

# JASON EDWARD MELDAU

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## **Education and Training**

Spine Surgery Fellowship The Spine Institute of Arizona; Scottsdale, AZ	Aug. 2024 - July 2025
Orthopaedic Surgery Residency Loyola University Medical Center; Maywood, IL	July 2019 – June 2024
Doctor of Medicine Michigan State University College of Human Medicine; Grand Rapids, MI	Aug. 2014 - June 2019
Bachelor of Science in Chemistry High Honors and Distinction Michigan State University; East Lansing, MI	Sept. 2010 - May 2014

## **Licensure**

USMLE Step 1 - Pass, 251	June 2016
USMLE Step 2 - Pass, 255	July 2018
USMLE Step 2 Clinical Skills - Pass	Jan. 2018
USMLE Step 3 - Pass, 237	Jan. 2022
American Board of Orthopaedic Surgery Part 1 – Pass	Sept. 2024

## **Society Membership**

<i>Lumbar Spine Research Society</i>	Oct 2024 - Present
<i>Society for Minimally Invasive Spine Surgery</i>	June 2024 - Present
<i>American Orthopaedic Association's Emerging Leaders Program</i>	Aug. 2023 - Present

## **Peer-Reviewed Publications**

Patwardhan AG, Havey RM, Hodges SD, Humphreys SC, **Meldau JE**, Koscielski M, Sielatycki JA, Muriuki MG. Shear resistance of a posterior lumbar total joint replacement prosthesis. *Spine J.* 2025 Jun 19:S1529-9430(25)00303-1. doi: 10.1016/j.spinee.2025.06.005. Epub ahead of print. PMID: 40543574

Shivdasani K, Scheidt M, Boubekri A, **Meldau J**, Stanila T, Chen A, Garbis N, Salazar D. Inferior Glenoid HyperOSTosis (GHOST) Lesion Development Following Reverse Total Shoulder Arthroplasty. *J Shoulder Elbow Surg*

Sielatycki JA, Koscielski M, Chudik G, Metcalf T, **Meldau J**, Hodges SD. Treatment of Spondylolisthesis Using a Motion Preserving Lumbar Total Joint Replacement: A Case Report. *Significances Bioeng Biosci.* 6(5). SBB. 000648. 2024. DOI: 10.31031/SBB.2024.06.000648

Farooq H, Salazar D, **Meldau JE**, Schoenfeld T, Garbis, N. Describing the Infraspinatus Bare Area of the Proximal Humerus: An Anatomic Cadaveric Study. *Shoulder Elbow.* 2024 Jan 27. DOI:10.1177/17585732241229068

**Meldau JE**, LeDuc RC, Havey RM, Barnard ER, Muriuki MG, Kaczmarz N, Patwardhan AG, Schiff AP. Bone cutting efficiency and heat generation using a traditional fluted Burr and a novel fluteless resurfacing tool. *Clin Biomech (Bristol, Avon).* 2023 Feb;102:105898. doi: 10.1016/j.clinbiomech.2023.105898. Epub 2023 Feb 2. PMID: 36764102.

McGregor PC, **Meldau JE**, Liskutin T, Kelly RF, Levack AE, Cohen J, Summers H. Hospital transfer and delayed reduction of traumatic hip dislocations. *Arch Orthop Trauma Surg.* 2023 Feb 7. doi: 10.1007/s00402-023-04768-3. Epub ahead of print. PMID: 36746785.

**Meldau JE**, Farooq H, Salazar DH, Schoenfeldt TL, Garbis NG. Axillary Nerve Proximity to the Humeral Guide Pin During Stemless Total Shoulder Arthroplasty. *Semin Arthroplasty.* Epub 2022 June 30.

**Meldau JE**, Farooq H, Garbis NG, Schoenfeldt TL, Salazar DH. The Long Head of the Biceps Myotendinous Junction Is Located 1.14 Centimeters Distal to the Proximal Border of the Pectoralis Major Tendon: An Anatomic Study. *Arthrosc Sports Med Rehabil.* 2022 Jun 2;4(4):e1373-e1376. doi: 10.1016/j.asmr.2022.04.025. PMID: 36033203; PMCID: PMC9402465.

Tramer JS, Khalil LS, Fidai MS, **Meldau J**, Sheena GJ, Muh SJ, Moutzouros V, Makhni EC. Mental health and tobacco use are correlated with PROMIS upper extremity and pain interference scores in patients with shoulder pathology. *Musculoskelet Surg.* 2022 Mar;106(1):69-74. doi: 10.1007/s12306-020-00674-8. Epub 2020 Jul 13. PMID: 32661838.

Lizzio VA, Gullede CM, Smith DG, **Meldau JE**, Borowsky PA, Moutzouros V, Makhni EC. Predictors of elbow torque among professional baseball pitchers. *J Shoulder Elbow Surg.* 2020 Feb;29(2):316-320. doi: 10.1016/j.jse.2019.07.037. Epub 2019 Dec 4. PMID: 31812585.

**Meldau JE**, Srivastava K, Okoroha KR, Ahmad CS, Moutzouros V, Makhni EC. Cost analysis of Tommy John surgery for Major League Baseball teams. *J Shoulder Elbow Surg.* 2020 Jan;29(1):121-125. doi: 10.1016/j.jse.2019.07.019. Epub 2019 Oct 23. PMID: 31668501.

Fidai MS, Okoroha KR, **Meldau J**, Meta F, Lizzio VA, Borowsky P, Redler LH, Moutzouros V, Makhni EC. Fatigue Increases Dynamic Knee Valgus in Youth Athletes: Results From a Field-Based Drop-Jump Test. *Arthroscopy.* 2020 Jan;36(1):214-222.e2. doi: 10.1016/j.arthro.2019.07.018. PMID: 31864579.

Fidai MS, Tramer JS, **Meldau J**, Khalil LS, Patel RB, Moutzouros V, Makhni EC. Mental Health and Tobacco Use Are Correlated With Physical Function Outcomes in Patients With Knee Pain and Injury. *Arthroscopy.* 2019 Dec;35(12):3295-3301. doi: 10.1016/j.arthro.2019.06.038. PMID: 31785761.

**Meldau JE**, Borowsky P, Blanchett J, Stephens J, Muh S, Moutzouros V, Makhni EC. Impact of Patient Demographic Factors on Preoperative Patient-Reported Outcomes Measurement Information System (PROMIS) Physical Function, Pain Interference, and Depression Computer Adaptive Testing Scores in Patients Undergoing Shoulder and Elbow Surgery. *Orthop J Sports Med.* 2019 Nov 22;7(11):2325967119884543. doi: 10.1177/2325967119884543. PMID: 31803791; PMCID: PMC6876178.

Borowsky PA, Kadri OM, **Meldau JE**, Blanchett J, Makhni EC. The Remote Completion Rate of Electronic Patient-Reported Outcome Forms Before Scheduled Clinic Visits-A Proof-of-Concept Study Using Patient-Reported Outcome Measurement Information System Computer Adaptive Test Questionnaires. *J Am Acad Orthop Surg Glob Res Rev.* 2019 Oct 2;3(10):e19.00038. doi: 10.5435/JAAOSGlobal-D-19-00038. PMID: 31773074; PMCID: PMC6855499.

Okorooha KR, **Meldau JE**, Jildeh TR, Stephens JP, Moutzouros V, Makhni EC. Impact of ball weight on medial elbow torque in youth baseball pitchers. *J Shoulder Elbow Surg.* 2019 Aug;28(8):1484-1489. doi: 10.1016/j.jse.2019.01.025. Epub 2019 Apr 30. PMID: 31053389.

Makhni EC, **Meldau JE**, Blanchett J, Borowsky P, Stephens J, Muh S, Moutzouros V. Correlation of PROMIS Physical Function, Pain Interference, and Depression in Pediatric and Adolescent Patients in the Ambulatory Sports Medicine Clinic. *Orthop J Sports Med.* 2019 Jun 24;7(6):2325967119851100. doi: 10.1177/2325967119851100. PMID: 31263725; PMCID: PMC6593930.

Lizzio VA, Blanchett J, Borowsky P, **Meldau JE**, Verma NN, Muh S, Moutzouros V, Makhni EC. Feasibility of PROMIS CAT Administration in the Ambulatory Sports Medicine Clinic With Respect to Cost and Patient Compliance: A Single-Surgeon Experience. *Orthop J Sports Med.* 2019 Jan 22;7(1):2325967118821875. doi: 10.1177/2325967118821875. PMID: 30733973; PMCID: PMC6344951.

Ellens NR, Fischer DL, **Meldau JE**, Schroeder BA, Patra SE. External Ventricular Drain Placement Accuracy and Safety When Done by Midlevel Practitioners. *Neurosurgery.* 2019 Jan 1;84(1):235-241. doi: 10.1093/neuros/nyy090. PMID: 29618119.

Okorooha KR, **Meldau JE**, Lizzio VA, Meta F, Stephens JP, Moutzouros V, Makhni EC. Effect of Fatigue on Medial Elbow Torque in Baseball Pitchers: A Simulated Game Analysis. *Am J Sports Med.* 2018 Aug;46(10):2509-2513. doi: 10.1177/0363546518782451. Epub 2018 Jun 28. PMID: 29953258.

Kadri O, Jildeh TR, **Meldau JE**, Blanchett J, Borowsky P, Muh S, Moutzouros V, Makhni EC. How Long Does It Take for Patients to Complete PROMIS Scores?: An Assessment of PROMIS CAT Questionnaires Administered at an Ambulatory Sports Medicine Clinic. *Orthop J Sports Med.* 2018 Aug 14;6(8):2325967118791180. doi: 10.1177/2325967118791180. PMID: 30140710; PMCID: PMC6096684.

Lewis S, Kink S, Rahl M, Nord A, **Meldau J**, Roberts K. Aspirin: are patients actually taking it?-A quality assessment study. *Arthroplast Today.* 2018 Sep 3;4(4):475-478. doi: 10.1016/j.artd.2018.07.006. PMID: 30560179; PMCID: PMC6287232.

## **Submitted Manuscripts Under Review**

**Meldau JE**, Upadhyay D, Thomas N, Wojewnik B. Operative Management of a Complex Cervical Spine Fracture in a Patient with Osteogenesis Imperfecta

Tiee MS, **Meldau JE**, Boubekri AM, Levack AE, Cohen J, Summers HD. Effect of Severity of Femoral Head Medialization on Complications Associated with Acetabular Fracture

Upadhyay D, **Meldau JE**, Altiok H. Dysplasia Epiphysealis Hemimelica of the Medial Talus and Navicular in a Pediatric Patient: A Case Report

Castillo H, Lingampalli N, **Meldau JE**, Baksh N, Wojewnik B. Incidence and Risk Factors for Acute Kidney Injury after Spine Surgery

Lingampalli N, Castillo H, **Meldau JE**, Baksh N, Wojewnik B. Recognition and Management of Cervical Myelopathy Among First-Line Physicians

Lingampalli N, Castillo H, **Meldau JE**, Moossighi R, Baksh N, Wojewnik B. Cost Analysis of Back Injuries in National Hockey League Players

Lingampalli N, Castillo H, Conti Mica MR, Fogel HA **Meldau JE**, Baksh N, Ghanayem AJ, Wojewnik B. Resident Spine Education Using a Simulated Based Curriculum

Lingampalli N, **Meldau JE**, Boubekri AM, Wojewnik B. Patient and Operating Room Staff Radiation Exposure After Fluoroscopic Image Collection During Fusion Surgery

Lingampalli N, Castillo H, Farooq H, **Meldau JE**, Boubekri A, Evans D, Miller J. Incidence of Injuries in WNBA Players Participating in Olympic and Professional Play

## **Conference Presentations**

MacConnell A, Krob J, Muriuki M, Havey R, **Meldau J**, Matteini L, Wojewnik B, Baksh N, Patwardhan A. Sequential Correction of Sagittal Vertical Alignment and Lumbar Lordosis in Adult Flatback Deformity. Poster Presentation. North American Spine Society Annual Meeting. Sept. 26, 2024, Chicago, Illinois

**Meldau JE**, Hodges SD, Muriuki M, Havey RM, Humphreys C, Wojewnik B, Patwardhan AG. Anatomic Contributions to the Stability of the L5-S1 Segment Under Combined Shear and Compression: Implications to Isthmic/Lytic Spondylolisthesis. Podium Presentation. Orthopaedic Research and Education Foundation Midwest Resident Research Symposium. May 3, 2024, Rosemont, IL

Lingampalli N, Castillo, **Meldau JE**, Baksh N, Wojewnik B. Cost Analysis of Back Injuries in National Hockey League Players. Poster Presentation. Mid-America Orthopaedic Association 41st Annual Meeting. Apr. 12, 2024, Bonita Springs, Florida

Boubekri AM, Farooq H, Tiee MS, **Meldau JE**, Shivdasani K, Salazar DH, Garbis NG. Comparing Orthopaedic Trainee Confidence While Performing Elbow Arthrocentesis: A Cadaveric Study. Podium Presentation. Mid-America Orthopaedic Association 41st Annual Meeting. Apr. 11, 2024, Bonita Springs, Florida

**Meldau JE**, Hodges SD, Muriuki M, Havey RM, Humphreys C, Wojewnik B, Patwardhan AG. Anatomic Contributions to the Stability of the L5-S1 Segment Under Combined Shear and Compression: Implications to Isthmic/Lytic Spondylolisthesis. Podium Presentation. 2024 Spine Summit. Apr. 24, 2024, Las Vegas, Nevada

Lingampalli N, Castillo H, **Meldau JE**, Moossighi R, Baksh N, Wojewnik B. Cost Analysis of Back Injuries in National Hockey League Players. Poster Presentation. International Society for the Advancement of Spine Surgery 23rd Annual Conference. June 1, 2023, San Francisco, California

Lingampalli N,, **Meldau JE**, Boubekri A, Farooq H, Evans D, Miller J. Incidence of Injuries in WNBA Players Participating in Olympic and Professional Play. Poster Presentation. Mid-America Orthopaedic Association 40th Annual Meeting. Apr. 19, 2023, Miramar Beach, Florida

**Meldau JE**, Hodges SD, Muriuki M, Havey RM, Humphreys C, Wojewnik B, Patwardhan AG. Anatomic Contributions to the Stability of the L5-S1 Segment Under Combined Shear and Compression:

Implications to Isthmic/Lytic Spondylolisthesis. Podium Presentation. North American Spine Society Annual Meeting. Oct. 12, 2022, Chicago, Illinois

Tiee MS, **Meldau JE**, Boubekri AM, Levack AE, Cohen J, Summers HD. Effect of Severity of Femoral Head Medialization on Complications Associated with Acetabular Fractures. Poster Presentation. Orthopaedic Trauma Association Annual Meeting. Oct. 12, 2022, Tampa Bay, Florida

**Meldau JE**, LeDuc RC, Havey RM, Barnard ER, Muriuki MG, Kaczmarz N, Patwardhan AG, Schiff AP. Bone cutting efficiency and heat generation using a traditional fluted Burr and a novel fluteless resurfacing tool. Podium Presentation. Orthopaedic Research and Education Foundation Midwest Resident Research Symposium. Oct. 10, 2022, St. Louis MO

McGregor PC, **Meldau JE**, Liskutin TE, Kelly R, Cohen JB, Levack AE, Summers HD. Hospital Transfer and Delayed Reduction of Traumatic Hip Dislocations. Poster Presentation. American Academy of Orthopaedic Surgery Annual Meeting. Mar. 22, 2022, Chicago Illinois

McGregor PC, **Meldau JE**, Liskutin TE, Kelly R, Cohen JB, Levack AE, Summers HD. Hospital Transfer and Delayed Reduction of Traumatic Hip Dislocations. Poster Presentation. Orthopaedic Trauma Association Annual Meeting. Oct. 20, 2021, Fort Worth, Texas

Murphy M, **Meldau J**, Krob J, Brown N. Using demographic data improves THA and TKA templating accuracy among residents. Poster Presentation. American Association of Hip and Knee Surgeons 2021 Annual Meeting. Nov. 11, 2021, Dallas, Texas

Lizzio VA, Gullledge CM, Smith G, **Meldau JE**, Borowsky PA, Moutzourous V, Makhni EC. Predictors of Elbow Torque Among Professional Baseball Pitchers Podium Presentation. Michigan Orthopaedic Society Annual Scientific Meeting. Jun. 21, 2019, Mackinac Island, Michigan

**Meldau JE**, Srivastava K, Okorooha K, Ahmad CS, Muh SJ, Moutzourous V, Makhni EC. Cost Analysis of Tommy John Surgery for Major League Baseball Teams. Poster Presentation. American Shoulder and Elbow Surgeons Annual Meeting. Oct 16 2019. New York, New York

Fidai MS, Okorooha KR, **Meldau JE**, Borowky P, Meta F, Lizzio V, Redler LH, Moutzourous V, Makhni EC. Fatigue Increases ACL Risk Injury in Youth Athletes Performing a Field Based Drop Jump Test. Podium Presentation. Mid-America Orthopaedic Association 37th Annual Meeting. Apr. 10, 2019, Miramar Beach, Florida

Fidai MS, Tramer JS, **Meldau JE**, Sheena G, Gullledge CM, Muh SJ, Moutzourous V, Makhni EC. Mental Health and Tobacco Use Are Correlated with PROMIS Upper Extremity, Pain Interference Scores in Patients with Shoulder Pathology. Podium Presentation. Mid-America Orthopaedic Association 37th Annual Meeting. Apr. 10, 2019, Miramar Beach, Florida

Kadri OM, Jildeh TR, **Meldau JE**, Blanchett J, Borowksy P, Muh SJ, Moutzourous V, Makhni EC. How Long Does It Take for Patients to Complete PROMIS Scores? An Assessment of PROMIS CAT Questionnaires Administered in the Ambulatory Sports Medicine Clinic. Podium Presentation. Mid-America Orthopaedic Association 37th Annual Meeting. Apr. 10, 2019, Miramar Beach Florida

Muh SJ, Fisk F, Sheena G, Blanchett JW, Borowksy PA, **Meldau JE**, Moutzourous V, Makhni EC. Early Outcomes of Patient-Reported Outcomes Measurement Information System (PROMIS) Scores in Patients Undergoing Rotator Cuff Repair. Poster Presentation. Mid-America Orthopaedic Association 37th Annual Meeting. Apr. 10, 2019, Miramar Beach, Florida

Makhni EC, Okorooha KR, **Meldau J**, Lizzio VA, Stephens JP, Moutzouros V. Impact of Fatigue on Medial Elbow Torque in Baseball Pitchers: A Simulated Game Analysis. Podium Presentation. American Orthopaedic Society for Sports Medicine Annual Meeting. Jul. 5, 2018, San Diego, California

Fidai MS, Okorooha KR, **Meldau J**, Borowsky PA, Meta F, Lizzio VA, Redler LH, Moutzouros V, Makhni EC. Fatigue Increases ACL Injury Risk in Youth Athletes: Risk Assessment Study Using Drop-Jump Test. Podium Presentation. American Orthopaedic Society for Sports Medicine Annual Meeting. Jul. 5, 2018, San Diego, California

Okorooha KR, **Meldau J**, Lizzio VA, Meta F, Stephens JP, Moutzouros V, Makhni EC. Impact of Fatigue on Medial Elbow Torque in Baseball Pitchers: A Simulated Game Analysis. Podium Presentation. Michigan Orthopaedic Society Annual Scientific Meeting. Jun. 22, 2018, Mackinac Island, Michigan

Fidai MS, Okorooha KR, Borowsky P, **Meldau J**, Meta F, Lizzio VA, Blanchett J, Redler LH, Moutzouros V, Makhni EC. Fatigue Increases ACL Injury Risk in Youth Athletes: Risk Assessment Study Using Drop-Jump Test. Podium Presentation. Michigan Orthopaedic Society Annual Scientific Meeting. Jun. 22, 2018, Mackinac Island, Michigan

**Meldau J**, Patel R, Borowsky P, Blanchett J, Stephens J, Muh S, Moutzouros V, Makhni EC. Impact of patient-centric factors on pre-operative PROMIS Physical Function, Pain Interference, and Depression CAT Scores in patients undergoing shoulder and elbow surgery. Poster Presentation. Michigan Orthopaedic Society Annual Scientific Meeting. Jun. 22, 2018, Mackinac Island, Michigan

**Meldau J**, Okorooha KR, Jildeh TR, Stephens J, Moutzouros V, Makhni EC. Effect of Ball Weight on Medial Elbow Torque in Youth Baseball Pitchers Poster Presentation. Michigan Orthopaedic Society Annual Scientific Meeting. Jun. 22, 2018, Mackinac Island, Michigan

**Meldau J**, Srivastava K, Okorooha KR, Moutzouros V, Makhni EC. Cost Analysis of Tommy John Surgery for Major League Baseball Teams. Poster Presentation. Michigan Orthopaedic Society Annual Scientific Meeting. Jun. 22, 2018, Mackinac Island, Michigan

Lizzio VA, Blanchett J, Borowsky P, **Meldau J**, Muh S, Moutzouros V, Makhni EC. Feasibility of PROMIS Collection in the Ambulatory Sports Medicine Clinic with Respect to Cost and Patient Compliance: A Single Surgeon Experience. Poster Presentation. Michigan Orthopaedic Society Annual Scientific Meeting. Jun. 22, 2018, Mackinac Island, Michigan

Makhni EC, Lizzio VA, Meta F, **Meldau J**, Stephens J, Okorooha KR, Moutzouros V. Assessment of Elbow Torque and Other Parameters During the Pitching Motion: Comparison of Fastball, Curveball, and Change-up. Poster Presentation. Michigan Orthopaedic Society Annual Scientific Meeting. Jun. 22, 2018, Mackinac Island, Michigan

Makhni EC, **Meldau J**, Blanchett J, Borowsky P, Stephens J, Muh S, Moutzouros V. Correlation of PROMIS Physical Function, Pain Interference, and Depression in Pediatric and Adolescent Patients in the Ambulatory Sports Medicine Clinic. Poster Presentation. Michigan Orthopaedic Society Annual Scientific Meeting. Jun. 22, 2018, Mackinac Island, Michigan

Kadri O, Jildeh TR, **Meldau J**, Blanchett J, Borowsky P, Muh S, Moutzouros V, Makhni EC. How Long Does it Take for Patients to Complete PROMIS Scores? An Assessment of PROMIS CAT Questionnaires Administered in the Ambulatory Sports Medicine Clinic. Poster Presentation. Michigan Orthopaedic Society Annual Scientific Meeting. Jun. 22, 2018, Mackinac Island, Michigan

Borowsky P, Kadri O, **Meldau J**, Blanchett J, Moutzouros V, Makhni EC. Are Patients Willing to Complete Electronic Patient Reported Outcome Forms Remotely Prior to Their Clinic Visit? A Proof of

Concept Study using PROMIS CAT Questionnaires. Poster Presentation. Michigan Orthopaedic Society Annual Scientific Meeting. Jun. 22, 2018, Mackinac Island, Michigan

Fidai MS, Okoroha KR, Borowsky P, **Meldau J**, Meta F, Lizzio VA, Blanchett J, Redler LH, Moutzouros V, Makhni EC. Fatigue Increases ACL Injury Risk in Youth Athletes: Risk Assessment Study Using Drop-Jump Test. Podium Presentation. Henry Ford Hospital Medical Education Research Forum. May 11, 2018, Detroit, Michigan

Okoroha KR, **Meldau J**, Lizzio VA, Stephens JP, Moutzouros V, Makhni EC. Impact of Fatigue on Medial Elbow Torque in Baseball Pitchers: A Simulated Game Analysis. Podium Presentation. Henry Ford Hospital Medical Education Research Forum. May 11, 2018, Detroit, Michigan

Wilkening M, Yaldo O, **Meldau J**, Roberts K, Russo S. Staggered Instrumentation in Adults Undergoing Posterior Spinal Fusion: A Novel Technique for Soft Tissue Preservation at The Upper Instrumented Vertebra. Poster Presentation. Global Spine Congress. May 5, 2018, Singapore

Okoroha KR, Meta F, **Meldau J**, Lizzio VA, Ahmad CS, Moutzouros V, Makhni EC. Predictors of Elbow Torque in Youth and Adolescent Baseball Pitchers Using a New Mobile Sensor: Fastballs Versus Breaking Pitches. Podium Presentation. Arthroscopy Association of North America Annual Meeting. Apr. 26 2018, Chicago, Illinois

**Meldau J**, Khalil L, Matar R, Blanchett J, Borowsky P, Shehab R, Makhni EC. Intramuscular Quadriceps Tear Treated with Platelet-Rich Plasma in a 21-Year-Old Football Player: A Case Report. Podium Presentation. Grand Rapids Medical Education Partners Research Day. Apr. 18, 2018, Grand Rapids, Michigan

**Meldau J**, Srivastava K, Okoroha KR, Borowsky P, Blanchett J, Ahmad C, Moutzouros V, Makhni EC. Financial Impact of Tommy John Surgery for Major League Baseball Teams. Podium Presentation. Grand Rapids Medical Education Partners Research Day. Apr. 18, 2018, Grand Rapids, Michigan

**Meldau J**, Okoroha KR, Lizzio VA, Meta F, Borowsky P, Blanchett J, Stephens JP, Moutzouros V, Makhni EC. Impact of Fatigue on Medial Elbow Torque in Baseball Pitchers: A Simulated Game Analysis. Poster Presentation. American Physician Scientist Association Midwest Regional Meeting. Jan. 13, 2018, Iowa City, Iowa

Ellens N, Fischer DL, **Meldau J**, Schroeder B, Patra S. External Ventricular Drain Placement Accuracy and Safety When Done by Midlevel Providers. Poster Presentation. Congress of Neurological Surgeons Annual Meeting. Oct. 7, 2017, Boston, Massachusetts

Nord A, **Meldau J**, Roberts K, Lewis S. Aspirin: Are Patients Actually Taking It? Podium Presentation. Michigan Orthopaedic Society Annual Meeting. Jun. 16, 2017, Mackinac Island, Michigan

**Meldau J**, Nord A, Jebson PJ, Hamilton K. Factors Used by Program Directors to Select Sports Medicine Research Fellows. Podium Presentation. Grand Rapids Medical Education Partners Research Day. Apr. 19, 2017, Grand Rapids, Michigan

Ellens N, Fischer DL, **Meldau J**, Schroeder B, Patra S. External Ventricular Drain Placement Accuracy and Safety When Done by Midlevel Providers. Podium Presentation. Grand Rapids Medical Education Partners Research Day. Apr. 19, 2017, Grand Rapids, Michigan

**Meldau J**, Wenzlick TS, Tanner JC, Anderson JG, Bohay DR, Padley MA. Clinical Outcome Comparison of Intercuneiform or Intermetatarsal Fusion for Intercuneiform Instability for Hallux Valgus.

Podium Presentation. 2<sup>nd</sup> Annual Robert J. Lucas Surgical Society Research Symposium at Oakland University William Beaumont School of Medicine. Mar. 9, 2017, Rochester, Michigan

Wenzlick TS, **Meldau J**, Tanner JC, Anderson JG, Bohay DR, Padley MA. Clinical Outcome Comparison of Intercuneiform or Intermetatarsal Fusion for Intercuneiform Instability for Hallux Valgus. Podium Presentation. Michigan Orthopaedic Society Annual Meeting. Jun. 19, 2016, Mackinac Island, Michigan

**Meldau J**, Gonzalez-Vega O, Gilde A, Sietema D, Jones C. Does Osteoporosis Intervention Decrease the Need for Additional Surgery in Femoral Neck Fractures Treated with Closed Reduction and Percutaneous Pinning. Poster Presentation. Grand Rapids Medical Education Partners Research Day. Apr. 27, 2016, Grand Rapids, Michigan

Wenzlick TS, **Meldau J**, Tanner JC, Anderson JG, Bohay DR, Padley MA. Clinical Outcome Comparison of Intercuneiform or Intermetatarsal Fusion for Intercuneiform Instability for Hallux Valgus. Podium Presentation. Grand Rapids Medical Education Partners Research Day. Apr. 27, 2016, Grand Rapids, Michigan

Gilde A, Sietema D, Gonzalez-Vega O, **Meldau J**, Jones C. Does Osteoporosis Intervention Decrease the Need for Additional Surgery in Femoral Neck Fractures Treated with Closed Reduction and Percutaneous Pinning. Podium Presentation. Mid-America Orthopaedic Association Annual Meeting. Apr. 14, 2016, Bonita Springs, Florida

**Meldau J** and Marwin S. Birmingham Hip Resurfacing and Femoral Head Size. Podium Presentation. NYU Orthopaedic Externship at NYU Langone Medical Center. Aug. 13, 2014, New York, New York

## **Ongoing Research Projects**

**Meldau JE**, Hodges SD, Muriuki M, Havey RM, Humphreys C, Wojewnik B, Patwardhan AG. Anatomic Contributions to the Stability of the L5-S1 Segment Under Combined Shear and Compression: Implications to Isthmic/Lytic Spondylolisthesis

**Meldau JE**, Wojewnik B, Baluch D, Santaniello J, Ghanayem AJ. Retrograde Ejaculation after Anterior Lumbar Interbody Fusion with Recombinant Human Bone Morphogenetic Protein-2: Results from a Non-Industry Sponsored, Single Surgical Team

**Meldau JE**, Perry M, Hughes M, Wojewnik B. Dual Dural Sleeves in a C8 Nerve Root Discovered Intraoperatively: A Case Report and Review of the Literature

LeDuc RC, **Meldau JE**, Castillo H, Cho E, Schiff AP. PROMIS Score Outcomes for Total Talus Replacement and Combined Total Ankle and Total Talus Replacement

LeDuc RC, **Meldau JE**, Wojewnik B. Utilization of Inpatient Post Operative Radiographs in Elective Cervical and Lumbar Fusions

Boubekri AM, Farooq H, Tiee MS, **Meldau JE**, Salazar DH, Garbis NG. Comparing Orthopaedic Trainee Confidence While Performing Elbow Arthrocentesis: A Cadaveric Study

LeDuc R, **Meldau JE**, Kuzma A. Barriers to Outpatient Orthopaedic Follow Up - A Quality Improvement Study

## **Leadership Experience**

- C. McCollister Evarts Resident Leadership Forum - Attendee* June 2023
- Outstanding PGY4 residents from accredited institutions who have garnered recognition as up-and-coming orthopaedic leaders within their program are nominated by their Program Directors and Department Chairs

- Education Committee Member* July 2020 - July 2021  
Loyola University Medical Center Department of Orthopaedics
- Resident member of Orthopaedic Department Education Committee. Met with attending members to review and plan resident education

## **Honors and Awards**

- The Cervical Spine Research Society 51st Annual Meeting Level 1 Scholarship Award Dec 2023
- Grand Rapids Citywide Research Day 2018 - Spectrum Health Award for Student Study April 2018
- Award received for medical student research presentation
- Grand Rapids Citywide Research Day 2018 - Spectrum Health Award for Student Case Report April 2018
- Award received for medical student case report presentation
- Michigan State University Board of Trustees Award May 2014
- Award for having the highest scholastic average at the close of their last semester in attendance at Michigan State University
- Henry Ford Medical Staff Fund May 2010
- Scholarship awarded to a student in Metro Detroit pursuing a career in medicine

## **Work Experience**

- Henry Ford Hospital Department of Orthopaedic Surgery – Sports Medicine* Aug. 2017 - Aug. 2018  
Orthopaedic Clinical Research Fellow  
Supervisors: Dr. Eric Makhni and Dr. Vasilios Moutzouros
- Managed a portfolio of research projects under Dr. Eric Makhni and Dr. Vasilios Moutzouros
  - Involved with designing projects, writing of a RO1 grant and IRB applications, patient enrollment into clinical trials, data collection, and manuscript preparation
  - Coordinated Henry Ford participation in multi-center clinical trials, prepared multi-center grants
  - Implemented and ran a PROMIS-based Sports Medicine Surgical Registry and Adult Reconstruction Surgical Registry using REDCap software
- AAOS Resident Assembly Research Committee - Student Member* April 2018 - Aug. 2019
- Student member of the resident run AAOS Research Committee that provides opportunities for leadership and research development as well as knowledge of and feedback for AAOS operations
- Tutor* Aug. 2016 - Aug. 2019  
Michigan State University College of Human Medicine  
Supervisor: Vance Kincaid
- Tutored first year medical students in anatomy, physiology, and epidemiology
  - Tutored second year medical students in Step 1 preparation

*QBAL Leader* Aug. 2016 - May 2017  
Michigan State University College of Human Medicine  
Supervisor: Vance Kincaid

- Provided a weekly two-hour course in Step 1 preparation utilizing practice questions

*Orthopaedic Interest Group Leader* Aug. 2015 - Aug. 2016  
Michigan State University College of Human Medicine

- Organized meetings for medical students with orthopaedic residents and physicians who provided insight into the field as well as advice on the orthopaedic match

*Sports Medicine Interest Group Co-Founder* Aug. 2015 - Aug. 2016  
Michigan State University College of Human Medicine

- Co-found an organization for medical students with interests in sports medicine
- Organized meetings for medical students with sports medicine physicians, operative and non-operative, who provided insight into the field as well as advice on the orthopaedic and family medicine match

*Orthopaedic Externship* July 2015 - Aug. 2015  
NYU Langone Medical Center  
Supervisor: Dr. Scott Marwin M.D.

- A seven-week externship program that involved: becoming an active member of an orthopaedic surgery team and weekly lectures on the principals, biomechanics, and biomaterials of orthopaedic surgery

*Undergraduate Learning Assistant* Aug. 2011 - Dec. 2014  
Michigan State University Lyman Briggs College  
Supervisors: Drs. Samantha Cass and Stacy Hickox

- Provided a weekly one-hour course for Chemistry 1 and 2
- Assisted in the development and teaching of an online Integrative Social Sciences Course.
- Responsibilities included grading coursework, weekly office hours, and online question and answer sessions

## **Volunteer Experience**

*South Winds Golf Club* May 2018 - July 2018  
Volunteer

- Assist with senior and youth golf leagues. Responsibilities include helping elderly players transfer golf equipment across the course, teaching youth players the basics of golf, and course maintenance

*St. Baldrick's Foundation* Mar. 2015 - Mar. 2016  
Program Coordinator and Member

- Started an organization at my medical school to help raise money and awareness for pediatric cancer research
- Volunteered to have my head shaved for the cause

*Michigan State University Alternative Spring Break* Mar. 2013  
Volunteer

- Spent time with veterans in the community living, radiology oncology, art, and rehabilitation centers at Bay Pines VA Hospital

*Cristo Rey Health Clinic Lansing, MI* Aug. 2012 - Aug. 2013

Volunteer

- Documented patient vitals at this bilingual health clinic that provides health care to those most in need in the Greater Lansing Area