

Alex Mierke, M.D.

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Florida Orthopaedic Institute

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Educational Background

University

University of California
Davis, CA
2013

Medical School

University of Central Florida College of
Medicine
Orlando, FL
2017

Residency

Loma Linda University Medical Center
Loma Linda, CA
2022

Fellowship

Florida Orthopaedic Institute
Temple Terrace, FL
2023

Peer Reviewed Publications

- Ramos O, Mierke AE, Eastin M, Morrison MJ, Wongworawat DM, Danisa OA. COVID-19 Pandemic and the Implications for Orthopaedic and Neurosurgery Residents and Fellows on Spine Rotations. *North American Spine Society Journal (NASSJ)*. 2020 May;1:100006 PMID: PMC7229966.
- Zaidi, QH, Mierke AE, Cheng, WK Danisa OA. New Developments in the Utility of Hounsfield Units in Estimating Bone Quality Prior to Spinal Instrumentation. *Spine* July/August 2019.
- Mierke AE, Ramos O, Chung JK, Cheng JK, Danisa OA. The Impact of Preoperative Opioid Use in Spine Surgery Patients. *Spine*. Accepted for publication July 2020.
- Ramos O, Mierke AE, Cheng JK, Danisa OA. Stem Cell Therapies in the Treatment of Intervertebral Disc Degeneration and Low Back Pain. *Spine*. Accepted for publication March 2020.
- Mierke AE, Ramos O, Chung JH, Cheng WK, Danisa OA. Preoperative Opioid Use is Associated with Increased Readmission and Reoperation Rates Following Lumbar Decompression, Instrumentation, and Fusion. Submitted to *Spine*, currently under review.
- Mierke AE, Shields TG, Williams NL, Zuckerman LM, Compression Generated in Transverse Diaphyseal Fracture Reduction of the Femur Using Compression Plating Versus an Electromagnetic Intramedullary Nail Utilizing a Femoral Sawbones Model. Submitted to *Journal of Orthopaedic Research*, currently under review.
- Limb Lengthening and Reconstruction Society, Boston, Massachusetts, July 19-20, 2019. Mierke AE, Shields TG, Williams NL, Zuckerman LM, Compression Generated in Transverse Diaphyseal Fracture Reduction of the Femur Using Compression. Plating Versus an Electromagnetic Intramedullary Nail Utilizing a Femoral. Sawbones Model.
- North American Spine Society, San Diego, California, October 7-10, 2020. Mierke AE, Ramos O, Chung JH, Cheng WK, Danisa OA. Preoperative Opioid Use is Associated with Increased Readmission and Reoperation Rates Following Lumbar Decompression, Instrumentation, and Fusion.
- S. Craig Morris, Alex Mierke, Brendon Bauer, Omar Ramos, Lee Zuckerman. When should limb salvage surgery be considered during a medical mission? 2019 Connective Tissue Oncology Society Annual Meeting. Tokyo, Japan. November 13-16, 2019.
- Alex Mierke, Omar Ramos, S. Craig Morris, Brendon Bauer, Lee Zuckerman. Immediate, all internal distraction osteogenesis and bone transport after tumor resection. 2019 Connective Tissue Oncology Society Annual Meeting. Tokyo, Japan. November 13-16, 2019.
- Omar Ramos, Alex Mierke, Brendon Bauer, S. Craig Morris, Lee Zuckerman. Treatment of osteofibrous dysplasia in a 13-month old child with curettage and placement of allograft bone. 2019 Connective Tissue Oncology Society Annual Meeting. Tokyo, Japan. November 13-16, 2019.
- Omar Ramos, Alex Mierke, Brendon Bauer, S. Craig Morris, Lee Zuckerman. Development of multifocal extra-abdominal desmoid fibromatosis after surgical resection. 2019 Connective Tissue Oncology Society Annual Meeting. Tokyo, Japan. November 13-16, 2019.
- Alex Mierke, S. Craig Morris, Scott Epperly, Deon Kidd, Daniel Patton. Hallux Valgus: An anatomic study of a modified, percutaneous lapidus approach. 2018 AOFAS Annual Meeting. Boston, MA. July 11-14, 2018
- Alex Mierke, Zahrawi Faissal Retrospective Evaluation of the Minimally Invasive and Open Transforaminal Lumbar Interbody Fusion Procedures with Regards to Surgical Endpoints and Clinical Outcomes. University of Central Florida College of Medicine, Orlando, Florida, March 2015

Honors and Awards

- University of Central Florida College of Medicine
- UCF COM Institutional Scholarship 2013-2017 four-year, partial tuition scholarship
- Clinical Rotation Honors Internal Medicine, Pediatrics, Neurology, Psychiatry, Surgery
- Preclinical Block Honors Anatomy: form and function, Hematology/Oncology, Renal/GI, Musculoskeletal, Neurology
- University of California, Davis Dean's List (x 7). Awarded to students with a GPA in the top 16% of students taking at least 12 units.

Professional Memberships

- American Academy of Orthopedic Surgeons, 2017-present
- American Medical Student Association, 2013 – 2017
- American Academy of Neurology, 2013 – 2017

Lectures Given

- Fractures of the Hand, Loma Linda University Department of Orthopaedic Surgery Grand Rounds, September 25, 2019
- Compressive Neuropathies of the Upper Extremity, Loma Linda University Department of Orthopaedic Surgery Grand Rounds, August 21, 2019