
M. Craig McMains

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Work Address

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5889 Hollythorn Pl
Carmel, IN 46033
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Work History

Orthopaedics Indianapolis, Inc (OrthoIndy) 11/22 - pres
Spine Surgery, Department of Orthopaedics
Indianapolis 46278

Community Physicians Network 08/17- 10/22
Spine Surgery, Department of Orthopaedics
CHE and CHN
Indianapolis 46250

- Minimally Invasive and Complex Spine
- Spine Council Co-Chair
- Indiana Surgery Center Hamilton – President
- Orthopaedic Marketing Workgroup
- Marion School of Medicine Instructor

Education

Stanford University Spine Fellowship 08/16 - 07/17
Orthopaedic Surgery, Division of Spine
Redwood City 94025

Ohio State University Orthopaedic Residency 07/11 - 06/16
Wexner Medical Center
Columbus, OH 43210

- ABOS Board Certified

Indiana University School of Medicine 08/07-06/11
Indiana University – Purdue of Indianapolis
Indianapolis, IN 46202

- M.D.

Purdue University 08/03-05/07
School of Science
West Lafayette, IN 47907

- B.S. in Neurobiology and Physiology

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Research Experience

Safdar Khan M.D., Chief of Service 2014-2106
Division of Spine Surgery

Previous Research Includes:

- Quality of Care and Patient Payer Characteristics in Spinal Fusion
- Pedicle Subtraction Osteotomy
- Laminoplasty Technique

Elizabeth Yu M.D. 2014-2016
Division of Spine Surgery

Previous Research Includes:

- Biomechanical Analysis of XLIF in Adjacent Segment Disease
- Analysis of Spine Questions in the OITE

Hisham Awan M.D. 2014-2016
Division of Hand Surgery

Previous Research Includes:

- Analysis of Hand Questions in the OITE

David Flanigan M.D. 2014-2016
Division of Sports Medicine

Previous Research Includes:

- Tibial Tubercle Avulsion and ACL Injury: A Case Report

Andrew Glassman M.D., Chief of Service 2013-2016
Division of Adult Reconstructive Surgery

Previous Research Includes:

- Epoch THA Outcomes

Janos P. Ertl M.D., Chief of Service 2009-2011
Orthopaedic Surgery Wishard Health Services, IUSM

Previous Research Includes:

- Intramedullary Pressures in Amputation

David A. Sanders, Ph.D. Associate Professor 2007
Markey Center for Structural Biology, Purdue University

Previous Research Includes:

- Disulfide Bonds in the Ebola Glycoprotein

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Residency Honors

Orthopaedic Resident Research Award
Outstanding Junior Resident

2015
2012 – 2013

Publications

McMains, M. Craig, et al. "A biomechanical analysis of lateral interbody construct and supplemental fixation in adjacent-segment disease of the lumbar spine." *World Neurosurgery* 128 (2019): e694-e699.

Denduluri, S. K., Koltsov, J. C., Ziino, C., Segovia, N., McMains, C., Falakassa, J., ... & Hu, S. S. (2021). Rod-Screw Constructs Composed of Dissimilar Metals Do Not Affect Complication Rates in Posterior Fusion Surgery Performed for Adult Spinal Deformity. *Clinical Spine Surgery*, 34(2), E121-E125.

Ziino, C., Guzman, R. A., Koltsov, J., Montgomery, B. K., McMains, C., & Alamin, T. (2020). Local anesthetic with sedation is a viable alternative to general anesthesia for lumbar spinal decompressions: A retrospective cohort feasibility study and short-term analysis of outcomes. *Current Orthopaedic Practice*, 31(3), 252-257.

Patel R, Khan SN, McMains MC, Gupta M. "Technique for Lumbar Pedicle Subtraction Osteotomy for Sagittal Plane Deformity in Revision". *Am J Orthop* (Belle Mead NJ). 2015 Jun;44(6):261-4. PMID: 26046995

McMains, MC, et al. "Simultaneous rupture of patella tendon with tibial tubercle avulsion fracture, anterior cruciate ligament avulsion fracture of the tibial spine in a skeletally mature patient: A case report." *Sport Exerc Med Open J* 1.1 (2015): 22-26.

McMains, MC, and SN Khan. "Treatment of Spinal Conditions in Young Adults." *Operative Techniques in Orthopaedics* 25.3 (2015): 225-228.

Martin A, Shacklett A, McMains MC, Awan H. " Hand Surgery Questions on the Orthopaedic In-Training Examination: Analysis of Content and Reference." –submitted for publication

Book Chapters

McMains, M. Craig and Ivan Cheng. "Thoracic and Lumbar Degenerative Disorders: State of the Art." *Bridwell and Dewald's Textbook of Spinal Surgery* (2020): Ch. 41

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Wood, Kirkham, and Craig McMains. "Mechanical Low Back Pain: Nonoperative Management." *Evidence-Based Orthopedics* (2021): 671-675.

Presentations

McMains, Craig, et al. "COMBINING TITANIUM SCREWS WITH STAINLESS STEEL RODS FOR ADULT SPINAL DEFORMITY DOES NOT RESULT IN INCREASED IMPLANT RELATED COMPLICATIONS: GP223." *Spine Journal Meeting Abstracts*. LWW, 2017.

McMains, MC et al. "The Impact of Payer Characteristics Upon Quality of Care for Patients Undergoing Lumbar Spinal Fusion." -Mallory-Coleman Research Day. June 5, 2015

McMains, MC et al. "The Impact of Payer Characteristics Upon Quality of Care for Patients Undergoing Lumbar Spinal Fusion." -18th Annual OREF Resident Research Symposium; Northeast Region. April 8, 2016.

Ertl JP, Shively KD, McMains MC, Hood M. "Amputation: Intramedullary Pressure Measurements". - Retrospective study evaluating intramedullary pressure measurements during trans-tibial amputations. Scheduled for a symposium presentation at the OTA

Martin A, Shacklett A, McMains MC, Awan H. " Hand Surgery Questions on the Orthopaedic In-Training Examination: Analysis of Content and Reference." -scheduled for presentation at the Mallory-Coleman Research Day. June 3, 2016