

Katherine E. Buesser, MD

EDUCATION

Yale School of Medicine
M.D.

New Haven, CT
2014-2018

Harvard University
Bachelor of Arts, Major in Organismic and Evolutionary Biology

Cambridge, MA
2007-2011

POST-DOCTORAL TRAINING

Washington University/Barnes-Jewish Hospital/St. Louis Children's Hospital
Residency, Orthopaedic Surgery

St. Louis, MO
2018-2023

Washington University/Barnes-Jewish Hospital
Fellowship, Orthopaedic Trauma

St. Louis, MO
2023-2024

PROFESSIONAL SOCIETIES

- Alpha Omega Alpha Honor Medical Society at Washington University, 2022
- Orthopaedic Trauma Association, Candidate Member, 2022

AWARDS & DISTINCTIONS

- Washington University Orthopaedic Administrative Chief Resident, 2022-2023
- Yale School of Medicine Summer Research Grant, 2018
- John Dooley Award: Recognizes the player that best combines sportsmanship, devotion, and enthusiasm in the Harvard Women's Hockey program, 2011
- Most Valuable Player, Harvard University Women's Hockey, 2010

PUBLICATIONS

1. **Katherine E Buesser, BA**, John M Leventhal, MD, Julie R Gaither, PhD, MPH, RN, Victoria Tate, MD, Daniel R Cooperman, MD, Rebecca L Moles, MD, Cicero T Silva, MD, Lauren J Ehrlich, MD, Melinda S Sharkey, MD. Inter-rater Reliability of Physical Abuse Determinations in Young Children with Fractures. Accepted by *Child Abuse & Neglect: The International Journal*: August 1, 2017
2. Melinda S. Sharkey, MD, **Katherine E. Buesser, BA**, Julie R. Gaither, PhD, MPH, RN, Victoria Tate, MD, Daniel R. Cooperman, MD, Rebecca L. Moles, MD, Cicero T. Silva, MD, Lauren J. Ehrlich, MD, John M. Leventhal, MD. Abusive Fracture Incidence over Three Decades at a Level 1 Pediatric Trauma Center. Accepted by *Child Abuse & Neglect: The International Journal*: November 13, 2017
3. Obey MR, **Buesser KE**, Hofer EL, Miller AN. Effect of Percutaneous Posterior Pelvic Ring Reduction and Fixation on Patient-Reported Outcomes. *J Orthop Trauma*. 2022 Feb 1;36(Suppl 2):S17-S22.
4. **Buesser KE**, Miller AN. Combined Irreducible Femoral Head Fracture-Dislocation and Ipsilateral Segmental Femur Fracture: A Case Report. *JBJS Case Connector*. Accepted April 2024

PUBLICATIONS CURRENTLY IN REVIEW

1. Buesser, KE, Chen L, Obey MR, Hong Z, Hofer EL, Miller AN. **Post-Operative Axial Reduction Correlates with Improving Patient-Reported Outcomes in Long-Term Percutaneous Pelvic Fixation Follow-Up**. This is a supplement to the 2022 Obey et al paper above. We brought patients back for imaging, physical exam, and long-term (>2yrs) PROMIS scores. Displacement on final films was compared to pre- and post-operative XRs/CTs. We again looked at displacement and its effect on PROMIS scores in the physical function, pain interference, anxiety, and depression domains. Status: Resubmitted to JOT on 10/26/23. Study conducted under the mentorship of Dr. Anna N Miller.

SCIENTIFIC PRESENTATIONS

1. **Katherine E. Buesser, BA**, Julie R. Gaither, PhD, MPH, RN, Daniel R. Cooperman, MD, Rebecca L. Moles, MD, John M. Leventhal, MD, Cicero T. Silva, MD, Lauren J. Ehrlich, MD, Melinda S. Sharkey, MD. Reliability of the Likelihood of Abuse in Young Children with Fractures. Podium at the Pediatric Academic Society Meeting, Baltimore, MD. May 1, 2019
2. **Katherine E Buesser, BA**, John M Leventhal, MD, Julie R Gaither, PhD, MPH, RN, Victoria Tate, MD, Daniel R Cooperman, MD, Rebecca L Moles, MD, Cicero T Silva, MD, Lauren J Ehrlich, MD, Melinda S Sharkey, MD. Inter-rater Reliability of Physical Abuse Determinations in Young Children with Fractures. Presented at the European Paediatric Orthopaedic Society and Pediatric Orthopedic Society of North America Combined Annual Meeting. May 3-6, 2017
3. Cordelia Carter, MD, **Katherine Buesser, BA**, Felicity Fishman, MD, Elizabeth Gardner, MD, Carrie Swigart, MD, Melinda Sharkey, MD. Inclusion of Females and Sex-specific Data Analysis in Orthopaedic Research: Evaluation of Publications from *The Journal of Bone and Joint Surgery* from 2009 to 2013. Presented at the 25th Anniversary Congress on Women's Health. April 28-30, 2017
4. Tamta Chkhikvadze, MD, **Katherine Buesser, BA**, Nishant Sharma, MD, Ben Schanker, MD, David J. Lobo, MD. Hummingbird in Progressive Supranuclear Palsy. Presented at the American College of Physicians, Connecticut Chapter. October 28, 2016

5. Timothy Miller, MD, **Katherine Buesser, BA**, John Y Kwon, MD, George H Theodore, MD, A Holly Johnson, MD. Complication Rate of Achilles Tendon Repairs. Presented at the International Federation of Foot and Ankle Society and American Orthopaedic Foot and Ankle Society Combined Meeting. September 19-23, 2014

RESEARCH IN PROGRESS

1. Buesser KE, McAndrew CM, Berkes MB. **Biological Age as a Predictor of Mortality after Low Energy Hip Fracture.** The 1-year mortality rate after a lower energy hip fracture ranges from 20-30%. Age has been significantly associated with mortality risk in the hip fracture. The concept of biological age is an area of focus in gerontology as a way to capture inter-individual differences in timing of disease onset, functional decline, and death. While biomarker studies have been applied to the orthopaedic trauma population, none have used biological age that is calculated from nine biomarkers and chronological age using a previously developed formula. We aimed to evaluate the utility of calculated biological age as a predictor of 1-year mortality after low energy hip fracture in a prospective cohort. Status: Enrollment underway, repeat power study to be performed for enrollment goal. Study conducted under the mentorship of Dr. Christopher M McAndrew.

QUALITY IMPROVEMENT PROJECTS

Center for Outpatient Health (underinsured resident clinic) - Working with RN staff to improve access to a physical therapist in clinic (patients do not have outpatient access), update the DME stock to match patient injury needs, provided post-operative trauma protocols to streamline XR orders and help triage RNs answer patient questions, and organized a casting/splinting workshop with MA/RN team to improve workflow in clinic.

OrthoList to EPIC Transition - Worked with a group of attendings/residents to transition from a web-based patient list to EPIC to help streamline consult, rounding, and pre- and post-operative workflows. Personally created all note/handoff templates and relevant workflows to be used across the department.

Orthopaedic Floor/ED Supply Improvement – Worked with floor RN managers to have available all supplies that are required for post-operative orthopaedic care and also helped decrease unnecessary items. Currently working with ED to create orthopaedic wardrobe (versus small ortho carts) given the quantity of supplies used by our team to help decrease burden on re-stocking team and improve consult efficiency by having all necessary supplies close to trauma bays.

LEADERSHIP EXPERIENCE

Orthopaedic Trauma Call Shadowing Program - Resident Liaison and Organizer, WashU	2021
Teaching Assistant and Curriculum Developer - Anatomy Teaching Program, Yale SOM	2014-2016
Teaching Assistant - Yale School of Nursing Anatomy Course, Yale SOM	2015-2016
Coordinator/Trip Leader - Medical Outdoor Orientation Program, Yale SOM	2015-2016
Leader - Orthopaedic Interest Group, Yale SOM	2014
Elite Ice Hockey Player -	
○ US Women's National Team: One of 25 women selected for the Sochi Olympic Residency program	2013-2014
○ Professional Hockey Player: Boston Blades - 3 professional seasons, Clarkson Cup	

- Champion and All-Star Team 2013, Clarkson Cup Tournament Leading Scorer 2014
- Connecticut Whale – 1 season, Isobel Cup Playoffs 2012-2016
- Harvard Hockey: Captain, 4 year letter-winner, MVP/All-Ivy/All-ECAC Team 2009-10, Frozen Four Tournament 2008 2007-2011

COURSES

- AO Pelvis Course 2024
- OTA Fellows Course 2024
- AO Trauma Fellow Cadaver Course 2024
- Stryker Pelvis Course 2024
- Zimmer Pelvis Course 2023
- Baltimore Limb Deformity Course 2022
- AO Advanced Principles Course 2022
- AO Basic Principles Course 2019
- AO Pelvis and Acetabulum Course (Online) 2020
- AO Osteotomy Course (Online) 2020

SERVICE

- Volunteer - Comfort Companions 2014-2018
- Volunteer - Neighborhood Health Project 2014-2018
- Volunteer - Perry Initiative 2014-2016
- Manager/Player, Team Celine: Raised over \$25,000 for the Susan G. Komen for the Cure Foundation and the National Breast Cancer Foundation Summer 2008-2012

EMPLOYMENT

- Medical Assistant - Brigham and Women's Hospital Orthopedics Department 2011-2013

HOBBIES & INTERESTS

Ice hockey, cribbage, electronic music, hiking/kayaking