance and Pharmacologic Modulation”

2018 Hamlet A. Peterson Award for Scholarly Writing – “Developing and Implementing a Novel Guideline Strategy Reduced Postoperative Opioid Prescribing Following TKA and THA”

2017 Mark B. Coventry Clinical Research Award – “Myocardial Cobalt Levels Are Elevated in the Setting of Total Hip Arthroplasty and Associated with Cardiac Pathology”

- 2017 Hamlet A. Peterson Award for Scholarly Writing (Co-Author) – “Allgöwer-Donati Versus Vertical Mattress Suture Technique Impact on Perfusion in Ankle Fracture Surgery: A Randomized Clinical Trial Using Intra-operative Angiography.”
- 2016 Mayo Clinic Center for Regenerative Medicine Clinical Trial Award – “Comparative Efficacy of Core Decompression Supplemented at the Point of Care with Stromal Vascular Fraction versus Bone Marrow Concentrate for Pre-collapse Femoral Head Osteonecrosis”
- 2016 Mayo Clinic Center for Individualized Medicine Clinomics Award for Sequencing of Families with Hereditary Disorders – “NexGen Sequencing for a Family with Multigenerational Femoroacetabular Impingement”
- 2016 Patrick J. Kelly Basic Science Research Award Finalist – “Adipose-derived Mesenchymal Stem Cells Are Phenotypically Superior for Regeneration in Osteonecrosis”
- 2014 Inaugural Winner of Thomas and Edna Gattle Scholarship in Surgical Research at Mayo Medical School
- 2014 Best Clinical Paper: Mayo Clinic Young Investigators Research Symposium – “Differential Cytotoxicity of Corticosteroids on Mesenchymal Stem Cells”

Mayo Medical School Academic Awards

- 2016 Co-Valedictorian
- 2011 – 2016 Dr. Alfred & Rita Godward Academic Merit Scholarship
- 2011 – 2016 Glenn R. & Dorothy J. McGown Academic Merit Scholarship
- 2011 – 2016 Paul A. & Ruth M. Schilling Academic Merit Scholarship
- 2011 – 2016 H.J. Philips Memorial Academic Merit Scholarship
- 2011 Mayo Clinic College of Medicine Bronze Mayo Quality Fellow

University of Washington Institutional Awards

- 2009 University of Washington Honors College Graduate – Full College Honors
- 2009 University of Washington Cum Laude Graduate
- 2008 University of Washington Phi Beta Kappa Inductee
- 2005 – 2009 Dean's List Eleven Times – University of Washington

- 2008 UW Alumni Association Regional Scholar
- 2006 University of Washington Department of Genetics Undergraduate Scholar – First underclassman winner in school history
- 2005 – 2006 University of Washington Student Residence Hall Leadership Council
- 2005 Washington Scholar – Four-year full-tuition college scholarship as top student from Yakima County

Athletic Awards

- 2007 Lake Sammamish Team Triathlon Champion
- 2005 Washington State Basketball All-State Selection
- 2004 – 2005 Washington State Track and Field All-State Selection
- 2004 Washington State Cross-Country All-State Selection
- 2002 – 2005 12 High School Varsity Letters (Cross-country, Basketball, Track and Field)
- 2002 Black Belt – Shutokan Karate

PEER-REVIEWED ARTICLES

H-Index: 32 **i10-Index: 72** **Citations: 23,162** **As of 10/15/2023**

1. **Wyles CC**, Maradit Kremers H, Fruth KM, Larson DR, Khosravi B, Rouzrokh P, Johnson QJ, Berry DJ, Sierra RJ, Taunton MJ, Abdel MP. Creation of a Patient-Specific Total Hip Arthroplasty Periprosthetic Fracture Risk Calculator. Hip Society Frank Stinchfield Scientific Award. 2023. Accepted at *Journal of Arthroplasty*.
2. **Wyles CC**, Paradise CR, Houdek MT, Slager SL, van Wijnen AJ, Terzic A, Behfar A, Sierra RJ. CORR® ORS Richard A. Brand Award for Outstanding Orthopaedic Research. Osteonecrosis Risk Imparted by PPARG Genetic Variance and Pharmacologic Modulation. 2018. Accepted at *Clinical Orthopedics and Related Research*.
3. **Wyles CC**, Hevesi M, Osmon DR, Park MA, Habermann EB, Lewallen DG, Berry DJ, Sierra RJ. The John Charnley Award: Increased PJI Risk Following Primary TKA and THA with Alternatives to Cefazolin: The Value of Allergy Testing for Antibiotic Prophylaxis. 2019. Accepted at *Bone and Joint Journal*.

4. **Wyles CC**, Wright TC, Bois MC, Amin MS, Fayyaz A, Jenkins SM, Wyles SP, Day PL, Murray DL, Trousdale RT, Anavekar NS, Edwards WD, Maleszewski JJ. Myocardial Cobalt Levels Are Elevated In The Setting of Total Joint Arthroplasty. *Journal of Bone and Joint Surgery*. 2017. PMID: 29135673.
5. **Wyles CC**, Jacobson SR, Houdek MT, Larson DR, Taunton MJ, Sim FH, Sierra RJ, Trousdale RT. The Chitranjan Ranawat Award: Running Subcuticular Closure Enables The Most Robust Perfusion Following Total Knee Arthroplasty: A Randomized Clinical Trial With LA-ICGA. *Clinical Orthopedics and Related Research*. 2015. PMID: 25733009.
6. **Wyles CC**, Heidenreich MJ, Jeng J, Trousdale RT, Sierra RJ. The 2016 John Charnley Hip Society Award: Redefining the Natural History of Osteoarthritis in Patients with Hip Dysplasia and Impingement. *Clinical Orthopedics and Related Research*. 2017. PMID: 27071391.
7. **Wyles CC**, Hevesi M, Trousdale ER, Ubl DS, Gazelka HM, Habermann EB, Trousdale RT, Pagnano MW, Mabry TM. The Chitranjan Ranawat Award: Developing and Implementing a Novel Guideline Strategy Reduced Postoperative Opioid Prescribing Following TKA and THA. 2017. Accepted at *Clinical Orthopedics and Related Research*.
8. **Wyles CC**, Jacobson SR, Houdek MT, Larson DR, Taunton MJ, Sim FH, Sierra RJ, Trousdale RT. Response to the Letter to the Editor: The Chitranjan Ranawat Award: Running Subcuticular Closure Enables The Most Robust Perfusion Following Total Knee Arthroplasty: A Randomized Clinical Trial With LA-ICGA. *Clinical Orthopedics and Related Research*. 2017. PMID: 28681352.
9. **Wyles CC**, Vargas JS, Heidenreich MJ, Mara KC, Peters CL, Clohisy JC, Trousdale RT, Sierra RJ. Natural History of the Dysplastic Hip Following Modern Periacetabular Osteotomy. 2019. Accepted at *Journal of Bone and Joint Surgery*.
10. **Wyles CC**, Tibbo ME, Fu S, Wang Y, Sohn S, Kremers WK, Berry DJ, Lewallen DG, Maradit-Kremers H. Use of Natural Language Processing Algorithms to Identify Common Elements in Operative Notes for Total Hip Arthroplasty. 2019. Accepted at *Journal of Bone and Joint Surgery*.
11. **Wyles CC**, Tibbo ME, Mara KC, Yuan BJ, Trousdale RT, Abdel MP. Long-Term Results After Total Knee Arthroplasty with 144 Distal Femoral Replacements. Accepted at *Journal of Bone and Joint Surgery*.
12. **Wyles CC**, Pagnano MW, Perry KI, Taunton MJ, Trousdale RT, Sierra RJ, Smith HS, Duncan C, Abdel MP. Quicker and More Predictable Return of Motor Function and Ambulation after Mepivacaine vs Bupivacaine Spinal: A Double Blind RCT in Primary TKA and THA. Accepted at *Journal of Bone and Joint Surgery*.
13. **Wyles CC**, Houdek MT, Crespo-Diaz R, Norambuena GA, Terzic A, Behfar A, Sierra RJ. Adipose-derived Mesenchymal Stem Cells are Phenotypically Superior for Regeneration in the Setting of Osteonecrosis. *Clinical Orthopedics and Related Research*. 2015. PMID: 26070774.

14. **Wyles CC**, Norambuena GA, Yuan BJ, Larson DR, Howe BM, Levy BA, Trousdale RT, Sierra RJ. Cam Morphology and Limited Hip Range of Motion is Associated with Early Osteoarthritic Changes in Adolescent Athletes: A Prospective Matched Cohort Study. Accepted at *American Journal of Sports Medicine*.
15. **Wyles CC**, Van Demark RE, 3rd, Sierra RJ, Trousdale RT. High Rate of Infection After Aseptic Revision of Failed Metal-on-Metal Total Hip Arthroplasty. *Clinical Orthopaedics and Related Research – Hip Society Proceedings*. 2013 Jul 12. PMID: 23846604.
16. **Wyles CC**, Carlson SW, Vargas JS, Carlson BC, Sierra RJ. Single-Dose Perioperative Antibiotics Do Not Increase the Risk of Surgical Site Infection in Unicompartmental Knee Arthroplasty. 2019. Accepted at *Journal of Arthroplasty*.
17. **Wyles CC**, Larson DR, Houdek MT, Sierra RJ, Trousdale RT. Utility of Synovial Fluid Aspirations in Failed Metal-on-Metal Total Hip Arthroplasty. *Journal of Arthroplasty*. 2013 May;28(5):818-23 PMID: 23499404.
18. **Wyles CC**, Houdek MT, Wyles SP, Wagner ER, Behfar A, Sierra RJ. Differential Cytotoxicity of Corticosteroids on Human Mesenchymal Stem Cells. *Clinical Orthopedics and Related Research*. 2014. PMID: 25187334.
19. **Wyles CC**, Taunton MJ, Jacobson SR, Tran NV, Sierra RJ, Trousdale RT. Intraoperative Angiography Provides Objective Assessment of Skin Perfusion in Complex Knee Reconstruction. *Clinical Orthopedics and Related Research – Knee Society Proceedings*. 2014. PMID: 25005480.
20. **Wyles CC**, Jimenez-Almonte JA, Murad MH, Norambuena GA, Cabanela MC, Sierra RJ, Trousdale RT. There Are No Differences In Short- To Midterm Survivorship Among Total Hip-bearing Surface Options: A Network Meta-Analysis. *Clinical Orthopedics and Related Research*. 2014. PMID: 25516002.
21. **Wyles CC**, McArthur BA, Wagner ER, Houdek MT, Jimenez-Almonte JA, Trousdale RT. Ceramic Femoral Heads For All Patients: An Argument For Cost-Containment In Hip Surgery. 2017. *American Journal of Orthopedics*. PMID: 27737298.
22. **Wyles CC**, Robinson WA, Houdek MT, Maradit-Kremers H, Mabry TM, Trousdale RT. Cost and Patient Outcomes Associated with Bilateral TKA Performed by Two-Surgeon Teams versus a Single-Surgeon. 2018. *Journal of Arthroplasty*. PMID: 30661905.
23. **Wyles CC**, Hevesi M, Bartels DW, Larson, DR, Sierra RJ, Trousdale RT. Arthroscopy and Arthrotomy to Address Intraarticular Pathology During PAO for Hip Dysplasia Demonstrates Similar Short-Term Outcomes. 2018. Accepted at *Journal of Hip Preservation Surgery*.
24. **Wyles CC***, Houdek MT*, Labott JR, Taunton MJ, Sim FH. Durability of Hemiarthroplasty for Pathologic Proximal Femur Fractures. 2017. *Journal of Arthroplasty*. PMID: 28735800.
25. **Wyles CC***, Norambuena GA, Van Demark III RE, Trousdale RT. Effect of Dislocation Timing Following Primary THA on the Risk of Redislocation and Revision. 2018. Accepted at *Hip International*.

26. **Wyles CC** and Leopold SS. Editor's Spotlight/Take 5: Adipose-derived Mesenchymal Stem Cells are Phenotypically Superior for Regeneration in the Setting of Osteonecrosis. *Clinical Orthopaedics and Related Research*. 2015. PMID: 26155770.
27. **Wyles CC**, Houdek MT, Sierra RJ. Mesenchymal Stem Cell Therapy for Osteoarthritis: Current Perspectives. *Stem Cells and Cloning: Advances and Perspectives*. 2015. PMID: 26357483.
28. **Wyles CC**, Panos JA, Houdek MT, Berry DJ, Trousdale RT, Taunton MJ. Total Hip Arthroplasty in Patients with Spondyloepiphyseal Dysplasia: A Long-Term Outcome Study of 50 Cases. 2018. *Journal of Arthroplasty*. PMID: 30528131.
29. **Wyles CC**, Lachman N, Maldonado AA, Wagner ER, Houdek MT, Spinner RJ. Proposed surgical technique to facilitate targeted reinnervation of the infraspinatus: A cadaveric feasibility study. 2018. Accepted at *Clinical Anatomy*.
30. **Wyles, CC**, Statz JM, Chalmers BP, Hevesi M, Sierra RJ, Trousdale RT. Incidence and Risk Factors for Hardware Removal Following Periacetabular Osteotomy and its Association with Clinical Outcomes. Accepted at *Hip International*.
31. **Wyles CC** and Abdel MP. Point/Counter Point: Non-Articulating Vs Articulating Spacers Articulating Spacers for Resection Arthroplasty of the Knee or Hip. Accepted at the *Journal of Arthroplasty*.
32. **Wyles CC**, Paradise CR, Masters T, Patel R, van Wijnen AJ, Abdel MP, Trousdale RT, Sierra RJ. Cobalt Ion Release in Metal-on-Polyethylene and Ceramic-on-Polyethylene Total Hip Arthroplasty: A Simulator Study with Cellular and Microbiological Correlations. Accepted at the *Journal of Arthroplasty*.
33. **Wyles CC**, Paradise CR, Masters T, Patel R, van Wijnen AJ, Abdel MP, Trousdale RT, Sierra RJ. Reply to the Letter to the Editor: Cobalt Ion Release in Metal-on-Polyethylene and Ceramic-on-Polyethylene Total Hip Arthroplasty: A Simulator Study with Cellular and Microbiological Correlations. Accepted at the *Journal of Arthroplasty*.
34. **Wyles CC**, Hevesi M, Ubl DS, Gazelka HM, Trousdale RT, Pagnano MW, Habermann EB, Mabry TM. Implementation of Procedure-Specific Opioid Guidelines: A Facile Strategy to Improve Consistency and Decrease Excess Prescribing Following Orthopedic Surgery. 2020. Accepted at the *Journal of Bone and Joint Surgery – Open Access*.
35. **Wyles CC**, Vargas JS, Heidenreich MJ, Peters CL, Clohisy JC, Sierra RJ, Trousdale RT. Hitting the Target: Hip Natural History Based on Achieving an Acetabular Safe Zone Following Periacetabular Osteotomy. 2020. Accepted at the *Journal of Bone and Joint Surgery*.
36. **Wyles CC**, Smith HM, Amundson AW, Duncan CM, Niesen AD, Ingalls LA, Zavaleta KW, VanDeVoorde RA, Ryan JL, Sanchez-Sotelo J, Taunton MJ, Perry KI, Mabry TM, Abdel MP. Orthopedic Surgery Anesthesiology Surgical Improvement Strategies (OASIS) Project Phase I Outcomes. 2020. Accepted at the *Journal of Arthroplasty*.

37. **Wyles CC**, Thiels CA, Hevesi M, Ubl DS, Gazelka HM, Turner III NS, Trousdale RT, Pagnano MW, Mabry TM, Habermann EB. Patient Opioid Requirements Are Often Far Less Than Their Discharge Prescription Following Orthopedic Surgery: Results of a Prospective Multicenter Survey. Accepted at the *Journal of the American Academy of Orthopedic Surgeons*.
38. **Wyles CC**, Kolz JM, Van Citters DW, Abdel MP, Berry DJ, Trousdale RT. In Vivo Corrosion of Sleeved Ceramic Femoral Head Implants: A Retrieval Study. 2020. Accepted at *Journal of Arthroplasty*.
39. **Wyles CC**, MP Abdel, Amundson AW, Duncan CM, Pepper MB, Ingalls LA, Zavaleta KW, Smith SK, Ryan JL, Taunton MJ, Perry KI, Smith HM. Orthopedic Surgery Anesthesiology Surgical Improvement Strategies (OASIS) Project Phase II Outcomes. 2020. Accepted at the *Journal of Arthroplasty*.
40. **Wyles CC**, Hevesi M, Rouzrokh P, Erickson BJ, Maradit-Kremers H, Lewallen DG, Taunton MJ, Trousdale RT, Berry DJ. Redefining the 3D Topography of the Acetabular Safe Zone: A Multivariable Study Accounting for Approach and Spinal Pathology. 2021. Accepted at *Journal of Bone and Joint Surgery*.
41. **Wyles CC**, Hannon CP, Viste A, Perry KI, Trousdale RT, Berry DJ, Abdel MP. Essential Surgical Techniques: Extended Trochanteric Osteotomy (ETO) in Revision Total Hip Arthroplasty. 2023. Accepted at *Journal of Bone and Joint Surgery: Essential Surgical Techniques*.
42. **Wyles CC**. CORR Insights®: Is the Preoperative Use of Antidepressants and Benzodiazepines Associated with Opioid and Other Analgesic Use after Hip and Knee Arthroplasty? 2021. Accepted at *Clinical Orthopaedics and Related Research*.
43. **Wyles CC**. Osteonecrosis of the Femoral Head: Understanding Disease Pathogenesis and Regenerative Therapeutic Potential Through Genetic and Mesenchymal Stem Cell Analytics. Master's Degree Thesis in Clinical and Translational Science, Mayo School of Graduate Medical Education. March 2016.
44. **Wyles CC**. Osteonecrosis Risk Imparted by PPARG Genetic Variance and Pharmacologic Modulation. Master's Degree Thesis in Orthopedic Science, Mayo School of Graduate Medical Education. March 2019.
45. **Wyles CC** and Curtin BM. One-Stage Treatment of Prosthetic Joint Infection. 2021. Accepted at *Journal of Surgical Orthopaedic Advances*.
46. **Wyles CC**, Maradit Kremer H, Lewallen DG, Berry DJ, Taunton MJ, Pagnano MW, Trousdale RT, Sierra RJ. Creation of a Patient-Specific Total Hip Arthroplasty Dislocation Risk Calculator. 2021. Accepted at *Journal of Bone and Joint Surgery*.
47. **Wyles CC**, Rouzrokh P, Kurian SJ, Ramazanian T, Cai JC, Huang Q, Zhang K, Taunton MJ, Maradit Kremers H, Erickson BJ. Deep Learning Tool for Accurate and Precise Automatic Measurement of Femoral Component Subsidence Following Total Hip Arthroplasty from Plain Radiographs. 2022. Accepted at *Radiology: Artificial Intelligence*.

48. **Wyles CC**, Fu S, Odum SL, Rowe T, Habet NA, Berry DJ, Lewallen DG, Maradit-Kremers H, Sohn S, Springer BD. External Validation of Natural Language Processing Algorithms to Extract Common Data Elements in THA Operative Notes. 2022. Accepted at *Journal of Arthroplasty*.
49. Houghton DE, **Wyles CC**. CRISTAL clear results: Enoxaparin or aspirin for venous thromboembolism prevention after hip and knee arthroplasties. 2022. Accepted at *The Hematologist*.
50. Rouzrohk P, **Wyles CC**, Ramazanian T, Philbrick K, Taunton MJ, Maradit-Kremers H, Erickson B. Deep Learning Radiograph Imaging Model for Prediction of Hip Dislocation Following Primary THA. 2020. Accepted at *Journal of Arthroplasty*.
51. Rouzrohk P, **Wyles CC**, Ramazanian T, Philbrick K, Taunton MJ, Maradit-Kremers H, Erickson B. Deep Learning Tool for Automated Radiographic Measurement of Acetabular Component Inclination and Version Following Total Hip Arthroplasty. 2020. Accepted at *Journal of Arthroplasty*.
52. Harmer JR, **Wyles CC**, Larson DR, Taunton MJ, Pagnano MW, Abdel MP. Changing Surgical Approach From Index To Revision THA: No Increased Risk Of Dislocation or Revision. 2022. Accepted at *Journal of Arthroplasty*.
53. Abdel MP, **Wyles CC**, Viste A, Perry KI, Trousdale RT, Berry DJ. Extended Trochanteric Osteotomy (ETO) in Revision Total Hip Arthroplasty: Contemporary Outcomes of 612 Cases. 2020. *Journal of Bone and Joint Surgery*.
54. Panos JA, **Wyles CC**, Gutierrez CN, Mara KC, Bingham JS, Trousdale RT, Sierra RJ. Addressing intraarticular pathology at the time of anteverting periacetabular osteotomy for acetabular retroversion is associated with better short-term patient reported outcomes. 2021. *Journal of Hip Preservation Surgery*.
55. Houdek MT, **Wyles CC**, Smith JR, Terzic A, Behfar A, Sierra RJ. Hip Decompression Combined with Bone Marrow Concentrate and Platelet-Rich Plasma for Corticosteroid-Induced Osteonecrosis of the Femoral Head: Mid-Term Update from a Prospective Study. *Bone and Joint Open*. 2021.
56. Limberg AK, **Wyles CC**, Taunton MJ, Hanssen AD, Pagnano MW, Abdel MP. Varus-Valgus Constrained Insert with Posterior-Stabilized Femoral Components in Complex Primary TKAs. *Bone and Joint Open*. 2021.
57. Houdek MT, **Wyles CC**, Collins MS, Howe BM, Terzic A, Behfar A, Sierra RJ. Stem Cells Combined with PRP Effectively Treats Corticosteroid-Induced Osteonecrosis of the Hip: A Prospective Study. *Clinical Orthopedics and Related Research*. 2018. PMID: 29529674.
58. Houdek MT, **Wyles CC**, Wagner ER, Sierra RJ, Trousdale RT, Taunton MJ. Single-Anesthetic Versus Staged Bilateral Total Hip Arthroplasty: A Matched Cohort Study. *Journal of Bone and Joint Surgery*. 2017. PMID: 28060233.

59. Hevesi M, **Wyles CC**, Yao J, Maradit-Kremers H, Lewallen DG, Habermann EB, Glasgow AE, Bews KA, Ranson JE, Visscher JE, Berry DJ. Revision THA for Fracture: More Expensive, More Complications, Same DRG. A Local and National Cohort Study. 2018. Accepted at the *Journal of Bone and Joint Surgery*.
60. Jimenez-Almonte JH, **Wyles CC**, Wyles SP, Norambuena GA, Murad MH, Sierra RJ. Local Infiltration Analgesia Versus Peripheral Nerve Blocks for Postoperative Pain After Hip Arthroplasty. *Clinical Orthopedics and Related Research*. 2015. PMID: 26573322.
61. Houdek MT, **Wyles CC**, Stalboerger PG, Terzic A, Behfar A, Moran SL. Collagen and Fractionated Platelet Rich Plasma Scaffold for Dermal Regeneration. *Plastic and Reconstructive Surgery*. 2016. PMID: 27119924.
62. Houdek MT, **Wyles CC**, Martin JR, Sierra RJ. Stem Cell Treatment for Avascular Necrosis of the Femoral Head: Current Perspectives. *Stem Cells Cloning*. 2014 Apr. 9 PMID: 24744611.
63. Tibbo ME, **Wyles CC**, Rose PS, Sim FH, Houdek MT, Taunton MJ. Long-Term Outcome of Hip Arthroplasty in the Setting of Pigmented Villonodular Synovitis (PVNS). 2017. *Journal of Arthroplasty*. PMID: 29352684.
64. Tibbo ME, **Wyles CC**, Fu S, Wang Y, Sohn S, Berry DJ, Lewallen DG, Maradit-Kremers H. Use of Natural Language Processing Tools to Identify and Classify Periprosthetic Femur Fractures. 2019. Accepted at *Journal of Arthroplasty*.
65. Fu S, **Wyles CC**, Osmon DR, Carvour ML, Sagheb E, Ramazanian T, Tafti AP, Kremers WK, Lewallen DG, Berry DJ, Sohn S, Maradit-Kremers H. Automated Detection of Periprosthetic Joint Infections and Data Elements Using Natural Language Processing. 2020. Accepted at *Journal of Arthroplasty*.
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84. Kolz JM, **Wyles CC**, Chapman RM, Van Citters DW, Trousdale RT, Berry DJ. In Vivo Corrosion of Modular Dual Mobility Implants: A Retrieval Study. 2020. Accepted at the *Journal of Arthroplasty*.
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120. Rouzrokh P, Khosravi B, Johnson QJ, Faghani S, Vera Garcia DV, Erickson BJ, Maradit-Kremers H, Taunton MJ, **Wyles CC**[¥]. Applying Deep Learning to Establish a Total Hip Arthroplasty Radiography Registry: A Stepwise Approach. 2022. Accepted at *Journal of Bone and Joint Surgery*.
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122. Harmer JR, **Wyles CC**, Maradit Kremers H, Duong SQ, Morgan III RJ, Abdel MP. Depression and Anxiety Are Associated with Increased Risk of Infection, Revisions, and Reoperations Following Total Hip or Knee Arthroplasty. 2022. Accepted at *Bone and Joint Journal*.
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125. Khosravi B, Rouzrokh P, Mickley JP, Erickson BJ, Taunton MJ, **Wyles CC**[¥]. Creating Synthetic Pelvis Radiographs Using Generative Adversarial Networks. 2022. Accepted at *Journal of Arthroplasty*.
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128. Labott JR, Lu Y, Salmons HI, Camp CL, **Wyles CC**, Taunton MJ. Health and Socioeconomic Risk Factors for Unplanned Hospitalization Following Ambulatory Unicompartamental Knee Arthroplasty: Development of a Patient Selection Tool Using Machine Learning. 2023. Accepted at *Journal of Arthroplasty*.
129. Padash S, Mickley JP, Vera-Garcia VD, , Nugen F, Khosravi B, Erickson BJ, **Wyles CC**, Taunton MJ. What you need to know to start machine learning research for orthopedic surgery: An educational paper. 2023. Accepted at *Journal of Arthroplasty*.
130. Vera-Garcia DV, Nugen F, Khosravi B, Mickley JP, Erickson BJ, **Wyles CC**, Tauton MJ. Medical imaging processing: Concept and application in orthopedics research. 2023. Accepted at *Journal of Arthroplasty*.
131. Nugen F, Vera-Garcia DV, Khosravi B, Sohn S, Mickley JP, Erickson BJ, **Wyles CC**, Taunton MJ. Turning clinical text of joint arthroplasty into clinical studies with natural language processing. 2023. Accepted at *Journal of Arthroplasty*.
132. Khosravi B, Weston AD, Nugen F, Mickley JP, Maradit Kremers H, **Wyles CC**, Carter RE, Taunton MJ. Demystifying statistics and machine learning analysis of tabular data. 2023. Accepted at *Journal of Arthroplasty*.
133. Salmons HI, Lu Y, Labott JR, Camp CL, **Wyles CC**, Taunton MJ. Identifying Modifiable Cost Drivers of Outpatient Unicompartamental Knee Arthroplasty with Machine Learning. 2022. Accepted at *Journal of Arthroplasty*.
134. Houdek MT, **Wyles CC**, Heidenreich MJ, Couch CG, Taunton MJ, Maradit-Kremers H, Berry DJ, Lewallen DG, Rose PS. Serum Metal Ion Concentrations in the Setting of an Oncologic Endoprosthesis: Is There Cause for Concern? 2023. Accepted at *Clinical Orthopaedics and Related Research*.
135. Constant C, Aubin C-E, Maradit Kremers H, Vera Garcia DV, **Wyles CC**, Rouzrokh P, Larson AN. The use of deep learning in medical imaging to improve spine care: a scoping review of current literature and clinical applications. 2023. Accepted at *North American Spine Society Journal*.
136. Weiner TR, El-Najjar DB, Herndon CL, **Wyles CC**, Cooper HJ. "How are Oral Antibiotics Being Used in Total Joint Arthroplasty? A Review of the Literature." Submitted, JBJS Reviews, April 2023.
137. Mulford KL, Johnson QJ, Mujahed T, Khosravi B, Rouzrokh P, Mickley JP, Taunton MJ, **Wyles CC**. A Deep Learning Tool for Automated Landmark Annotation on Hip and Pelvis Radiographs. 2023. Accepted at *Journal of Arthroplasty*.

138. Mickley JP, Lu Y, Taunton MJ, **Wyles CC**. Defining Clinically Meaningful Subgroups for Risk Stratification in Patients Undergoing Revision Total Hip Arthroplasty: A Combined Unsupervised and Supervised Machine Learning Approach. 2023. Accepted at *Journal of Arthroplasty*.
139. Rouzrokh P, Khosravi B, Mickley JP, Erickson BJ, Taunton MJ, **Wyles CC**. THA-NET: A Deep Learning Solution for Next Generation Templating and Patient Specific Surgical Execution. 2023. Accepted at *Journal of Arthroplasty*.
140. Rouzrokh P, Mickley JP, Khosravi B, Erickson BJ, Taunton MJ, **Wyles CC**. THA-AID: A Trustworthy Deep Learning Tool for Total Hip Arthroplasty Automatic Implant Detection with Uncertainty and Outlier Quantification. 2023. Accepted at *Journal of Arthroplasty*.
141. Khosravi B, Mickley JP, Rouzrokh P, Taunton MJ, Larson AN, Erickson BJ, **Wyles CC**. Anonymizing Radiographs Using an Object Detection Deep Learning Algorithm. 2023. Accepted at *Radiology: Artificial Intelligence*.
142. Khosravi B, Rouzrokh P, Mickley JP, Faghani S, Mulford K, Yang L, Larson AN, Howe BM, Erickson BJ, Taunton MJ, **Wyles CC**. Few-shot Biomedical Image Segmentation using Diffusion Models: Beyond Image Generation. 2023. Accepted at *Computer Methods and Programs in Biomedicine*.
143. Mickley JP, Grove A, Rouzrokh P, Yang L, Larson AN, Sanchez-Sotelo J, Maradit Kremers H, **Wyles CC**. A Stepwise Approach to Analyzing Musculoskeletal Imaging Data with Artificial Intelligence. 2023. Accepted at *Arthritis Care & Research*.
144. Weiner T, Herndon CL, **Wyles CC**, Cooper HJ. How are Oral Antibiotics Being Used in Total Joint Arthroplasty? A Review of the Literature. 2023. Accepted at *Orthopedic Reviews*.

LETTERS AND COMMENTARIES

1. Wyles CC. Groundbreaking Postoperative Hip Dislocation Risk Calculator: Machine learning and imaging combine to create patient-specific risk and surgical planning tool. *RSNA News*. July 2023. <https://www.rsna.org/news/2023/july/hip-dislocation-risk-calculator>.
2. **Wyles CC**. Mayo Clinic Q&A: Managing osteoarthritis for hips and knees. Produced for Mayo Clinic and published in multiple media outlets. September 2022.
3. **Wyles CC**. How to Prevent and Manage Knee Pain. Produced for Mayo Clinic and published in multiple media outlets. January 2023.
4. **Wyles CC**. Mayo Clinic lab looks to impact orthopedics through artificial intelligence tools. Published on Mayo newsletter and the orthopedics medical professional site.

FDA INVESTIGATIONAL DEVICE EXEMPTIONS

FDA IDE #17455: CYTORI THERAPEUTICS: CELUTION SYSTEM

Issue Date: 5/18/2017

Double Blind, Randomized, Parallel-Group Study of Hip Decompression Supplemented at the Point of Care with Adipose Derived Regenerative Cells for Bilateral Pre-collapse Femoral Head Osteonecrosis

PATENTS

Application Under Consideration at United States Patent Office

Issue Date: 8/24/2018

Title: Methods and Materials for Reducing Scarring Associated with Arthrofibrosis and Tendon Injury

PEER-REVIEWED BOOK CHAPTERS

1. Gould, Douglas J., Jennifer K. Brueckner, and Richard L. Sidman. *Sidman's Neuroanatomy: A Programmed Learning Tool*. Philadelphia: Lippincott Williams & Wilkins, 2008. Print. **Contributing Student Editor.**
2. **Wyles CC**, Sierra RJ. Open Surgical Hip Dislocation and OATs Procedure after Failed X-ream and Pro Graf. *Osteonecrosis of the Femoral Head: A Clinical Casebook*.
3. **Wyles CC**, Sierra RJ, Trousdale RT. Femoral Osteotomy for Osteonecrosis of the Femoral Head. *Osteonecrosis of the Femoral Head: A Clinical Casebook*.
4. **Wyles CC**, Mont MA, Sierra RJ. Femoral Head Sparing Procedures for Osteonecrosis of the Hip. Berry and Lieberman *Surgery of the Hip*, 2nd Edition.
5. Schrader SN, **Wyles CC**, Sierra RJ. Extensor Mechanism Complications Following Total Knee Arthroplasty. *Orthopaedics and Trauma*.

VIDEO PRESENTATIONS

1. Wyles CC. *Journal of Bone and Joint Surgery* Author Insights presentation for “Creation of a Total Hip Arthroplasty Patient-Specific Dislocation Risk Calculator”. Published online May 2022. <http://video-submissions.jbjs.org/video/6305486110112>.

RESEARCH SUPPORT GRANTS

Total Funding To Date: \$9,615,000

Funding to Date as Principal Investigator: \$2,930,000

- 11/01/2023 – 10/31/2024 Principal Investigator
CCaTS Innovation in Clinical Trial Design Award – “Leveraging Large Language Models and Clinical Registries to Improve Data Collection Processes for Clinical Trials”
CCaTS Innovation in Clinical Trial Design Award: \$65,000
- 09/01/2023 – 08/31/2024 Principal Investigator
Foderaro-Quattrone Grant for AI Innovation – “Use of Large Language Models to Predict Postoperative Infection in Sarcoma Patients”
Foderaro-Quattrone Grant for AI Innovation: \$65,000
- 08/01/2023 – 12/31/2023 Principal Investigator
Innovation Accelerator Award – “Beta Testing the Clinical Implementation of Total Hip Arthroplasty Patient-Specific Dislocation and Periprosthetic Fracture Risk Calculators”
Funded by Center for Digital Innovation: \$50,000
- 01/01/2023 – 12/31/2023 Principal Investigator
Center for Digital Health AI/ML Enablement Award – “Mitigating Race and Sex Bias in Orthopedic Surgery Radiographic Registries with Deep Learning Models”
Funded by Dalio Philanthropies: \$100,000
- 06/01/2022 – 06/01/2024 Principal Investigator
American Association of Hip and Knee Surgeons (AAHKS) Foundation for Arthroplasty Research and Education (FARE) Grant – “AI-Enabled Multimodal Phenotypic Characterization of TJA Patients”
Funded by the American Association of Hip and Knee Surgeons (AAHKS): \$50,000
- 10/01/2022 – 10/01/2023 Co-Investigator
Mayo Clinic Office of Research Equity, Inclusion and Diversity – “Utilizing Deep Learning to Recognize and Mitigate Ethnic Bias in Mayo Clinic's Orthopedic Surgery Radiographic Registries”
Funded by the Mayo Clinic Office of Research Equity, Inclusion and Diversity: \$50,000
- 06/01/2021 – 06/01/2022 Principal Investigator
Center for Individualized Medicine Imaging Biomarker Program – “Deep Learning Tool for Accurate and Precise Automatic Measurement of Femoral Component Subsidence Following Total Hip Arthroplasty from Plain Radiographs”
Funded by the Center for Individualized Medicine: \$50,000
- 04/01/2022 – 04/01/2023 Co-Principal Investigator
Foderaro-Quattrone Grant for AI Innovation – “AI Assisted Model to Predict Pain Relief Following Surgery for Degenerative Spine Disease”
Foderaro-Quattrone Grant for AI Innovation: \$65,000
- 04/01/2019 – 03/31/2024 Co-Investigator
NIH PAR Panel: Epidemiology and Cohort Studies for Alzheimer’s Disease, Related Dementia, and Cognitive Resilience
R01 AG060920 – “Risk of Cognitive Impairment and Dementia in Total Joint Arthroplasty”
Funded by the National Institutes of Health: \$3,300,000

- 04/01/2019 – 03/31/2024 Co-Investigator
NIH Cancer, Heart, and Sleep Epidemiology A Study Section
R01 HL147155-01 – “Cardiotoxicity in Total Joint Arthroplasty”
Funded by the National Institutes of Health: \$3,500,000
- 09/01/2018 – 09/01/2019 Co-Investigator
Discovery Translation Grant – “Novel antifibrotic agent for inhibition of hypertrophic scars, arthrofibrosis, and tendon adhesions”
Funded by the Center for Regenerative Medicine: \$350,000
- 11/01/2017 – 10/31/2020 Co-Principal Investigator
Clinical Trial Award – “Double Blind, Phase I, Randomized, Parallel-Group Study of Hip Decompression Compared to Hip Decompression Supplemented at the Point of Care with Adipose Derived Regenerative Cells for Bilateral Pre-collapse Femoral Head Osteonecrosis”
Funded by the Center for Regenerative Medicine: \$1,000,000
Co-funded by Cytori Therapeutics, Inc.: \$275,000
Co-funded by the Orthopedic Research Review Committee – Master’s Degree Fund: \$15,000
- 09/01/2018 – 09/01/2019 Co-Principal Investigator
Accelerated Regenerative Medicine Grant – “Development of BMP-2 Enriched Exosomes as a Clinical Grade Osteoregeneration Therapeutic”
Funded by the Center for Regenerative Medicine: \$300,000
- 01/01/2016 – 07/01/2016 Co-Principal Investigator
Clinomics Award – “NexGen Sequencing for a Family with Multigenerational Femoroacetabular Impingement”
Funded by the Center for Individualized Medicine: \$10,000
- 01/01/2016 – 07/01/2018 Co-Principal Investigator
CeramTec Education Award – “Cobalt Ion Release in Total Hip Arthroplasty – Simulator Studies of Wear”
Funded by CeramTec Inc.: \$50,000
- 07/01/2016 – 07/01/2017 Co-Investigator
Diamond Light Source Synchrotron Grant: Proposal 15034 – “Cardiotoxicity from orthopaedic implant-derived metals”
Funded by the University College London and Diamond Light Source: \$100,000
- 09/01/2013 – 09/01/2015 Co-Investigator
Accelerated Regenerative Medicine Grant – “The use of human mesenchymal stem cell technology for treatment of mandibular osteoradionecrosis: an in-vitro trial of efficacy”
Funded by the Center for Regenerative Medicine: \$100,000
- 07/01/2012 – 07/01/2013 Co- Investigator
Accelerated Regenerative Medicine Grant – “Use of Mesenchymal Stem Cells as an Adjuvant to Minimally Invasive Hip Decompression”
Funded by the Center for Regenerative Medicine: \$100,000

07/01/2011 – 07/1/2012 Co- Investigator

Accelerated Regenerative Medicine Grant – “Use of Mesenchymal Stem Cells as an Adjuvant to Minimally Invasive Hip Decompression”

Funded by the Center for Regenerative Medicine: \$150,000

INVITED SYMPOSIUM PRESENTATIONS

1. Mabry TM (Moderator), **Wyles CC**. American Academy of Orthopedic Surgeons (AAOS) Symposium " Opioid Stewardship in Orthopedic Surgery: Best Practices in 2024 & Beyond". 2024 AAOS Meeting. San Francisco, California. February 12, 2024.
2. **Wyles CC**. Management of Acute PJI with Debridement, Antibiotics, and Implant Retention (DAIR): Single DAIR vs Double DAIR. Mayo Clinic Orthopedic Surgery Grand Rounds. November 13, 2023.
3. **Wyles CC**. Invited Grand Rounds to the Food and Drug Administration (FDA) AI/ML and Data Science Lecture Series. “Artificial Intelligence, Machine Learning, and Data Science Applications for Orthopedic Registries”. Bethesda, Maryland. October 25, 2023.
4. **Wyles CC**. Keynote address “The Future of AI in Orthopaedics”. British Medical Journal (BMJ) Innovation in Orthopaedics Symposium. September 17, 2023.
5. **Wyles CC**. “Optimizing Intraop Execution and Planning: Integrating AI and EMR/Imaging Data”. Osso Virtual Reality Grand Rounds. Virtual presentation. August 7, 2023.
6. **Wyles CC**. “Cemented Stems: Principles & Video-based Surgical Technique”. International Orthopedic Education Network (IOEN) Rochester Revision Course. Rochester, Minnesota. June 15-18, 2023.
7. **Wyles CC**. “Management of Patella Fractures after TKA: Classification and Treatment Algorithms”. International Orthopedic Education Network (IOEN) Rochester Revision Course. Rochester, Minnesota. June 15-18, 2023.
8. **Wyles CC**. “Optimizing Intraop Execution and Planning: Integrating AI and EMR/Imaging Data”. Hospital for Special Surgery Complex Joint Reconstruction Center (CJRC) reVISION Symposium: Envisioning reVISION Surgery in 2040. New York City, New York. June 2, 2023.
9. **Wyles CC**. Expert panelist on Session III: Complex Cases and Revision 2040 moderated by Dr. Peter Sculco, MD. Hospital for Special Surgery Complex Joint Reconstruction Center (CJRC) reVISION Symposium: Envisioning reVISION Surgery in 2040. New York City, New York. June 2, 2023.
10. **Wyles CC**. “Artificial Intelligence and Predictive Modeling”. Mayo Robotic and Advanced Surgical Technology Conference. Orlando, Florida. April 14, 2023.

11. **Wyles CC.** “Enhanced Patient-Specific Risk Prediction in THA Using Artificial Intelligence”. 2022 British Hip Society Closed Scientific Meeting. March 4, 2023. Edinburgh, Scotland.
12. **Wyles CC.** “Artificial Intelligence Applications for Registry Based Research in Orthopedic Surgery”. 2022-2023 Collaborative Core Center for Clinical Research (CCCR) Speaker Series. National Audience via Zoom hosted by the University of North Carolina. January 9, 2023.
13. **Wyles CC.** “Artificial Intelligence in Orthopedic Surgery – The Future is Now”. Mayo Clinic Orthopedic Surgery Grand Rounds. November 21, 2022.
14. Taunton MJ (Moderator), **Wyles CC**, Ramkumar P, Krebs V. Symposium 40161 "Advances in Arthroplasty Practice with Artificial Intelligence - The Future is Now". 2022 AAHKS Meeting. Dallas, Texas. November 4, 2022.
15. **Wyles CC.** “Applications of AI with EHR Based Research”. 2022 AAHKS Clinical Research Course. Dallas, Texas. November 3, 2022.
16. **Wyles CC.** “Writing Winning Grants”. 2022 AAHKS Clinical Research Course. Dallas, Texas. November 3, 2022.
17. **Wyles CC.** Modern treatment of osteonecrosis of the femoral head without collapse. Hip Preservation Symposium. European Hip Society. Lille, France. October 1-2, 2020.

CONFERENCE PRESENTATIONS

1. **Wyles CC**, Salmons HI, Larson DR, Couch CG, Bingham JS, Ledford CK, Trousdale RT, Taunton MJ. Surgical Approach and BMI Impact Risk of Wound Complications Following Primary THA. Podium presentation at the Mid-America Orthopaedic Association (MAOA) meeting. Bonita Springs, Florida. April 10-14, 2024.
2. **Wyles CC**, Salmons HI, Larson DR, Couch CG, Bingham JS, Ledford CK, Trousdale RT, Taunton MJ. Surgical Approach and BMI Impact Risk of Wound Complications Following Primary THA. Poster presentation at the American Academy of Orthopedic Surgeons (AAOS) meeting. San Francisco, California. February 12-16, 2024.
3. **Wyles CC**, Rouzrokh P, Khosravi B, Mickley JP, Erickson BJ, Taunton MJ. THA-NET: A Deep Learning Solution for Next Generation Templating and Patient Specific Surgical Execution. Podium presentation at the American Academy of Orthopedic Surgeons (AAOS) meeting. San Francisco, California. February 12-16, 2024.
4. **Wyles CC**, Rouzrokh P, Khosravi B, Mickley JP, Erickson BJ, Taunton MJ. THA-AID: A Trustworthy Deep Learning Tool for Total Hip Arthroplasty Automatic Implant Detection with Uncertainty and Outlier Quantification. Podium presentation at the American Academy of Orthopedic Surgeons (AAOS) meeting. San Francisco, California. February 12-16, 2024.

5. Khosravi B, Rouzrokh P, Erickson BJ, Garner HW, Wenger DE, Taunton MJ, **Wyles, CC**. Using Generative AI to Recognize Racial Disparities in Large Imaging Registries. Podium presentation at the Radiological Society of North America (RSNA) Meeting. Chicago, Illinois. November 30, 2023.
6. Rouzrokh P, Mickley J, Khosravi B, Faghani S, Moassefi M, Erickson BJ, Taunton MJ, **Wyles CC**. Enhancing the Trustworthiness of Deep Learning Tools for Clinical Applications: A Comprehensive Pipeline with Model Explainability, Uncertainty Quantification, and Outlier Detection Applied to Implant Detection on Radiographs. Podium presentation at the Radiological Society of North America (RSNA) Meeting. Chicago, Illinois. November 30, 2023.
7. Rouzrokh P, Khosravi B, Mickley JP, Erickson BJ, Taunton MJ, **Wyles CC**. Employing Generative AI to Visualize Ideal Total Hip Arthroplasty and Conduct Patient-Specific Surgical Templating on Plain Radiographs. Podium presentation at the Radiological Society of North America (RSNA) Meeting. Chicago, Illinois. November 26, 2023.
8. **Wyles CC**, Salmons HI, Larson DR, Couch CG, Bingham JS, Ledford CK, Trousdale RT, Taunton MJ. Surgical Approach and BMI Impact Risk of Wound Complications Following Primary THA. Podium presentation at the American Association of Orthopedic Surgeons (AAHKS) meeting. November 2-5, 2023.
9. Rouzrokh P, Khosravi B, Mickley JP, Erickson BJ, Taunton MJ, **Wyles CC**. THA-AID: A Trustworthy Deep Learning Tool for Total Hip Arthroplasty Automatic Implant Detection with Uncertainty and Outlier Quantification. Poster presentation at the American Association of Orthopedic Surgeons (AAHKS) meeting. November 2-5, 2023.
10. Rouzrokh P, Mickley J, Mickley JP, Erickson BJ, Taunton MJ, **Wyles CC**. THA-AID: A Trustworthy Deep Learning Tool for Total Hip Arthroplasty Automatic Implant Detection with Uncertainty and Outlier Quantification. Podium presentation at the Society for Advanced Body Imaging (SABI) Meeting. Dallas, Texas. October 8, 2023.
11. Rouzrokh P, Khosravi B, Khosravi B, Faghani S, Moassefi M, Erickson BJ, Taunton MJ, **Wyles CC**. Employing Generative AI to Visualize Ideal Total Hip Arthroplasty and Conduct Patient-Specific Surgical Templating on Plain Radiographs. Poster presentation at the Society for Advanced Body Imaging (SABI) Meeting. Dallas, Texas
12. Khosravi B, Rouzrokh P, Mickley JP, Sanchez-Sotelo J, Taunton MJ, Larson AN, Erickson BJ, **Wyles CC**. Anonymizing Radiographs and Making Them AI Ready Using a Deep Learning Algorithm. Podium Presentation at the Radiological Society of North America (RSNA) Meeting. Chicago, Illinois. November 26 – 30, 2023.
13. Rouzrokh P, Khosravi B, Mickley JP, Erickson BJ, Taunton MJ, **Wyles CC**. THA-AID: A Trustworthy Deep Learning Tool for Total Hip Arthroplasty Automatic Implant Detection with Uncertainty and Outlier Quantification. Podium Presentation at the Society for Advanced Body Imaging (SABI) Meeting. Dallas, Texas. October 7-11, 2023.

14. Rouzrokh P, Khosravi B, Mickley JP, Erickson BJ, Taunton MJ, **Wyles CC**. THA-NET: A Deep Learning Solution for Next Generation Templating and Patient Specific Surgical Execution. Poster Presentation at the Society for Advanced Body Imaging (SABI) Meeting. Dallas, Texas. October 7-11, 2023.
15. Mulford KL, Pinter ZW, Regan C, Nolte CJ, Huddleston PM, **Wyles CC**, Larson AN. Automatic Deep Learning Spine Radiograph View and Treatment Status Classifiers with Deep Learning. Podium Presentation at the Scoliosis Research Society (SRS) Annual Meeting. Seattle, Washington. September 6-9, 2023.
16. Khosravi B, Rouzrokh P, Mickley JP, Sanchez-Sotelo J, Taunton MJ, Larson AN, Erickson BJ, **Wyles CC**. Anonymizing Radiographs and Making Them AI Ready Using a Deep Learning Algorithm. Podium Presentation at the Society for Imaging Informatics in Medicine (SIIM) Meeting. Austin, Texas. June 14-16, 2023.
17. Khosravi B, Rouzrokh P, Mickley JP, Faghani S, Erickson BJ, Taunton MJ, **Wyles CC**. High-Fidelity Conditional Pelvis Radiograph Generation with Denoising Diffusion Probabilistic Models. Podium Presentation at the Society for Imaging Informatics in Medicine (SIIM) Meeting. Austin, Texas. June 14-16, 2023.
18. Rouzrokh P, Khosravi B, Mickley JP, Erickson BJ, Taunton MJ, **Wyles CC**. THA-NET: A Deep Learning Solution for Next Generation Templating and Patient Specific Surgical Execution. Poster Presentation at the Society for Imaging Informatics in Medicine (SIIM) Meeting. Austin, Texas. June 14-16, 2023.
19. **Wyles CC**, Maradit-Kremers H, Larson DR, Khosravi B, Rouzrokh P, Johnson QJ, Mickley JP, Sierra RJ, Taunton MJ, Abdel MP. Creation of a Patient-Specific Hip Arthroplasty Periprosthetic Femur Fracture Risk Calculator. Podium Presentation at the International Society of Arthroplasty Registries (ISAR) Meeting. Montreal, Canada. May 13-15, 2023.
20. **Wyles CC**, Rouzrokh P, Khosravi B, Mickley JP, Erickson BJ, Taunton MJ. THA-NET: A Deep Learning Solution for Next Generation Templating and Patient Specific Surgical Execution. Podium Presentation at the International Society of Arthroplasty Registries (ISAR) Meeting. Montreal, Canada. May 13-15, 2023.
21. **Wyles CC**, Rouzrokh P, Khosravi B, Mickley JP, Erickson BJ, Taunton MJ. Creating high fidelity synthetic pelvis radiographs using generative adversarial networks: Unlocking the potential of deep learning models without patient privacy concerns. Podium Presentation at the International Society of Arthroplasty Registries (ISAR) Meeting. Montreal, Canada. May 13-15, 2023.
22. Khosravi B, Rouzrokh P, Mickley JP, Sanchez-Sotelo J, Taunton MJ, Larson AN, Erickson BJ, **Wyles CC**. Anonymizing Radiographs and Making Them AI Ready Using a Deep Learning Algorithm. Poster Presentation at the American College of Radiology (ACR) Meeting. Washington, DC. May 6-10, 2023.

23. Rouzrokh P, Khosravi B, Mickley JP, Erickson BJ, Taunton MJ, **Wyles CC**. THA-NET: A Deep Learning Solution for Next Generation Templating and Patient Specific Surgical Execution. Poster Presentation at the American College of Radiology (ACR) Meeting. Washington, DC. May 6-10, 2023.
24. **Wyles CC**, Maradit Kremers H, Fruth KM, Larson DR, Khosravi B, Rouzrokh P, Johnson QJ, Berry DJ, Sierra RJ, Taunton MJ, Abdel MP. Creation of a Patient-Specific Total Hip Arthroplasty Periprosthetic Fracture Risk Calculator. Hip Society Frank Stinchfield Scientific Award. Podium Presentation at Hip Society Specialty Day at the American Academy of Orthopedic Surgeons (AAOS) Meeting. Las Vegas, Nevada. March 7-11, 2023.
25. **Wyles CC**, Rouzrokh P, Khosravi B, Johnson QJ, Faghani S, Vera Garcia DV, Erickson BJ, Maradit-Kremers H, Taunton MJ. Applying Deep Learning to Establish a Total Hip Arthroplasty Radiography Registry: A Stepwise Approach. Podium Presentation at the American Academy of Orthopedic Surgeons (AAOS) Meeting. Las Vegas, Nevada. March 7-11, 2023.
26. **Wyles CC**, Maradit-Kremers H, Larson DR, Khosravi B, Rouzrokh P, Johnson QJ, Mickley JP, Sierra RJ, Taunton MJ, Abdel MP. Creation of a Patient-Specific Hip Arthroplasty Periprosthetic Femur Fracture Risk Calculator. Poster Presentation at the American Academy of Orthopedic Surgeons (AAOS) Meeting. Las Vegas, Nevada. March 7-11, 2023.
27. Khosravi B, Rouzrokh P, Maradit Kremers H, Larson DR, Johnson QJ, Faghani S, Erickson BJ, Sierra RJ, Taunton MJ, **Wyles CC**. Patient-Specific Hip Arthroplasty Dislocation Risk Calculator: A Multimodal Explainable Machine Learning Based Approach. Poster Presentation at the Radiological Society of North America (RSNA) Meeting. Chicago, Illinois. November 27-December 1, 2022.
28. Rouzrokh P, Khosravi B, Johnson QJ, Faghani S, Vera Garcia DV, Erickson BJ, Maradit-Kremers H, Taunton MJ, **Wyles CC**. Applying Deep Learning to Establish a Total Hip Arthroplasty Radiography Registry: A Stepwise Approach. Podium Presentation at the Radiological Society of North America (RSNA) Meeting. Chicago, Illinois. November 27-December 1, 2022.
29. Houdek MT, **Wyles CC**, Heidenreich MJ, Couch CG, Taunton MJ, Maradit-Kremers H, Berry DJ, Lewallen DG, Rose PS. Serum Metal Ion Concentrations in the Setting of an Oncologic Endoprosthesis: Is There Cause for Concern? Poster Presentation at the Connective Tissue Oncology Society (CTOS) Meeting. Vancouver, Canada. November 16-19, 2022.
30. Rouzrokh P, Khosravi B, Johnson QJ, Faghani S, Vera Garcia DV, Erickson BJ, Maradit-Kremers H, Taunton MJ, **Wyles CC**. Applying Deep Learning to Establish a Total Hip Arthroplasty Radiography Registry: A Stepwise Approach. Poster Presentation at the American Association of Hip and Knee Surgeons (AAHKS) Meeting. Dallas, Texas. November 3-6, 2022.
31. **Wyles CC**, Maradit-Kremers H, Larson DR, Khosravi B, Rouzrokh P, Johnson QJ, Mickley JP, Sierra RJ, Taunton MJ, Abdel MP. Creation of a Patient-Specific Hip Arthroplasty Periprosthetic Femur Fracture Risk Calculator. Poster Presentation at the American Association of Hip and Knee Surgeons (AAHKS) Meeting. Dallas, Texas. November 3-6, 2022.

32. Wilson JM, Hadley ML, Ledford CK, Bingham JS, Taunton MJ, **Wyles CC**. Outcomes and Reasons for Failure of Contemporary Direct Anterior Approach Total Hip Arthroplasty. Poster Presentation at the American Association of Hip and Knee Surgeons (AAHKS) Meeting. Dallas, Texas. November 3-6, 2022.
33. Rouzrokh P, Khosravi B, Johnson QJ, Faghani S, Vera Garcia DV, Erickson BJ, Maradit-Kremers H, Taunton MJ, **Wyles CC**. Applying Deep Learning to Establish a Total Hip Arthroplasty Radiography Registry: A Stepwise Approach. Podium Presentation at the Conference on Machine Learning Intelligence in Medical Imaging (C-MIMI) Meeting. Virtual. October 2-3, 2022.
34. Khosravi B, Rouzrokh P, Maradit Kremers H, Larson DR, Johnson QJ, Faghani S, Erickson BJ, Sierra RJ, Taunton MJ, **Wyles CC**. Patient-Specific Hip Arthroplasty Dislocation Risk Calculator: A Multimodal Explainable Machine Learning Based Approach. Podium Presentation at the Conference on Machine Learning Intelligence in Medical Imaging (C-MIMI) Meeting. Virtual. October 2-3, 2022.
35. Khosravi B, Rouzrokh P, Mickley JP, Cheng C, Faghani S, Garner H, Howe B, Erickson BJ, Taunton MJ, **Wyles CC**. All You Need is 20 Images: Few-shot Image Segmentation Using Denoising Diffusion Probabilistic Models. Podium Presentation at the Conference on Machine Learning Intelligence in Medical Imaging (C-MIMI) Meeting. Virtual. October 2-3, 2022.
36. Khosravi B, Rouzrokh P, Mickley JP, Cheng C, Faghani S, Garner H, Howe B, Erickson BJ, Taunton MJ, **Wyles CC**. Using Denoising Diffusion Probabilistic Models to Create High-Resolution Synthetic Pelvis Radiographs. Poster Presentation at the Conference on Machine Learning Intelligence in Medical Imaging (C-MIMI) Meeting. Virtual. October 2-3, 2022.
37. Khosravi B, Rouzrokh P, Mickley JP, Erickson BJ, Taunton MJ, **Wyles CC**. Privacy-Preserving Data Sharing by Creating Realistically Looking Pelvis Anteroposterior Radiographs Using Generative Adversarial Networks. Poster Presentation at the Conference on Machine Learning Intelligence in Medical Imaging (C-MIMI) Meeting. Virtual. October 2-3, 2022.
38. **Wyles CC**, Maradit Kremers H, Larson DR, Khosravi B, Rouzrokh P, Johnson QJ, Mickley JP, Sierra RJ, Taunton MJ, Abdel MP. Creation of a Patient-Specific Hip Arthroplasty Periprosthetic Femur Fracture Risk Calculator. Podium Presentation at the Hip Society Closed Summer Meeting. Santa Monica, CA. September 30 – October 1, 2022.
39. Khosravi B, Rouzrokh P, Mickley JP, Erickson BJ, Taunton MJ, **Wyles CC**. Creating Synthetic Pelvis Radiographs Using Generative Adversarial Networks. Podium Presentation at the Hip Society Closed Summer Meeting. Santa Monica, CA. September 30 – October 1, 2022.
40. **Wyles CC**, Maradit Kremers H, Lewallen DG, Berry DJ, Taunton MJ, Pagnano MW, Trousdale RT, Sierra RJ. Creation of a Patient-Specific Total Hip Arthroplasty Dislocation Risk Calculator. Podium Presentation at the International Society of Arthroplasty Registries (ISAR) Meeting. Dublin, Ireland. September 3-5, 2022.

41. **Wyles CC**, Khosravi B, Rouzrokh P, Maradit Kremers H, Larson DR, Johnson QJ, Faghani S, Erickson BJ, Sierra RJ, Taunton MJ. Patient-Specific Hip Arthroplasty Dislocation Risk Calculator: A Multimodal Explainable Machine Learning Based Approach. Podium Presentation at the International Society of Arthroplasty Registries (ISAR) Meeting. Dublin, Ireland. September 3-5, 2022.
42. Rouzrokh P, Khosravi B, Johnson QJ, Faghani S, Vera Garcia DV, Erickson BJ, Maradit-Kremers H, Taunton MJ, **Wyles CC**. Applying Deep Learning to Establish a Total Hip Arthroplasty Radiography Registry: A Stepwise Approach. Poster Presentation at the International Society of Arthroplasty Registries (ISAR) Meeting. Dublin, Ireland. September 3-5, 2022.
43. Morgan III RJ, **Wyles, CC**, Harmer JR, Duong SQ, Larson DR, Maradit-Kremers H, Berry DJ, Abdel MP. Depression and Anxiety Are Associated with Increased Risk of Infections, Revisions, and Reoperations Following Total Hip or Knee Arthroplasty. Podium Presentation at the International Society of Arthroplasty Registries (ISAR) Meeting. Dublin, Ireland. September 3-5, 2022.
44. Rouzrokh P, Khosravi B, Johnson QJ, Faghani S, Vera Garcia DV, Erickson BJ, Maradit-Kremers H, Taunton MJ, **Wyles CC**. Applying Deep Learning to Establish a Total Hip Arthroplasty Radiography Registry: A Stepwise Approach. Podium Presentation at the Society for Imaging Informatics in Medicine (SIIM) Meeting. Kissimmee, Florida. June 9 – June 11, 2022.
45. Khosravi B, Rouzrokh P, Erickson BJ, Maradit-Kremers H, Taunton MJ, **Wyles CC**. Creating a Multitask Multimodal Dislocation Risk Classifier Using Deep Learning for Total Hip Arthroplasty. Podium Presentation at the Society for Imaging Informatics in Medicine (SIIM) Meeting. Kissimmee, Florida. June 9 – June 11, 2022.
46. Morgan III RJ, **Wyles, CC**, Harmer JR, Duong SQ, Larson DR, Maradit-Kremers H, Berry DJ, Abdel MP. Depression and Anxiety Are Associated with Increased Risk of Infections, Revisions, and Reoperations Following Total Hip or Knee Arthroplasty. Podium Presentation at the European Association of Psychosomatic Medicine (EAPM) Meeting. Vienna, Austria. June 8 – 11, 2022.
47. Rouzrokh P, Khosravi B, Johnson QJ, Faghani S, Vera Garcia DV, Erickson BJ, Maradit-Kremers H, Taunton MJ, **Wyles CC**. Applying Deep Learning to Establish a Total Hip Arthroplasty Radiography Registry: A Stepwise Approach. Poster Presentation at the Mayo Clinic Young Investigators Research Symposium. Rochester, Minnesota. May 21, 2022.
48. Houdek MT, **Wyles CC**, Smith JR, Terzic A, Behfar A, Sierra RJ. Hip Decompression Combined with Bone Marrow Concentrate and Platelet-Rich Plasma for Corticosteroid-Induced Osteonecrosis of the Femoral Head: Mid-Term Update from a Prospective Study. Podium Presentation at the Mayo Clinic Young Investigators Research Symposium. Rochester, Minnesota. May 21, 2022.
49. Mallett K, Maradit Kremer H, Lewallen DG, Berry DJ, Taunton MJ, Pagnano MW, Trousdale RT, Sierra RJ, **Wyles CC**. Creation of a Patient-Specific Total Hip Arthroplasty Dislocation Risk Calculator. Podium Presentation at the Mid-America Orthopaedic Association (MAOA) Meeting. San Antonio, Texas. April 6-10, 2022.

50. Matrka A, Rouzrokh P, Kurian SJ, Ramazanian T, Cai JC, Huang Q, Zhang K, Taunton MJ, Maradit Kremers H, Erickson BJ, **Wyles CC**. Deep Learning Tool for Accurate and Precise Automatic Measurement of Femoral Component Subsidence Following Total Hip Arthroplasty from Plain Radiographs. Podium Presentation at the Mid-America Orthopaedic Association (MAOA) Meeting. San Antonio, Texas. April 6-10, 2022.
51. Harmer JR, **Wyles CC**, Duong SQ, Larson DR, Morgan III, RJ, Maradit-Kremers H, Berry DJ, Abdel MP. Depression and Anxiety Are Associated with Increased Revisions and Complications Following THA. Podium Presentation at the Mid-America Orthopaedic Association (MAOA) Meeting. San Antonio, Texas. April 6-10, 2022.
52. Harmer JR, **Wyles CC**, Larson DR, Taunton MJ, Pagnano MW, Abdel MP. Changing Surgical Approach From Index To Revision THA: No Increased Risk Of Dislocation or Revision. Podium Presentation at the Mid-America Orthopaedic Association (MAOA) Meeting. San Antonio, Texas. April 6-10, 2022.
53. **Wyles CC**, Harmer JR, Duong SQ, Larson DR, Morgan III, RJ, Maradit-Kremers H, Berry DJ, Abdel MP. Depression and Anxiety Are Associated with Increased Revisions and Complications Following THA. Poster Presentation at the Mid-America Orthopaedic Association (MAOA) Meeting. San Antonio, Texas. April 6-10, 2022.
54. Hevesi, M, **Wyles CC**, Rouzrokh P, Erickson B, Lewallen DG, Taunton MJ, Trousdale RT, Berry DJ. Redefining the 3D Topography of the Acetabular Safe Zone: A Multivariable Study Accounting for Approach and Spinal Pathology. Poster Presentation at the American Academy of Orthopedic Surgeons (AAOS) Meeting. Chicago, Illinois. March 22-26, 2022.
55. **Wyles CC**, Rouzrokh P, Kurian SJ, Ramazanian T, Cai JC, Huang Q, Zhang K, Taunton MJ, Maradit Kremers H, Erickson BJ. Deep Learning Tool for Accurate and Precise Automatic Measurement of Femoral Component Subsidence Following Total Hip Arthroplasty from Plain Radiographs. Poster Presentation at the American Academy of Orthopedic Surgeons (AAOS) Meeting. Chicago, Illinois. March 22-26, 2022.
56. Salmons HI, Bettencourt JW, **Wyles CC**, Osmon DR, Berry DJ, Abdel MP. Outcomes of Irrigation & Debridement of Acutely Infected Aseptic Revision Total Joint Arthroplasties. Poster Presentation at the American Academy of Orthopedic Surgeons (AAOS) Meeting. Chicago, Illinois. March 22-26, 2022.
57. Harmer JR, **Wyles CC**, Larson DR, Taunton MJ, Pagnano MW, Abdel MP. Changing Surgical Approach From Index To Revision THA: No Increased Risk Of Dislocation or Revision. Podium Presentation at the Mid-America Orthopaedic Association (MAOA) Meeting. San Antonio, Texas. April 6-10, 2022. Poster Presentation at the American Academy of Orthopedic Surgeons (AAOS) Meeting. Chicago, Illinois. March 22-26, 2022.
58. **Wyles CC**, Maradit Kremer H, Lewallen DG, Berry DJ, Taunton MJ, Pagnano MW, Trousdale RT, Sierra RJ. Creation of a Patient-Specific Total Hip Arthroplasty Dislocation Risk Calculator. Poster Presentation at the American Academy of Orthopedic Surgeons (AAOS) Meeting. Chicago, Illinois. March 22-26, 2022.

59. Houdek MT, **Wyles CC**, Heidenreich MJ, Couch CG, Taunton MJ, Maradit-Kremers H, Berry DJ, Lewallen DG, Rose PS. Serum Metal Ion Concentrations in the Setting of an Oncologic Endoprosthesis: Is There Cause for Concern? Poster Presentation at the American Academy of Orthopedic Surgeons (AAOS) Meeting. Chicago, Illinois. March 22-26, 2022.
60. **Wyles CC**, Rouzrokh P, Kurian SJ, Ramazanian T, Cai JC, Huang Q, Zhang K, Taunton MJ, Maradit Kremers H, Erickson BJ. Deep Learning Tool for Accurate and Precise Automatic Measurement of Femoral Component Subsidence Following Total Hip Arthroplasty from Plain Radiographs. Poster Presentation at the Current Concepts in Joint Replacement (CCJR) Meeting. Orlando, Florida. December 8-11, 2021.
61. **Wyles CC**, Maradit Kremer H, Lewallen DG, Berry DJ, Taunton MJ, Pagnano MW, Trousdale RT, Sierra RJ. Creation of a Patient-Specific Total Hip Arthroplasty Dislocation Risk Calculator. Poster Presentation at the Current Concepts in Joint Replacement (CCJR) Meeting. Orlando, Florida. December 8-11, 2021.
62. **Wyles CC**, Harmer JR, Duong SQ, Larson DR, Morgan III, RJ, Maradit-Kremers H, Berry DJ, Abdel MP. Depression and Anxiety Are Associated with Increased Revisions and Complications Following THA. Poster Presentation at the Current Concepts in Joint Replacement (CCJR) Meeting. Orlando, Florida. December 8-11, 2021.
63. **Wyles CC**, Harmer JR, Duong SQ, Larson DR, Morgan III, RJ, Maradit-Kremers H, Berry DJ, Abdel MP. Depression and Anxiety Are Associated with Increased Revisions and Complications Following TKA. Poster Presentation at the Current Concepts in Joint Replacement (CCJR) Meeting. Orlando, Florida. December 8-11, 2021.
64. Rouzrokh P, **Wyles CC**, Kurian SJ, Ramazanian T, Cai JC, Huang Q, Zhang K, Taunton MJ, Maradit Kremers H, Erickson BJ. Deep Learning Tool for Accurate and Precise Automatic Measurement of Femoral Component Subsidence Following Total Hip Arthroplasty from Plain Radiographs. Podium Presentation at the Radiological Society of North America (RSNA) Meeting. Chicago, Illinois. November 28-December 2, 2021.
65. **Wyles CC**, Maradit Kremer H, Lewallen DG, Berry DJ, Taunton MJ, Pagnano MW, Trousdale RT, Sierra RJ. Creation of a Patient-Specific Total Hip Arthroplasty Dislocation Risk Calculator. Podium Presentation at the American Association of Hip and Knee Surgeons (AAHKS) Meeting. Dallas, Texas. November 11-14, 2021.
66. Harmer JR, **Wyles CC**, Larson DR, Taunton MJ, Pagnano MW, Abdel MP. Changing Surgical Approach From Index To Revision THA: No Increased Risk Of Dislocation or Revision. Podium Presentation at the American Association of Hip and Knee Surgeons (AAHKS) Meeting. Dallas, Texas. November 11-14, 2021.
67. **Wyles CC**, Rouzrokh P, Kurian SJ, Ramazanian T, Cai JC, Huang Q, Zhang K, Taunton MJ, Maradit Kremers H, Erickson BJ. Deep Learning Tool for Accurate and Precise Automatic Measurement of Femoral Component Subsidence Following Total Hip Arthroplasty from Plain Radiographs. Poster Presentation at the American Association of Hip and Knee Surgeons (AAHKS) Meeting. Dallas, Texas. November 11-14, 2021.

68. **Wyles CC**, Harmer JR, Duong SQ, Larson DR, Morgan III, RJ, Maradit-Kremers H, Berry DJ, Abdel MP. Depression and Anxiety Are Associated with Increased Revisions and Complications Following THA. Poster Presentation at the American Association of Hip and Knee Surgeons (AAHKS) Meeting. Dallas, Texas. November 11-14, 2021.
69. Harmer JR, **Wyles CC**, Larson DR, Taunton MJ, Pagnano MW, Abdel MP. Changing Surgical Approach From Index To Revision THA: No Increased Risk Of Dislocation or Revision. Podium Presentation at the Hip Society Closed Scientific Meeting. Washington, DC. October 7-9, 2021.
70. **Wyles CC**, Pagnano MW, Perry KI, Taunton MJ, Trousdale RT, Sierra RJ, Smith HS, Duncan C, Abdel MP. Quicker and More Predictable Return of Motor Function and Ambulation after Mepivacaine vs Bupivacaine Spinal: A Double Blind RCT in Primary TKA and THA. E.W. Johnson Award Presentation. Podium Presentation at the Mid-America Orthopedic Association (MAOA) Meeting. Amelia Island, Florida. September 29-October 3, 2021.
71. **Wyles CC**, Maradit Kremer H, Lewallen DG, Berry DJ, Taunton MJ, Pagnano MW, Trousdale RT, Sierra RJ. Total Hip Arthroplasty Dislocation Risk Using a Machine Learning Algorithm. Poster Presentation at the Mid-America Orthopedic Association (MAOA) Meeting. Amelia Island, Florida. September 29-October 3, 2021.
72. Hevesi M, **Wyles CC**, Ivanov D, Lewallen DG, Berry DJ, Sierra RJ, Taunton MJ, Trousdale RT. Reassessing the Acetabular Safe Zone: A Multivariable Case-Controlled Study. Podium Presentation at the Mid-America Orthopedic Association (MAOA) Meeting. Amelia Island, Florida. September 29-October 3, 2021.
73. Harmer JR, **Wyles CC**, Warner NS, Trousdale RT. Impact of Perioperative Pain Control on Knee Range of Motion and Development of Arthrofibrosis Following Primary Total Knee Arthroplasty. Podium Presentation at the Mid-America Orthopedic Association (MAOA) Meeting. Amelia Island, Florida. September 29-October 3, 2021.
74. Labott JR, Warne CN, **Wyles CC**, Trousdale RT. Incidence of Leg Length Discrepancy Following Index Hinge Total Knee Arthroplasty. Poster Presentation at the Mid-America Orthopedic Association (MAOA) Meeting. Amelia Island, Florida. September 29-October 3, 2021.
75. Rouzrokh P, **Wyles CC**, Kurian SJ, Ramazanian T, Cai JC, Huang Q, Zhang K, Taunton MJ, Maradit Kremers H, Erickson BJ. Deep Learning Tool for Accurate and Precise Automatic Measurement of Femoral Component Subsidence Following Total Hip Arthroplasty from Plain Radiographs. Podium Presentation at the Conference on Machine Intelligence in Medical Imaging (CMIMI) Meeting. September 19-21, 2021.
76. Ramazanian T, Yan S, Rouzrokh P, **Wyles CC**, O'Byrne TJ, Taunton MJ, Maradit Kremers H. Machine Learning Algorithm to determine Hip-Knee-Angle Alignment in Pre-operative Total Knee Arthroplasty Patients. Podium Presentation at the Knee Society Closed Scientific Meeting. September 9-11, 2021. Napa, California.

77. **Wyles CC**, Maradit Kremer H, Lewallen DG, Berry DJ, Taunton MJ, Pagnano MW, Trousdale RT, Sierra RJ. Total Hip Arthroplasty Dislocation Risk Calculator. Podium Presentation at the American Academy of Orthopedic Surgeons (AAOS) Meeting. San Diego, California. August 31 – September 3, 2021.
78. **Wyles CC**, Pagnano MW, Perry KI, Taunton MJ, Trousdale RT, Sierra RJ, Smith HS, Duncan C, Abdel MP. Quicker and More Predictable Return of Motor Function and Ambulation after Mepivacaine vs Bupivacaine Spinal: A Double Blind RCT in Primary TKA and THA. Podium Presentation at the American Academy of Orthopedic Surgeons (AAOS) Meeting. San Diego, California. August 31 – September 3, 2021.
79. Hevesi, M, **Wyles CC**, Rouzrohk P, Erickson B, Lewallen DG, Taunton MJ, Trousdale RT, Berry DJ. Redefining the 3D Topography of the Acetabular Safe Zone: A Multivariable Study Accounting for Approach and Spinal Pathology. Poster Presentation at the American Academy of Orthopedic Surgeons (AAOS) Meeting. San Diego, California. August 31 – September 3, 2021.
80. Bettencourt JW, **Wyles CC**, Osmon DO, Hanssen AD, Berry DJ, Abdel MP. Outcomes of Primary Total Hip Arthroplasty Following Septic Arthritis of the Native Knee: A Case-Controlled Study. Poster Presentation at the American Academy of Orthopedic Surgeons (AAOS) Meeting. San Diego, California. August 31 – September 3, 2021.
81. Bettencourt JW, **Wyles CC**, Osmon DO, Hanssen AD, Berry DJ, Abdel MP. Contemporary Results of Total Femur Replacements for Non-Oncologic Etiologies. Poster Presentation at the American Academy of Orthopedic Surgeons (AAOS) Meeting. San Diego, California. August 31 – September 3, 2021.
82. **Wyles CC**, Rouzrohk P, Ramazanian T, Philbrick K, Taunton MJ, Maradit-Kremers H, Erickson B. Deep Learning Radiograph Imaging Model for Prediction of Hip Dislocation Following Primary THA. Poster Presentation at the American Academy of Orthopedic Surgeons (AAOS) Meeting. San Diego, California. August 31 – September 3, 2021.
83. Rouzrohk P, **Wyles CC**, Ramazanian T, Philbrick K, Taunton MJ, Maradit-Kremers H, Erickson B. Deep Learning Artificial Intelligence Model for Measurement of Acetabular Inclination and Version Following Total Hip Arthroplasty. Podium Presentation at the American Academy of Orthopedic Surgeons (AAOS) Meeting. San Diego, California. August 31 – September 3, 2021.
84. **Wyles CC**, Smith HM, Amundson AW, Duncan CM, Niesen AD, Ingalls LA, Zavaleta KW, VanDeVoorde RA, Ryan JL, Sanchez-Sotelo J, Taunton MJ, Perry KI, Mabry TM, Abdel MP. How We Increased Surgical Volume by 11% & Saved \$3 Million Annually at a Major Academic Institution. Poster Presentation at the American Academy of Orthopedic Surgeons (AAOS) Meeting. San Diego, California. August 31 – September 3, 2021.
85. **Wyles CC**, MP Abdel, Amundson AW, Duncan CM, Pepper MB, Ingalls LA, Zavaleta KW, Smith SK, Ryan JL, Taunton MJ, Perry KI, Smith HM. How We Saved \$5 Million Annually and Cut Readmissions in Half at a Major Academic Institution. Poster Presentation at the American Academy of Orthopedic Surgeons (AAOS) Meeting. San Diego, California. August 31 – September 3, 2021.

86. **Wyles CC**, Rouzrohk P, Ramazanian T, Philbrick K, Taunton MJ, Maradit-Kremers H, Erickson B. Deep Learning Radiograph Imaging Model for Prediction of Hip Dislocation Following Primary THA. Poster Presentation at the Mayo Clinic Artificial Intelligence Symposium. Rochester, Minnesota. May 17 – 18, 2021.
87. **Wyles CC**, Maradit-Kremers H. Our Adventure with AI Methods in Orthopedics: Lessons Learned. Mayo Clinic Health Sciences Research Grand Rounds. Rochester, Minnesota. January 11, 2021.
88. **Wyles CC**, Maradit-Kremers H. Our Adventure with AI Methods in Orthopedics: Lessons Learned. Mayo Clinic Musculoskeletal Research Grand Rounds. Rochester, Minnesota. January 11, 2021.
89. Rouzrohk P, **Wyles CC**, Ramazanian T, Philbrick K, Taunton MJ, Maradit-Kremers H, Erickson B. Deep Learning Radiograph Imaging Model for Prediction of Hip Dislocation Following Primary THA. Podium Presentation at the Radiological Society of North America (RSNA) Meeting. November 29-December 5, 2020.
90. **Wyles CC**. Who Should Get a Total Joint Replacement? Invited Lecturer. Charter House Medical Lecture Series. Rochester, Minnesota. June 24, 2019.
91. Rouzrohk P, **Wyles CC**, Ramazanian T, Philbrick K, Taunton MJ, Maradit-Kremers H, Erickson B. Deep Learning Radiograph Imaging Model for Prediction of Hip Dislocation Following Primary THA. Poster Presentation at the American Association of Hip and Knee Surgeons (AAHKS) Meeting. Dallas, Texas. November 5-8, 2020.
92. Panos JA, **Wyles CC**, Gutierrez CN, Mara KC, Bingham JS, Trousdale RT, Sierra RJ. Addressing intraarticular pathology at the time of anteverting periacetabular osteotomy. Poster Presentation at the American Association of Hip and Knee Surgeons (AAHKS) Meeting. Dallas, Texas. November 5-8, 2020.
93. Hevesi M, **Wyles CC**, Ivanov D, Lewallen DG, Berry DJ, Sierra RJ, Taunton MJ, Trousdale RT. Reassessing the Acetabular Safe Zone: A Multivariable Case-Controlled Study. Poster Presentation at the American Association of Hip and Knee Surgeons (AAHKS) Meeting. Dallas, Texas. November 5-8, 2020.
94. Limberg AK, **Wyles CC**, Taunton MJ, Hanssen AD, Pagnano MW, Abdel MP. Varus-Valgus Constrained Insert with a PS Femur in Complex Primary TKAs: An Interesting Backup Option. Poster Presentation at the American Association of Hip and Knee Surgeons (AAHKS) Meeting. Dallas, Texas. November 5-8, 2020.
95. **Wyles CC**, Maradit Kremer H, Lewallen DG, Berry DJ, Taunton MJ, Pagnano MW, Trousdale RT, Sierra RJ. Total Hip Arthroplasty Dislocation Risk Using a Machine Learning Algorithm. Podium Presentation at the Hip Society Closed Summer Scientific Meeting. Held virtually. October 1, 2020.

96. Rouzrohk P, **Wyles CC**, Ramazanian T, Philbrick K, Taunton MJ, Maradit-Kremers H, Erickson B. Deep Learning Radiograph Imaging Model for Prediction of Hip Dislocation Following Primary THA. Podium Presentation at the Hip Society Closed Summer Scientific Meeting. Held virtually. October 1, 2020.
97. Rouzrohk P, **Wyles CC**, Ramazanian T, Philbrick K, Taunton MJ, Maradit-Kremers H, Erickson B. Deep Learning Artificial Intelligence Model for Measurement of Acetabular Inclination and Version Following Total Hip Arthroplasty. Podium Presentation at the Society for Imaging Informatics in Medicine (SIIM) Annual Scientific Conference on Machine Intelligence in Medical Imaging (CMMI) Meeting. September 13-14, 2020.
98. Rouzrohk P, **Wyles CC**, Ramazanian T, Philbrick K, Taunton MJ, Maradit-Kremers H, Erickson B. Deep Learning Radiograph Imaging Model for Prediction of Hip Dislocation Following Primary THA. Podium Presentation at the Society for Imaging Informatics in Medicine (SIIM) Annual Scientific Conference on Machine Intelligence in Medical Imaging (CMMI) Meeting. September 13-14, 2020.
99. Bettencourt JW, **Wyles CC**, Osmon DO, Hanssen AD, Berry DJ, Abdel MP. Outcomes of Primary Total Knee Arthroplasty Following Septic Arthritis of the Native Knee: A Case-Controlled Study. Podium Presentation at the Knee Society Closed Summer Scientific Meeting. Held virtually. September 10, 2020.
100. **Wyles CC**, Pagnano MW, Perry KI, Taunton MJ, Trousdale RT, Sierra RJ, Smith HS, Duncan C, Abdel MP. Quicker and More Predictable Return of Motor Function and Ambulation after Mepivacaine vs Bupivacaine Spinal: A Double Blind RCT in Primary TKA and THA. Poster Presentation at the International Conference and Exhibition on Orthopaedics and Rheumatology. London, England. July 6-8, 2020.
101. **Wyles CC**, Pagnano MW, Perry KI, Taunton MJ, Trousdale RT, Sierra RJ, Smith HS, Duncan C, Abdel MP. Quicker and More Predictable Return of Motor Function and Ambulation after Mepivacaine vs Bupivacaine Spinal: A Double Blind RCT in Primary TKA and THA. E.W. Johnson Award Presentation. Podium Presentation at the Mid-America Orthopedic Association (MAOA) Meeting. Bonita Springs, Florida. April 22-26, 2020.
102. **Wyles CC**, Hart A, Hevesi M, Perry KI, Abdel MP, Pagnano MW, Taunton MJ. Risk of Dislocation by Surgical Approach Following Modern Primary Total Hip Arthroplasty. Podium Presentation at the Mid-America Orthopedic Association (MAOA) Meeting. Bonita Springs, Florida. April 22-26, 2020.
103. **Wyles CC**, Vargas JS, Heidenreich MH, Mara KC, Peters CL, Clohisy JC, Sierra RJ, Trousdale RT. The Evolving Sourcil: Postoperative Radiographic Measurements Change in Response to a New Weight-Bearing Zone Following Periacetabular Osteotomy. Podium Presentation at the Mid-America Orthopedic Association (MAOA) Meeting. Bonita Springs, Florida. April 22-26, 2020.
104. Rainer WG, Kolz J, **Wyles CC**, Houdek MT, Perry KI, Lewallen DG. Total Hip Arthroplasty in Patients with Lymphedema: A Matched Cohort Study. Podium Presentation at the Mid-America Orthopedic Association (MAOA) Meeting. Bonita Springs, Florida. April 22-26, 2020.

105. Bettencourt JW, **Wyles CC**, Osmon DO, Hanssen AD, Berry DJ, Abdel MP. Outcomes of Primary Total Knee Arthroplasty Following Septic Arthritis of the Native Knee: A Case-Controlled Study. Podium Presentation at the Mid-America Orthopedic Association (MAOA) Meeting. Bonita Springs, Florida. April 22-26, 2020.
106. Bettencourt JW, **Wyles CC**, Osmon DO, Hanssen AD, Berry DJ, Abdel MP. Outcomes of Primary Total Hip Arthroplasty Following Septic Arthritis of the Native Hip: A Case-Controlled Study. Podium Presentation at the Mid-America Orthopedic Association (MAOA) Meeting. Bonita Springs, Florida. April 22-26, 2020.
107. Hevesi M, **Wyles CC**, Abu-Amer W, Sierra RJ, Trousdale RT, The ANCHOR Group, Clohisy JC, Krych AJ. Hip Arthroscopy for Patients with Persistent Pain following Periacetabular Osteotomy: No Significant Changes in Pre- and Postoperative Patient Reported Outcomes. Podium Presentation at the Mid-America Orthopedic Association (MAOA) Meeting. Bonita Springs, Florida. April 22-26, 2020.
108. Tibbo ME, **Wyles CC**, Maradit Kremers H, Fu S, Wang Y, Sohn S, Berry DJ, Lewallen DG. Use of Natural Language Processing (NLP) Tools to Identify and Classify Periprosthetic Femur Fractures. Podium Presentation at the Mid-America Orthopedic Association (MAOA) Meeting. Bonita Springs, Florida. April 22-26, 2020.
109. Pareek A, **Wyles CC**, Athey AG, Peters CL, Clohisy JC, Trousdale RT, Sierra RJ. Identifying Variables for Progression to Poor Outcomes after Periacetabular Osteotomy, a Multi-Center Study. Podium Presentation at the Mid-America Orthopedic Association (MAOA) Meeting. Bonita Springs, Florida. April 22-26, 2020.
110. **Wyles CC**, Tibbo ME, Maradit Kremers H, Fu S, Sohn S, Berry DJ, Lewallen DG. Use of Natural Language Processing Algorithms to Identify Common Elements in Operative Notes for Total Hip Arthroplasty. Poster Presentation at the Mid-America Orthopedic Association (MAOA) Meeting. Bonita Springs, Florida. April 22-26, 2020.
111. Bettencourt JW, **Wyles CC**, Osmon DO, Hanssen AD, Berry DJ, Abdel MP. Irrigation and Debridement with Chronic Antibiotic Suppression for the Management of Acutely Infected Previously Aseptic Revision Total Joint Arthroplasties. Poster Presentation at the Mid-America Orthopedic Association (MAOA) Meeting. Bonita Springs, Florida. April 22-26, 2020.
112. Hart A, Vargas JS, **Wyles CC**, Howe B, Sierra RJ. Abductor Reconstruction Using Achilles Tendon Allograft with or without Gluteus Maximus Transfer in Native and Replaced Hips. Poster presentation at the American Academy of Orthopedic Surgeons (AAOS) Meeting. Orlando, Florida. March 23-28, 2020.
113. **Wyles CC**, Pagnano MW, Perry KI, Taunton MJ, Trousdale RT, Sierra RJ, Smith HS, Duncan C, Abdel MP. Quicker and More Predictable Return of Motor Function and Ambulation after Mepivacaine vs Bupivacaine Spinal: A Double Blind RCT in Primary TKA and THA. Podium presentation at the American Academy of Orthopedic Surgeons (AAOS) Meeting. Orlando, Florida. March 23-28, 2020.

114. **Wyles CC**, Paradise CR, Trousdale RT, van Wijnen AJ, Sierra RJ. Novel Identification of Common Genetic Variants in Musculoskeletal Pathways Implicated in Familial Femoroacetabular Impingement. Podium presentation at the American Academy of Orthopedic Surgeons (AAOS) Meeting. Orlando, Florida. March 23-28, 2020.
115. **Wyles CC**, Vargas JS, Heidenreich MJ, Peters CL, Clohisy JC, Sierra RJ, Trousdale RT. Hitting the Target: Hip Natural History Based on Achieving an Acetabular Safe Zone Following Periacetabular Osteotomy. Podium presentation at the American Academy of Orthopedic Surgeons (AAOS) Meeting. Orlando, Florida. March 23-28, 2020.
116. Pareek A, Athey AG, **Wyles CC**, Peters CL, Clohisy JC, Sierra RJ, Trousdale RT. Identifying Variables for Progression to Poor Outcomes after Periacetabular Osteotomy, a Multi-Center Study utilizing Machine Learning. Podium presentation at the American Academy of Orthopedic Surgeons (AAOS) Meeting. Orlando, Florida. March 23-28, 2020.
117. Bingham JS, **Wyles CC**, Hevesi M, Maradit-Kremers H, Levy BA, Krych AJ, Sierra RJ, Trousdale RT. Economic Analysis of Open and Arthroscopic Management Techniques for Hip Dysplasia. Podium presentation at the American Academy of Orthopedic Surgeons (AAOS) Meeting. Orlando, Florida. March 23-28, 2020.
118. Hevesi M, **Wyles CC**, Yao J, Maradit-Kremers H, Lewallen DG, Habermann EB, Glasgow AE, Bews KA, Ranson JE, Visscher JE, Berry DJ. Revision TKA for Fracture: More Expensive, More Medical Complications, Same Diagnosis-Related Group: A Local and National Cohort Study. Podium presentation at the American Academy of Orthopedic Surgeons (AAOS) Meeting. Orlando, Florida. March 23-28, 2020.
119. Bettencourt JW, **Wyles CC**, Osmon DO, Hanssen AD, Berry DJ, Abdel MP. Outcomes of Primary Total Knee Arthroplasty Following Septic Arthritis of the Native Knee: A Case-Controlled Study. Podium presentation at the American Academy of Orthopedic Surgeons (AAOS) Meeting. Orlando, Florida. March 23-28, 2020.
120. Hart A, **Wyles CC**, Abdel MP, Perry KI, Pagnano MW, Taunton MJ. Thirty-Day Major and Minor Complications Following Total Hip Arthroplasty – A Comparison of the Direct Anterior, Lateral, and Posterior Approaches. Poster presentation at the American Academy of Orthopedic Surgeons (AAOS) Meeting. Orlando, Florida. March 23-28, 2020.
121. Hart A, Vargas JS, **Wyles CC**, Howe B, Sierra RJ. Abductor Reconstruction Using Achilles Tendon Allograft with or without Gluteus Maximus Transfer in Native and Replaced Hips. Poster presentation at the American Academy of Orthopedic Surgeons (AAOS) Meeting. Orlando, Florida. March 23-28, 2020.
122. Gutierrez C, Panos J, **Wyles CC**, Bingham JS, Trousdale RT, Sierra RJ. The Addition of Intra-articular Procedures to Periacetabular Osteotomies has No Effect on Reoperation Risk. Poster presentation at the American Academy of Orthopedic Surgeons (AAOS) Meeting. Orlando, Florida. March 23-28, 2020.

123. Gutierrez C, Panos J, **Wyles CC**, Bingham JS, Trousdale RT, Sierra RJ. The Addition of Intra-articular Procedures to Periacetabular Osteotomies has No Effect on Reoperation Risk. Poster presentation at the American Academy of Orthopedic Surgeons (AAOS) Meeting. Orlando, Florida. March 23-28, 2020.
124. Hevesi M, **Wyles CC**, Maradit-Kremers H, Habermann EB, Ransom J, Lewallen DG, Berry DJ. Primary Total Knee Arthroplasty in Young Patients: Increased Manipulation Under Anesthesia and Early Procedure Rates but Similar Inpatient Resource Utilization as Compared to Older Peers. Poster presentation at the American Academy of Orthopedic Surgeons (AAOS) Meeting. Orlando, Florida. March 23-28, 2020.
125. Hevesi M, **Wyles CC**, Yao J, Maradit-Kremers H, Habermann EB, Bews K, Ransom JE, Lewallen DG, Berry DJ. Revision Total Knee Arthroplasty for the Treatment of Fracture: More Expensive, More Medical Complications, Same Diagnosis-Related Groups: A Local and National Cohort Study. Poster presentation at the American Academy of Orthopedic Surgeons (AAOS) Meeting. Orlando, Florida. March 23-28, 2020.
126. **Wyles CC**, Hart A, Hevesi M, Perry KI, Abdel MP, Pagnano MW, Taunton MJ. Risk of Dislocation by Surgical Approach Following Modern Primary Total Hip Arthroplasty. Poster presentation at the American Academy of Orthopedic Surgeons (AAOS) Meeting. Orlando, Florida. March 23-28, 2020.
127. **Wyles CC**, Hart A, Hevesi M, Perry KI, Abdel MP, Pagnano MW, Taunton MJ. Risk of Dislocation by Surgical Approach Following Modern Primary Total Hip Arthroplasty. Podium Presentation at the American Association of Hip and Knee Surgeons (AAHKS) Meeting. Dallas, Texas. November 7–10, 2019.
128. **Wyles CC**, Pagnano MW, Perry KI, Taunton MJ, Trousdale RT, Sierra RJ, Smith HS, Duncan C, Abdel MP. Quicker and More Predictable Return of Motor Function and Ambulation after Mepivacaine vs Bupivacaine Spinal: A Double Blind RCT in Primary TKA and THA. Podium Presentation at the American Association of Hip and Knee Surgeons (AAHKS) Meeting. Dallas, Texas. November 7–10, 2019.
129. Hevesi M, **Wyles CC**, Abu-Amer W, Sierra RJ, Trousdale RT, The ANCHOR Group, Clohisy JC, Krych AJ. Hip Arthroscopy for Patients with Persistent Pain following Periacetabular Osteotomy: No Significant Changes in Pre- and Postoperative Patient Reported Outcomes. Podium Presentation at the American Association of Hip and Knee Surgeons (AAHKS) Meeting. Dallas, Texas. November 7–10, 2019.
130. **Wyles CC**, Vargas JS, Heidenreich MH, Mara KC, Peters CL, Clohisy JC, Sierra RJ, Trousdale RT. Hitting the Target: Hip Natural History Based on Achieving an Acetabular Safe Zone Following Periacetabular Osteotomy. Poster Presentation at the American Association of Hip and Knee Surgeons (AAHKS) Meeting. Dallas, Texas. November 7–10, 2019.
131. Lenartowicz KA, **Wyles CC**, Carlson SW, Sierra RJ, Trousdale RT. The Prevalence of Groin Pain After Primary Dual Mobility Hip Arthroplasty. Poster Presentation at the American Association of Hip and Knee Surgeons (AAHKS) Meeting. Dallas, Texas. November 7–10, 2019.

132. Hevesi M, **Wyles CC**, Maradit-Kremers H, Ransom JE, Habermann EB, Berry DJ, Lewallen DG. Primary Total Knee Arthroplasty in Young Patients: Increased Manipulation Under Anesthesia and Early Procedure Rates but Similar Inpatient Resource Utilization as Compared to Older Peers. Poster Presentation at the American Association of Hip and Knee Surgeons (AAHKS) Meeting. Dallas, Texas. November 7–10, 2019.
133. Bettencourt JW, **Wyles CC**, Osmon DO, Hanssen AD, Berry DJ, Abdel MP. Outcomes of Primary Total Knee Arthroplasty Following Septic Arthritis of the Native Knee: A Case-Controlled Study. Poster Presentation at the American Association of Hip and Knee Surgeons (AAHKS) Meeting. Dallas, Texas. November 7–10, 2019.
134. Bettencourt JW, **Wyles CC**, Osmon DO, Hanssen AD, Berry DJ, Abdel MP. Outcomes of Primary Total Hip Arthroplasty Following Septic Arthritis of the Native Hip: A Case-Controlled Study. Poster Presentation at the American Association of Hip and Knee Surgeons (AAHKS) Meeting. Dallas, Texas. November 7–10, 2019.
135. Pareek A, **Wyles CC**, Athey AG, Peters CL, Clohisy JC, Trousdale RT, Sierra RJ. Identifying Variables for Progression to Poor Outcomes after Periacetabular Osteotomy, a Multi-Center Study. Poster Presentation at the American Association of Hip and Knee Surgeons (AAHKS) Meeting. Dallas, Texas. November 7–10, 2019.
136. Rainer WG, Kolz J, **Wyles CC**, Houdek MT, Perry KI, Lewallen DG. Total Hip Arthroplasty in Patients with Lymphedema: A Matched Cohort Study. Poster Presentation at the American Association of Hip and Knee Surgeons (AAHKS) Meeting. Dallas, Texas. November 7–10, 2019.
137. Hevesi M, **Wyles CC**, Sierra RJ, Trousdale RT, Habermann EB, Maradit-Kremers H, Krych AJ, Saris DBF. Revision and Repeat Revision Rates and the Potential Cost-Utility of Knee Preservation in Young Total Knee Arthroplasty Patients. Poster presented at the International Cartilage Repair Society 15th World Congress, Vancouver, Canada, October 5-8, 2019.
138. Taunton MJ, **Wyles CC**, Hart A, Hevesi M, Perry KI, Abdel MP, Pagnano MW. Risk of Dislocation by Surgical Approach Following Modern Primary Total Hip Arthroplasty. Podium Presentation at the Hip Society Closed Scientific Meeting. Kohler, Wisconsin. September 25-27 2019.
139. Trousdale RT, **Wyles CC**, Paradise CR, Masters T, Patel R, van Wijnen AJ, Abdel MP, Sierra RJ. Cobalt Ion Release in Metal-on-Polyethylene Total Hip Arthroplasty: A Simulator Study with Cellular and Microbiological Correlations. Podium Presentation at the Hip Society Closed Scientific Meeting. Kohler, Wisconsin. September 25-27 2019.
140. Bartels DW, Hevesi M, **Wyles CC**, Macalena JA, Kakar S, Krych AJ. Epidemiology of Hand and Wrist Injuries in National Collegiate Athletic Association Football Players from 2009 to 2014: Incidence and Injury Patterns. Poster presented at American Orthopaedic Society for Sports Medicine 2019 Annual Meeting, July 2019, Boston, MA.

141. **Wyles CC**, Paradise CR, Houdek MT, Slager SL, van Wijnen AJ, Terzic A, Behfar A, Sierra RJ. Osteonecrosis Risk Imparted by PPARG Genetic Variance and Pharmacologic Modulation. CORR® ORS Richard A. Brand Award for Outstanding Orthopaedic Research Podium Presentation at the Association of Bone and Joint Surgeons (ABJS) Meeting. Newport, Rhode Island. July 17-21, 2019.
142. **Wyles CC**. Who Should Get a Total Joint Replacement? Invited Lecturer. Charter House Medical Lecture Series. Rochester, Minnesota. June 24, 2019.
143. **Wyles CC**. Genetic Underpinnings of Osteonecrosis. Invited Lecturer. Mayo Clinic Summer Research Lecture Series. Rochester, Minnesota. June 11, 2019.
144. **Wyles CC**, Hevesi M, Osmon DR, Park MA, Habermann EB, Lewallen DG, Berry DJ, Sierra RJ. E.W. Johnson Award Presentation. Increased PJI Risk Following Primary TKA and THA with Alternatives to Cefazolin: The Value of Allergy Testing for Antibiotic Prophylaxis. Mark B. Coventry Clinic Research Award Presentation. Mayo Clinic Orthopedic Surgery Graduation. June 7, 2019.
145. Labott JL, **Wyles CC**, Trousdale RT, Yuan BJ. Open Periprosthetic Fractures about TKA: A Descriptive Study. Podium Presentation at the Minnesota Orthopedic Association (MOA) Meeting. Minneapolis, Minnesota. May 10, 2019.
146. Hevesi M, **Wyles CC**, Sierra RJ, Trousdale RT, Habermann EB, Maradit-Kremers H, Krych AJ, Saris DBF. Reoperation, Revision, and Repeat Revision Rates and the Potential Cost-Utility of Knee Preservation in Young Total Knee Arthroplasty Patient. Paper presented at the International Society of Arthroscopy, Knee Surgery, and Orthopedic Sports Medicine, 2019 Annual Meeting, May 2019, Cancun, Mexico.
147. Bukowski BR, **Wyles CC**, Hart A, Abdel MP, Trousdale RT. The Stiff Knee: Revision for Limited Range of Motion Following Primary Total Knee Arthroplasty. Podium Presentation at the Minnesota Orthopedic Association (MOA) Meeting. Minneapolis, Minnesota. May 10, 2019.
148. Kolz JM, **Wyles CC**, Van Citters DW, Abdel MP, Berry DJ, Trousdale RT. In Vivo Corrosion of Modular Dual Mobility Implants: A Retrieval Study. Podium Presentation at the Minnesota Orthopedic Association (MOA) Meeting. Minneapolis, Minnesota. May 10, 2019.
149. **Wyles CC**, Hevesi M, Osmon DR, Park MA, Habermann EB, Lewallen DG, Berry DJ, Sierra RJ. Increased PJI Risk Following Primary TKA and THA with Alternatives to Cefazolin: The Value of Allergy Testing for Antibiotic Prophylaxis. Poster Presentation at the Indian Society of Hip and Knee Surgeons (ISHKS). Bengal, India. April 12-14, 2019.
150. **Wyles CC**, Hevesi M, Osmon DR, Park MA, Habermann EB, Lewallen DG, Berry DJ, Sierra RJ. E.W. Johnson Award Presentation. Increased PJI Risk Following Primary TKA and THA with Alternatives to Cefazolin: The Value of Allergy Testing for Antibiotic Prophylaxis. Podium Presentation at the Mid-America Orthopedic Association (MAOA) Meeting. Miramar Beach, Florida. April 10-14, 2019.

151. **Wyles CC**, Hevesi M, Ubl DS, Gazelka HM, Trousdale RT, Pagnano MW, Habermann EB, Mabry TM. Patient Opioid Requirements Are Often Far Less Than Their Discharge Prescription Following Orthopedic Surgery: Results of a Prospective Multicenter Survey. Podium Presentation at the Mid-America Orthopedic Association (MAOA) Meeting. Miramar Beach, Florida. April 10-14, 2019.
152. **Wyles CC**, Bingham JS, Hartigan DE, Levy BA, Trousdale RT, Krych AJ, Sierra RJ. Concurrent Open and Arthroscopic Surgical Management for Hip Dysplasia Does Not Reduce the Rate of Reoperation. Podium Presentation at the Mid-America Orthopedic Association (MAOA) Meeting. Miramar Beach, Florida. April 10-14, 2019.
153. **Wyles CC**, Kolz JM, Van Citters DW, Abdel MP, Berry DJ, Trousdale RT. In Vivo Corrosion of Sleeved Ceramic Femoral Head Implants: A Retrieval Study. Podium Presentation at the Mid-America Orthopedic Association (MAOA) Meeting. Miramar Beach, Florida. April 10-14, 2019.
154. **Wyles CC**, Paradise CR, Houdek MT, Slager SL, van Wijnen AJ, Terzic A, Behfar A, Sierra RJ. Osteonecrosis Risk Imparted by PPARG Genetic Variance and Pharmacologic Modulation. Podium Presentation at the Mid-America Orthopedic Association (MAOA) Meeting. Miramar Beach, Florida. April 10-14, 2019.
155. **Wyles CC**, Vargas JS, Heidenreich MJ, Mara KC, Peters CL, Clohisy JC, Trousdale RT, Sierra RJ. Natural History of the Dysplastic Hip Following Modern PAO. Podium Presentation at the Mid-America Orthopedic Association (MAOA) Meeting. Miramar Beach, Florida. April 10-14, 2019.
156. **Wyles CC**, Paradise CR, Masters T, Patel R, van Wijnen AJ, Abdel MP, Trousdale RT, Sierra RJ. Cobalt Ion Release in Metal-on-Polyethylene Total Hip Arthroplasty: A Simulator Study with Cellular and Microbiological Correlations. Podium Presentation at the Mid-America Orthopedic Association (MAOA) Meeting. Miramar Beach, Florida. April 10-14, 2019.
157. **Wyles CC**, Carlson SW, Vargas JS, Carlson BC, Sierra RJ. Single-Dose Perioperative Antibiotics Do Not Increase the Risk of Periprosthetic Joint Infection in Unicompartmental Knee Arthroplasty. Podium Presentation at the Mid-America Orthopedic Association (MAOA) Meeting. Miramar Beach, Florida. April 10-14, 2019.
158. Bukowski BR, **Wyles CC**, Hart A, Abdel MP, Trousdale RT. The Stiff Knee: Revision for Limited Range of Motion Following Primary Total Knee Arthroplasty. Podium Presentation at the Mid-America Orthopedic Association (MAOA) Meeting. Miramar Beach, Florida. April 10-14, 2019.
159. Kolz JM, Rainer WG, **Wyles CC**, Houdek MT, Perry KI, Lewallen DG. Total Knee Arthroplasty in Patients with Lymphedema: A Matched Cohort Study. Podium Presentation at the Mid-America Orthopedic Association (MAOA) Meeting. Miramar Beach, Florida. April 10-14, 2019.
160. Athey AG, Sabbag CM, **Wyles CC**, Bakri K, Perry KI, Houdek MT, Moran SL. Free Flap Coverage for Revision Total Knee Arthroplasty. Podium Presentation at the Mid-America Orthopedic Association (MAOA) Meeting. Miramar Beach, Florida. April 10-14, 2019.

161. Hevesi M, Hartigan DE, Wu IT, **Wyles CC**, Desai VS, van Wijnen AJ, Levy BA, Saris DBF, Krych AJ. The Rapidly Assessed Predictor of Intraoperative Damage (RAPID) Score: An In-Clinic Predictive Model for High Grade Acetabular Chondrolabral Disruption. Podium Presentation at the Mid-America Orthopedic Association (MAOA) Meeting. Miramar Beach, Florida. April 10-14, 2019.
162. **Wyles CC**, Hevesi M, Ubl DS, Gazelka HM, Trousdale RT, Pagnano MW, Habermann EB, Mabry TM. Patient Opioid Requirements Are Often Far Less Than Their Discharge Prescription Following Orthopedic Surgery: Results of a Prospective Multicenter Survey. Poster Presentation at the Mid-America Orthopedic Association (MAOA) Meeting. Miramar Beach, Florida. April 10-14, 2019.
163. **Wyles CC**, Panos JA, Houdek MT, Berry DJ, Trousdale RT, Taunton MJ. Total Hip Arthroplasty in Patients with Spondyloepiphyseal Dysplasia: A Long-Term Outcome Study of 50 Cases. Poster Presentation at the Mid-America Orthopedic Association (MAOA) Meeting. Miramar Beach, Florida. April 10-14, 2019.
164. Hart A, **Wyles CC**, Abdel MP, Perry KI, Pagnano MW, Taunton MJ. Thirty-Day Major and Minor Complications Following Total Hip Arthroplasty – A Comparison of the Direct Anterior, Lateral, and Posterior Approaches. Poster Presentation at the Mid-America Orthopedic Association (MAOA) Meeting. Miramar Beach, Florida. April 10-14, 2019.
165. Bartels DW, Hevesi M, **Wyles CC**, Macalena JA, Kakar S, Krych AJ. Epidemiology of Hand and Wrist Injuries in National Collegiate Athletic Association Football Players from 2009 to 2014: Incidence and Injury Patterns. Poster Presentation at the Mid-America Orthopedic Association (MAOA) Meeting. Miramar Beach, Florida. April 10-14, 2019.
166. **Wyles CC**, Hevesi M, Osmon DR, Park MA, Habermann EB, Lewallen DG, Berry DJ, Sierra RJ. John Charnley Award Presentation at Hip Society Specialty Day: Increased PJI Risk Following Primary TKA and THA with Alternatives to Cefazolin: The Value of Allergy Testing for Antibiotic Prophylaxis. Podium Presentation at the American Academy of Orthopedic Surgeons (AAOS) Meeting. Las Vegas, Nevada. March 12-16, 2019.
167. **Wyles CC**, Tibbo ME, Mara KC, Yuan BJ, Trousdale RT, Abdel MP. Long-Term Results After Total Knee Arthroplasty with 144 Distal Femoral Replacements. Podium Presentation at the American Academy of Orthopedic Surgeons (AAOS) Meeting. Las Vegas, Nevada. March 12-16, 2019.
168. **Wyles CC**, Hevesi M, Ubl DS, Habermann EB, Gazelka HM, Trousdale RT, Pagnano MW, Mabry TM. Patient Opioid Requirements Are Often Far Less Than Their Discharge Prescription Following Orthopedic Surgery: Results of a Prospective Multicenter Survey. Podium Presentation at the American Academy of Orthopedic Surgeons (AAOS) Meeting. Las Vegas, Nevada. March 12-16, 2019.
169. **Wyles CC**, Vargas JS, Heidenreich MJ, Mara KC, Peters CL, Clohisy JC, Trousdale RT, Sierra RJ. Natural History of the Dysplastic Hip Following Modern PAO. Podium Presentation at the American Academy of Orthopedic Surgeons (AAOS) Meeting. Las Vegas, Nevada. March 12-16, 2019.

170. **Wyles CC**, Paradise CR, Houdek MT, Slager SL, van Wijnen AJ, Terzic A, Behfar A, Sierra RJ. Osteonecrosis Risk Imparted by PPARG Genetic Variance and Pharmacologic Modulation. Podium Presentation at the American Academy of Orthopedic Surgeons (AAOS) Meeting. Las Vegas, Nevada. March 12-16, 2019.
171. **Wyles CC**, Hevesi M, Osmon DR, Park MA, Habermann EB, Lewallen DG, Berry DJ, Sierra RJ. Increased PJI Risk Following Primary TKA and THA with Alternatives to Cefazolin: The Value of Allergy Testing for Antibiotic Prophylaxis. Podium Presentation at the American Academy of Orthopedic Surgeons (AAOS) Meeting. Las Vegas, Nevada. March 12-16, 2019.
172. Hevesi M, **Wyles CC**, Osmon DR, Park MA, Habermann EB, Lewallen DG, Berry DJ, Sierra RJ. Clinical and Cost Efficacy of Formal Allergy Testing for THA and TKA Patients with Penicillin and Cephalosporin Allergies. Podium Presentation at the American Academy of Orthopedic Surgeons (AAOS) Meeting. Las Vegas, Nevada. March 12-16, 2019.
173. Bukowski BR, **Wyles CC**, Hart A, Abdel MP, Trousdale RT. The Stiff Knee: Revision for Limited Range of Motion Following Primary Total Knee Arthroplasty. Podium Presentation at the American Academy of Orthopedic Surgeons (AAOS) Meeting. Las Vegas, Nevada. March 12-16, 2019.
174. Kolz JM, Rainer WG, **Wyles CC**, Houdek MT, Perry KI, Lewallen DG. Total Knee Arthroplasty in Patients with Lymphedema: A Matched Cohort Study. Podium Presentation at the American Academy of Orthopedic Surgeons (AAOS) Meeting. Las Vegas, Nevada. March 12-16, 2019.
175. **Wyles CC**, Kolz JM, Van Citters DW, Abdel MP, Berry DJ, Trousdale RT. In Vivo Corrosion of Sleeved Ceramic Femoral Head Implants: A Retrieval Study. Poster Presentation at the American Academy of Orthopedic Surgeons (AAOS) Meeting. Las Vegas, Nevada. March 12-16, 2019.
176. **Wyles CC**, Paradise CR, Masters T, Patel R, van Wijnen AJ, Abdel MP, Trousdale RT, Sierra RJ. Cobalt Ion Release in Metal-on-Polyethylene Total Hip Arthroplasty: A Simulator Study with Cellular and Microbiological Correlations. Poster Presentation at the American Academy of Orthopedic Surgeons (AAOS) Meeting. Las Vegas, Nevada. March 12-16, 2019.
177. Tibbo ME, **Wyles CC**, Rose PS, Houdek MT, Wilke BK. Outcomes of Primary Total Knee Arthroplasty in Patients with Ehlers-Danlos. Poster Presentation at the American Academy of Orthopedic Surgeons (AAOS) Meeting. Las Vegas, Nevada. March 12-16, 2019.
178. **Wyles CC**, Hevesi M, Ubl DS, Gazelka HM, Trousdale RT, Pagnano MW, Habermann EB, Mabry TM. Implementation of Procedure-Specific Opioid Guidelines: A Facile Strategy to Improve Consistency and Decrease Excess Prescribing Following Orthopedic Surgery. Poster Presentation at the ACGME Annual Education Conference. Orlando, Florida. March 7-10, 2019.
179. **Wyles CC**, Paradise CR, Houdek MT, Slager SL, van Wijnen AJ, Terzic A, Behfar A, Sierra RJ. Osteonecrosis Risk Imparted by PPARG Genetic Variance and Pharmacologic Modulation. CORR® ORS Richard A. Brand Award for Outstanding Orthopaedic Research Podium Presentation at the Orthopedic Research Society (ORS) Meeting. Austin, Texas. February 2-5, 2019.

180. Huang TC, Lu CK, Vrieze A, **Wyles CC**, Zhao C, Moran SL. Pentamidine Decreases Adhesion Formation after Flexor Tendon Repair. Poster Presentation at the Orthopedic Research Society (ORS) Meeting. Austin, Texas. February 2-5, 2019.
181. Achieng M, Purushothaman M, **Wyles CC**, Boroumond S, De La Vega Amador R, Evans CH, TerzicA, BehfarA. Exosomes as Novel Effectors of Osteogenic Regeneration. Poster presentation at the Mayo Clinic Symposium on Regenerative Medicine and Surgery. Scottsdale, AZ. November 30, 2018.
182. *****Wyles CC**. Double Blind, Phase I, Randomized, Parallel-Group Study of Hip Decompression Compared to Hip Decompression Supplemented at the Point of Care with Adipose Derived Regenerative Cells for Bilateral Pre-collapse Femoral Head Osteonecrosis. Mayo Clinic Symposium on Regenerative Medicine and Surgery. Scottsdale, AZ. November 30, 2018.
183. Sharma S, Ponamgi Shiva, Desimone C, Sun P, **Wyles CC**, Yogeswaran V, Padmanabahn D, El-Harasis M, Hodge D, Slusser J, Abdel MP, Asirvatham S. Incidence of Atrial Fibrillation in Patients With Cobalt and Chromium Containing Hip Arthroplasty. Poster Presentation at the American Heart Association Meeting. Chicago, Illinois. November 10-12, 2018.
184. Sharma S, Ponamgi Shiva, Desimone C, Sun P, **Wyles CC**, Yogeswaran V, Padmanabahn D, El-Harasis M, Hodge D, Slusser J, Abdel MP, Asirvatham S. Incidence of cardiomyopathy and mortality from Cobalt and Chromium Metal on Metal Hip Replacement. Poster Presentation at the American Heart Association Meeting. Chicago, Illinois. November 10-12, 2018.
185. **Wyles CC**, Vargas JS, Heidenreich MJ, Mara KC, Peters CL, Clohisy JC, Trousdale RT, Sierra RJ. Natural History of the Dysplastic Hip Following Modern PAO. Podium Presentation at the American Association of Hip and Knee Surgeons (AAHKS) Meeting. Dallas, Texas. November 1-4, 2018.
186. **Wyles CC**, Panos JA, Houdek MT, Berry DJ, Trousdale RT, Taunton MJ. Total Hip Arthroplasty in Patients with Spondyloepiphyseal Dysplasia: A Long-Term Outcome Study of 50 Cases. Poster Presentation at the American Association of Hip and Knee Surgeons (AAHKS) Meeting. Dallas, Texas. November 1-4, 2018.
187. **Wyles CC**, Hevesi M, Osmon DR, Park MA, Habermann EB, Lewallen DG, Berry DJ, Sierra RJ. Increased PJI Risk Following Primary TKA and THA with Alternatives to Cefazolin: The Value of Allergy Testing for Antibiotic Prophylaxis. Poster Presentation at the American Association of Hip and Knee Surgeons (AAHKS) Meeting. Dallas, Texas. November 1-4, 2018.
188. **Wyles CC**, Tibbo ME, Mara KC, Yuan BJ, Trousdale RT, Abdel MP. Long-Term Results After Total Knee Arthroplasty with 144 Distal Femoral Replacements. Poster Presentation at the American Association of Hip and Knee Surgeons (AAHKS) Meeting. Dallas, Texas. November 1-4, 2018.

189. **Wyles CC**, Hevesi M, Ubl DS, Habermann EB, Gazelka HM, Trousdale RT, Pagnano MW, Mabry TM. Implementation of Procedure-Specific Opioid Guidelines: A Facile Strategy to Improve Consistency and Decrease Excess Prescribing Following Orthopedic Surgery. Poster Presentation at the American Association of Hip and Knee Surgeons (AAHKS) Meeting. Dallas, Texas. November 1-4, 2018.
190. **Wyles CC**, Kolz JM, Van Citters DW, Abdel MP, Berry DJ, Trousdale RT. In Vivo Corrosion of Sleeved Ceramic Femoral Head Implants: A Retrieval Study. Poster Presentation at the American Association of Hip and Knee Surgeons (AAHKS) Meeting. Dallas, Texas. November 1-4, 2018.
191. **Wyles CC**, Paradise CR, Masters T, Patel R, van Wijnen AJ, Abdel MP, Trousdale RT, Sierra RJ. Cobalt Ion Release in Metal-on-Polyethylene Total Hip Arthroplasty: A Simulator Study with Cellular and Microbiological Correlations. Poster Presentation at the American Association of Hip and Knee Surgeons (AAHKS) Meeting. Dallas, Texas. November 1-4, 2018.
192. **Wyles CC**, Carlson SW, Vargas JS, Carlson BC, Sierra RJ. Single-Dose Perioperative Antibiotics Do Not Increase the Risk of Periprosthetic Joint Infection in Unicompartmental Knee Arthroplasty. Poster Presentation at the American Association of Hip and Knee Surgeons (AAHKS) Meeting. Dallas, Texas. November 1-4, 2018.
193. Bingham JS, **Wyles CC**, Hartigan DE, Levy BA, Trousdale RT, Krych AJ, Sierra RJ. Concurrent Open and Arthroscopic Surgical Management for Hip Dysplasia Does Not Reduce the Rate of Reoperation. Poster Presentation at the American Association of Hip and Knee Surgeons (AAHKS) Meeting. Dallas, Texas. November 1-4, 2018.
194. Hevesi M, **Wyles CC**, Athey AG, Perry KI, Taunton MJ, Sierra RJ, Lewallen DG, Pagnano MW, Trousdale RT. Evaluating the Harris Hip Score and Forgotten Joint Score in Patient Stratification Following Total Hip Arthroplasty: A Prospective Study. Poster Presentation at the American Association of Hip and Knee Surgeons (AAHKS) Meeting. Dallas, Texas. November 1-4, 2018.
195. Bingham JS, Bukowski BR, **Wyles CC**, Trousdale RT, Berry DJ, Abdel MP. Rotating-Hinge Revision Total Knee Arthroplasty for Treatment of Malignant Arthrofibrosis. Poster Presentation at the American Association of Hip and Knee Surgeons (AAHKS) Meeting. Dallas, Texas. November 1-4, 2018.
196. **Wyles CC**, Labott JR, Shaughnessy WJ, Sierra RJ, Houdek MT. Outcomes Of Total Knee Arthroplasty In The Setting Of Klippel-Trénaunay Syndrome. Poster Presentation at the Musculoskeletal Tumor Society Meeting. New York, New York. October 10-12, 2018.
197. **Wyles CC**, Hevesi M, Osmon DR, Park MA, Habermann EB, Lewallen DG, Berry DJ, Sierra RJ. Increased PJI Risk Following Primary TKA and THA with Alternatives to Cefazolin: The Value of Allergy Testing for Antibiotic Prophylaxis. Podium Presentation at the Closed Knee Society Meeting. Saint Louis, Missouri. September 20-22, 2018.
198. **Wyles CC**, Tibbo ME, Maradit Kremers H, Fu S, Sohn S, Berry DJ, Lewallen DG. Natural Language Processing (NLP) Tools Enable Facile and Accurate Capture of Surgical Approach from Operative Reports in Total Hip Arthroplasty (THA). Poster Presentation at the 7th International Society of Arthroplasty Registries (ISAR) Congress. Reykjavik, Iceland. June 9-11, 2018.

199. Tibbo ME, **Wyles CC**, Maradit Kremers H, Fu S, Wang Y, Sohn S, Berry DJ, Lewallen DG. Use of Natural Language Processing (NLP) Tools to Identify and Classify Periprosthetic Femur Fractures. Poster Presentation at the 7th International Society of Arthroplasty Registries (ISAR) Congress. Reykjavik, Iceland. June 9-11, 2018.
200. Hevesi M, **Wyles CC**, Yao JJ, Maradit Kremers H, Habermann EB, Glasgow AE, Bews KA, Ransom JE, Visscher SL, Lewallen DG, Berry DJ. Hospital Costs of Aseptic Revision Total Hip Arthroplasty (THA) Differ by Primary Operative Indications: A Local and National Registry Study. Podium Presentation at the 7th International Society of Arthroplasty Registries (ISAR) Congress. Reykjavik, Iceland. June 10, 2018.
201. **Wyles CC**, Bartels DW, Hevesi M, Sierra RJ, Trousdale RT. Similar Outcomes Between Patients Managed with PAO Alone vs. PAO and Simultaneous Hip Arthroscopy for the Management of Developmental Dysplasia of the Hip. Podium Presentation at the Mid-America Orthopedic Association (MAOA) Meeting. San Antonio, Texas. April 18-21, 2018.
202. **Wyles CC**, Robinson WA, Wagner ER, Houdek MT, Mabry TM, Trousdale RT. Cost and Patient Outcomes Associated with Bilateral TKA Performed by Two-Surgeon Teams versus Single-Surgeon Practice. Podium Presentation at the Mid-America Orthopedic Association (MAOA) Meeting. San Antonio, Texas. April 18-21, 2018.
203. **Wyles CC**, Tibbo ME, Houdek MT, Rose PS, Sim FH, Taunton MJ. Long-Term Outcome of Hip Arthroplasty in the Setting of Pigment Villonodular Synovitis. Podium Presentation at the Mid-America Orthopedic Association (MAOA) Meeting. San Antonio, Texas. April 18-21, 2018.
204. Swiatkowski I, Mosselmans F, Trousdale RT, **Wyles CC**, Maleszewski JJ, Sabah S, Henckel J, Sampson B, Hart A. Is Carcinogenic Chromium Found in Organs of Total Joint Arthroplasty (TJA) Patients? Podium Presentation at the Orthopedic Research Society (ORS) Meeting. New Orleans, Louisiana. March 12-15, 2018.
205. **Wyles CC**, Hevesi M, Trousdale ER, Ubl DS, Gazelka HM, Habermann EB, Trousdale RT, Pagnano MW, Mabry TM. The Chitranjan Ranawat Award: Developing and Implementing a Novel Guideline Strategy Reduced Postoperative Opioid Prescribing Following TKA and THA. Chitranjan Ranawat Award Knee Society Specialty Day Podium Presentation at the American Academy of Orthopedic Surgeons (AAOS) Meeting. New Orleans, Louisiana. March 6-10, 2018.
206. **Wyles CC**, Norambuena GA, Yuan BJ, Larson DR, Howe BM, Trousdale RT, Sierra RJ. 5-Year Natural History of FAI in Adolescent Athletes: A Prospective Matched Cohort Study. E.W. Johnson Award Podium Presentation at the American Academy of Orthopedic Surgeons (AAOS) Meeting. New Orleans, Louisiana. March 6-10, 2018.
207. **Wyles CC**, Robinson WA, Wagner ER, Houdek MT, Mabry TM, Trousdale RT. Cost and Patient Outcomes Associated with Bilateral TKA Performed by Two-Surgeon Teams versus Single-Surgeon Practice. Podium Presentation at the American Academy of Orthopedic Surgeons (AAOS) Meeting. New Orleans, Louisiana. March 6-10, 2018.

208. Houdek MT, **Wyles CC**, Janetto P, Berry DJ, Lewallen DG. Synovial Fluid Metal Ion Levels are Superior to Whole Blood and Serum Metal Ion Levels in Predicting Local Tissue Destruction in Failed Hip Arthroplasty Constructs: A Prospective Evaluation. Podium Presentation at the American Academy of Orthopedic Surgeons (AAOS) Meeting. New Orleans, Louisiana. March 6-10, 2018.
209. Swiatkowski I, Mosselmans F, Trousdale RT, **Wyles CC**, Maleszewski JJ, Sabah S, Henckel J, Sampson B, Hart A. Is Carcinogenic Chromium Found in Organs of Total Joint Arthroplasty (TJA) Patients? Poster Presentation at the American Academy of Orthopedic Surgeons (AAOS) Meeting. New Orleans, Louisiana. March 6-10, 2018.
210. **Wyles CC**, Hevesi M, Bartels DW, Trousdale RT, Sierra RJ. Similar Outcomes Between Patients Managed with PAO Alone Versus PAO and Simultaneous Hip Arthroscopy for the Management of Developmental Dysplasia of the Hip. Poster Presentation at the American Association of Hip and Knee Surgeons (AAHKS) Meeting. Dallas, Texas. November 3-5, 2017.
211. Houdek MT, **Wyles CC**, Lewallen DG, Berry DJ. Synovial Fluid Metal Ion Levels are Superior to Whole Blood and Serum Metal Ion Levels in Predicting Local Tissue Destruction in Failed Hip Arthroplasty Constructs: A Prospective Evaluation. Poster Presentation at the American Association of Hip and Knee Surgeons (AAHKS) Meeting. Dallas, Texas. November 3-5, 2017.
212. **Wyles CC**, Achieng MA, Boroumand S, Li M, De la Vega Amador RE, Evans CH, Terzic A, Behfar A. Exosomes as Novel Effectors of Osteogenic Regeneration. Poster Presentation at Biomedical Engineering Society (BMES) Meeting. Phoenix, Arizona. October 11-14, 2017.
213. Tibbo ME, Houdek MT, **Wyles CC**, Rose PS, Sim FH, Taunton MJ. Long-Term Outcome of Hip Arthroplasty in the Setting of Pigment Villonodular Synovitis. Poster Presentation at the Musculoskeletal Tumor Society (MSTS) Meeting. Denver, Colorado. September 27-29, 2017.
214. Houdek MT, **Wyles CC**, Rose PS, Sim, M.J. Taunton. Long-Term Outcome of Hip Arthroplasty in the Setting of Synovial Chondromatosis. Poster Presentation at the Musculoskeletal Tumor Society (MSTS) Meeting. Denver, Colorado. September 27-29, 2017.
215. **Wyles CC**, Achieng MA, Boroumand S, Li M, De la Vega Amador RE, Evans CH, Terzic A, Behfar A. Exosomes as Novel Effectors of Osteogenic Regeneration. Poster Presentation at Mayo Clinic Summer Research Symposium. Rochester, Minnesota. August 2, 2017.
216. **Wyles CC**, Norambuena GA, Yuan BJ, Larson DR, Howe BM, Trousdale RT, Sierra RJ. 5-Year Natural History of FAI in Adolescent Athletes: A Prospective Matched Cohort Study. Podium Presentation at the International Society of Arthroscopy, Knee Surgery and Sports Medicine (ISAKOS) Meeting. Shanghai, China. June 4-8, 2017.
217. ****Wyles CC**. Myocardial Cobalt Levels are Elevated in the Setting of Total Hip Arthroplasty. Mark B. Coventry Award Presentation. Mayo Clinic Department of Orthopedic Surgery 2017 Graduation Ceremony. Rochester, MN. June 2, 2017.

218. **Wyles CC**, Norambuena GA, Yuan BJ, Larson DR, Howe BM, Trousdale RT, Sierra RJ. 5-Year Natural History of FAI in Adolescent Athletes: A Prospective Matched Cohort Study. Podium Presentation at the Mid-America Orthopedic Association (MAOA) Meeting. Amelia Island, Florida. April 19-23, 2017.
219. **Wyles CC**, Houdek MT, Martin JR, Sierra RJ. Concentrated Mesenchymal Stem Cells Combined with Platelet Rich Plasma is Effective in Treating Pre-Collapse Osteonecrosis of the Femoral Head: A Prospective Study. Podium Presentation at the Mid-America Orthopedic Association (MAOA) Meeting. Amelia Island, Florida. April 19-23, 2017.
220. Houdek MT, **Wyles CC**, Rose PS, Stuart MJ, Sim FH, Taunton MJ. High Rate of Local Recurrence and Amputation Following Total Knee Arthroplasty in the Setting of Synovial Chondromatosis. Podium Presentation at the Mid-America Orthopedic Association (MAOA) Meeting. Amelia Island, Florida. April 19-23, 2017.
221. Houdek MT, **Wyles CC**, Rose PS, Sim FH, Taunton MJ. Long-Term Outcome of Knee Arthroplasty in the Setting of Pigmented Villonodular Synovitis (PVNS). Podium Presentation at the Mid-America Orthopedic Association (MAOA) Meeting. Amelia Island, Florida. April 19-23, 2017.
222. **Wyles CC**, Wagner ER, Houdek MT, Lachman N, Spinner RJ. Gaining Infraspinal Branch Length to Facilitate Direct Nerve Transfer of a Triceps Branch to the Suprascapular Nerve for Targeted Reinnervation of the Infraspinal: A Feasibility Study. Poster Presentation at the Mid-America Orthopedic Association (MAOA) Meeting. Amelia Island, Florida. April 19-23, 2017.
223. **Wyles CC**, Houdek MT, Martin JR, Sierra RJ. Concentrated Mesenchymal Stem Cells Combined with Platelet Rich Plasma is Effective in Treating Pre-Collapse Osteonecrosis of the Femoral Head: A Prospective Study. Poster Presentation at the American Academy of Orthopedic Surgeons (AAOS) Meeting. San Diego, California. March 14-18, 2017.
224. Houdek MT, **Wyles CC**, Rose PS, Stuart MJ, Sim FH, Taunton MJ. High Rate of Local Recurrence and Amputation Following Total Knee Arthroplasty in the Setting of Synovial Chondromatosis. Podium Presentation at the American Academy of Orthopedic Surgeons (AAOS) Meeting. San Diego, California. March 14-18, 2017.
225. Houdek MT, **Wyles CC**, Rose PS, Sim FH, Taunton MJ. Long-Term Outcome of Knee Arthroplasty in the Setting of Pigmented Villonodular Synovitis (PVNS). Podium Presentation at the American Academy of Orthopedic Surgeons (AAOS) Meeting. San Diego, California. March 14-18, 2017.
226. **Wyles CC**, Norambuena GA, Yuan BJ, Larson DR, Howe BM, Trousdale RT, Sierra RJ. 5-Year Natural History of FAI in Adolescent Athletes: A Prospective Matched Cohort Study. Poster Presentation at the American Association of Hip and Knee Surgeons (AAHKS) Meeting. Dallas, Texas. November 11-13, 2016.
227. Houdek MT, **Wyles CC**, Sierra RJ. Concentrated Mesenchymal Stem Cells Combined with Platelet Rich Plasma is Effective in Treating Corticosteroid Induced Osteonecrosis of the Femoral Head: A Prospective Study. Poster Presentation at the American Association of Hip and Knee Surgeons (AAHKS) Meeting. Dallas, Texas. November 11-13, 2016.

228. Houdek MT, **Wyles CC**, Rose PS, Stuart MJ, Sim FH, Taunton MJ. High Rate of Local Recurrence and Amputation Following Total Knee Arthroplasty in the Setting of Synovial Chondromatosis. Poster Presentation at the Musculoskeletal Tumor Society (MSTS) Meeting. Detroit, Michigan. October 5-7, 2016.
229. Houdek MT, **Wyles CC**, Rose PS, Sim FH, Taunton MJ. Long-Term Outcome of Knee Arthroplasty in the Setting of Pigmented Villonodular Synovitis (PVNS). Poster Presentation at the Musculoskeletal Tumor Society (MSTS) Meeting. Detroit, Michigan. October 5-7, 2016.
230. Houdek MT, **Wyles CC**, Sierra RJ. Concentrated Mesenchymal Stem Cells Combined with Platelet Rich Plasma is Effective in Treating Corticosteroid Induced Osteonecrosis of the Femoral Head: A Prospective Study. Podium Presentation at the Hip Society Closed Summer Scientific Meeting. Boston, Massachusetts. October 27-29, 2016.
231. **Wyles CC**, Houdek MT, Behfar A, Sierra RJ. Adipose-derived Mesenchymal Stem Cells are Phenotypically Superior for Regeneration in the Setting of Osteonecrosis. Podium Presentation at the Mayo Clinic Patrick J. Kelly Orthopedic Surgery Research Awards. Rochester, Minnesota. October 10, 2016.
232. **Wyles CC** and Trousdale RT. Myocardial Cobalt Levels Are Elevated After Joint Arthroplasty and Associated with Cardiac Pathology. Podium Presentation at the Mid-America Orthopedic Association (MAOA) Meeting. Bonita Springs, Florida. April 13-16, 2016.
233. **Wyles CC**, Heidenreich MJ, Jeng J, Trousdale RT, Sierra RJ. Natural History of Hip Impingement and Dysplasia Over 10-35 Years in Patients without Initial Degenerative Changes. Podium Presentation at the Mid-America Orthopedic Association (MAOA) Meeting. Bonita Springs, Florida. April 13-16, 2016.
234. **Wyles CC**, Houdek MT, Watts CD, Sierra RJ, Trousdale RT, Taunton MJ. Simultaneous Bilateral Versus Staged Bilateral Total Hip Arthroplasty: A Matched Survival Study. Podium Presentation at the Mid-America Orthopedic Association (MAOA) Meeting. Bonita Springs, Florida. April 13-16, 2016.
235. Houdek MT, Watts CD, **Wyles CC**, Taunton MJ, Milbrandt TA. Long-term Outcome of Total Hip Arthroplasty in Patients with Cerebral Palsy: A Durable and Effective Means of Pain Relief and Functional Improvement. Podium Presentation at the European Paediatric Orthopaedic Society (EPOS) Meeting. Rome, Italy. April 6-9, 2016.
236. **Wyles CC**. Osteonecrosis of the Femoral Head: Understanding Disease Pathogenesis and Regenerative Therapeutic Potential Through Genetic and Mesenchymal Stem Cell Analytics. Master's Degree Oral Thesis in Clinical and Translational Science, Mayo School of Graduate Medical Education. Rochester, MN. March 8, 2016.
237. **Wyles CC**, Heidenreich MJ, Jeng J, Trousdale RT, Sierra RJ. The Missing Link: Re-Defining the Natural Progression of Osteoarthritis in Patients with Hip Dysplasia and Impingement. John Charnley Hip Society Award Podium Presentation at the American Academy of Orthopedic Surgery (AAOS) Hip Society Specialty Day Meeting. Orlando, Florida. March 1-6, 2016.

238. **Wyles CC** and Trousdale RT. Myocardial Cobalt Levels Are Elevated After Joint Arthroplasty and Associated with Cardiac Pathology. Podium Presentation at the American Academy of Orthopedic Surgeons (AAOS) Meeting. Orlando, Florida. March 1-6, 2016.
239. **Wyles CC**, Houdek MT, Behfar A, Sierra RJ. Adipose-derived Mesenchymal Stem Cells are Phenotypically Superior for Regeneration in the Setting of Osteonecrosis. Podium Presentation at the American Academy of Orthopedic Surgeons (AAOS) Meeting. Orlando, Florida. March 1-6, 2016.
240. **Wyles CC**, Heidenreich MJ, Jeng J, Trousdale RT, Sierra RJ. Natural History of Hip Impingement and Dysplasia Over 10-35 Years in Patients without Initial Degenerative Changes. Podium Presentation at the American Academy of Orthopedic Surgeons (AAOS) Meeting. Orlando, Florida. March 1-6, 2016.
241. Houdek MT, Watts CD, **Wyles CC**, Taunton MJ, Trousdale RT. Metal or Modularity: Why do Metal Backed Tibias Have Inferior Outcomes to All-Polyethylene Tibial Components? Podium Presentation at the American Academy of Orthopedic Surgeons (AAOS) Meeting. Orlando, Florida. March 1-6, 2016.
242. Houdek MT, **Wyles CC**, Watts CD, Sierra RJ, Trousdale RT, Taunton MJ. Simultaneous Bilateral Versus Staged Bilateral Total Hip Arthroplasty: A Matched Survival Study. Podium Presentation at the American Academy of Orthopedic Surgeons (AAOS) Meeting. Orlando, Florida. March 1-6, 2016.
243. Houdek MT, Watts CD, **Wyles CC**, Taunton MJ, Milbrandt TA. Long-term Outcome of Total Hip Arthroplasty in Patients with Cerebral Palsy: A Durable and Effective Means of Pain Relief and Functional Improvement. Podium Presentation at the American Academy of Orthopedic Surgeons (AAOS) Meeting. Orlando, Florida. March 1-6, 2016.
244. Martin JR, Camp CL, **Wyles CC**, Taunton MJ, Trousdale RT, Lewallen DG. Increased Femoral Head Offset is Associated with Increased Metal Ion Levels in Asymptomatic Cobalt/Chrome-on-Polyethylene Total Hip Arthroplasty. Poster Presentation at the American Academy of Orthopedic Surgeons (AAOS) Meeting. Orlando, Florida. March 1-6, 2016.
245. Houdek MT, **Wyles CC**, Sierra RJ. Decreased Osteogenic Activity of Mesenchymal Stem Cells in Patients with Corticosteroid Induced Avascular Necrosis of the Femoral Head. Poster Presentation at the American Academy of Orthopedic Surgeons (AAOS) Meeting. Orlando, Florida. March 1-6, 2016.
246. Houdek MT, Watts CD, **Wyles CC**, Taunton MJ, Milbrandt TA. Long-term Outcome of Total Knee Arthroplasty in Patients with Cerebral Palsy: A Durable and Effective Means of Pain Relief and Functional Improvement. Poster Presentation at the American Academy of Orthopedic Surgeons (AAOS) Meeting. Orlando, Florida. March 1-6, 2016.
247. **Wyles CC**, Houdek MT, Crespo-Diaz R, Norambuena GA, Terzic A, Behfar A, Sierra RJ. Adipose-derived Mesenchymal Stem Cells Are A Superior Cell Source For Regenerative Orthopedics. Poster Presentation at the World Stem Cell Summit Meeting. Atlanta, Georgia. December 10-12, 2015.

248. **Wyles CC**, Slager SL, Houdek MT, Behfar A, Sierra RJ. Is Avascular Necrosis a Genetic Disease? Podium Presentation at the American Association of Hip and Knee Surgeons (AAHKS) Meeting. Dallas, Texas. November 5-8, 2015.
249. **Wyles CC** and Trousdale RT. Myocardial Cobalt Levels Are Elevated After Joint Arthroplasty and Associated with Cardiac Pathology. Poster Presentation at the American Association of Hip and Knee Surgeons (AAHKS) Meeting. Dallas, Texas. November 5-8, 2015.
250. Whiting DR, **Wyles CC**, Houdek MT, Watts CD, Sierra RJ, Trousdale RT, Taunton MJ. Simultaneous Bilateral Versus Staged Bilateral Total Hip Arthroplasty: A Matched Survival Study. Poster Presentation at the American Association of Hip and Knee Surgeons (AAHKS) Meeting. Dallas, Texas. November 5-8, 2015.
251. Houdek MT, Watts CD, **Wyles CC**, Taunton MJ, Milbrandt TA. Long-term Outcome of Total Hip Arthroplasty in Patients with Cerebral Palsy: A Durable and Effective Means of Pain Relief and Functional Improvement. Poster Presentation at the American Association of Hip and Knee Surgeons (AAHKS) Meeting. Dallas, Texas. November 5-8, 2015.
252. Houdek MT, Watts CD, **Wyles CC**, Taunton MJ, Trousdale RT. Metal or Modularity: Why do Metal Backed Tibias Have Inferior Outcomes to All-Polyethylene Tibial Components. Poster Presentation at the American Association of Hip and Knee Surgeons (AAHKS) Meeting. Dallas, Texas. November 5-8, 2015.
253. **Wyles CC**, Heidenreich MJ, Jeng J, Trousdale RT, Sierra RJ. Natural History of Hip Impingement and Dysplasia Over 10-35 Years in Patients without Initial Degenerative Changes. Podium Presentation at The Hip Society Summer Closed Meeting. Sonoma, California. October 15-17, 2015.
254. **Wyles CC** and Trousdale RT. Myocardial Cobalt Levels Are Elevated After Joint Arthroplasty and Associated with Cardiac Pathology. Podium Presentation at The Hip Society Summer Closed Meeting. Sonoma, California. October 15-17, 2015.
255. Norambuena GA, Karau M, **Wyles CC**, Janeto PJ, Bennet K, Secreto FJ, Hanssen AD, Patel R, Sierra RJ. Antibacterial Activity, Biocompatibility and Physicochemical Characteristics of Titanium-Copper-Oxide Nanofilm. Poster presentation at the Musculoskeletal Tumor Society (MSTS) Meeting. Orlando, Florida. October 6-10, 2015.
256. **Wyles CC**, Wagner ER, Houdek MT, Jimenez-Almonte JA, McArthur BA, Trousdale RT. Ceramic Femoral Heads For All Patients: An Argument For Cost-Containment In Hip Surgery. Podium Presentation at the Mid-America Orthopedic Association (MAOA) Meeting. Hilton Head Island, South Carolina. April 23-26, 2015.
257. **Wyles CC**, Jacobson SR, Houdek MT, Larson DR, Taunton MJ, Sim FH, Sierra RJ, Trousdale RT. Running Subcuticular Closure Enables The Most Robust Perfusion Following Total Knee Arthroplasty: A Randomized Clinical Trial With LA-ICGA. Podium Presentation at the Mid-America Orthopedic Association (MAOA) Meeting. Hilton Head Island, South Carolina. April 23-26, 2015.

258. **Wyles CC**, Jimenez-Almonte JA, Murad MH, Norambuena GA, Cabanela MC, Sierra RJ, Trousdale RT. There Are No Differences In Short- To Midterm Survivorship Among Total Hip-bearing Surface Options: A Network Meta-Analysis. Podium Presentation at the Mid-America Orthopedic Association (MAOA) Meeting. Hilton Head Island, South Carolina. April 23-26, 2015.
259. **Wyles CC**, Houdek MT, Crespo-Diaz R, Norambuena GA, Terzic A, Behfar A, Sierra RJ. Adipose-derived Mesenchymal Stem Cells Are A Superior Cell Source For Regenerative Orthopedics. Podium Presentation at the Mid-America Orthopedic Association (MAOA) Meeting. Hilton Head Island, South Carolina. April 23-26, 2015.
260. **Wyles CC**, Slager SL, Houdek MT, Terzic A, Behfar A, Sierra RJ. Identifying Potential Genetic and Epigenetic Markers Predictive of Susceptibility to Avascular Necrosis of the Femoral Head. Podium Presentation at the Mid-America Orthopedic Association (MAOA) Meeting. Hilton Head Island, South Carolina. April 23-26, 2015.
261. Bonadurer GF III, **Wyles CC**, Trousdale RT. Sources of Patient Dissatisfaction After Revision Total Hip Arthroplasty. Podium Presentation at the Mid-America Orthopedic Association (MAOA) Meeting. Hilton Head Island, South Carolina. April 23-26, 2015.
262. Houdek MT, Wagner ER, Watts CD, **Wyles CC**, Whiting D, Lewallen DG, Mabry TM. Long-Term Risk Factors for Revision, Reoperation, and Infection Following Revision THA for Mechanical Failure. Podium Presentation at the Mid-America Orthopedic Association (MAOA) Meeting. Hilton Head Island, South Carolina. April 23-26, 2015.
263. Houdek MT, Wagner ER, Wooten CJ, **Wyles CC**, Martin JR, Trousdale RT, Cass JR. All Polyethylene Tibial Components: A Survival and Infection Analysis Compared to Their Metal-Backed Counterparts. Podium Presentation at the Mid-America Orthopedic Association (MAOA) Meeting. Hilton Head Island, South Carolina. April 23-26, 2015.
264. Houdek MT, Wagner ER, **Wyles CC**, Sierra RJ, Trousdale RT, Taunton MJ. Simultaneous Bilateral vs. Staged Bilateral Total Hip Arthroplasty: A Survival Study. Podium Presentation at the Mid-America Orthopedic Association (MAOA) Meeting. Hilton Head Island, South Carolina. April 23-26, 2015.
265. Houdek MT, Wagner ER, **Wyles CC**, Sems SA, Moran SL. Use of Reverse Soleus Flaps for Coverage of Lower Third Leg Wounds. Podium Presentation at the Mid-America Orthopedic Association (MAOA) Meeting. Hilton Head Island, South Carolina. April 23-26, 2015.
266. **Wyles CC**, Jacobson SR, Houdek MT, Larson DR, Taunton MJ, Sim FH, Sierra RJ, Trousdale RT. Running Subcuticular Closure Enables The Most Robust Perfusion Following Total Knee Arthroplasty: A Randomized Clinical Trial With LA-ICGA. Chitranjan Ranawat Knee Society Award Podium Presentation at the American Academy of Orthopedic Surgery (AAOS) Knee Society Specialty Day Meeting. Las Vegas, Nevada. March 24-29, 2015.
267. **Wyles CC**, Jimenez-Almonte JA, Murad MH, Norambuena GA, Cabanela MC, Sierra RJ, Trousdale RT. There Are No Differences In Short- To Midterm Survivorship Among Total Hip-bearing Surface Options: A Network Meta-Analysis. Podium Presentation at the American Academy of Orthopedic Surgery (AAOS) Meeting. Las Vegas, Nevada. March 24-29, 2015.

268. **Wyles CC**, Slager SL, Houdek MT, Terzic A, Behfar A, Sierra RJ. Identifying Potential Genetic and Epigenetic Markers Predictive of Susceptibility to Avascular Necrosis of the Femoral Head. Podium Presentation at the American Academy of Orthopedic Surgery (AAOS) Meeting. Las Vegas, Nevada. March 24-29, 2015.
269. **Wyles CC**, Houdek MT, Wyles SP, Wagner ER, Behfar A, Sierra RJ. Differential Cytotoxicity of Corticosteroids on Human Mesenchymal Stem Cells. Podium Presentation at the American Academy of Orthopedic Surgery (AAOS) Meeting. Las Vegas, Nevada. March 24-29, 2015.
270. **Wyles CC**, Jacobson SR, Houdek MT, Larson DR, Taunton MJ, Sim FH, Sierra RJ, Trousdale RT. Running Subcuticular Closure Enables The Most Robust Perfusion Following Total Knee Arthroplasty: A Randomized Clinical Trial With LA-ICGA. Poster Presentation at the American Academy of Orthopedic Surgery (AAOS) Meeting. Las Vegas, Nevada. March 24-29, 2015.
271. Sassoon AA, **Wyles CC**, Norambuena Morales GA, Houdek MT, Trousdale RT. Intraoperative Fracture During Aseptic Revision Total Knee Arthroplasty. Poster Presentation at the American Academy of Orthopedic Surgery (AAOS) Meeting. Las Vegas, Nevada. March 24-29, 2015.
272. Houdek MT, Wilke BK, Wagner ER, **Wyles CC**, Taunton MJ, Sim FH. High Rate of Failure Following Revision of a Total Knee Arthroplasty Performed for Oncological Resection. Podium Presentation at the American Academy of Orthopedic Surgery (AAOS) Meeting. Las Vegas, Nevada. March 24-29, 2015.
273. Houdek MT, Watts C, Wagner ER, **Wyles CC**, Lewallen DG, Mabry TM. Risk Factors for Late Failure of Revision THA for Aseptic Loosening: a Study of 4,713 Consecutive Revision THA. Podium Presentation at the American Academy of Orthopedic Surgery (AAOS) Meeting. Las Vegas, Nevada. March 24-29, 2015.
274. Houdek MT, Wagner ER, Wooten CJ, **Wyles CC**, Martin JR, Cass JR, Trousdale RJ. All Polyethylene Tibial Components: a Survival and Infection Analysis Compared to Their Metal-backed Counterparts. Podium Presentation at the American Academy of Orthopedic Surgery (AAOS) Meeting. Las Vegas, Nevada. March 24-29, 2015.
275. Norambuena GA, Jimenez-Almonte JA, **Wyles CC**, Trousdale RT. Lower Rates of Re-dislocation and Revision When The First Episode of Dislocation Occurs Within Thirty Days after Primary Total Hip Replacement. Podium Presentation at the American Academy of Orthopedic Surgery (AAOS) Meeting. Las Vegas, Nevada. March 24-29, 2015.
276. Houdek MT, Watts C, Wagner ER, **Wyles CC**, Lewallen DG, Mabry TM. Risk Factors for Late Failure of Revision THA for Aseptic Loosening: a Study of 4,713 Consecutive Revision THA. Poster Presentation at the American Academy of Orthopedic Surgery (AAOS) Meeting. Las Vegas, Nevada. March 24-29, 2015.
277. Houdek MT, Wilke BK, Wagner ER, **Wyles CC**, Taunton MJ, Sim FH. Long Term Outcomes of Endoprosthetic Reconstruction for Periarticular Tumors of the Knee. Poster Presentation at the American Academy of Orthopedic Surgery (AAOS) Meeting. Las Vegas, Nevada. March 24-29, 2015.

278. Houdek MT, Watts CD, Wagner ER, **Wyles CC**, Sems SA, Moran SL. Use of Reverse Soleus Flaps for Coverage of Soft-Tissue Defects of Distal Third Leg Wounds. Poster Presentation at the American Academy of Orthopedic Surgery (AAOS) Meeting. Las Vegas, Nevada. March 24-29, 2015.
279. Wright TC, **Wyles CC**, Amin MD, Jenkins SM, Day PL, Murray DL, Trousdale RT, Edwards WD, Maleszewski JJ. Myocardial Cobalt Levels Are Elevated In The Setting of Total Joint Arthroplasty. Podium Presentation at the United States and Canadian Academy of Pathology (USCAP) Meeting. Boston, Massachusetts. March 24 – 29, 2015.
280. ****Wyles CC**, Jacobson SR, Trousdale RT. Defining the Optimal Biologic Wound Closure in Knee Surgery. Invited Speaker – Mayo Clinic Department of Plastic Surgery Grand Rounds. Rochester, Minnesota. November 17, 2014.
281. **Wyles CC**, Wagner ER, Houdek MT, Wyles SP, Behfar A, Sierra RJ. Differential Cytotoxicity of Corticosteroids on Human Mesenchymal Stem Cells. Podium Presentation at the American Association of Hip and Knee Surgeons (AAHKS) Meeting. Dallas, Texas. November 6-9, 2014.
282. **Wyles CC**, Jacobson SR, Houdek MT, Larson DR, Taunton MJ, Sim FH, Sierra RJ, Trousdale RT. Running Subcuticular Closure Enables The Most Robust Perfusion Following Total Knee Arthroplasty: A Randomized Clinical Trial With LA-ICGA. Poster Presentation at the American Association of Hip and Knee Surgeons (AAHKS) Meeting. Dallas, Texas. November 6-9, 2014.
283. **Wyles CC**, Houdek MT, Crespo-Diaz R, Norambuena GA, Terzic A, Behfar A, Sierra RJ. Adipose-derived Mesenchymal Stem Cells Are A Superior Cell Source For Regenerative Orthopedics. Poster Presentation at the American Association of Hip and Knee Surgeons (AAHKS) Meeting. Dallas, Texas. November 6-9, 2014.
284. Houdek MT, Wagner ER, Wooten CJ, **Wyles CC**, Martin JR, Cass JR, Trousdale RT. All Polyethylene Tibial Components: A Survival and Infection Analysis Compared to Their Metal-backed Counterparts. Poster Presentation at the American Association of Hip and Knee Surgeons (AAHKS) Meeting. Dallas, Texas. November 6-9, 2014.
285. Houdek MT, Watts C, Wagner ER, **Wyles CC**, Lewallen DG, Mabry TM. Risk Factors for Late Failure of Revision THA for Aseptic Loosening: a Study of 4,713 Consecutive Revision THA. Poster Presentation at the American Association of Hip and Knee Surgeons (AAHKS) Meeting. Dallas, Texas. November 6-9, 2014.
286. Houdek MT, **Wyles CC**, Sierra RJ. Characterization and Differentiation of Mesenchymal Stem Cells in Avascular Necrosis of the Femoral Head. Poster Presentation at the American Association of Hip and Knee Surgeons (AAHKS) Meeting. Dallas, Texas. November 6-9, 2014.
287. Jimenez-Almonte JA, **Wyles CC**, Sems SA, Mabry TM, Sierra RJ. Two-Team Approach Reduces OR Time and Blood Loss During Knee Arthrodesis with Intramedullary Nailing for Infected TKA. Poster Presentation at the American Association of Hip and Knee Surgeons (AAHKS) Meeting. Dallas, Texas. November 6-9, 2014.

288. Norambuena GA, Karau M, **Wyles CC**, Janeto PJ, Bennet K, Secreto FJ, Hanssen AD, Patel R, Sierra RJ. Antibacterial Activity, Biocompatibility and Physicochemical Characteristics of Titanium-Copper-Oxide Nanofilm. Podium Presentation at the American Association of Hip and Knee Surgeons (AAHKS) Meeting. Dallas, Texas. November 6-9, 2014.
289. ****Wyles CC**, Jacobson SR, Trousdale RT. Defining the Optimal Biologic Wound Closure in Knee Surgery. Invited Speaker – Mayo Clinic Department of Orthopedic Surgery Grand Rounds. Rochester, Minnesota. November 3, 2014.
290. Houdek MT, Wilke BK, Wagner ER, **Wyles CC**, Taunton MJ, Sim FH. Long Term Outcomes of Endoprosthetic Reconstruction for Periarticular Tumors of the Knee. Podium Presentation at the 2014 Musculoskeletal Tumor Society (MSTS) Meeting. Houston, Texas. October 9-11, 2014.
291. Houdek MT, Wilke BK, Wagner ER, **Wyles CC**, Taunton MJ, Sim FH. Late Complications And Long-Term Outcomes Following Revision of A Total Hip Arthroplasty Performed For Oncological Resection. Podium Presentation at the 2014 Musculoskeletal Tumor Society (MSTS) Meeting. Houston, Texas. October 9-11, 2014.
292. Houdek MT, Wagner ER, **Wyles CC**, El Hassan B, Sperling JW, Sim FH, Sanchez-Sotelo J. Reverse Total Shoulder Allograft-Prosthetic Composite Reconstruction: A Viable Option For Limb Salvage Following Extirpation Of An Oncological Process Involving The Shoulder. Poster Presentation at the 2014 Musculoskeletal Tumor Society (MSTS) Meeting. Houston, Texas. October 9-11, 2014.
293. **Wyles CC**, Houdek MT, Wagner ER, Wyles SP, Sierra RJ. Differential Cytotoxicity of Corticosteroids on Human Mesenchymal Stem Cells. Podium Presentation at the 2014 Mid-America Orthopaedic Association Annual Conference (MAOA) Meeting. San Antonio, Texas. April 24-27, 2014.
294. **Wyles CC**, Taunton MJ, Jacobson SR, Sierra RJ, Trousdale RT. Preventing Wound Complications in Complex Knee Reconstruction Using SPY Angiography. Poster Presentation at the 2014 Mid-America Orthopaedic Association Annual Conference (MAOA) Meeting. San Antonio, Texas. April 24-27, 2014.
295. **Wyles CC**, Taunton MJ, Jacobson SR, Sierra RJ, Trousdale RT. Dodging Wound Problems in Complex Knee Reconstruction. Podium Presentation at the 2014 International Congress of Joint Reconstruction (ICJR). San Antonio, Texas. April 24-27, 2014.
296. **Wyles CC**, Taunton MJ, Jacobson SR, Sierra RJ, Trousdale RT. Preventing Wound Complications in Complex Knee Reconstruction Using SPY Angiography. Poster Presentation at the 2014 Mayo Clinic Young Investigator's Symposium. Rochester, Minnesota. March 22, 2014.
297. **Wyles CC**, Houdek MT, Wagner ER, Wyles SP, Sierra RJ. Differential Cytotoxicity of Corticosteroids on Human Mesenchymal Stem Cells. Poster Presentation at the 2014 Mayo Clinic Young Investigator's Symposium. Rochester, Minnesota. March 22, 2014.

298. Houdek MT, Crespo-Diaz R, **Wyles CC**, Stalboerger PG, Sierra RJ, Moran SL, Terzic A, Behfar A. Personalized Bioactive Hydrogel for Optimized Recruitment and Tri-lineage Differentiation of Human Mesenchymal Stem Cells. Poster Presentation at the 2014 Mayo Clinic Young Investigator's Symposium. Rochester, Minnesota. March 22, 2014.
299. **Wyles CC**, Houdek MT, Terzic A, Behfar A, Sierra RJ. Hip Preservation in Patients with Avascular Necrosis of the Femoral Head: Can Mesenchymal Stem Cells Regenerate the Joint? Poster Presentation at the 2013 Mayo Clinic Regenerative Medicine Today and Tomorrow Meeting. Rochester, Minnesota. October 26, 2013.
300. Houdek MT, Crespo-Diaz R, **Wyles CC**, Stalboerger PG, Sierra RJ, Moran SL, Terzic A, Behfar A. Personalized Bioactive Hydrogel for Optimized Recruitment and Tri-lineage Differentiation of Human Mesenchymal Stem Cells. Poster Presentation at the 2013 Mayo Clinic Regenerative Medicine Today and Tomorrow Meeting. Rochester, Minnesota. October 26, 2013.
301. **Wyles CC**, Taunton MJ, Jacobson SR, Sierra RJ, Trousdale RT. Preventing Wound Complications in Complex Knee Reconstruction Using SPY Angiography. Podium Presentation at the 2013 Knee Society Closed Scientific Meeting. Toronto, Ontario, Canada. September 19-21 2013.
302. **Wyles CC**, Larson DR, Houdek MT, Sierra RJ, Trousdale RT. Utility of Synovial Fluid Aspirations in Failed Metal-on-Metal Total Hip Arthroplasty. Podium Presentation at the 2013 Musculoskeletal Infection Society (MSIS) Meeting. Philadelphia, Pennsylvania. August 2-3 2013.
303. **Wyles CC**, Van Demark RE III, Sierra RJ, Trousdale RT. High Rate of Infection After Aseptic Revision of Failed MoM THA. Podium Presentation at the 2013 Musculoskeletal Infection Society (MSIS) Meeting. Philadelphia, Pennsylvania. August 2-3 2013.
304. **Wyles CC**, Larson DR, Houdek MT, Sierra RJ, Trousdale RT. Utility of Synovial Fluid Aspirations in Failed Metal-on-Metal Total Hip Arthroplasty. Podium Presentation at the Mid-America Orthopedic Society Annual Meeting. Amelia Island, Florida. April 25-28, 2013.
305. Houdek MT, Perry KI, **Wyles CC**, McLendon P, Trousdale RT. Use of a Modular Fluted Tapered Stem During Revision Total Hip Arthroplasty Following Infection: A Five-Year Follow-Up. Podium Presentation at the Mid-America Orthopedic Society Annual Meeting. Amelia Island, Florida. April 25-28, 2013.
306. **Wyles CC**, Van Demark RE III, Sierra RJ, Trousdale RT. High Rate of Infection After Aseptic Revision of Failed MoM THA. Poster Presentation at the Mid-America Orthopedic Society Annual Meeting. Amelia Island, Florida. April 25-28, 2013.
307. **Wyles CC**, Larson DR, Houdek MT, Sierra RJ, Trousdale RT. Utility of Synovial Fluid Aspirations in Failed Metal-on-Metal Total Hip Arthroplasty. Podium Presentation at the American Academy of Orthopedic Society Annual Meeting. Chicago, Illinois. March 13-17, 2013.
308. **Wyles CC**, Van Demark RE III, Sierra RJ, Trousdale RT. High Rate of Infection After Aseptic Revision of Failed MoM THA. Podium Presentation at the American Academy of Orthopedic Society Annual Meeting. Chicago, Illinois. March 13-17, 2013.

309. Houdek MT, Perry KI, **Wyles CC**, McLendon P, Trousdale RT. Use of a Modular Fluted Tapered Stem During Revision Total Hip Arthroplasty Following Infection: A Five-Year Follow-Up. Poster Presentation at the American Academy of Orthopedic Society Annual Meeting. Chicago, Illinois. March 13-17, 2013.
310. **Wyles CC**, Weiderhold JM, Sheperd JRA, Bachman JW. Pulmonary Function Screening in a Rural Honduran Village. Podium Presentation at the Mayo Clinic Family Medicine Forum. Rochester, Minnesota. November 12, 2011.
311. **Wyles CC**, Weiderhold JM, Sheperd JRA, Bachman JW. Pulmonary Function Screening in a Rural Honduran Village. Poster Presentation at the Mayo Clinic Family Medicine Forum. Rochester, Minnesota. November 12, 2011.
312. **Wyles CC**, Garden GA, Kinoshita C, Kinoshita Y, Morrison RS. Declines in Drp1 and Parkin Expression Underlie DNA Damage-induced Changes in Mitochondrial Length and Neuronal Death. Poster Presentation at the University of Washington Undergraduate Research Symposium. Seattle, Washington. March 15, 2009.

PODCASTS

Host of Mayo Ortho Podcast	2022 – Present
Mayo Q&A Podcast – Guest	Fall 2022
<ul style="list-style-type: none"> • Highlighting artificial intelligence in orthopedic surgery at Mayo Clinic 	

PROFESSIONAL MEMBERSHIPS

International Society of Arthroplasty Registries – Associate Member	2021 - Present
European Hip Society – Full Member	2020 – Present
Young Arthroplasty Group American Association of Hip and Knee Surgeons	2019 – Present
American Orthopaedic Association Resident Leadership Forum Member	2019 – Present
American Academy of Orthopedic Surgeons	2016 – Present
American Association of Hip and Knee Surgeons	2016 – Present
Orthopedic Research Society	2018 – Present
Mid-America Orthopedic Association	2016 – Present
Minnesota Medical Society	2011 – Present

	Cody C. Wyles
Zumbro Valley Medical Society	2011 – Present
American Medical Association	2011 – Present

NATIONAL AND INTERNATIONAL COMMITTEES

American Academy of Orthopedic Surgeons (AAOS) Committee On Devices, Biologics, and Technology Elected Member	2023 – Present
American Academy of Orthopedic Surgeons - American Joint Replacement Registry Young Physician Committee (YPC) Elected Member	2021 – Present
American Academy of Orthopedic Surgeons - American Joint Replacement Registry Data Elements & Analysis Subcommittee (DEAS) Elected Member	2021 – Present
American Academy of Orthopedic Surgeons - American Joint Replacement Registry Registry Science Committee Elected Member	2021 – Present
American Association of Hip and Knee Surgeons (AAHKS) Research Committee Elected Member	2020 – Present

JOURNAL EDITORIAL RESPONSIBILITIES

<i>Journal of Bone and Joint Surgery</i> Reviewer	2023 – Present
<i>Journal of Bone and Joint Infection</i> Reviewer	2021 – Present
<i>Journal of Arthroplasty</i> Reviewer	2020 – Present
<i>Journal of Hip Preservation Surgery</i> Reviewer	2020 – Present
<i>Bone and Joint Journal</i> Reviewer	2019 – Present
<i>European Journal of Medical Research</i>	2018 – Present

Reviewer

EDUCATIONAL ACTIVITIES

A. Orthopedic Surgery Education

Rochester Revision Course June 15-17, 2023
 International Orthopedic Education Network (IOEN)
 Course Faculty

B. Special Coursework

Future Leaders Advanced Arthroplasty Course 08/2020
 DePuy
 Rochester, MN
 Resident Attendant

Resident Leadership Forum 06/2020
 American Orthopaedic Association
 Baltimore, Maryland

Artificial Intelligence for Everyone 03/2020
 Coursera – deeplearning.ai
 Online Training Program by Andrew Ng

Practical Deep Learning for Coders 03/2020-05/2020
 Fast.AI
 Online Training Program by Jeremy Howard

Bernese Hip Symposium Fellowship 02/2020
 Inselspital, University of Berne
 Berne, Switzerland
 Patrick J. Kelly Award Travelling Fellowship

Future Leaders Advanced Arthroplasty Course 10/2019
 DePuy
 West Palm Beach, FL
 Resident Attendant

Clinician Scholar Career Development Program 09/2019
 Orthopedic Research Society
 Chicago, Illinois

Hip Preservation Coventry Travelling Fellowship 06/2018
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Inselspital, University of Berne
 Berne, Switzerland
 Hosted by Prof. Klaus Siebenrock and Prof. Moritz Tannast

AO Basic Residency Trauma Course 03/2018
 AO Foundation
 Kansas City, MO
 Resident Attendant

Future Leaders Introductory Arthroplasty Course 10/2017
 DePuy
 Nashville, TN
 Resident Attendant

C. Curriculum/Course Development

Regenerative Medicine and Surgery Selective Annually April 2014 – April 2019
 Mayo Medical School
 Rochester, MN
 Founder and Co-leader

Surgical Skills Selective 04/2012; 08/2012; 09/2012; 02/2013
 Mayo Medical School
 Rochester, MN
 Founder and Co-leader

D. Teaching Activities

Research Curriculum – Orthopedic Surgery Residency Basic Science Curriculum 2022 – Present
 Mayo Clinic Orthopedic Surgery Residency
 Rochester, MN
 Course Chairman

Regenerative Medicine and Surgery Selective 02/2018
 Mayo Clinic School of Medicine – Scottsdale Campus
 Scottsdale, AZ
 Instructor

Regenerative Medicine Minnesota “Teach the Teacher” Program 10/2017
 Mayo Center for Regenerative Medicine
 Rochester, MN
 Teaching Assistant

Mayo Medical School Anatomy Course 9/2014 – 11/2014
 Mayo Medical School
 Rochester, MN
 Teaching Assistant

Mayo Medical School Basic Science Curriculum 09/2012 – 06/2014
 Mayo Medical School

Rochester, MN
Teaching Assistant

University of Minnesota Rochester Anatomy Course
Mayo Medical School
Rochester, MN
Teaching Assistant

03/2012

Organic Chemistry Course
University of Washington
Seattle, WA
Teaching Assistant

03/2009 – 06/2009

E. Research Experience

Center For Regenerative Medicine
Mayo Clinic
Rochester, MN
Medical Student Researcher

06/2012 – Present

Department of Orthopedic Surgery
Mayo Clinic
Rochester, MN
Medical Student Researcher

08/2011 – Present

Department of Neurologic Surgery
University of Washington
Seattle, WA
Student Researcher

05/2008 – 10/2009

Department of Genome Sciences
University of Washington
Seattle, WA
Student Researcher

09/2006 – 05/2007

F. Lectures and Surgical Demonstrations

“Research Fundamentals: Part I”
Orthopedic Surgery Basic Science Resident Curriculum

January 16, 2023

“Direct Anterior Approach to the Hip – Cadaver Demonstration”
Orthopedic Surgery Basic Science Resident Curriculum

February 10, 2023

“Extended Osteotomies and Posterior Approach
Revision THA– Cadaver Demonstration”
Orthopedic Surgery Basic Science Resident Curriculum

February 24, 2023

LEADERSHIP AND VOLUNTEERISM

Resident Leadership Forum American Orthopaedic Association Baltimore, Maryland	06/2020
Mayo Clinic Department of Orthopedic Surgery Rochester, MN Orthopedic Surgeon Volunteer – John Marshall High School Football	Fall 2019
Mayo Clinic Department of Orthopedic Surgery Rochester, MN Orthopedic Surgeon Volunteer – Pine Island High School Football	Fall 2018
Mayo Clinic Department of Orthopedic Surgery Rochester, MN Orthopedic Surgeon Volunteer – Filmore Central High School Football	Fall 2017
Operation Walk Guatemala (2013), Nicaragua (2014) Medical Student Volunteer	02/2013, 02/2014
Salvation Army Rochester, MN Medical Student Volunteer – Underserved Clinic	07/2011 – Present
Mayo Medical School Department of Orthopedic Surgery Rochester, MN Orthopedic Surgery Interest Group Co-Leader	11/2011 – Present
American Medical Association – Mayo Medical School Chapter Rochester, MN Chapter Treasurer	08/2011 – Present
Mayo Clinic Departments of Orthopedic Surgery and Physical Medicine and Rehabilitation Rochester, MN Medical Student Volunteer – Century High School Football	08/2011 – 11/2011; 08/2012 – 11/2012
Mayo Clinic Departments of Orthopedic Surgery and Physical Medicine and Rehabilitation Rochester, MN Medical Student Volunteer – Med City Marathon	05/2012
Mayo Clinic Departments of Orthopedic Surgery and Physical Medicine and Rehabilitation Rochester, MN	03/2012

Medical Student Volunteer – High school athlete pre-participation physicals

Salvation Army
Rochester, MN
Medical Student Volunteer – Youth Program
08/2011 – 03/2012

Mayo Clinic Department of Family Medicine
Mata de Platano, Honduras
Medical Student Volunteer
07/2011

NeighborCare Health
Seattle, WA
Front Desk Volunteer and Receptionist
01/2008 – 05/2011

Providence Hospice of Seattle
Seattle, WA
Patient Care Volunteer and Camp Erin Counselor
05/2009 – 03/2011

Country Doctor Community Health Centers
Seattle, WA
Quality Improvement Program Assistant
06/2009 – 02/2011

Haiti Foundation of Hope
Terre Blanche, Haiti
Medical Volunteer
07/2006 – 11/2010

Mortar Board Honor Society
Seattle, WA
Endowment Chair – National Chapter of the Year
05/2008 – 05/2009

University of Washington Global Health Department
Seattle, WA
Student Planner
06/2008 – 04/2009

University of Washington School of Medicine
Vicenza, Italy
International Student
08/2006 – 09/2006

HOBBIES & INTERESTS

Reading
Global Health and Development
Traveling
Running
Basketball
Hiking
Golf

