



2024

ANNUAL RESEARCH SYMPOSIUM

April 21, 2024

10am - 3pm EST

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ABOUT US



Orthopedic surgery is one of the most competitive specialties to apply as a medical student. In Match 2024, 1,492 applicants applied for 916 orthopedic surgery residency spots, resulting in a 61.4% acceptance rate. With more medical schools transitioning to an integrated or accelerated pre-clinical model, education regarding orthopedic surgery is limited.

It is of paramount importance to provide medical students with educational resources to enrich their orthopedic surgery experience, find mentors, develop research skills, and obtain guidance on the residency application process.

The aim of the Medical Student Orthopedic Society (MSOS) is to provide students with equal access to resources to help them navigate the field of orthopedic surgery.

WELCOME

Welcome to the 2024 Medical Student Orthopedic Society (MSOS) Research Symposium, hosted by the Johns Hopkins University. The symposium committee, chairs, and advisors have worked diligently to prepare the best program for medical students.

Our annual research symposium is unlike any other orthopaedic surgery meeting in the country – providing a comprehensive and free program aiming to encourage medical student research, create opportunities for students to present and publish their works, and learn more about the journey to matching into orthopaedic surgery.

The annual research symposium would not be possible without our sponsors and volunteers – thank you for your continued support this year!



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- Located in the heart of Baltimore, MD
- 7 residents per class
- T-32 Training Program



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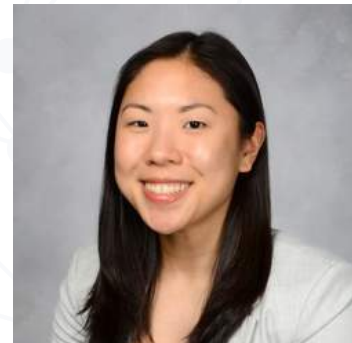
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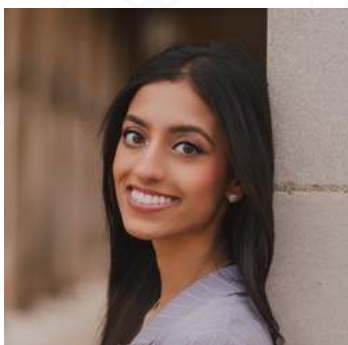
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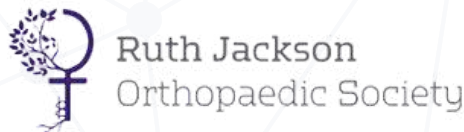


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CONFERENCE SCHEDULE

10:00AM-10:15AM **Opening Remarks**

Amy Zhao
James Ficke, MD

10:15AM - 11:30AM **Poster Presentations**

11:30AM-12:15PM **Panel - Tips to Match**

Moderated by Samantha Ferraro

Amil Agarwal
Anthony Chiu
Cristina DelPrete
Sophia Mavrommatis
Desiree Ojo
Christopher Saker

12:15PM-1:00PM **Panel - Day in the Life of an Orthopaedic Surgery Resident**

Moderated by Krupa Patel

Sennay Ghenbot, MD
Mary Hennekes, MD
Kevin Lehane, DO
Julia Mastracci, MD
Claire McDaniel, MD, MBA
Sarah Pirkle, MD

1:00PM-2:00PM **Podium Presentations**

Moderated by Marc Swiontkowski, MD and James Ficke, MD

2:00PM-3:00PM **Panel - Program Directors**

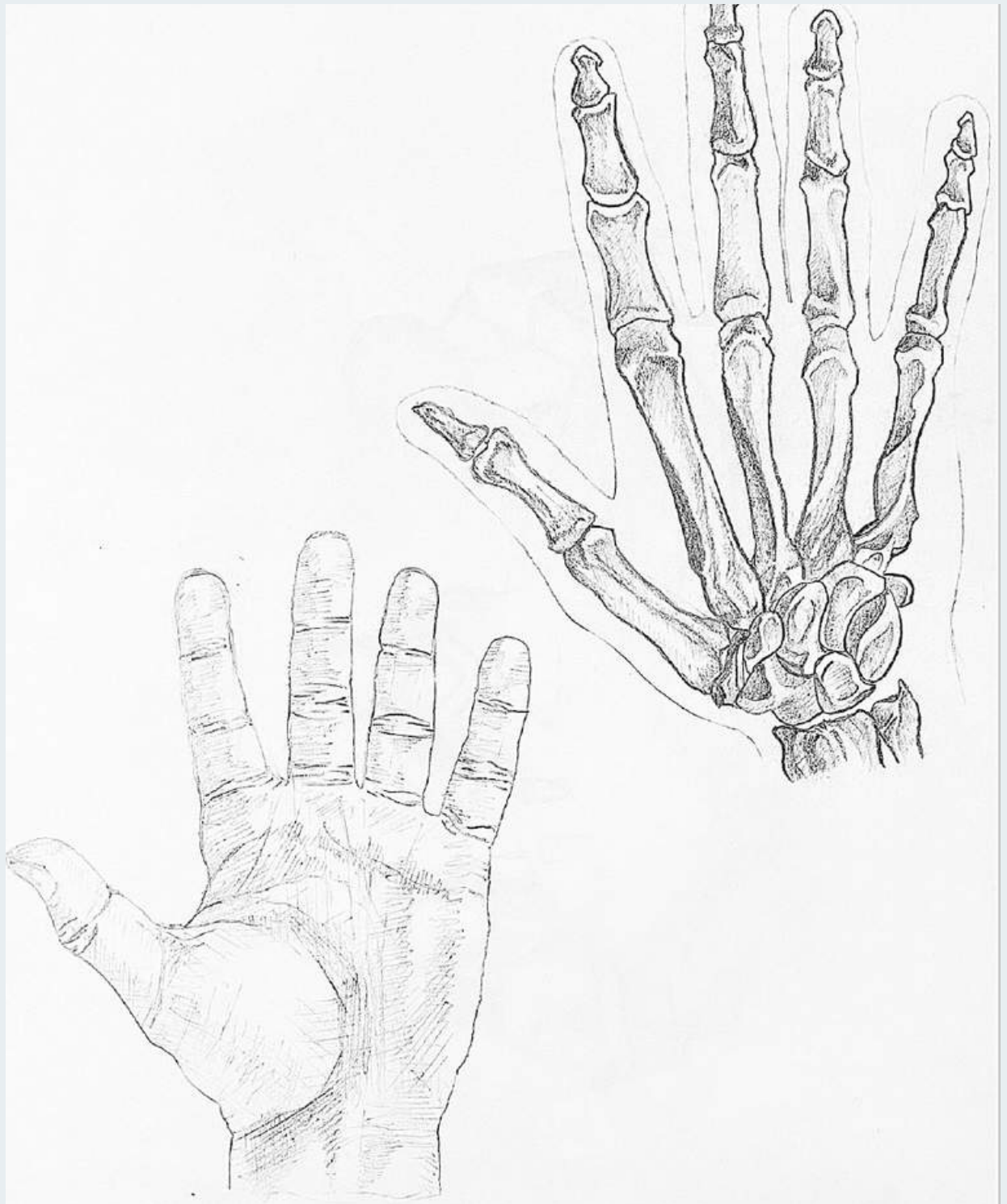
Moderated by Victoria Bergstein

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3:00-3:15PM **Closing Remarks and Awards**

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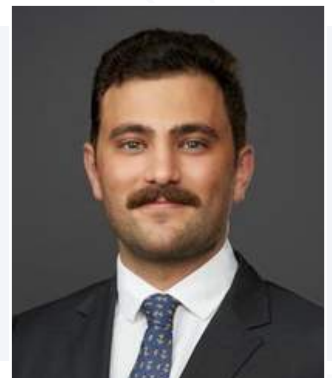
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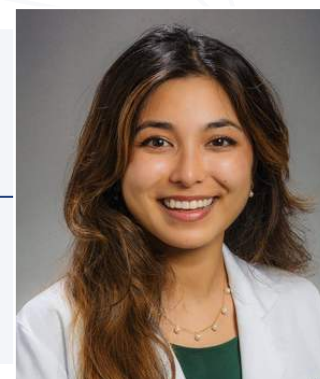
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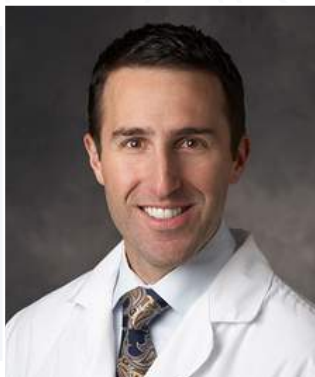
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PODIUM PRESENTATIONS



The Clinical Impact of Initiating Anti-Osteoporosis Therapy Following a Distal Radius Fracture

CHENÉE ARMANDO, BA; EDWARD FOX, MD; KENNETH TAYLOR, MD

PENN STATE UNIVERSITY, HERSHEY, PA

Introduction: The presence of osteoporosis and other bone density pathologies poses a significant risk for life-altering fragility fractures. Distal radius fractures (DRF) are often among the first injuries associated with osteoporosis, accounting for 18% of fractures in patients over 65 years old. This presents a glaring opportunity to prevent a future cascade of events. This study aims to determine the extent to which the risk of subsequent fragility fractures can be reduced by initiating anti-osteoporotic therapy after an initial presentation of a DRF.

Methods: This study utilized TriNetX, an online database with de-identified patient data. We identified females above the age of 50 reporting DRF incidents. They were categorized based on receiving initial anti-osteoporotic treatment within a year of the DRF. After propensity matching, the risk of a subsequent DRF from 2003 to 2023 was explored as well as subsequent DEXA scans.

Results: Baseline differences included higher rates of bone density disorders, inflammatory polyarthropathies, spondylopathies, metabolic disorders, obesity, malnutrition, and neoplasm in the Medication (M) group. Notably, 38.9% of the M group had a prior DEXA scan compared to 7.2% of the No Medication (NM) group. The most frequently prescribed anti-osteoporotic medication in the M group was Alendronate (48.9%). After propensity matching each group (n=8,853), the risk analysis revealed the M group had a decreased risk of subsequent DRF (Risk Ratio= 0.817, CI= 0.766, 0.872) $p < 0.0001$ and a higher rate of bone density evaluations (Risk Ratio=1.436, (1.358, 1.519), $p < 0.0001$).

Conclusion: The results showed the M group had 84.05% more DEXA scans and were 21.7% less likely to have a subsequent DRF fracture compared to the NM group. These findings demonstrate timely assessment and proper medical intervention can avert future DRF in women over 70. However, post-DRF bone density evaluations remain infrequent.

5-Year Fracture Rate Among Transgender Patients Using Gender-Affirming Hormone Therapy

ALICIA JACOBSON, BS; DANIEL WHITNEY, PHD; MAMDOUHI TANIA, MD; CAROL JANNEY, PHD; JULIE BLASZCZAK, MD, MEHP; JAIMO AHN, MD, PHD

UNIVERSITY OF MICHIGAN, ANN ARBOR, MI

Introduction: Transgender and gender diverse (TGD) people have unique health care needs related to the use of gender-affirming hormone therapy (GAHT) based on either estrogen (17-B estradiol with anti-androgen therapy) or testosterone. Given the importance of estrogen and testosterone in bone health maintenance, population-level fracture data is required to guide appropriate patient counseling throughout the lifespan. A paucity of data, however, describes resultant fracture risk associated with GAHT. The primary objective was to assess if GAHT was associated with 5-year fracture rate.

Methods: Using the Truven MarketScan Commercial Claims database, we conducted a retrospective cohort analysis of de-identified TGD patients aged 18 – 65 years old with and without use of GAHT. The incidence rate of 5-year fracture was estimated for each cohort and adjusted for age using cox proportional hazards regression.

Results: Among TGD patients (n=11,953), the IR of fracture was 14.3 (95% CI 10.9 – 17.7) for EGAHT, 17.3 (95% CI 13.4 – 21.2) for TGAHT and 20.8 (95% CI 18.9 – 22.3) for non-GAHT. Most fractures occurred at the foot (28%), hand (26%) and ankle (13%). Compared to non-GAHT, the age-adjusted HR was 0.83 (95%CI=0.63 – 1.10) for TGAHT and 0.72 (95%CI=0.54 – 0.95) for EGAHT.

Discussion: EGAHT and TGAHT was associated with a lower 5-year rate all-cause fracture compared to TGD patients not on GAHT, although, only EGAHT reached statistical significance. The study also found no evidence of effect modification by age, suggesting that the strength of the associations were similar across the 18–65-year-old age range. A major strength of this study was the relatively long 5-year follow-up period, which allowed us to capture incident fracture rates within a clinically meaningful period.

Conclusion: Long term use of GAHT is safe for TGD patients, and EGAHT is protective against all-cause 5-year fracture rate.

Burying the White Blood Cell Count: Using the Neutrophil-to-Lymphocyte to Determine the Severity of Pediatric Musculoskeletal Infection

BRIAN HOU, BA; ANOOP CHANDRASHEKAR, BA; STEPHEN CHENARD, MSC; **NAADIR JAMAL, BS**; HUI NIAN, PHD; JACQUELYN PENNINGS, PHD; RYAN SELTZER, MD; STEPHANIE MOORE-LOTRIDGE, PHD; JONATHAN SCHOENECKER, MD, PHD

VANDERBILT UNIVERSITY, NASHVILLE, TN

Introduction: Pediatric orthopedic surgeons face the challenge of rapidly triaging musculoskeletal infections (MSKI) to determine which children are at most risk for adverse outcomes. Tools such as the Kocher criteria have demonstrated validity in predicting the likelihood of an infection, however, few predict the severity. Although CRP is the gold standard for determining severity, front-line clinicians may only order a CBC, erroneously interpreting WBC count which is less sensitive and specific than CRP. The neutrophil-to-lymphocyte ratio (NLR), derived from a CBC with differential, has previously shown promise as a marker of severity. Thus, we hypothesized that NLR, like CRP, is predictive of both infection and disease severity in pediatric MSKI.

Methods: A single-center retrospective cohort study was conducted using a database of pediatric orthopedic consultations for MSKI between January 2011 and July 2022. Diagnoses were categorized as MSKI, or no infection (e.g. transient synovitis) based on chart review. The degree of infection was stratified as no infection, local, disseminated, or disseminated with complications infections. NLR was calculated as absolute neutrophil count divided by absolute lymphocyte count.

Results: Among 712 patients, 257 had no infection and 455 were diagnosed with an MSKI. The infected group had significantly increased mean CRP, WBC count, and NLR compared to the non-infected group ($p < .0001$). Admission CRP was also stratified by severity with significant increases between patients in each infection category (8.3 vs 39.25 vs 107.0 vs 256.9, $p < 0.0001$). Admission WBC count was a poor predictor of infection severity with limited ability to discriminate between infection categories (11.0 vs. 12.6 vs. 12.6 vs. 11.7, $p < 0.05$). NLR was able to differentiate severity between no infection, local, and disseminated infections ($p < .0001$).

Discussion: Clinical tools to pragmatically determine MSKI severity are needed for appropriate management. NLR should be considered alongside CRP as an efficient triaging tool for pediatric MSKI.

Cephalomedullary Nail Fixation of Subtrochanteric Femur Fractures: Is One Distal Locking Screw Enough?

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Introduction: Subtrochanteric (ST) fractures are proximal femur fractures with strong deforming muscular forces, which complicate anatomical reduction and treatment. These fractures are fixed with intramedullary nails with two distal locking screws, although the need for both screws has never been researched. This study's purpose was to investigate the use of one versus two distal locking screws on clinical and radiographic outcomes and complication rates.

Methods: An IRB-approved retrospective review of a consecutive series of subtrochanteric femoral fractures was performed. Each patient's medical record was reviewed for demographics, injury and treatment information, perioperative details, radiographic parameters, hospital quality measures, and outcomes. Patients were divided into 2 cohorts: one distal locking screw (1-screw Cohort) and two distal locking screws (2-screw Cohort). Comparative analyses were conducted.

Results: 232 patients met inclusion criteria with a mean age of 71.18 ± 19.05 years and average follow-up time of 11 months. All fractures were treated with an antegrade, reamed cephalomedullary nail (CMN). 50 (21.6%) patients were fixed with one 5 mm distal locking screw and 182 (78.4%) patients had two screws. Patients with 1 screw had a shorter operative time in minutes (156.64 ± 47.06 vs 176.06 ± 41.32 , $p=0.005$), but there were no further differences perioperatively. Both cohorts experienced similar rates of fracture healing, medical and mechanical complications, mortality, and readmission.

Discussion: Clinically, a single distal locking bolt is sufficient for ST femur fractures fixed with a CMN. A second distal locking screw may be reserved for situations in which the surgeon feels that the first screw has not achieved adequate fixation.

Minimum Two-Year Follow-Up Outcomes Following Anatomic Acetabular Labral Tear Repair with Knotless All-Suture Anchors in Primary Hip Arthroscopy. A Prospective Analysis of 200 Consecutive Patients

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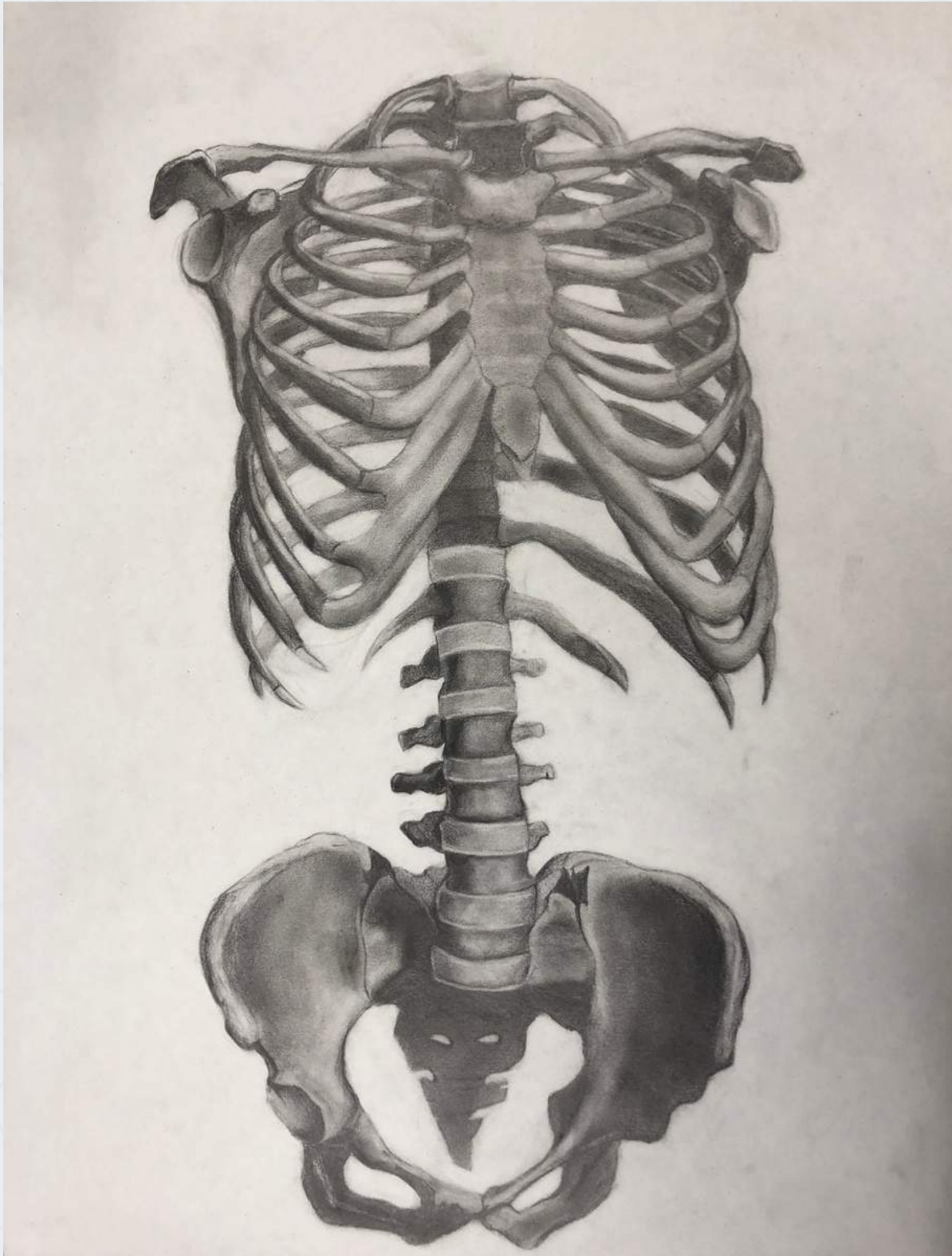
Introduction: The purpose of this study is to report minimum 2-year follow-up patient-reported outcome score measures (PROMs) for patients who underwent primary hip arthroscopy with labral repair using all-suture knotless tensionable anchors (KTAs) and the controlled-tension anatomic technique (CTA) in the setting of femoroacetabular impingement syndrome (FAIS).

Methods: Patients who underwent primary hip arthroscopy for the treatment of FAIS and labral tear repair using KTAs CTA between April 2019 and February 2021 were included. Baseline and minimum 2-year follow-up for the modified Harris Hip Score (mHHS), Non-Arthritic Hip Score (NAHS), Hip Outcome Score-Sports Specific Subscale (HOS-SSS), Visual Analog Scale for Pain (VAS), International Hip Outcome Tool-12 (iHOT-12) and Patient Satisfaction scores were collected. Rates of achieving the minimal clinically important difference (MCID), the patient acceptable symptomatic state (PASS), and the maximum outcome improvement (MOI) score threshold.

Results: Two hundred patients were included for the prospective analysis with a minimum 2-year follow-up. Significant improvement in all PROMs from baseline to minimum 2-year follow-up was reported ($P < 0.05$). The cohort achieved high rates of MCID for the mHHS (91%), NAHS (92%), HOS-SSS (93.5%), and VAS (92.5%), high rates of PASS for the mHHS (89.4%), NAHS (73%), and HOS-SSS (77%), and high rates of MOI for NAHS (74.5%) and HOS-SSS (76.5%). 95.5 % of patients achieved MCID or PASS for at least 1 metric.

Conclusion: At a minimum 2-year follow-up, patients who underwent primary hip arthroscopic surgery for FAIS with labral tear repair using KTAs CTA demonstrated significant improvement for all the PROMs collected, VAS, and patient satisfaction. Moreover, high rates of achievement for the MCID, PASS, and MOI were also reported. Based on this prospective analysis, acetabular labral tear repair using KTAs CTA seems to be a safe and valid option.

POSTERS



BASIC SCIENCE

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A simple independent double loop system of No.2 nonabsorbable braided fiber significantly improves biomechanical properties of tendon grafts in graft-link preparation technique: An experimental study

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Duy Tan University

Evaluating limb regenerating capabilities of osteoprogenitor cells

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Alexandria Case
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FOOT & ANKLE 1

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FOOT & ANKLE 2

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Sylvester Okoro
Morehouse School of Medicine

Arthroscopic Management of Juvenile Osteochondritis Dissecans Lesions of the Talus

Samantha Olson
Penn State University

Study of Pediatric Femoral Nailing Surgeries Following the Implementation of a Dedicated Orthopaedic Trauma Block Time

Jenny Sheasley
University of Washington

Pediatric Tibial Tubercle Fractures and Incidence of Pediatric Acute Compartment Syndrome

Vishrudh Vasudevan
Central Michigan University

PRACTICE MANAGEMENT

MODERATED BY DR. WAYNE JOHNSON & DR. CLAIRE MCDANIEL

Is Ocular Radiation of Orthopedic Surgeons an Occupational Health Issue?nt Femoral Condylar Surfaces: A Pilot Study

Keith Arnold
Case Western Reserve University

Socioeconomic Status and Presenting Symptoms in Musculoskeletal Specialty Care

Rafael Cordero
Ponce Health Sciences University

Phenytoin is Associated with Increased Risk of Osteoporosis and Fragility Fractures in Adult Epileptic Patients

Sterling Deshazo
University of Texas Medical Branch

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Alioune Diane
Rutgers University

Clinical Practice Guidelines for Antimicrobial-Loaded Cements and Beads in the Treatment of Infected Devices in Orthopedic Trauma and Arthroplasty

Aaron Epperson
Kansas City University

Temporal Trends in Prescribing Practices of Opioids for Orthopedic Surgeons in the United States: 2013-2021

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Campbell University

Analysis of Risk Factors for Medical Malpractice Due to Venous Thromboembolism Following Orthopaedic Surgery

Simon Moore
University of Texas Medical Branch

An Orthopaedic Assessment of Medical Malpractice Surrounding Compartment Syndrome

Jose Morales
University of California Riverside

Managing Surgical Expenses: A Study on Cost Variation in Pediatric ACL Reconstruction

Emily Moya
Stanford University

A Technology-enabled Model to Define the Total Costs of Comprehensive Management of Hip and Knee Osteoarthritis: The Missing Link in Value Based Musculoskeletal Care

George Sayegh
University of Texas at Austin

Trends in Postoperative Oral Antibiotic Prophylaxis and Infection for Outpatient Total Hip and Knee Arthroplasty from 2015-2020

Priya Singh
Icahn School of Medicine

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Hubert Tuyishime
Stanford University

“Therapy Deserts” – A Call to Action to Address Inequitable Access to Therapy Services Among Pediatric Orthopaedic Patients

Maïke van Niekerk
Stanford University

Effectiveness of Digital Health Interventions (DHI) in Chronic Pain Management: A Scoping Review of Current Evidence and Emerging Trends

Simon Wahba
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Intraosseous Vancomycin Limits Systemic Effects of Vancomycin in Total Joint Arthroplasty

Reagan Williams
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SHOULDER & ELBOW 1

MODERATED BY DR. WILLIAM LEVINE & DR. ANDREW LUZZI

The Role of Rotator Cuff Integrity: A Comparative Analysis of Reverse Total Shoulder Arthroplasty Outcomes in Glenohumeral Osteoarthritis

Louis Barry
Ohio State University

Clinical Outcomes of Bilateral Total Shoulder Arthroplasty

Victoria Bindi
University of Florida

Low Socioeconomic Status Correlates with Recurrent Shoulder Instability Before Surgical Intervention

Morgan Bolton
Georgetown University

Shoulder Arthroplasty In Patients With Systemic Lupus Erythematosus: What Are The Complication Risks?

Alexander Dawes
Medical College of Wisconsin

The Relationship of the Axillary Artery to the Inferior Glenoid in Arm Abduction: An Anatomical Study

Connor Gantt
Wright State University

Allograft Prosthetic-Composite Versus Endoprosthesis Reconstruction for Massive Proximal Humerus Bone Loss: A Systematic Review and Meta-Analysis of Outcomes and Complications

Caroline Gutowski
Cooper Medical School

Sex-Based Differences in Postoperative Outcomes for Patients Undergoing Primary Arthroscopic Shoulder Surgery for Complete Rotator Cuff Repair: A Propensity Matched Analysis

Ronak Mahatme
University of Connecticut

Outcomes of Ambulatory Versus Outpatient Hospital-based Surgical Center Shoulder Arthroplasty: Complications, Readmission, and Charges

Paul Mastrokostas
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Complications Following Platelet Rich Plasma Injections in Elbow Epicondylitis: A Systematic Review

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Two-Stage Glenohumeral Joint Fusion Using Temporary Percutaneous Pinning: A Case Series

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Scapula to scapula tethering for treatment of scapulothoracic abnormal motion (STAM): A case series and technique

Argen Omurzakov
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Does Tranexamic Acid Improve Early Postoperative Shoulder Motion After Total Shoulder Arthroplasty?

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Antimicrobial Effects of Blue Light Therapy Against Cutibacterium Acnes: Optimal Dosing and Impact of Serial Treatments

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The Efficacy of Intra-Articular Corticosteroid Injections for Elbow Arthritis: A Retrospective Cohort Study

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Distal Clavicular Resection Worsens Outcomes in Rotator Cuff Repair: A National Database Study

Joshua Wiener
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SHOULDER & ELBOW 2

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The Effect of Tobacco Use on Survivorship and Clinical Outcomes of Primary Anatomic Total Shoulder Arthroplasty: A Single-Institution Study

Isabella Amador
University of Florida

Analyzing Risk Factors for Postoperative Anemia and Blood Transfusion in Total Shoulder Arthroplasty

Avianna Arapovic
Oakland University

Reverse Total Shoulder Arthroplasty with Latissimus Dorsi Transfer: A Retrospective Case Series

John Barnett
Ohio State University

Inlay Total Shoulder Arthroplasty in the Weight-Bearing Shoulder of Wheelchair-Bound Paraplegic Patients

Zachary Blashinsky
Florida International University

Predictors of Ability to Perform Internal Rotation-Dependent Activities of Daily Living and Favorable Satisfaction Despite Loss of Objective Internal Rotation After Reverse Shoulder Arthroplasty

Robert Cueto
University of Florida

Surgical Treatment of Displaced Proximal Humerus Fractures Is Associated With Decreased 1-Year Mortality in Patients Aged 65 and Older: A Retrospective Study of Medicare Patients

Akiro Duey
Icahn School of Medicine

Anatomic Versus Reverse Total Shoulder Arthroplasty for Primary Osteoarthritis with an Intact Rotator Cuff: A Mid-term Comparison of Early Top Performers

Kevin Hao
University of Florida

Anterior shoulder dysfunction and internal rotation deficiency after reverse versus anatomic shoulder arthroplasty

Ryan Lopez
University of Pennsylvania

Defining the Tipping Point for Revision Reverse Shoulder Arthroplasty?

Daniel O'Keefe
University of Florida

Insertion Sites of Latissimus Dorsi Tendon Transfer Performed During Reverse Shoulder Arthroplasty: A Systematic Review and Meta-Analysis

Taylor Rakauskas
Florida Atlantic University

Total Elbow Arthroplasty versus Open Reduction and Internal Fixation for Distal Humerus Fractures: A Propensity Score Matched Analysis of 30-Day Postoperative Complications

Luke Sandoval
Virginia Commonwealth University

Long-Term Outcomes Following Trabecular Metal Glenoids in Anatomic Total Shoulder Arthroplasty: A Follow-Up Study

Christoph Schrön
Icahn School of Medicine

Evaluating the Outcomes and Longevity of Total Shoulder Arthroplasty in Patients Under 60: A Mid-Term Analysis

Collin Todd
Ohio State University

The Arthroscopic Latarjet Procedure: Two Year Analysis of Learning Curve Proficiency and Complications

Jalen Warren
Ohio University

Clinical Outcomes of Anatomic and Reverse Total Shoulder Arthroplasty for Patients Over the Age of 75

Seth Wilson
Ohio State University

SPINE 1

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The Advantage of a Right-Side Anterior Retroperitoneal Approach for Primary Lumbar Spine Surgery

Julia Balboni
University of New England

Association between intraoperative T1 tilt and postoperative shoulder height in AIS patients

Claire Callan
Florida International University

The Impact of COVID-19 on Postoperative Outcomes Following Lumbar Fusion Surgery

Frank Epitropoulos
Ohio State University

Trends in Operative Timing for Acute Traumatic Central Cord Syndrome: National Inpatient Sample Analysis 2013-2019

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New York Medical College

Spondylolysis, spondylolisthesis, and associated variables in pediatric patients with osteogenesis imperfecta: Follow-up from a 2011 study

Garrett Gloeb
University of Nebraska

Using the Apple Watch to Monitor Real-Time, Continuous Physical Activity in Patients Undergoing Spine Surgery for Cervical Spondylosis.

Aneysis Gonzalez
Stanford University

Splenic Rupture Following Prone Lateral Discectomy And Arthrodesis: Case Report

Benjamin Hershfeld
New York Institute of Technology College of Osteopathic Medicine

Assessment of the Surgical Learning Curve for Operative Management of Adolescent Idiopathic Scoliosis by Procedure Type: A Systematic Review and Meta-Analysis

Nazanin Kermanshahi
Arizona College of Osteopathic Medicine

Number of Levels Fused: An Indicator of Hardware Failure Following the Minimally Invasive Antepsoas (MIS-ATP) Approach to Lumbosacral Fusions

Rehan Khan
Boston University

Role of Topical Tranexamic Acid on peri-operative blood loss and transfusion requirements in patients with Neuromuscular Scoliosis.

Oswaldo Conde Lorenzo
San Juan Bautista School of Medicine

Atlantoaxial Subluxation and Down Syndrome: A Cross-Sectional Analysis

Matthew Merckling
New York Medical College

Health Care Disparities in Complication and Mortality Rates Following Surgical Management of Cauda Equina Syndrome: A Machine Learning Analysis

Anusha Patil
University of Rochester

Cannabinoid Use Impact and Post-Lumbar Surgery Pain Management in Opioid Naïve Patients

Gerardo Rodriguez
Ponce Health Sciences University

Reliability and Minimal Detectable Change in Vertebral Pelvic Angles in Adult Spinal Deformity

Chad Simon
University of Illinois

Unilateral Biportal Endoscopy Discectomy improves surgical outcomes over Microscopic Discectomy for Lumbar Disc Herniation: A Meta-Analysis of 852 patients.

Diego Vazquez
University of Mexico

SPINE 2

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More Screws, More OR Time, Same Failure Rates: Enabling Technology Use in Proximal Fixation of Growing Spine Constructs

Daniel Gabriel
Harvard University

Prevalence of 6 lumbar segments in asymptomatic spines

Campbell Goldsmith
Chicago Medical School

Ten-year Risk of Recall of Novel Spine Devices

Abbey Jin
University of Missouri

Detection of spinal implants at airport security checkpoints: How do updated security measures affect patient experiences?

Sunny Korsapati
SUNY Upstate

The Impact of the SARS-CoV2 Pandemic on Post-Operative Outcomes Following Elective Spine Surgery: A Case-Control Study Performed in a Large SARS-CSUNYov2 Epicenter

Amy Lu
Cornell University

Preoperative Opioid Use and Anxiety Are Independent Risk Factors for Failure to Respond to Erector Spinae Plane Block In Minimally Invasive Transforaminal Lumbar Interbody Fusion

Eric Mai
Cornell University

Does BMI Play a Role in the Development of Lumbar Spinal Stenosis?

Arie Monas
SUNY Downstate

Lumbar Disc Arthroplasty Leads to Increased Subsequent Facet Injections Compared to Anterolateral Lumbar Interbody Fusions

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University of Cincinnati

Reoperation Rate Depends on Surgical Approach in Spondylolisthesis in Young Patients in a Large National Cohort

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A Rare Case of Extradural Migration of an Intrathecal Pain Pump Catheter in a Patient with Spinal Metastasis

Emma Pair
Boston University

Perioperative Optimization for Pediatric Neuromuscular Scoliosis Patients: A Multi-Disciplinary Approach

Bryce Pember
Northeast Ohio Medical University

Comparative Efficacy and Outcomes of Biportal Endoscopic versus Microscopic Techniques in Spine Surgery: An Updated Meta-Analysis

Viren Sehgal
City University of New York

Carbon Fiber Instrumentation for Spinal Tumors: A Systematic Review of The Literature and Case Series

Marcus Selles
Howard University

Adjacent Segment Disease Prevalence in Patients with Cervical Block Vertebrae: A Meta-Analytic Review

Bryan Ubanwa
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SPORTS MEDICINE 1

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Posterior Tibial Slope and Sagittal Correction for ACL Injury Risk Reduction: Anatomic Feasibility of Guided Growth Correction in Pediatric Patients

Amin Majed Alayleh
Chicago Medical School

Epidemiology and Sex-Specific Patterns of Basketball-Related Patellar Dislocations: A 20-Year Analysis of National Injury Data

Adriano Cuadros
Icahn School of Medicine

Manipulation Under Anesthesia after Hip Arthroscopy for Pericapsular Scarring: Patient Outcomes

Anchal Dhawan
University of Wisconsin

Impact of Anterior Cruciate Ligament Reconstruction Surgery on Player Efficiency Ratings and Salary in The National Basketball Association over the Past 20 Years

William Elnemer
Johns Hopkins University

A Narrative Review of Osteoporosis Drugs in the Treatment of Stress Fractures in Athletes

Mo Hadaya
Rowan-Virtua School of Osteopathic Medicine

Investigating the Association Between Hormonal Contraceptive Use, Menstruation, and the Occurrence of Musculoskeletal Injuries in Female Collegiate Athletes

Olivia Jackson
Dartmouth University

Comparison of Graft Type and Fixation Method in Anterior Cruciate Ligament Reconstruction: A Systemic Review and Meta-Analysis Based on Randomized Control Studies

Ryan Jones
University of Toledo

Flag Football Injuries Frequently Arise from Contact Mechanisms: A 10-year Analysis of National Injury Distribution and Trends

Auston Locke
Icahn School of Medicine

Assessing the Risk Factors for Surgical Site and Deep Wound Infections Following Hip Arthroscopy: A Nationwide Study of 75,577 Patients

Patrick Nian
SUNY Downstate

Does Collegiate Baseball Experience Reduce the Likelihood of Undergoing Ulnar Collateral Ligament Reconstruction Among Major League Baseball Pitchers?

David Painter
Brown University

Non-inferior short-term outcomes and low complications following post-market bridge-enhanced ACL repair (BEAR)

Aakash Shah
Case Western Reserve University

Decreasing Youth Wrestling Concussions and Musculoskeletal Injuries Presenting to United States Emergency Departments: A 10-Year Analysis

Eli Snyder
University of Hawaii

Perspectives from Orthopaedic Sports Medicine Fellowship Program Directors and Applicants: Virtual Interviews are Not Adequate Replacements for In-Person Interviews

Grace Tanguilig
Tulane University

Lower Extremity Injuries and Impact on Return to Play in Professional Soccer Players from 2018-2022

Marcela Trevino
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Sports-Related Concussions in Women's Lacrosse: A 15-year Analysis of National Injury Data

Avanish Yendluri
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SPORTS MEDICINE 2

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The New Age Gladiator: ACL Allograft Reconstruction Has Low Revision Rates in Patients in Patients Over 40.

Branden Brooks
University of California Davis

Sports-Related Concussions in High School and College Rugby Players: A 15-year Analysis of National Injury Trends

Rohit Chari
University of Maryland

Return to Sport and Return to Previous Level of Play Rates Do Not Differ Significantly Between Primary Arthrodesis and Open Reduction and Internal Fixation for Lisfranc Injuries: A Systematic Review and Meta-Analysis

Matthew Feldman
Tufts University

The Fastest Growing Sport in America: Injury Patterns in Pickleball between 2013 and 2022

Rishi Jain
Brown University

Hip Arthroscopy in Patients with Lower Back Pain Shows Delayed Clinical Improvement and Inferior Survivorship: A Propensity Matched Study at Minimum 4.5-Year Follow-Up

Omair Kazi
Rosalind Franklin University

Patients Undergoing Hip Arthroscopy with Either Periportal or Puncture Capsulotomy Demonstrate Favorable Outcomes: A Systematic Review

Trevan Klug
Yale University

Public Perception of Ulnar Collateral Ligament Reconstruction

Gabriel Lane
Meharry Medical College

Educational materials and Implications of Cutting Weight for Female and Male Wrestlers

Andrew Marten
Loyola University

Return to Play to Pre-Injury Level of Competitive Play after ACL Reconstruction in NCAA Division II and III Student-Athletes

Albert Mousad
Tufts University

The Statistical Fragility of Arthroscopic Partial Meniscectomy in the Management of Meniscal Tears: A Systematic Review of Randomized Controlled Trials

Katrina Nietsch
Icahn School of Medicine

Semiautomated Patellar Tilt Calculation Utilizing Artificial Intelligence on Knee Imaging Landmarks

Nancy Park
Yale University

Residual Patellar Tendon Defect Following ACL Reconstruction: Does it Correlate with Anterior Knee Symptoms?

Emily Pilc
Eastern Virginia Medical School

Bridging the Gap: A Systematic Review of Bridge Enhanced Anterior Cruciate Ligament Repair

Kevin Posner
Hackensack Meridian School of Medicine

Anterior Cruciate Ligament Hybrid Remnant Preservation Reconstruction Demonstrates Similar Outcomes as Traditional Reconstruction after 6 Months: A Randomized Control Trial

Brittaney Pratt
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Primary and Revision Hip Arthroscopy in Borderline Hip Dysplasia Show Comparable Functional Outcomes at Mid-Term Follow-Up

Michael Vogel
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SPORTS MEDICINE 3

MODERATED BY DR. ANTHONY JOHNSON & DR. KRISHNA VANGIPURAM-SURESH

How Do Prior Hip, Knee, and Ankle Injuries Affect Risk of Intra-seasonal Re-Injury in NBA Basketball? An Analysis of Ten-Years of Professional Basketball Player Data

Matthew Aceto
University of Central Florida

Unilateral Double Bucket Handle Meniscus Tear in a Patient with a Chronic Partial Anterior Cruciate Ligament Tear

David Dallas-Orr
Autonomous University of Guadalajara

Utilization of Point of Care Ultrasound for Anterior Cruciate Ligament Tear Diagnosis: A Systematic Review and Meta-Analysis

Stephen Fucaloro
Tufts University

Chondrolabral Junction Breakdown Predicts Inferior Functional Outcomes at Minimum Two Years after Hip Arthroscopy for Symptomatic Acetabular Labral Tears

Stephen Gillinov
Yale University

Outcomes of Secondary Osteochondral Allograft Transplantation After Failed Index Cartilage Surgery of the Knee: A Systematic Review and Meta-Analysis

Varun Gopinath
St. Louis University

A Retrospective Observational Study of Ice-Skating Fractures in the United States from 2013-2022 Using the NEISS Database

Saumya Kapoor
University of Central Florida

Auditing the Representation of Female Athletes in Sports Medicine Research: Rotator Cuff Repair

Peter Klug
University of Kansas

"Connecting the Dots: Exploring the Interplay of Calcium, Delayed Onset Muscle Soreness, and the Myofascial System"

Charles J. Middleton
Rowan-Virtua School of Osteopathic Medicine

The Clinical Significance of Utilizing PASS Thresholds when Administering IKDC and KOOS Patient-Reported Outcomes Post Anterior Cruciate Ligament Reconstruction

Julian Mobley
University of North Carolina

Implantation of the MLB Pitch Clock and its effect on Pitcher Injuries.

Nikhil Nair
Case Western Reserve University

Suture Tape Augmentation of Posterior Cruciate Ligament Reconstruction Shows Improved Biomechanical Stability with Equivalent Complication Rates: A Scoping Review

Cooper Root
University of Kansas

Distraction Related Complications after Hip Arthroscopy: A Systematic Review of Distraction Techniques

Anisha Tyagi
Rutgers University

Review of Rehabilitation Protocols for Ulnar Collateral Ligament (UCL) Reconstruction in Throwing Athletes

Joseph Vyskocil
Central Michigan University

Utilization of Ultrasound for Preoperative Autograft Assessment in Anterior Cruciate Ligament Reconstruction: A Systematic Review and Meta-Analysis

Mark Ward
Tufts University

Epidemiology of Pickleball Injuries Presenting to US Emergency Departments: A 10-year Analysis of Mechanisms and Trends

Jennifer Yu
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TRAUMA 1

MODERATED BY DR. LISA CANNADA & DR. RACHEL RANSON

Increased Efficiency with Use of a Mini C Arm in Emergency Department Closed Reductions

Mara Bajic
Medical College of Wisconsin

Impact of Cannabinoid Use on Post-Operative Outcomes for THA and ORIF After Femoral Neck Fractures

Alexander Fischbach
Ohio University

Perioperative and Postoperative Outcomes in Single-Surgeon versus Dual-Surgeon Acetabular Fracture Cases

Austin Gartner
University of Kansas

Poorly Controlled Diabetic Hip Fracture Patients with Hemoglobin A1c >8.0 Should Not Undergo Arthroplasty Due to High Short and Long-term Mortality Risk

Christopher Herbosa
Washington University

Return to Work Following Treatment of Humeral Shaft Fractures: Comparing Operative and Non-operative Management in a Manual Laborer Population

Norvin Hernandez
Baylor University

Low Rate of Teriparatide Supplementation for the Treatment of Osteoporotic Pelvic Fractures in Elderly Females

Mary Grace Kelley
New York Medical College

Time to Surgical Intervention for Ankle Fractures as a Factor in Perioperative and Prolonged Opioid Use

Samira Perez
West Virginia School of Osteopathic Medicine

Patients Receiving Regional Anesthesia for Intertrochanteric Fractures May Have a Lower Risk of Complications and Mortality: A Retrospective Cohort Study

Samer Mahmoud
SUNY Downstate

Characterizing the Antimicrobial Profile of Silver Carboxylate in Methicillin-Resistant *S. aureus* MW2/VRS1 – Derived Persister Cells

Josue Marquez
Brown University

Postoperative Outcomes Following Pelvic Fracture Among Patients Suffering from Alcohol Use Disorder: A Large Insurance Database Study

Seema Patel
University of Connecticut

Retention of subchondral rafting wires reduces tibial plateau fracture subsidence

Daniel Rusu
Boston University

CT Scanner Patient Table Curvature May Conceal Occult Posterior Pelvic Ring Injury in LC3 and APC2 Patterns

Vivek Satish
University of Southern California

Payer Status and Racial Disparities in Time to Surgery for Emergent Orthopaedic Procedures

Jessica Schmerler
Johns Hopkins University

Short-Term Complication Rates of Open Reduction and Plate Fixation and Intramedullary Nailing in the Treatment of Humeral Shaft Fractures: A Propensity Score Matched Analysis

Sarah Whitaker
Virginia Commonwealth University

TRAUMA 2

MODERATED BY DR. BRIANNA FRAM & DR. OLIVIA RICE

Optimizing Nutrition Prior to Surgery: Implementation in Orthopedic Trauma

Oluwatoyosi Akande
University of Connecticut

The Impact of the COVID-19 Pandemic Lockdown on the Delayed Presentation of Trauma Patients in a Limited Resource Setting: A Retrospective Analysis

Gabriel Alemayehu
Washington State University

Trauma Patients Who Underwent Vascular and Orthopedic Surgery: What are the Possible Red Flags?

Anne Boeckmann
Texas Christian University

Increased Return to the Operating Room Following the Treatment of Associated versus Elementary Acetabular Fractures: A Matched Analysis of Short-Term Complications

Sarah Cole
Virginia Commonwealth University

Utilization of a Dermal Substitute (Hyalomatrix) in Pediatric Upper Extremity Procedures

Taylor Cunningham
University of South Carolina

Geriatric Hip Fractures: Do Vitamin D Levels Matter?

Ashton Davis
University of Texas Medical Branch

Epidemiology and Trends of Upper Extremity Rugby Injuries Among High School and College-Age Players: A 15-year Analysis of National Injury Data

Zachary Gallate
Icahn School of Medicine

Metabolic Bone Disease is Common in Fracture Patients Presenting After High Energy Trauma

Garrett Gordon
University of Cincinnati

Variations in Greater Trochanter Height as a Relation to Patient Demographics

Jordan Haber
Ohio State University

Clinical Considerations with Magnetic Resonance Imaging in the Presence of a Knee-spanning External Fixator

Aaron Marcel
Quinnipiac University

Is pelvic arterial angioembolization associated with an increased rate of post-operative infection in patients with an operatively treated pelvic fracture?

David May
Tulane University

Do patients with pre-existing psychiatric diagnoses experience increased rates of post-operative complications following pelvic fracture surgery?

Phillip McKegg
Midwestern University

The Characterization of Risk Factors Associated with Complications Following Intertrochanteric Hip Fractures Surgery

Andrew Pierce
Herbert Wertheim College of Medicine

Complications of collared press-fit femoral stems versus cemented stems for femoral neck fractures

Raisa Rauf
Boston University

Quality of Initial Reduction of Tibial Plafond Fractures as Predictors of Trauma Injury Outcome

Jennie-Ann Wilson
Morehouse School of Medicine

END OF YEAR RECAP



DEIA

- Creation of the DEIA Committee
- Organization of our Inaugural DEIA Summit



Education

- Organization of:
 - Inaugural Sub-I Summit
 - Inaugural Interview Prep Panel
- Creation of OrthoNavigator



Mentorship + Society

- Coordination of 2nd year of the MSOS Mentorship Program
- Growth to 5000+ Members
- Creation of Away Rotation Scholarships
- Attainment of the AAOS IDEA Grant

HAVE YOU COMPLETED OUR SYMPOSIUM SURVEY?



SAVE THE DATE
April 20, 2025

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