

EVAN M. DUGDALE

EDUCATION AND TRAINING

OrthoCarolina

Fellowship in Hip and Knee Replacement

Charlotte, NC

08/01/2024 – 07/31/2025

Mayo Clinic

Residency in Orthopedic Surgery

Rochester, MN

07/01/2019 – 06/30/2024

Boston University School of Medicine

M.D. Degree

Boston, MA

08/01/2014 – 05/16/2019

Williams College

B.A. in Chemistry; pre-medical studies; Asst. Captain, Men's Ice Hockey Team

Williamstown, MA

09/01/2009 – 06/01/2013

PRESENTATIONS

"Timing of Failure of Two-Stage Exchange Arthroplasty for Periprosthetic Joint Infection of the Hip and Knee"

*Podium Presentation: 2025 Southern Orthopaedic Association Meeting *Harley and Betty Baxter Award Winner*

"300 Periprosthetic Tibia Fractures Around a Total Knee Arthroplasty: Classification and Outcomes from a Single Institution"

Podium Presentation: 2025 American Academy of Orthopaedic Surgeons Meeting

"300 Periprosthetic Tibia Fractures Around a Total Knee Arthroplasty: Classification and Outcomes from a Single Institution"

Podium Presentation: 2024 American Association of Hip and Knee Surgeons Meeting

"Diaphyseal Impaction Grafting and Metaphyseal Cones in Revisions: Expansion and Extension of Index Series"

Podium Presentation: 2024 Mid-America Orthopaedic Association Meeting

"Prospective Trial of Noninvasive Hemoglobin Monitoring for Outpatient Total Joint Arthroplasties"

Podium Presentation: 2024 Mid-America Orthopaedic Association Meeting

"300 Periprosthetic Tibia Fractures: Classification and Outcomes from a Single Center"

Podium Presentation: 2024 Mid-America Orthopaedic Association Meeting

"Draining Sinus Tracts and Periprosthetic Joint Infections: Traditional Synovial Fluid Counts May be Misleading"

Podium Presentation: 2024 American Academy of Orthopaedic Surgeons Meeting

"Prospective Trial of Noninvasive Hemoglobin Monitoring for Outpatient Total Joint Arthroplasties"

Poster Presentation: 2024 American Academy of Orthopaedic Surgeons Meeting

"Are We Getting Better at Operating on Obese TKA Patients? 30-Year Data from a Single Institution"

Poster Presentation: 2023 American Academy of Hip and Knee Surgeons Meeting

"Are We Getting Better at Mitigating Complications in Obese Total Hip Arthroplasty Patients?"

Podium Presentation: 2023 Mid-America Orthopaedic Association Meeting

"Are We Getting Better at Mitigating Complications in Obese Total Hip Arthroplasty Patients?"

Podium Presentation: 2023 American Academy of Orthopaedic Surgeons Meeting

"Deep Learning Tool for Accurate and Precise Measurement of Femoral Component Subsidence Following Total Hip Arthroplasty"

Podium Presentation: 2022 Mid-America Orthopaedic Association Meeting

“Recent Antibiotic Treatment Impacts Serum and Synovial Laboratory Values in Early Periprosthetic Joint Infection Workup”

Podium Presentation: 2022 American Academy of Orthopaedic Surgeons Meeting

“Recent Antibiotic Treatment Impacts Serum and Synovial Laboratory Values in Early Periprosthetic Joint Infection Workup”

Poster Presentation: 2021 American Association of Hip and Knee Surgeons Meeting

“Recent Antibiotic Treatment Impacts Serum and Synovial Laboratory Values in Early Periprosthetic Joint Infection Workup”

Podium Presentation: 2021 Knee Society Closed Meeting

“Factors Associated with Early Return to Driving Following Total Joint Arthroplasty”

Accepted for Podium Presentation: 2021 American Academy of Orthopaedic Surgeons Meeting

“Acute Postoperative Infections after Total Hip Arthroplasties: Erythrocyte Sedimentation Rate, C-Reactive Protein, and Aspiration Thresholds”

Poster Presentation: 2021 American Academy of Orthopaedic Surgeons Meeting

“Acute Postoperative Infections After Total Knee Arthroplasties: ESR, CRP, and Aspiration Thresholds”

Podium Presentation: 2020 Knee Society Closed Meeting

“Acute Postoperative Infections After Total Knee Arthroplasties: ESR, CRP, and Aspiration Thresholds”

Podium Presentation: 2020 American Association of Hip and Knee Surgeons Meeting

“Comparing the Treatment of Knee Periprosthetic Joint Infections Between Substance Use Disorder Patients and Non-Users in a Nationally-Representative Sample 2010-2014”

Podium Presentation: 2019 Annual Meeting of the Musculoskeletal Infection Society

“The Predictive Value of Preoperative Exclusion Criteria in a Bundled Payment Model: How Much Risk Can We Accept?”

Podium Presentation: 2017 American Academy of Orthopaedic Surgeons Meeting

“Predicting Preoperative Risk Factors in a Bundled Payment Model.”

Podium Presentation: 2015 Connecticut Joint Replacement Institute Research Day

PUBLICATIONS

Dugdale EM, Hietpas KT, Fehring TK, Otero JE. Timing of Failure of Two-Stage Exchange Arthroplasty for Periprosthetic Joint Infection of the Hip and Knee. *J Arthroplasty*. 2025 Jun 18:S0883-5403(25)00748-X. doi: 10.1016/j.arth.2025.06.043. Epub ahead of print. PMID: 40553942.

Dugdale EM, Alter TD, Stuart MJ, Sems SA, Yuan BJ, Spangehl MJ, Springer BD, Berry DJ, Abdel MP. Three Hundred Periprosthetic Tibial Fractures Around a Total Knee Replacement: Classification and Outcomes from a Single Institution. *J Bone Joint Surg Am*. 2025 May 23;107(14):1579-1589. doi: 10.2106/JBJS.24.01407. PMID: 40408445.

Uvodich ME, Hooke AW, Braig ZV, Nieboer MJ, Dugdale EM, Cross WW, Krych AJ, Hevesi M. Simulated Cam Morphology of the Hip Changes Sacroiliac Motion During Hip Motion and Loading in a Cadaveric Model. *Arthrosc Sports Med Rehabil*. 2024 Jul 17;6(6):100977. doi: 10.1016/j.asmr.2024.100977. PMID: 39776497; PMCID: PMC11701934.

Dugdale EM, Mallinger BD, Bedard NA, Couch CG, Mabry TM, Perry KI, Sierra RJ, Taunton MJ, Trousdale RT, Abdel MP. Prospective Noninvasive Hemoglobin Monitoring in the Outpatient Total Joint Arthroplasty Setting. *J Bone Joint Surg Am.* 2025 Feb 19;107(4):364-371. doi: 10.2106/JBJS.24.00438. Epub 2024 Dec 20. PMID: 39705371.

Dugdale EM, Uvodich ME, Pagnano MW, Berry DJ, Abdel MP, Bedard NA. Early adverse outcomes remain challenging to prevent in morbidly obese patients undergoing total hip arthroplasty. *Bone Joint J.* 2024 Nov 1;106-B(11):1223-1230. doi: 10.1302/0301-620X.106B11.BJJ-2023-1187.R1. PMID: 39481442.

Uvodich ME, Dugdale EM, Pagnano MW, Berry DJ, Abdel MP, Bedard NA. Outcomes of Obese Patients Undergoing Primary Total Knee Arthroplasty: Trends Over 30 Years. *J Bone Joint Surg Am.* 2024 Nov 6;106(21):1963-1970. doi: 10.2106/JBJS.23.01413. Epub 2024 Sep 24. PMID: 39316660.

Bedard NA, Dugdale EM, Couch CC, Lewallen DG, Sierra RJ, Berry DJ, Abdel MP. Diaphyseal Impaction Grafting Combined with Metaphyseal Cones: Outcomes in 88 Revision Total Knee Arthroplasties. *J Bone Joint Surg Am.* 2024 Jul 17;106(14):1293-1299. doi: 10.2106/JBJS.23.01085. Epub 2024 May 1. PMID: 38691581.

Wooster BM, Kennedy NI, Dugdale EM, Sierra RJ, Perry KI, Berry DJ, Abdel MP. Contemporary outcomes of primary total hip arthroplasty in patients with inflammatory arthritis. *Bone Joint J.* 2023 Jul 1;105-B(7):768-774. doi: 10.1302/0301-620X.105B7.BJJ-2023-0220.R1. PMID: 37399088; PMCID: PMC10386849.

Martinez FA, Dugdale EM, Sims CR 3rd, Hofer RE, Sems SA. Intraoperative Dysrhythmias Cease After Venting During Intramedullary Nailing of an Impending Femur Fracture: A Case Report. *JBJS Case Connect.* 2023 Apr 6;13(2). doi: 10.2106/JBJS.CC.22.00126. PMID: 37026803.

Uvodich ME, Dugdale EM, Duong SQ, Cancio-Bello A, Sems SA, Yuan BJ. The Association Between Preoperative International Normalized Ratio Values and Postoperative Outcomes including Mortality in Geriatric Femoral Neck Fractures Treated With Hemiarthroplasty. *J Orthop Trauma.* 2023 May 1;37(5):230-236. doi: 10.1097/BOT.0000000000002557. PMID: 36728865.

Dugdale EM, Uvodich ME, Osmon DR, Pagnano MW, Berry DJ, Abdel MP. Recent Antibiotic Treatment Impacts Serum and Synovial Laboratory Values in Early Periprosthetic Joint Infection Workup. *J Arthroplasty.* 2022;37(6S):S286-S290. doi:10.1016/j.arth.2022.02.064

Dugdale EM, Uvodich ME, Osmon DR, Pagnano MW, Berry DJ, Abdel MP. Laboratory Value Effectiveness in Predicting Early Postoperative Periprosthetic Joint Infection After Total Hip Arthroplasty. *J Arthroplasty.* 2022;37(3):574-580. doi:10.1016/j.arth.2021.11.007

Dugdale EM, Siljander MP, Trousdale RT. Factors Associated With Early Return to Driving Following Total Joint Arthroplasty. *J Arthroplasty.* 2021;36(10):3392-3400. doi:10.1016/j.arth.2021.05.028

Uvodich ME, Dugdale EM, Osmon DR, Pagnano MW, Berry DJ, Abdel MP. The effectiveness of laboratory tests to predict early postoperative periprosthetic infection after total knee arthroplasty. *Bone Joint J.* 2021;103-B(6 Supple A):177-184. doi:10.1302/0301-620X.103B6.BJJ-2020-2397.R1

Smith EL, Dugdale EM, McAlpine K, Habibi, AA, Niu, R, Baratz, MD, Freccero, DM. Bias Does Not Exist in Treating Knee Periprosthetic Joint Infection Among Patients With Substance Use Disorder. *Orthopedics.* 2021;44(3):e385-e389. doi:10.3928/01477447-20210414-10

Dugdale EM, Tybor D, Kain M, Smith EL. Comparing Inpatient Complication Rates between Octogenarians and Nonagenarians Following Primary and Revision Total Hip Arthroplasty in a Nationally Representative Sample 2010-2014. *Geriatrics (Basel).* 2019;4(4):55. Published 2019 Oct 1. doi:10.3390/geriatrics4040055

Smith EL, Dugdale EM, Tybor D, Kain M. Comparing Inpatient Complication Rates between Octogenarians and Nonagenarians following Primary and Revision Total Knee Arthroplasty in a Nationally Representative Sample, 2010-2014. *Geriatrics (Basel).* 2018;4(1):3. Published 2018 Dec 22. doi:10.3390/geriatrics4010003

Mazzocca, AD, McCarthy, MB, Chowaniec, DM, Dugdale, EM, Hansen, D, Cote, MP, Bradley, JP, Romeo, AA, Arciero, RA, Beitzel, K. The positive effects of different platelet-rich plasma methods on human muscle, bone, and tendon cells. *Am J Sports Med.* 2012;40(8):1742-1749. doi:10.1177/0363546512452713

Beitzel, K, McCarthy, MB, Cote, MP, Chowaniec, D, Falcone, LM, Falcone, JA, Dugdale, EM, Deberardino, TM, Arciero, RA, Mazzocca, AD. Rapid isolation of human stem cells (connective progenitor cells) from the distal femur during arthroscopic knee surgery. *Arthroscopy.* 2012;28(1):74-84. doi:10.1016/j.arthro.2011.06.035

Alder KD, Dugdale EM, Osmon DR, Bedard NA, Berry DJ, Abdel MP. “Draining Sinus Tracts and Periprosthetic Joint Infections: Traditional Synovial Fluid Counts May be Misleading” [Under journal review]

AWARDS AND RECOGNITIONS

Joseph M. Janes Award | June 2024

Awarded to the graduating Mayo Clinic Orthopedic Surgery resident most possessing compassion for his patients, competence as a surgeon, and devotion to the specialty.

Harley and Betty Baxter Resident/Fellow Award | July 2025

Awarded for exceptional research presented at the Southern Orthopaedic Association annual meeting