



Wright State University Department of Orthopaedic Surgery 2021 Scholarly Activity

Publications

Hamandi F, Whitney A, Stouffer MH, **Prayson MJ**, Rittweger J, Goswami T. Cyclic Damage Accumulation in the Femoral Constructs Made With Cephalomedullary Nails. *Front Bioeng Biotechnol*. 2021 Feb 5;8:593609. doi: 10.3389/fbioe.2020.593609. PMID: 33614603

Kim DC, Cutchen W, **Teachey W**, Brewer J, Nimityongskul. Pediatric Olecranon Osteochondral Flap Fractures With Subtle Radiographic Abnormality. *J Hand Surg Am*. 2021 Feb;46(2):155.e1-155.e8. doi: 10.1016/j.jhsa.2020.03.020. PMID: 32423778

Curley AJ, **Minhas A**, Ehlers CB, Postma WF. Labral Index-Controlling Femoral Size to Evaluate the Relationship Between Relative Labral Size and Acetabular Version. *Arthrosc Sports Med Rehabil*. 2021 Mar 22;3(3):e791-e797. doi: 10.1016/j.asmr.2021.01.020. PMID: 34195646

Richards JA, **Berkay FB**, Davis CM, Zamora RA. Intra-articular Fracture Pattern in Intercondylar Distal Femur Fractures: An Analysis of Frequency and Major Fracture Fragments. *Injury*. 2021 Apr;52(4):967-970. doi: 10.1016/j.injury.2020.11.061. PMID: 33280890

Wagala NN, Marasigan JM, **Mian HM**, Schwend RM. Operative time in adolescent idiopathic scoliosis surgery: a need for a standard definition. *J Pediatr Orthop B*. 2021 May 1;30(3):205-210. doi: 10.1097/BPB.0000000000000754. PMID: 32558776

Flanigan TL, Kiskaddon EM, Rogozinski JA, Thomas MD, Froehle AW, Krishnamurthy AB. Predictive Factors of Extended Length of Hospital Stay Following Total Joint Arthroplasty in a Veterans Affairs Hospital Population. *J Arthroplasty*. 2021 May;36(5):1527-1532. doi: 10.1016/j.arth.2020.11.006. PMID: 33358308

Via GG, Brueggeman DA, Chase AM, Jerele JL, Mobley KS. Holding traction during CT: simple tricks to maintain reduction in the lower extremity. *Curr Orthop Pract*. May-June 2021;32(3):309-311. doi: 10.1097/BCO.0000000000000993.

Plantz MA, Minardi S, **Lyons JG**, Greene AC, Ellenbogen DJ, Hallman M, Yamaguchi JT, Jeong S, Yun C, Jakus AE, Blank KR, Havey RM, Muriuki M, Patwardhan AG, Shah RN, Hsu WK, Stock SR, Hsu EL. Osteoinductivity and biomechanical assessment of a 3D printed demineralized bone matrix-ceramic composite in a rat spine fusion model. *Acta Biomater*. 2021 Jun;127:146-158. doi: 10.1016/j.actbio.2021.03.060. PMID: 33831576

Hijji FY, Cheslik TG, Schneider AD, Schach BM, **Venkatarayappa I**. The popularity of outcome measures used in shoulder arthroplasty literature. *Shoulder Elbow*. 2021 Jun;13(3):237-247. doi: 10.1177/1758573220935865. PMID: 34659463

Plantz M, **Lyons J**, Yamaguchi JT, Greene AC, Ellenbogen DJ, Hallman MJ, Shah V, Yun C, Jakus AE, Procissi D, Minardi S, Shah RN, Hsu WK, Hsu EL. Preclinical Safety of a 3D-Printed Hydroxyapatite-Demineralized Bone Matrix Scaffold for Spinal Fusion. *Spine (Phila Pa 1976)*. 2021 Jun 10. doi: 10.1097/BRS.0000000000004142. PMID: 34115714

Meeks BD, Kiskaddon EM, Erb E, Gould G, **Froehle A**, Laughlin RT. Biomechanical Comparison of Tape Versus Suture in Simulated Achilles Tendon Midsubstance Rupture. *J Foot Ankle Surg*. Jul-Aug 2021;60(4):697-701. doi: 10.1053/j.jfas.2021.01.002. Epub 2021 Jan 19. PMID: 33549426

Ehlers AB, Curley AJ, Fackler NP, **Minhas A**, Chang ES. The Statistical Fragility of Hamstring Versus Patellar Tendon Autografts for Anterior Cruciate Ligament Reconstruction: A Systematic Review of Comparative Studies. *Am J Sports Med*. 2021 Aug;49(10):2827-2833. doi: 10.1177/0363546520969973. PMID: 33211555

Brueggeman DA, Via GG, Froehle AW, Krishnamurthy AB. Virtual Interviews in the Era of COVID-19: Expectations and Perceptions of Orthopaedic Surgery Residency Candidates and Program Directors. *JBJS Open Access*. 2021 Aug 9;6(3):e21.00034. doi: 10.2106/JBJS.OA.21.00034. PMID: 34386687

Christian DT, Stefanik MT, Bean LA, Loweth JA, Wunsch AM, Funke JR, Briggs CA, **Lyons J**, Neal D, Milovanovic M, D'Souza GX, Stutzmann GE, Nicholson DA, Tseng KY, Wolf ME. GluN3-containing NMDA receptors in the rat nucleus accumbens core contribute to incubation of cocaine craving. *J Neurosci*. 2021 Sep 29;41(39):8262-8277. doi: 10.1523/JNEUROSCI.0406-21.2021. Epub 2021 Aug 19. PMID: 34413203

Via GG, Brueggeman DA, Slack GM, Danias JM, Jerele JL. Fluorescence-guided surgical debridement of chronic osteomyelitis utilizing doxycycline bone labeling: a technical trick revived. *Curr Orthop Pract*. Sep-Oct 2021;32(5):518-521. doi: 10.1097/BCO.0000000000001025.

Soehnen NT, Erb ED, Kiskaddon EM, Green U, Froehle A, Krishnamurthy A. Multimodal Pain Management With Adductor Canal Block Decreases Opioid Consumption Following Total Knee Arthroplasty. *Fed Pract*. 2021 December;38(12):598-605. doi: 10.12788/fp.0209.

Hijji FY, Sanda T, Huff SD, Froehle AW, Henningsen JD, Schneider AD, Lyons JG, Mian HM, Jerele J, Venkatarayappa I. Accuracy of self-reported opioid use in orthopaedic trauma patients. *Eur J Orthop Surg Traumatol*. 2022 Jan 4. doi: 10.1007/s00590-021-03178-8. Online ahead of print. PMID: 34981218

Lyons JG, Mian HM, Via GG, Brueggeman DA, Krishnamurthy AB. Trends and Epidemiology of Knee Extensor Mechanism Injuries Presenting to United States Emergency Departments from 2001 to 2020. *Phys Sportsmed*. 2021 Dec 29. doi: 10.1080/00913847.2021.2024775. Online ahead of print. PMID: 34965844

Everhart JS, Munsch MA, **Via GG**, Roebke AJ, Ryan JM, Vasileff WK. Patient-Specific Factors, but Neither Regional Anesthesia nor Hip-Specific Cryotherapy, Predict Postoperative Opioid Requirements after Hip Arthroscopy for Femoroacetabular Impingement (FAI) syndrome. *J Clin Orthop Trauma*. (In press)

Presentations

State / Local

Thomas M*, Froehle A, Krishnamurthy A. "Research Productivity after Implementation of Dedicated Research Track." 2021 Dayton Area Graduate Medical Education Community (DAGMEC) Resident Research Forum. Dayton, OH, May 2021. Awarded second place, research category.

Presentations cont.

State / Local

Brueggeman DA*, Via GG, Froehle AW, Krishnamurthy AB. "Orthopaedic Surgery Residency Candidates and Program Directors Prefer In-Person Interviews: A Survey Study of Virtual Interviews in the Era of COVID-19." 2021 Dayton Area Graduate Medical Education Community (DAGMEC) Resident Research Forum. Dayton, OH, May 2021. Awarded second place, research category.

Via GG*, Brueggeman DA, Quercetti NF, Schneider AD, Welter JP, Prayson MJ. "Multifocal Percutaneous Pin Fixation (MPPF) for Definitive Management of Talar Neck Fractures: An Alternative to ORIF." 2021 Dayton Area Graduate Medical Education Community (DAGMEC) Resident Research Forum. Dayton, OH, May 2021.

Thomas M*, Froehle A, Krishnamurthy A. "Research Productivity after Implementation of Dedicated Research Track." 2021 Dayton Area Graduate Medical Education Community (DAGMEC) Resident Research Forum. Dayton, OH, May 2021. Awarded second place, research category.

Via GG, Brueggeman DA, Murray VA, Froehle AW, Prayson MJ. "Intravenous Cefotetan Monotherapeutic Prophylaxis Improves Antibiotic Stewardship and Reduces Return to OR in Grade III Open Fractures." Podium presentation at the Ohio Orthopaedic Society Annual Meeting. Columbus, OH, May 2022.

Regional

Huff SW*, Henningsen JD, Young EA, Froehle A, Krishnamurthy A. "Physician Bias Regarding the Accuracy of Patient Reported Opioid Use." Podium presentation at the Mid-America Orthopaedic Association Annual Meeting. Amelia Island, FL, Sep-Oct 2021.

Henningsen JD*, Huff SW, Reichard A, Froehle AW, Krishnamurthy A. "Novel Cadaver Model Used to Predict Posterolateral Corner Injury Progression." Podium presentation at the Mid-America Orthopaedic Association Annual Meeting. Amelia Island, FL, Sep-Oct 2021.

Henningsen JD*, Huff SW, Hijji FY, Schneider AD, Whale CS, Froehle AW, Krishnamurthy A. "How Does Statewide Opioid Prescribing Policy Affect Orthopedic Sports Surgeons?" Poster presentation at the Mid-America Orthopaedic Association Annual Meeting. Amelia Island, FL, Sep-Oct 2021.

Barry KM, Hoopes RR, Thrush JL, **Albert MC, Perrin J***. "A Retrospective Study to Identify Factors Contributing to Pressure Ulcers in Pediatric Patients with Lower Extremity Splints." Podium presentation at the Mid-America Orthopaedic Association Annual Meeting. Amelia Island, FL, Sep-Oct 2021.

Ulery DJ*, Boothby B, **Lehner JT, Albert MC**. "Effects of C-UVC Filtration on Operating Room Airborne Bacterial Concentration During Pediatric Orthopedic Procedures." Poster presentation at the Mid-America Orthopaedic Association Annual Meeting. Amelia Island, FL, Sep-Oct 2021.

Battista C, Venezia M, Steffensmeier A, **Froehle A**, Wilson M, **Albert MC, Perrin J***. "Comparative Analysis of Adolescent Idiopathic Scoliosis Treated Surgically with High Implant Density Pedicle Screws vs. Hybrid Sublaminar Band Technique." Poster presentation at the Mid-America Orthopaedic Association Annual Meeting. Amelia Island, FL, Sep-Oct 2021.

Via GG, Brueggeman DA, Murray VA, Froehle AW, Burdette SD, Prayson MJ. "Intravenous Cefotetan Monotherapeutic Prophylaxis Improves Antibiotic Stewardship and Reduces Return to OR in Grade III Open Fractures." Podium presentation at the Mid-America Orthopaedic Association Annual Meeting. San Antonio, TX, April 2022.

Via GG, Brueggeman DA, Lyons JG, Edukugho DO, Froehle AW, Albert MC. "Fully- Versus Partially-Threaded Cannulated Screws in the Operative Management of Slipped Capital Femoral Epiphysis." Podium presentation at the Mid-America Orthopaedic Association Annual Meeting. San Antonio, TX, April 2022.

Brueggeman DA, Via GG, Lange N, **Froehle AW**, Jones AC, **Albert MC**. "Preliminary Results of a Unilateral, Peri-Apical Distractors Device (ApiFix) for Fusionless Treatment in Adolescent Idiopathic Scoliosis." Poster presentation at the Mid-America Orthopaedic Association Annual Meeting. San Antonio, TX, April 2022.

National

Schneider AD, Hijji FY*, Jackson JB, **Henningsen JD, Peters PG, Huff SW**, Goodwin TM, Thier ZT. "Patient Perception of Foot and Ankle Orthopaedic Surgeons vs. Podiatrists." Podium presentation at the American Academy of Orthopaedic Surgeons Annual Meeting. San Diego, CA, Aug-Sep 2021.

Froehle A, Schneider AD, Hijji FY*, Venkatarayappa I, Jerele J, Henningsen JD, Huff SW, Sanda T. "The Accuracy of Self-Reported Opioid Use in Orthopaedic Trauma Patients." Poster presentation at the American Academy of Orthopaedic Surgeons Annual Meeting. San Diego, CA, Aug-Sep 2021.

Schneider AD, Bohl DD, **Hijji FY*, Thomas MD, Prayson MJ**. "Knowledge of Radiation Exposure in Orthopaedic Surgeons, Emergency Medicine Physicians, and General Surgeons in the United States." Poster presentation at the American Academy of Orthopaedic Surgeons Annual Meeting. San Diego, CA, Aug-Sep 2021.

Via GG, Quercetti NF, Brueggeman DA, Schneider AD, Welter J, Prayson MJ. "Multifocal Percutaneous Pin Fixation of Talar Neck Fractures: An Alternative to ORIF in the Polytraumatized Patient." Podium presentation at the Clinical Orthopaedic Society Annual Meeting. Nashville, TN, Nov 2021.

Book Chapters

Lyons JG & Hsu WK: Biologics in Spine Fusion Surgery, Chapter 86, pp. 795-800. In *Benzel's Spine Surgery: Techniques, Complication Avoidance and Management* 5th edition (Steinmetz MP, Berven SH, Benzel EC, eds). Elsevier, Saunders, Philadelphia, PA. 2021