

MID-AMERICA ORTHOPAEDIC ASSOCIATION Poster Presentations – 2019 Annual Meeting

- Posters will be located in the Coastal Foyer of the Hilton Sandestin Beach Golf Resort in Miramar Beach, FL
- Poster presenters will be available for discussion and questions at the below times. CME credit is given for poster viewing at these times only.
 - Posters 1-50 Thursday, April 11, 2019, 10:30-11:00 a.m.
 - Posters 51-100 Friday, April 12, 2019, 10:30-11:00 a.m.

Hand (5 posters)

1. Injury Characteristics and Radiologic Outcomes of Carpometacarpal Fracture-Dislocations Treated Surgically
*Raymond G. Steinmetz, M.D. Oklahoma City, OK
Evan D. Corning, M.D. Oklahoma City, OK
Trent Hulse, M.D. Oklahoma City, OK
Filip Holy, B.S. Oklahoma City, OK
Thomas P. Lehman, M.D. Oklahoma City, OK
2. Trapezial Excision Suture Suspensionplasty for Thumb Carpometacarpal Osteoarthritis: A Small Cohort Prospective Review
Thomas Nunn Evansville, IN
Jenna Thacker, M.S. Evansville, IN
*Paul E. Perry, M.D. Evansville, IN
3. Arthroscopic Repair of Longitudinal Split Tears of the Ulnotriquetral Ligament: A Series of 228 Wrists
*Nicholas F. Munaretto, M.D. Rochester, MN
Nicholas J. Clark, M.D. Rochester, MN
David Ivanov, B.S. Rochester, MN
Richard A. Berger, M.D. Rochester, MN
Sanjeev Kakar, M.D. Rochester, MN
4. Risk Factors for Revision After Finger Amputations
*Krystin A. Hidden, M.D. Columbus, OH
Nikhil Adapa, B.S. Columbus, OH
Kanu S. Goyal, M.D. Columbus, OH
5. Distance of the First Motor Branch of the Ulnar Nerve to the Flexor Carpi Ulnaris from the Medial Epicondyle
Anna M. Freemyer-Brown, D.O. Olympia Fields, IL
Sandra Inouye, Ph.D. Downers Grove, IL
William K. Payne, M.D. Olympia Fields, IL
*Mary E. Lundgren, D.O. Olympia Fields, IL

Sports (10 posters)

6. Variability in Baseball Throwing Metrics During a Structured Long Toss Program: Does One Size Fit All?
*Nels D. Leafblad, M.D. Rochester, MN
Dirk Larson, M.D. Rochester, MN
Glen Flesig, Ph.D. Birmingham, AL
Stan Conte Santa Clara, CA
Stephen A. Fealy, M.D. New York, NY
Joshua S. Dines, M.D. New York, NY
John D'Angelo, B.S. New York, NY
Christopher L. Camp, M.D. Rochester, MN

7. Comparable Clinical Outcomes Between Knotless and Knot-Tying Anchors for Arthroscopic Repair of Recurrent Anterior Glenohumeral Instability at Mean 4.8 Year Follow-Up
Isabella T. Wu, B.S. Rochester, MN
Vishal S. Desai, B.S. Rochester, MN
Devin R. Mangold, M.D. Rochester, MN
*Christopher D. Bernard, B.S. Rochester, MN
Christopher L. Camp, M.D. Rochester, MN
Diane L. Dahm, M.D. Rochester, MN
Aaron J. Krych, M.D. Rochester, MN

8. Secondary Meniscus Tears in Patients with Anterior Cruciate Ligament Injury: Relationship Between Operative Management, Osteoarthritis, and Arthroplasty at 18 Years Mean Follow-Up
Michella H. Hagmeijer, M.D. Rochester, MN
*Mario Hevesi, M.D. Rochester, MN
Vishal S. Desai, B.S. Rochester, MN
Thomas L. Sanders, M.D. Rochester, MN
Bruce A. Levy, M.D. Rochester, MN
Michael J. Stuart, M.D. Rochester, MN
Daniel B. F. Saris, M.D. Rochester, MN
Aaron J. Krych, M.D. Rochester, MN

9. Medial Patellofemoral Ligament (MPFL) Reconstruction in Skeletally Immature Patients: A Systematic Review
*Alan G. Shamrock, M.D. Iowa City, IA
Molly A. Day, M.D. Iowa City, IA
Robert W. Westermann, M.D. Iowa City, IA

10. Is Hip Arthroscopy an Option for Pediatric Septic Arthritis?
*Alan G. Shamrock, M.D. Iowa City, IA
Craig C. Akoh, M.D. Iowa City, IA
Christopher N. Carender, M.D. Iowa City, IA
Robert W. Westermann, M.D. Iowa City, IA

11. Epidemiology of Hand and Wrist Injuries in National Collegiate Athletic Association Football Players from 2009 to 2014: Incidence and Injury Patterns
 - *Douglas W. Bartels, M.D. Rochester, MN
 - Mario Hevesi, M.D. Rochester, MN
 - Cody C. Wyles, M.D. Rochester, MN
 - Jeffrey A. Macalena, M.D. Minneapolis, MN
 - Sanjeev Kakar, M.D. Rochester, MN
 - Aaron J. Krych, M.D. Rochester, MN

12. A Systematic Review of Clinical Outcomes and Re-Operation: Meniscus Repair in a Pediatric and Adolescent Population
 - *Adam J. Tagliero, M.D. Rochester, MN
 - Vishal S. Desai, B.S. Rochester, MN
 - Nicholas I. Kennedy, M.D. Rochester, MN
 - Christopher D. Bernard, M.D. Rochester, MN
 - Timothy E. Hewett, Ph.D. Rochester, MN
 - Christopher L. Camp, M.D. Rochester, MN
 - Daniel B. F. Saris, M.D. Rochester, MN
 - Aaron J. Krych, M.D. Rochester, MN

13. MRI Lag Times for Knee Pathology Increased After Implementation of the Affordable Care Act
 - *Andrew M. Holt, M.D. Memphis, TN
 - Parker P. Duncan, M.D. Memphis, TN
 - Richard A. Smith, Ph.D. Memphis, TN
 - Tyler J. Brolin, M.D. Memphis, TN
 - Thomas W. Throckmorton, M.D. Memphis, TN
 - Frederick M. Azar, M.D. Memphis, TN

14. Use of Bovie to Facilitate Needle Passage Through Bone
 - *Zachary Littlefield, B.S. Birmingham, AL
 - Eva Lehtonen, B.S. Birmingham, AL
 - Martim Pinto, M.D. Birmingham, AL
 - Robert Stibolt, B.S. Birmingham, AL
 - Amit Momaya, M.D. Birmingham, AL
 - Eugene W. Brabston, M.D. Birmingham, AL
 - Kevin Baez, B.S. Birmingham, AL
 - Gerald McGwin, Ph.D., M.S. Birmingham, AL
 - Brent A. Ponce, M.D. Birmingham, AL

15. Are Baseball Statistics an Appropriate Tool for Assessing Return to Play in Injured Players: An Analysis of Statistically Variability in Health Players Using a Machine Learning Approach
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|------------------------------|---------------|
| *Ayoosh Pareek, M.D. | Rochester, MN |
| Chad W. Parkes, M.D. | Rochester, MN |
| Alexey A. Leontovich, Ph.D. | Rochester, MN |
| Christopher D. Bernard, B.S. | Rochester, MN |
| Aaron J. Krych, M.D. | Rochester, MN |
| Diane L. Dahm, M.D. | Rochester, MN |
| Christopher L. Camp, M.D. | Rochester, MN |

Trauma (6 posters)

16. Outcomes Impact of Postoperative Cast Immobilization Following Diaphyseal Forearm Fracture Fixation
- | | |
|-------------------------------|------------------|
| *Drew B. Krumm, B.S. | Grand Rapids, MI |
| Kristopher Danielson, D.O. | Wyoming, MI |
| Caitlyn B. Cookenmaster, B.S. | Grand Rapids, MI |
| Tyler J. Beute, B.S. | Grand Rapids, MI |
| Michael Rahl, B.S. | Grand Rapids, MI |
| Michelle A. Padley, M.S. | Grand Rapids, MI |
| Lindsey A. Behrend, B.S. | Grand Rapids, MI |
| Terrence J. Endres, M.D. | Grand Rapids, MI |
| Clifford B. Jones, M.D. | Phoenix, AZ |
17. Racial and Social Disparities in Operative Fixation of Calcaneal Fractures
- | | |
|----------------------------------|-----------------|
| Boris A. Zelle, M.D. | San Antonio, TX |
| Nicholas A. Morton-Gonzaba, B.S. | San Antonio, TX |
| Christopher F. Adcock, B.S. | San Antonio, TX |
| John V. Lacci, B.S. | San Antonio, TX |
| *Khang H. Dang, M.D. | San Antonio, TX |
| Ali Seifi, M.D. | San Antonio, TX |

18. Operative vs. Nonoperative Treatment of Isolated Humeral Shaft Fractures: A Prospective Cohort Study
 Lisa K. Cannada, M.D. Jacksonville, FL
 *Lauren Germany, M.D. Louisville, KY
 Paul Tornetta, III, M.D. Boston, MA
 Robert Hymes, M.D. Falls Church, VA
 Clifford B. Jones, M.D. Phoenix, AZ
 William Obrebsky, M.D., MPH Nashville, TN
 Eben Carroll, M.D. Winston-Salem, NC
 Brian Mullis, M.D. Indianapolis, IN
 Michael C. Tucker, M.D. Columbia, SC
 David C. Teague, M.D. Oklahoma City, OK
 Andrew Marcantonio, D.O. Burlington, MA
 Robert F. Ostrum, M.D. Chapel Hill, NC
 Michael A. Del Core, M.D. Dallas, TX
 Sarah Dawson, B.S. St. Louis, MO
 Heidi Israel, Ph.D. St. Louis, MO
19. Clinical Outcomes Following Intramedullary Nailing of Select Tibial Pilon Fractures
 Anokha A. Padubidri, M.D. Indianapolis, IN
 Anthony T. Sorkin, M.D. Indianapolis, IN
 Greg E. Gaski, M.D. Indianapolis, IN
 Andrew S. Gudeman, B.S. Indianapolis, IN
20. Is Cheaper Always Better for Clavicle ORIF?
 *Brett D. Crist, M.D., FACS Columbia, MO
 Kyle M. Schweser, M.D. Columbia, MO
 James P. Stannard, M.D. Columbia, MO
 David A. Volgas, M.D. Columbia, MO
 Gregory J. Della Rocca, M.D. Columbia, MO
21. Rotating Hinge Distal Femoral Replacement vs. Open Reduction and Internal Fixation for Comminuted Distal Femur Fractures
 *Meagan E. Tibbo, M.D. Rochester, MN
 Joshua A. Parry, M.D. Rochester, MN
 Mario Hevesi, M.D. Rochester, MN
 Matthew P. Abdel, M.D. Rochester, MN
 Brandon J. Yuan, M.D. Rochester, MN

Tumor/Other/Education (21 posters)

22. Abdominal Wall Endometriosis within Orthopedic Oncology: A Case Series
 *Brandon W. Jonard, M.D. Akron, OH
 Edwin F. Chou, B.S. Akron, OH
 Scott D. Weiner, M.D. Akron, OH

23. Subcutaneous Soft Tissue Sarcoma: A Review of Literature and Alternative Treatment Options
 *Brandon W. Jonard, M.D. Akron, OH
 Vibhatsu J. Amin, B.S. Akron, OH
 Scott D. Weiner, M.D. Akron, OH
24. Progression of Metastatic Disease After Intramedullary Nailing of the Femur
 *Timothy J. Evans, M.D. Detroit, MI
 Toufic Jildeh, M.D. Detroit, MI
 Kirollos Gendi, M.D. Detroit, MI
 Gabriel Sheena, B.S. Detroit, MI
 Theodore W. Parsons, M.D. Detroit, MI
 Michael P. Mott, M.D. Detroit, MI
25. Orthopaedic In-Training Examination (OITE) Preparation and Study Habits of Orthopedic Residents: Revisited
 *Christopher F. Deans, M.D. Omaha, NE
 Emmett J. Gannon, M.D. Omaha, NE
 Elizabeth R. Lyden, M.S. Omaha, NE
 Joseph A. Morgan, M.D. Omaha, NE
 Matthew A. Mormino, M.D. Omaha, NE
26. Where are the Female Surgeons?
 *Natalie M. Gaio St. Louis, MO
 Julie E. Adams, M.D. Rochester, MN
 Mike Zarski, J.D. Rosemont, IL
 Lisa K. Cannada, M.D. Jacksonville, FL
27. Correlation of Appointment Time and Subspecialties with the No-Show Rates in Orthopedic Ambulatory Clinic
 *Sung R. Lee, B.S. Birmingham, AL
 Daniel B. Dix, B.S. Birmingham, AL
 Alan Hsu, B.S. Birmingham, AL
 Chason Farnell, B.S. Birmingham, AL
 Jun Kit He, B.S. Birmingham, AL
 Gerald McGwin, Ph.D., M.S. Birmingham, AL
 Christopher K. Odom, M.D. Birmingham, AL
 Cesar de Cesar Netto, M.D. Birmingham, AL
 Sameer M. Naranje, M.D. Birmingham, AL
 Ashish Shah, M.D. Birmingham, AL
28. Orthopedic Residents' Pursuit of Fellowship Training in the United States: Results from a National Survey
 *Sanar S. Yokhana, M.D. Detroit, MI
 Ali Omari, M.D. Detroit, MI
 Ryan J. Kozlowski, M.D. Detroit, MI
 Mohammed Padela, M.D. Detroit, MI

29. An Anatomical Study on the Sagittal Plane Orientation of the Medial and Lateral Proximal Tibial Surface and Their Relationship to Coronal Plane Orientation
 *Julia K. Foos Cleveland, OH
 Daniel R. Cooperman, M.D. Cleveland, OH
 Raymond W. Liu, M.D. Cleveland, OH
30. Why Choose Orthopedics? An Analysis of the Factors Regarded as Important
 *John E. Whitaker, B.S. Louisville, KY
 Brandi R. Hartley, M.D. Louisville, KY
 Destiny Duvall, M.D. Louisville, KY
 Valeri L. Wolf, M.D. Louisville, KY
31. Trends in the Orthopedic Surgery Fellowship Match 2013-2017
 *Glenn D. Wera, M.D. Cleveland, OH
 Sarah Eisinger, M.S. Chicago, IL
 Hazel Oreluk, M.S. Chicago, IL
 Lisa K. Cannada, M.D. Jacksonville, FL
32. Developing Resident Competency in Fracture Reduction and Casting Using Independent Work Modules: A Two-Year Study
 *Mark J. Sangimino, M.D. Akron, OH & Pittsburgh, PA
 Brian Chen, M.D. Pittsburgh, PA
 Daniel Drake, M.D. Pittsburgh, PA
 Brian Omslaer Pittsburgh, PA
33. Safety and Communication in the Operating Room: A Questionnaire After the Implementation of a Blood-Borne Pathogen Exposure Checkpoint in the Surgical Safety Checklist
 *Patrick A. Kane, M.D. Akron, OH
 Robert Marley, M.D. Akron, OH
 Blake Daney, M.D. Vail, CO
 Joseph N. Gabra, Ph.D. Akron, OH
 Thomas R. Thompson, M.D. Akron, OH
34. Resident Involvement and Publication Rates at the Mid-America Orthopaedic Association Annual Meetings
 *Zachary D. Loeffelholz, B.S. St. Louis, MO
 Brittany D. Dukes, B.S. St. Louis, MO
 Alexander J. Piening, B.S. St. Louis, MO
 Lisa K. Cannada, M.D. Jacksonville, FL
35. Which Subspecialties Do Female Orthopedic Surgeons Choose and Why?
 *Rachel A. Bratescu, M.D. Houston, TX
 Jaclyn M. Jones, B.S. Houston, TX
 Stephanie S. Gardner, M.D. Houston, TX
 Todd E. Siff, M.D. Houston, TX
 Joshua D. Harris, M.D. Houston, TX
 Shari R. Liberman, M.D. Houston, TX

36. Development of Spine Surgical Skills Assessment for Orthopedic Surgery Residents
 *Robert C. Ryu, M.D. Columbus, OH
 Andrew B. Campbell, M.D. Columbus, OH
 Nikhil Jain, M.D. Columbus, OH
 Kari L. Stammen Columbus, OH
 Elizabeth M. Yu, M.D. Columbus, OH
37. Improved Psychomotor Proficiency in Novice Subjects with Two, Four, or Six Weeks of Fundamentals of Arthroscopic Surgery Training (FAST)
 *Jonathan A. Rogozinski, M.D. Dayton, OH
 Trenden L. Flanigan, M.D. Dayton, OH
 Filip Polenakovich, B.S. Dayton, OH
 Andrew Froehle, Ph.D. Dayton, OH
 Richard T. Laughlin, M.D. Cincinnati, OH
38. Survey Results on Orthopedic Sharps Injuries: Are We Properly Reporting Our Accidents?
 *Justin T. Jabara, B.S. Detroit, MI
 M. Chad Mahan, M.D. Detroit, MI
 Omar M. Kadri, M.D. Detroit, MI
 Craig D. Silverton, D.O. Detroit, MI
39. Patient Opioid Requirements Are Often Far Less Than Their Discharge Prescription Following Orthopedic Surgery: Results of a Prospective Multicenter Survey
 *Cody C. Wyles, M.D. Rochester, MN
 Mario Hevesi, M.D. Rochester, MN
 Daniel S. Ubl, M.S. Rochester, MN
 Halena M. Gazelka, M.D. Rochester, MN
 Robert T. Trousdale, M.D. Rochester, MN
 Mark W. Pagnano, M.D. Rochester, MN
 Elizabeth B. Habermann, Ph.D. Rochester, MN
 Tad M. Mabry, M.D. Rochester, MN
40. Do Hospital Rankings Mislead Patients? Variability in National Rankings for Orthopedic Surgery
 *Romil F. Shah Chicago, IL
 David W. Manning, M.D. Chicago, IL
 Karl Y. Bilimoria, M.D. Chicago, IL
41. Is It Safe? Outpatient Total Joint Arthroplasty with Discharge Home at a Free-Standing Ambulatory Surgical Center
 Nancy E. Cipparrone Morton Grove, IL
 Alexander C. Gordon, M.D. Morton Grove, IL
 David J. Raab, M.D. Morton Grove, IL
 James R. Bresch, M.D. Park Ridge, IL
 Nishant A. Shah, M.D. Park Ridge, IL
 *Ritesh R. Shah, M.D. Morton Grove, IL

42. Sunshine Act and Orthopedic Residents: CMS Reporting of an Exempt Population
 Bradley W. Wills, M.D. Birmingham, AL
 Adam Almaguer, M.D. Birmingham, AL
 Joseph X. Robin, B.S. Birmingham, AL
 Andrew Moon, B.S. Birmingham, AL
 *A. Trent Archie, B.S. Birmingham, AL
 Amit Momaya, M.D. Birmingham, AL
 Brent A. Ponce, M.D. Birmingham, AL

Foot and Ankle (8 posters)

43. Outcomes of Surgical Repair in Non-Athlete Patients with Chronic Turf Toe Injury
 Zachariah Pinter, B.S. Birmingham, AL
 Harshadkumar Patel, M.D. Birmingham, AL
 Chason Farnell, B.S. Birmingham, AL
 *Joseph X. Robin, B.S. Birmingham, AL
 Peng Jianguang, M.D. Birmingham, AL
 Thompson McMurtrie, M.D. Birmingham, AL
 Ashish Shah, M.D. Birmingham, AL
44. Outcomes Following Treatment of the Infected Achilles Tendon
 *Mark W. Bowers, M.D. Rochester, MN
 Norman S. Turner, M.D. Rochester, MN
 Daniel B. Ryssman, M.D. Rochester, MN
 Steven L. Moran, M.D. Rochester, MN
45. Patient Reported Outcomes of Achilles Tendon Repair Using the Modified Gift-Box Technique with Non-Absorbable Suture Loop: A Consecutive Case Series
 Travis L. Frantz, M.D. Columbus, OH
 Joshua S. Everhart, M.D. Columbus, OH
 Marissa Jamieson, M.D. Columbus, OH
 Erica Fisk, M.D. Columbus, OH
 *Saul W. Fredrickson, B.S. Columbus, OH
 Jill Kanney, B.S. Columbus, OH
 Timothy L. Miller, M.D. Columbus, OH
46. Lisfranc Fixation Revisited: Is Joint Sparing Bone Fixation Possible? An Anatomic and Computational Study
 *Eric R. Christianson, M.D. Kalamazoo, MI
 James R. Jastifer, M.D. Kalamazoo, MI
 Daniel VanZweden, B.S. Kalamazoo, MI

47. Hemi vs. Total Joint Arthroplasty for Moderate – Severe Hallux Rigidus: A Systematic Review and Meta-Analysis
 *Robert D. Stibolt, B.S. Birmingham, AL
 Harshadkumar A. Patel, M.D. Birmingham, AL
 Eva Lehtonen, B.S. Birmingham, AL
 Henry DeBell, B.S. Birmingham, AL
 Chandan R. Basetty Birmingham, AL
 Sierra Phillips, M.D. Birmingham, AL
 Ashish Shah, M.D. Birmingham, AL
 Sameer M. Naranje, M.D. Birmingham, AL
48. 3D Joint Space Width on Weightbearing CT Correlates with Pain after Intra-Articular Calcaneal Fracture Treatment
 *Molly A. Day, M.D. Iowa City, IA
 Kevin D. Dibbern, M.S. Iowa City, IA
 Karan Rao, B.S. Iowa City, IA
 Qiang An, Ph.D. Iowa City, IA
 Catherine Fruehling, M.S. Iowa City, IA
 Donald D. Anderson, Ph.D. Iowa City, IA
 J. Lawrence Marsh, M.D. Iowa City, IA
49. Tibialis Anterior Tendinosis: Clinical Characterization and Surgical Treatment
 *Carly Cignetti, B.S. Birmingham, AL
 Jianguag Peng, M.D. Birmingham, AL
 John LaCorda, M.D. Birmingham, AL
 Andrew McGee, B.S. Birmingham, AL
 Eildar Abyar, M.D. Birmingham, AL
 Eva Lehtonen, B.S. Birmingham, AL
 Harshadkumar A. Patel, M.D. Birmingham, AL
 Brooklyn D. Williamson Birmingham, AL
 Nicholas Dahlgren, B.S. Birmingham, AL
 Jun Kit He, B.S. Birmingham, AL
 Ashish Shah, M.D. Birmingham, AL
50. Is Interposition Arthroplasty a Viable Option for Treatment of Moderate to Severe Hallux Rigidus? A Systematic Review and Meta-Analysis
 *Harshadkumar A. Patel, M.D. Birmingham, AL
 John L. Johnson, M.D. Birmingham, AL
 Rishi Kalra, B.S. Birmingham, AL
 Samuel R. Huntley, B.S. Littleton, CO
 Nicholas Dahlgren, B.S. Birmingham, AL
 Matthew Anderson, B.S. Birmingham, AL
 Ashish Shah, M.D. Birmingham, AL
 Sameer M. Naranje, M.D. Birmingham, AL

Shoulder (12 posters)

51. Does Medicaid Expansion Improve Access to Care for the First Time Shoulder Dislocator?
*Graham E. Kirchner Birmingham, AL
Nicholas Rivers Birmingham, AL
Emily Balogh Birmingham, AL
Samuel R. Huntley, M.D. Littleton, CO
Brent A. Ponce, M.D. Birmingham, AL
Eugene W. Brabston, M.D. Birmingham, AL
Amit Momaya, M.D. Birmingham, AL
52. Patient Understanding and Attitudes Toward Opioid Medications
*Kiran Chatha, M.D. Weston, FL
Danielle Malone, MPH, MT (ASCP) Weston, FL
Sandra Koen, MPH, MT (ASCP) Weston, FL
Mirelle Dawoud, B.S. Boca Raton, FL
Vani J. Sabesan, M.D. Weston, FL
53. Opioid Free Shoulder Surgery: Optimizing Multimodal Pain Management
Vani J. Sabesan, M.D. Weston, FL
*Kiran Chatha, M.D. Weston, FL
Danielle Malone, MPH, MT (ASCP) Weston, FL
Sandra Koen, MPH, MT (ASCP) Weston, FL
Mirelle Dawoud, B.S. Boca Raton, FL
Gregory Gilot, M.D. Weston, FL
54. Prediction of Impingement-Free Range of Motion Prior to Reverse Shoulder Arthroplasty
*Vani J. Sabesan, M.D. Weston, FL
Diego J.L. Lima, M.D. Weston, FL
Jordan Grauer, B.S. Boca Raton, FL
Bhavya Seth, B.S. Miami, FL
Matthew Stankard, B.S. Boca Raton, FL
55. Does Socioeconomic Status Influence Opioid Use or Dependence Following Total Shoulder Arthroplasty?
*Vani J. Sabesan, M.D. Weston, FL
Kiran Chatha, M.D. Weston, FL
Mirelle Dawoud, MPH, MT (ASCP) Boca Raton, FL
Gregory Gilot, M.D. Weston, FL
56. Magnetic Resonance Imaging vs. Ultrasound in the Diagnosis of Distal Biceps Tendon Rupture
*Charles C. Yu, M.D. Detroit, MI
Jonathan Lynch, M.D. Detroit, MI
Alex Hamilton, M.S. Detroit, MI
Stephanie J. Muh, M.D. Detroit, MI

57. Mechanical Tradeoffs in Reverse Shoulder Arthroplasty: A Finite Element Analysis
 *Brendan M. Patterson, M.D., MPH Iowa City, IA
 Andrew P. Caceres, B.S. Iowa City, IA
 Donald D. Anderson, Ph.D. Iowa City, IA
58. Arthroscopic Capsular Release for Refractory Adhesive Capsulitis: Speed of Recovery and Non-Responder Outliers
 *Laurel A. Barras, M.D. Rochester, MN
 William R. Aibinder, M.D. Rochester, MN
 Mark E. Morrey, M.D. Rochester, MN
 Joaquin Sanchez-Sotelo, M.D., Ph.D. Rochester, MN
59. Rout and Out: An Extraction Technique for Well-Fixed Humeral Stems in Revision Shoulder Arthroplasty
 *Anthony L. Logli, M.D. Rochester, MN
 Jason R. Kang, M.D. Rochester, MN
 Adam J. Tagliero, M.D. Rochester, MN
 John W. Sperling, M.D. Rochester, MN
60. Comparison of Magnetic Resonance Imaging and 3-D Computed Tomography for Assessment of Glenoid Bone Loss: Utilization of a Novel Predictive Measurement Technique
 *Manoj P. Reddy, M.D. Chicago, IL
 Calvin P. Holloway, M.D. Chicago, IL
 Anup Alexander, M.D. Chicago, IL
 Jason L. Koh, M.D. Chicago, IL
 Diego C. Vallacis, M.D. Chicago, IL
61. Tobacco Use is Associated with a More Difficult Postoperative Course Following Primary Reverse Total Shoulder Arthroplasty
 *Clay G. Nelson, M.D. Memphis, TN
 Jacob T. Hartline, M.D. Memphis, TN
 Ryan B. Eads, M.D. Memphis, TN
 Tyler J. Brolin, M.D. Memphis, TN
 Frederick M. Azar, M.D. Memphis, TN
 Thomas W. Throckmorton, M.D. Memphis, TN
62. Early Outcomes of Patient-Reported Outcomes Measurement Information System (PROMIS) Scores in Patients Undergoing Rotator Cuff Repair
 Stephanie J. Muh, M.D. Detroit, MI
 *Felicity Fisk, M.D. Detroit, MI
 Gabe Sheena, B.S. Detroit, MI
 Jacob W. Blanchett, B.S. Detroit, MI
 Peter A. Borowsky, B.S. Detroit, MI
 Jason E. Meldau, B.S. Detroit, MI
 Vasilios Moutzouros, M.D. Detroit, MI
 Eric C. Makhni, M.D. Detroit, MI

Pediatrics (5 posters)

63. Safe Transport of Spica Casted Children is Possible: A Frontal Crash Test Analysis of Child Restraint Systems Using Casted Crash Test Dummies
*Angela C. Collins, M.D. Flint, MI
Sean Caskey, D.O. Flint, MI
Jeffrey B. Peck, M.D. Dallas, TX
Theresa Atkinson, Ph.D. Flint, MI
Norman Walter, M.D. Flint, MI
Pat Atkinson, Ph.D. Flint, MI
64. Longitudinal Analysis of Distal Radius Alignment Parameters in a Cohort of Serial Radiographs
*Derrick M. Knapik, M.D. Cleveland, OH
Ian Drummond, B.S. Cleveland, OH
Jensen Kolaczko, M.D. Cleveland, OH
Raymond W. Liu, M.D. Cleveland, OH
65. A Biomechanical Evaluation of Long Arm Immobilization Techniques Commonly Used in the Pediatric Orthopedic Setting
*Samuel F. Thompson, M.D. Oklahoma City, OK
Conor McBride, B.S. Oklahoma City, OK
Scott H. Conant, M.D. Oklahoma City, OK
Marc C. Moore, Ph.D. Oklahoma City, OK
Thomas R. Lewis, M.D. Oklahoma City, OK
66. Radiation Exposure in the Treatment of Pediatric Supracondylar Humerus Fractures
Michael C. Albert, M.D. Dayton, OH
Melissa Martinek, D.O. Dayton, OH
*Alex Schmucker, B.A. Dayton, OH
Roy Chen, B.S. Dayton, OH
Adrienne Stolfi, Ph.D. Dayton, OH
Karen Herzing, R.N. Dayton, OH
67. Initial Evaluation by a Nonoperative Provider Does Not Delay the Surgical Care of Operative Ankle Fractures in a Walk-in Orthopedic Clinic
*Matthew N. Fournier, M.D. Memphis, TN
Robert Neel, B.S. Memphis, TN
David D. Spence, M.D. Memphis, TN
Benjamin Sheffer, M.D. Memphis, TN
Jeffrey R. Sawyer, M.D. Memphis, TN
Derek M. Kelly, M.D. Memphis, TN

Hip (18 posters)

68. Internal Validation of a Predictive Model for Complications After Total Hip Arthroplasty
Kyle N. Kunze, B.S. Chicago, IL
Jefferson Li, B.S. Chicago, IL
Kamran Movassaghi, M.D. Chicago, IL
Adam Wiggins, M.D. Chicago, IL
Scott M. Sporer, M.D. Chicago, IL
*Brett R. Levine, M.D., M.S. Chicago, IL
69. Midlevel Providers in Orthopedic Surgery: The Patient's Perspective
*Blaine T. Manning, M.D. Columbia, MO
Daniel D. Bohl, M.D., M.P.H. Chicago, IL
Michael L. Redondo, B.S. Chicago, IL
David R. Christian, B.S. Chicago, IL
Tad L. Gerlinger, M.D. Chicago, IL
Scott M. Sporer, M.D. Chicago, IL
Wayne G. Paprosky, M.D. Chicago, IL
Brett R. Levine, M.D., M.S. Chicago, IL
70. Meta-Analyses in Total Joint Arthroplasty: Are They Helpful?
*Kwan J. Park, M.D. Houston, TX
Landon D. Brown, M.D. Houston, TX
Maile E. Curbo, B.S. Houston, TX
Brad S. Lambert, Ph.D. Houston, TX
Daniel T. Le, M.D. Houston, TX
Terry A. Clyburn, M.D. Houston, TX
Stephen J. Incavo, M.D. Houston, TX
71. Diagnostic Accuracy of a New Clinical Test (Resisted Internal Rotation) for Detection of Gluteus Medius Tears
Victor Ortiz-Declet, M.D. New York, NY
Leslie C. Yuen, B.S. Westmont, IL
*David R. Maldonado, M.D. Westmont, IL
Benjamin G. Domb, M.D. Westmont, IL
72. Constrained Liner Revision is Less Effective with Each Subsequent Constrained Liner Revision at Preventing Instability in Revision Total Hip Arthroplasty
*Nicholas M. Hernandez, M.D. Rochester, MN
Rafael J. Sierra, M.D. Rochester, MN
Robert T. Trousdale, M.D. Rochester, MN
73. Conversion of Failed Hemiarthroplasty to Total Hip Arthroplasty has Similar Outcomes and Costs as Revision Total Hip Arthroplasty
*Nicholas M. Hernandez, M.D. Rochester, MN
Hilal Maradit Kremers, M.D. Rochester, MN
Rafael J. Sierra, M.D. Rochester, MN

74. Total Hip Arthroplasty in Patients with Spondyloepiphyseal Dysplasia: A Long-Term Outcome Study of 50 Cases
 *Cody C. Wyles, M.D. Rochester, MN
 Joseph A. Panos, B.S. Rochester, MN
 Matthew T. Houdek, M.D. Rochester, MN
 Robert T. Trousdale, M.D. Rochester, MN
 Daniel J. Berry, M.D. Rochester, MN
 Michael J. Taunton, M.D. Rochester, MN
75. Thirty-Day Major and Minor Complications Following Total Hip Arthroplasty – A Comparison of the Direct Anterior, Lateral, and Posterior Approaches
 *Adam Hart, M.D. Rochester, MN
 Cody C. Wyles, M.D. Rochester, MN
 Matthew P. Abdel, M.D. Rochester, MN
 Kevin I. Perry, M.D. Rochester, MN
 Mark W. Pagnano, M.D. Rochester, MN
 Michael J. Taunton, M.D. Rochester, MN
76. Primary and Revision Total Hip Arthroplasty with Uncemented Acetabular Components in Patients with Paget’s Disease
 *Meagan E. Tibbo, M.D. Rochester, MN
 Timothy S. Brown, M.D. Rochester, MN
 Arlen D. Hanssen, M.D. Rochester, MN
 David G. Lewallen, M.D. Rochester, MN
 Franklin H. Sim, M.D. Rochester, MN
 Matthew P. Abdel, M.D. Rochester, MN
77. Long-Term Outcomes of Constrained Liners Cemented into Retained, Well-Fixed Acetabular Components
 Timothy S. Brown, M.D. Iowa City, IA
 *Meagan E. Tibbo, M.D. Rochester, MN
 Diren S. Arsoy, M.D. Rochester, MN
 David G. Lewallen, M.D. Rochester, MN
 Arlen D. Hanssen, M.D. Rochester, MN
 Robert T. Trousdale, M.D. Rochester, MN
 Matthew P. Abdel, M.D. Rochester, MN
78. Does the Timing of the Second Surgery of a Staged Bilateral Total Joint Arthroplasty Affect the Rate of Hospital Adverse Events and Perioperative Outcomes?
 *Jesus M. Villa, M.D. Weston, FL
 Wael K. Barsoum, M.D. Cleveland, OH
 Carlos A. Higuera, M.D. Weston, FL
 Preetesh D. Patel, M.D. Weston, FL

79. Patients Less Than 50-Years-Old Undergoing Revision THA for Instability Had a High Re-Dislocation Rate and Poor Long-Term Survivorship Free of Re-revision
*Brian P. Chalmers, M.D. Rochester, MN
Graham D. Pallante, M.D. Rochester, MN
Michael T. Taunton, M.D. Rochester, MN
Rafael J. Sierra, M.D. Rochester, MN
David G. Lewallen, M.D. Rochester, MN
Robert T. Trousdale, M.D. Rochester, MN
80. Sleep Quality in Patients with Osteoarthritis of the Hip
*Jack R. Martinez, B.S. Dallas, TX
Nisha Reddy, B.S. Dallas, TX
Edward Mulligan Dallas, TX
Linda Hynan, Ph.D. Dallas, TX
Joel E. Wells, M.D., M.P.H. Dallas, TX
81. Staged Total Hip Arthroplasty: A Novel Technique in Managing Pelvic Discontinuity
*John V. Horberg, M.D. Springfield, IL
Charles M. Lobrano, M.D. Springfield, IL
R. David Graham, M.D. Springfield, IL
Kathleen Kay, B.S. Springfield, IL
Ian Ridge, B.S. Springfield, IL
D. Gordon Allan, M.D. Springfield, IL
82. Uniformly Low Serum Cobalt Levels After Modular Dual-Mobility THAs with Ceramic Heads: A Prospective Study in High Risk Patients
*Brian P. Chalmers, M.D. Rochester, MN
Devin M. Mangold, M.D. Rochester, MN
Arlen D. Hanssen, M.D. Rochester, MN
Mark W. Pagnano, M.D. Rochester, MN
Robert T. Trousdale, M.D. Rochester, MN
Matthew P. Abdel, M.D. Rochester, MN
83. Telemedicine Pilot Study: Six-Month Postoperative Complications Among Virtual Clinic Visit Total Hip and Knee Arthroplasty Patients
*Lafi S. Khalil, M.D. Detroit, MI
Omar M. Kadri, M.D. Detroit, MI
Sreten Franovic, B.S. Detroit, MI
Robert N. Matar, M.D. Mt. Pleasant, MI
Trevor R. Banka, M.D. Detroit, MI

84. The Effect of Combined Administration of Tranexamic Acid on Blood Loss in Total Knee and Hip Arthroplasty. A Systemic Review and Meta-Analysis
 Mohamed Awad, M.D. Atlanta, GA
 Muhammad Padela, M.D. Detroit, MI
 Alberto Criado, M.D. Detroit, MI
 Mark Zekaj, M.D. Detroit, MI
 Mouhanad El-Othmani, M.D. Detroit, MI
 Arthur Manoli, III, M.D. Detroit, MI
 Hussein Darwiche, M.D. Detroit, MI
 *Zain Sayeed, M.D. Detroit, MI
 Khaled Saleh, M.D. Detroit, MI
85. Effect of Pelvis and Limb Position on Radiographic Leg Length Discrepancy Measurement: A Sawbones Model
 *Matthew G. Robinson, M.D. Chicago, IL
 Isaac Livshetz, M.D. Chicago, IL
 Mark H. Gonzalez, M.D. Chicago, IL

Knee (15 posters)

86. Contemporary Revision TKA in Patients Less Than Age 50: A High Risk of Re-Revision by 10 Years
 *Brian P. Chalmers, M.D. Rochester, MN
 Graham D. Pallante, M.D. Rochester, MN
 Rafael J. Sierra, M.D. Rochester, MN
 Mark W. Pagnano, M.D. Rochester, MN
 David G. Lewallen, M.D. Rochester, MN
 Robert T. Trousdale, M.D. Rochester, MN
87. Revision Anterior Cruciate Ligament Reconstruction After Surgical Management of Multiligament Knee Injury
 *Olubusola Brimmo, M.D. Columbia, MO
 John R. Worley, M.D. Columbia, MO
 Clayton W. Nuelle, M.D. San Antonio, TX
 James L. Cook, DVM, Ph.D., OTSC Columbia, MO
 Emily V. Leary, Ph.D. Columbia, MO
 James P. Stannard, M.D. Columbia, MO
88. Five-Year Outcomes of Cementless Total Knee Arthroplasty
 *Christian J. Eccles, M.D. Louisville, KY
 Joshua Meredith, M.D. Louisville, KY
 Steven F. Harwin, M.D. New York, NY
 Michael A. Mont, M.D. New York, NY
 Langan Smith, M.D. Louisville, KY
 Arthur L. Malkani, M.D. Louisville, KY

89. External Validity of a New Prediction Model for Patient Satisfaction After Total Knee Arthroplasty
*Tyler E. Calkins, B.S. Chicago, IL
Chris Culvern, M.S. Chicago, IL
Tad L. Gerlinger, M.D. Chicago, IL
Brett R. Levine, M.D., M.S. Chicago, IL
Craig J. Della Valle, M.D. Chicago, IL
Denis Nam, M.D. Chicago, IL
90. Utilizing the Time Trade-Off, Standard Gamble and Willingness to Pay Utility Measures to Evaluate Health-Related Quality of Life Prior to Knee or Hip Arthroplasty
*Tyler E. Calkins, B.S. Chicago, IL
Brian Darrith, M.D. Detroit, MI
Kamil Okroj, M.D. Philadelphia, PA
Roman Drabchuk Chicago, IL
Chris Culvern, M.S. Chicago, IL
Craig J. Della Valle, M.D. Chicago, IL
91. The Lack of Bone on Bone Contact in the Medial Compartment Should not be a Strict Contraindication for Mobile-Bearing UKA
*Juan S. Vargas, B.S. Rochester, MN
Samuel W. Carlson, M.D. Rochester, MN
Bayard C. Carlson, M.D. Rochester, MN
Rafael J. Sierra, M.D. Rochester, MN
92. Posterior Cruciate Ligament Resection Does Not Consistently Increase the Flexion Space in TKA as Previously Thought: In Vivo Study in U.S. Patients
*Lucian C. Warth, M.D. Indianapolis, IN
Evan R. Deckard, B.S. Indianapolis, IN
R. Michael Meneghini, M.D. Indianapolis, IN
93. A Multi-Center Randomized Clinical Trial of Tranexamic Acid in Revision Total Knee Arthroplasty: Does the Dosage Regimen Matter?
*Tyler E. Calkins, B.S. Chicago, IL
Yale A. Fillingham, M.D. Chicago, IL
Brian Darrith, M.D. Chicago, IL
Matthew P. Abdel, M.D. Rochester, MN
Arthur L. Malkani, M.D. Louisville, KY
Ran Schwarzkopf, M.D. New York, NY
Douglas E. Padgett, M.D. New York, NY
Robert A. Sershon, M.D. Chicago, IL
Stefano A. Bini, M.D. San Francisco, CA
Craig J. Della Valle, M.D. Chicago, IL

94. Evaluation of Obesity Measures in Relation to Clinical Outcomes in Total Knee Arthroplasty, A Prospective Study
 Caleb Pflederer, B.S. Chicago, IL
 Jefferson Li, B.S. Chicago, IL
 David Rossi, B.S. Chicago, IL
 Tori A. Edmiston, M.D. Chicago, IL
 Denis Nam, M.D. Chicago, IL
 *Brett R. Levine, M.D., M.S. Chicago, IL
95. Early Results of a Modern, Uncemented Total Knee Arthroplasty System
 *Arthur Manoli, III, M.D. Novi, MI
 Jacob Markel, B.S. Detroit, MI
 Natalie Pizzimenti, M.S. Novi, MI
 David C. Markel, M.D. Novi, MI
96. The Effect of Tourniquet Use and CO2 Preparation on Cement Penetration in Primary Total Knee Arthroplasty
 Zachary A. Gapinski, B.S. Indianapolis, IN
 Elliott J. Yee, B.S. Indianapolis, IN
 Kent R. Kraus, B.S. Indianapolis, IN
 Evan R. Deckard, B.S. Indianapolis, IN
 *R. Michael Meneghini, M.D. Fishers, IN
97. What is the Role of Posterior Cruciate Ligament Integrity with Ultra-Congruent Tibial Inserts in Conforming Bearing Total Knee Arthroplasty?
 Bradley A. Foulke, B.S. Indianapolis, IN
 Elive F. Likine, Jr., B.S. Indianapolis, IN
 Evan R. Deckard, B.S. Indianapolis, IN
 Mary Ziemba-Davis, B.S. Indianapolis, IN
 *R. Michael Meneghini, M.D. Fishers, IN
98. Variability in Physical Therapy Protocols for Patellar Tendon and Quadriceps Tendon Rupture and Repair
 *Jamal K. Egbaria, B.S. Birmingham, AL
 Joseph X. Robin, B.S. Birmingham, AL
 William T. Davis, B.S. Birmingham, AL
 Brent A. Ponce, M.D. Birmingham, AL
 Eugene Brabston, M.D. Birmingham, AL
 Amit Momaya, M.D. Birmingham, AL
99. Time to Set of Bone Cement with Varying Temperature of Irrigation
 *Travis J. Small, D.O. Louisville, KY
 Alex Lu, B.S. Erie, PA
 Jonathan G. Yerasimides, M.D. Louisville, KY
 Jeffrey D. Stimac, M.D. Louisville, KY
 Timothy McGlaston, M.D. Louisville, KY
 Joseph W. Greene, M.D. Louisville, KY

100. Solid Organ Transplantation Increases Wound Complications and Early Revision Surgery After Primary TKA

*David E. DeMik, M.D.	Iowa City, IA
Nicholas A. Bedard, M.D.	Iowa City, IA
Alan G. Shamrock, M.D.	Iowa City, IA
Jesse E. Otero, M.D.	Iowa City, IA
Timothy S. Brown, M.D.	Iowa City, IA
John J. Callaghan, M.D.	Iowa City, IA