

MID-AMERICA ORTHOPAEDIC ASSOCIATION

Poster Presentations – 2025 Annual Meeting

- Posters will be located in the SAN ANTONIO FOYER of the La Cantera Resort
- Presenters will be available for discussion and questions at the following times.
CME credit is given for poster viewing at these times only:

Posters 1 – 61	Thursday, April 10, 2025	10:00 AM – 10:30 AM
Posters 62 – 119	Friday, April 11, 2025	9:45 AM – 10:15 AM

FOOT & ANKLE

1. **Infection and Immune Reaction after Achilles Repair: A Systematic Review**
*Michael Braman, BBmE Kansas City, KS
Jacob Adams, B.S. Kansas City, KS
Ian Harmon, M.D. Kansas City, KS
Rachel Long, B.S. Kansas City, KS
Bryan Vopat, M.D. Kansas City, KS
Stephen Waller, Ph.D. Kansas City, KS

2. **The Hawkins Sign: Inter-Rater Variability & Overall Reliability in Predicting Preservation of Talar Vascularity**
*Logan P. Lake, B.S. Cincinnati, OH
Paul McMillan, M.D. Cincinnati, OH
Sarah Kurkowski, M.D. Cincinnati, OH
Henry Kuechly, B.S. Cincinnati, OH
Augusto Figueres, B.S. Cincinnati, OH
Richard Laughlin, M.D. Cincinnati, OH

HAND & WRIST

3. **Bariatric Surgery and Carpal Tunnel Syndrome: Implications for Surgical Outcomes and Care Strategies**
*Brett Drake Chicago, IL
Apurva Choubey Chicago, IL
Vennela Challagondla Chicago, IL
Nirav Mungalpara Chicago, IL
Mark Gonzalez, M.D. Chicago, IL

4. **Impact of Antibiotic Stewardship on Flexor Tenosynovitis Length of Stay**

*Joel W Mayo, M.S.	Chicago, IL
Eric Durudogan, B.S.	Chicago, IL
Apurva S Choubey, M.D.	Chicago, IL
Brett Drake, B.S.	Chicago, IL
Bhavik Patel, M.D.	Chicago, IL
Gautam Malhotra, M.D.	Chicago, IL

5. **Comparison of Patient-Reported Outcomes After Different Surgical Treatment Methods for Thumb RCL Tear**

*Sarah Townsley, M.D.	Rochester, MN
Jacob Schaefer, M.D.	Rochester, MN
Sanjeev Kakar, M.D.	Rochester, MN

HIP ARTHROPLASTY

6. **Low Preoperative Vitamin D Associated with Lower Baseline PROMs But Greater Improvement Following Total Joint Arthroplasty**

*Sarthak Aggarwal, B.S.	Chicago, IL
Malik Scott, B.A.	Chicago, IL
Michael Koch, B.S.	Chicago, IL
Chuanhong Liao, M.S.	Chicago, IL
Sara J.S. Wallace, M.D., MPH	Chicago, IL

7. **Creating an MRI Classification System for Hip Abductor Musculature Atrophy**

*Megan N. Baughman, B.S.	Madison, WI
Donna G. Blakenbaker, M.D.	Madison, WI
Samuel J. Mosiman, M.S.	Madison, WI
Reagan S.H. Beyer, B.S.	Madison, WI
Anchal P. Dhawan, B.S.	Madison, WI
Ariel H. Kim, B.A.	Madison, WI
Andrea M. Spiker, M.D.	Madison, WI

8. **Deep Learning Identification of Hip Joint Morphology**

*Lainey G. Bukowiec, M.D.	Rochester, MN
Anish Kanabar, M.S.	Rochester, MN
John P. Mickley, M.D.	Rochester, MN
Kellen Mulford, Ph.D.	Rochester, MN
Sofia Sierra	Rochester, MN
Cody C. Wyles, M.D.	Rochester, MN

9. **Should We Use the Largest Femoral Head with the Smallest Acetabular Component in Primary THA?**
 Mark Wu, M.D. Rochester, MN
 *Brett R. Bukowski, M.D. Rochester, MN
 Kristin M. Fruth, B.S. Rochester, MN
 Robert T. Trousdale, M.D. Rochester, MN
 Matthew P. Abdel, M.D. Rochester, MN
 Tad M. Mabry, M.D. Rochester, MN
10. **Diagnostic Accuracy of Alpha-Defensin in Total Hip and Total Knee Arthroplasties**
 Mark Wu, M.D. Rochester, MN
 *Brett R. Bukowski, M.D. Rochester, MN
 Joel A. Hickman Rochester, MN
 Elitza S. Theel, Ph.D. Rochester, MN
 Robin Patel, M.D. Rochester, MN
 Daniel J. Berry, M.D. Rochester, MN
 Matthew P. Abdel, M.D. Rochester, MN
11. **Long-Term Outcomes of Cemented vs. Cementless Total Hip Arthroplasty Following Displaced Femoral Neck Fracture**
 *Xiao Tony Chen, M.D. Rochester, MN
 Brian D. Wahlig, M.D. Rochester, MN
 Lionel Fotso Kamga, B.S. Rochester, MN
 Charles P. Hannon, M.D. Rochester, MN
 Brandon J. Yuan, M.D. Rochester, MN
 Nicholas A. Bedard, M.D. Rochester, MN
12. **Patient Satisfaction Following Operative Treatment of Early Periprosthetic Fracture After Total Hip Arthroplasty**
 *Siddhartha Dandamudi, B.B.A. Chicago, IL
 Ilyass Majji, B.S. Chicago, IL
 John Higgins, M.D. Chicago, IL
 Jamil Kendall, M.D. Chicago, IL
 Anne DeBenedetti, M.Sc Chicago, IL
 Tad L Gerlinger, M.D. Chicago, IL
13. **Aseptic Revision Total Hip Arthroplasty in Octogenarians: Is there a Higher Incidence of Early Complications?**
 Siddhartha Dandamudi, B.B.A. Chicago, IL
 Conor M Jones, M.D. Chicago, IL
 Ilyass Majji, B.S. Chicago, IL
 Mark L Dunleavy, M.D. Chicago, IL
 *Brett R Levine, M.D., M.S. Chicago, IL
 Omar A Behery, M.D., M.P.H. Chicago, IL

14. **Preoperative, Intraoperative, and Postoperative Factors for Persistent Pain Following Revision for Prosthetic Joint Infection**
- | | |
|--------------------------|-----------------|
| *Austin M. DeBoer, B.S. | Minneapolis, MN |
| Nickolas VanRoekel, M.D. | Minneapolis, MN |
| Travis Parkulo, M.D. | Minneapolis, MN |
| Gaonhia Moua, B.S. | Minneapolis, MN |
| Sandy Vang, B.S. | Minneapolis, MN |
| Scott Marston, M.D. | Minneapolis, MN |
15. **Primary Total Hip Arthroplasty with Concomitant Gluteus Medius Repair: Mid-Term Outcomes with Nested Propensity-Matched Benchmark Control**
- | | |
|-----------------------------|-----------------|
| Roger Quesada-Jimenez, M.D. | Des Plaines, IL |
| Yasemin E. Kingham, B.A. | Des Plaines, IL |
| Tyler R. McCarroll, M.D. | Des Plaines, IL |
| Jessica C. Keane, B.S. | Des Plaines, IL |
| Ady H. Kahana-Rojkind, M.D. | Des Plaines, IL |
| *Benjamin G. Domb, M.D. | Des Plaines, IL |
16. **Would Placing a Prophylactic Calcar or Diaphyseal Wire Decrease Risk of Periprosthetic Fracture in Taper-Slip-Type Cemented Stems? A Biomechanical Study**
- | | |
|-------------------------------|---------------|
| *Sergio F. Guarin Perez, M.D. | Rochester, MN |
| Gongyin Zhao, M.D. | Rochester, MN |
| Ichiro Tsukamoto, M.D. | Rochester, MN |
| Joshua R. Labott, M.D. | Rochester, MN |
| Diego J. Restrepo, M.D. | Rochester, MN |
| Allison Tanner, B.S. | Rochester, MN |
| Alex W. Hooke, M.S. | Rochester, MN |
| Lawrence J. Berglund, B.S. | Rochester, MN |
| Chunfeng Zhao, M.D. | Rochester, MN |
| Rafael J. Sierra, M.D. | Rochester, MN |
17. **Fiber Wire Suture is as Strong as 16-Gauge Wire for Calcar Prophylaxis the Time of THA: A Biomechanical Study**
- | | |
|-------------------------------|---------------|
| *Sergio F. Guarin Perez, M.D. | Rochester, MN |
| Gongyin Zhao, M.D. | Rochester, MN |
| Ichiro Tsukamoto, M.D. | Rochester, MN |
| Joshua R. Labott, M.D. | Rochester, MN |
| Diego J. Restrepo, M.D. | Rochester, MN |
| Alex W. Hooke, M.S. | Rochester, MN |
| Lawrence J. Berglund, B.S. | Rochester, MN |
| Chunfeng Zhao, M.D. | Rochester, MN |
| Rafael J. Sierra, M.D. | Rochester, MN |

18. **A Collarless Cementless Stem with a Prophylactic Calcar Wire is as Strong as a Collared Cementless Stem in Preventing Periprosthetic Fracture: A Biomechanical Study**
- | | |
|-------------------------------|---------------|
| *Sergio F. Guarin Perez, M.D. | Rochester, MN |
| Gongyin Zhao, M.D. | Rochester, MN |
| Ichiro Tsukamoto, M.D. | Rochester, MN |
| Joshua R. Labott, M.D. | Rochester, MN |
| Diego J. Restrepo, M.D. | Rochester, MN |
| Alex W. Hooke, M.S. | Rochester, MN |
| Lawrence J. Berglund, B.S. | Rochester, MN |
| Chunfeng Zhao, M.D. | Rochester, MN |
| Rafael J. Sierra, M.D. | Rochester, MN |
19. **Patient-Reported Outcome Measures After Direct Anterior Total Hip Arthroplasty are Comparable Between Patients with Developmental Dysplasia of the Hip and Osteoarthritis: A Propensity-Matched Analysis**
- | | |
|---------------------------|---------------|
| *Sean C. Clark, M.S. | Rochester, MN |
| Breydan H. Wright, M.D. | Rochester, MN |
| Aliya G. Feroe, M.D. | Rochester, MN |
| Brandon C. Cabarcas, M.D. | Rochester, MN |
| Sanathan Iyer, B.S. | Rochester, MN |
| Gavin H. Ward, B.S. | Rochester, MN |
| Jason G. Ina, M.D. | Rochester, MN |
| Parker A. Scott | Rochester, MN |
| Cory G. Couch, M.D. | Rochester, MN |
| Michael J. Taunton, M.D. | Rochester, MN |
| Mario Hevesi, M.D., Ph.D. | Rochester, MN |
20. **Unveiling the Hidden Risks: Nutritional Competency and Postoperative Complications in Underweight Patients Undergoing Total Hip Arthroplasty**
- | | |
|------------------------|-------------|
| *Jibreel Hussain, MBA | Chicago, IL |
| Brett Drake, B.S. | Chicago, IL |
| Apurva Choubey, M.D. | Chicago, IL |
| Nasiruddin Shaik, B.S. | Chicago, IL |
| Nezar Abunnur, B.S. | Chicago, IL |
| Esa Syed, B.S. | Chicago, IL |
| Malyika Hussain, AS | Chicago, IL |
| Nirav Mungalpara, M.D. | Chicago, IL |
21. **Development of Prediction Models for Costly Outcomes After Conversion Total Hip Arthroplasty**
- | | |
|---------------------------|---------------|
| *Michal Jandzinski, M.D. | Ann Arbor, MI |
| Elizabeth A. Dailey, M.D. | Ann Arbor, MI |
| Ramzy I. Meremikwu, M.D. | Ann Arbor, MI |
| Giresse Melone, M.D. | Ann Arbor, MI |

22. **Long-Term Outcomes of Robotic Assisted Total Hip Arthroplasty with A Nested Comparison To Conventional Total Hip Arthroplasty**
 *Ady H. Kahana-Rojkind, M.D. Des Plaines, IL
 Drashti Sikligar, MEng Des Plaines, IL
 Roger Quesada-Jimenez, M.D. Des Plaines, IL
 Benjamin D. Kuhns, M.D. Des Plaines, IL
 Mark F. Schinsky, M.D. Des Plaines, IL
 Benjamin G. Domb, M.D. Des Plaines, IL
23. **Which Patients without Significant Radiographic Joint Space Loss Benefit from Hip Arthroplasty? An MRI-Based Decision-Making Algorithm**
 *Benjamin D. Kuhns, M.D., M.S. Des Plaines, IL
 Tyler R. McCarroll, M.D. Des Plaines, IL
 Yasemin E. Kingham, B.A. Des Plaines, IL
 Ady H. Kahana-Rojkind, M.D. Des Plaines, IL
 Roger Quesada-Jimenez, M.D. Des Plaines, IL
 Ali Parsa, M.D. Des Plaines, IL
 Veer Shah, M.D. Des Plaines, IL
 Benjamin G. Domb, M.D. Des Plaines, IL
24. **Spine-Abductor Syndrome: Novel Associations Between Lumbar Spine Disease and Hip Gluteal Muscle Pathology**
 *Monish S. Lavu, MHM Cleveland, OH
 Christian J. Hecht II, B.S. Cleveland, OH
 David C. Kaelber, M.D., Ph.D., MPH Cleveland, OH
 George Grammatopolous, MBBS DPhil FRCS Ottawa, Ontario
 Yasuhiro Homma, M.D. Ph.D. Tokyo, Japan
 Atul F. Kamath, M.D., MBA Cleveland, OH
25. **Contemporary Glucagon-like Peptide-1 (GLP-1) Receptor Agonists: What is the Impact on Hip and Knee Osteoarthritis Onset, Severity, and Conversion to Arthroplasty?**
 *Joshua R. Porto, M.S. Cleveland, OH
 Monish S. Lavu, MHM Cleveland, OH
 Christian J. Hecht II, B.S. Cleveland, OH
 David C. Kaelber, M.D., Ph.D., MPH Cleveland, OH
 Peter K. Sculco, M.D. Cleveland, OH
 Nathanael D. Heckmann, M.D. Los Angeles, CA
 Atul F. Kamath, M.D., MBA Cleveland, OH
26. **Impact of Surgical Sequence on THA-Related Complication Rates in Hip-Spine Syndrome: A Comparative Analysis of Lumbar Fusion and Total Hip Arthroplasty**
 *Ryan Lee Chicago, IL
 Makenna Isley Chicago, IL
 Brett Drake Peoria, IL
 Nirav Mungalpara, M.D. MRCS Chicago, IL
 Apurva Swapnill Choubey, M.D. Chicago, IL
 Mark H. Gonzalez, M.D. Chicago, IL

27. **ChatGPT is a Suitable Option for Common Patient Questions Regarding Total Joint Arthroplasty**
- | | |
|---------------------------|-------------|
| *Noah Hudson, M.D. | Detroit, MI |
| Hamza Raja, B.S. | Detroit, MI |
| Idris Nagarwala B.S. | Detroit, MI |
| Hamza Kanchwala B.S. | Detroit, MI |
| Michael A. Charters, M.D. | Detroit, MI |
| Wayne T. North, M.D. | Detroit, MI |
28. **Can EOAP After TJA Decrease Risk for PJI in Patients Receiving Non-Cephalosporin Prophylaxis?**
- | | |
|----------------------------|------------------|
| *Sarah T. Levey, M.D. | Indianapolis, IN |
| Michael M. Kheir, M.D. | Ann Arbor, MI |
| Evan R. Deckard, B.S.E | Indianapolis, IN |
| R. Michael Meneghini, M.D. | Indianapolis, IN |
29. **Revision Total Hip Replacement in Geriatric Patients Compared to a Matched Cohort of Younger Patients**
- | | |
|------------------------|------------|
| Mikaela Bankston, B.S. | Dallas, TX |
| *Harold G. Moore, M.D. | Dallas, TX |
| Garen A. Collett, M.D. | Dallas, TX |
| Michael H. Huo, M.D. | Dallas, TX |
30. **Primary THA in Patients Less Than 30: Durable But Not Free of Complications**
- | | |
|------------------------------|---------------|
| *Diego J. Restrepo, M.D. | Rochester, MN |
| Sergio F. Guarin Perez, M.D. | Rochester, MN |
| Breydan H. Wright, M.D. | Rochester, MN |
| Robert T Trousdale, M.D. | Rochester, MN |
| Daniel J. Berry, M.D. | Rochester, MN |
| David G. Lewallen, M.D. | Rochester, MN |
| Rafael J. Sierra, M.D. | Rochester, MN |
31. **Gluteal Tendon Pathology in Patients Undergoing Primary Total Hip Arthroplasty: A Magnetic Resonance Imaging-Based Analysis of Prevalence and Patient-Reported Outcomes**
- | | |
|-------------------------------|------------------|
| *Samuel S. Rudisill, M.D. | Rochester, MN |
| Sean C. Clark, M.S. | Rochester, MN |
| Jacob J. Schaefer, M.D. | Rochester, MN |
| Christopher V. Nagelli, Ph.D. | Rochester, MN |
| Luke S. Spencer-Gardner, M.D. | Jacksonville, FL |
| Cory G. Couch, M.D. | Rochester, MN |
| Naveen S. Murthy, M.D. | Rochester, MN |
| Michael J. Taunton, M.D. | Rochester, MN |
| Mario Hevesi, M.D., Ph.D. | Rochester, MN |

32. **The Impact of Preoperative Weight Loss Timing on Total Hip Arthroplasty**
 *Michael W. Seward, M.D. Rochester, MN
 Jessica A. Grimm, M.S. Rochester, MN
 Charles P. Hannon, M.D. Rochester, MN
 Nicholas A. Bedard, M.D. Rochester, MN
 Daniel J. Berry, M.D. Rochester, MN
 Matthew P. Abdel, M.D. Rochester, MN
33. **Assessing the Impact of GLP-1 Therapy on Total Hip Arthroplasty Outcomes**
 *Nasiruddin Shaik, B.S. Chicago, IL
 Apurva S. Choubey, M.D. Chicago, IL
 Nezar Abunnur, B.S. Chicago, IL
 Mudassir Khan, B.S. Chicago, IL
 Brett Drake, B.S. Chicago, IL
 Nirav Mungalpara, M.D. Chicago, IL
 Jibreel Hussain, MBA Chicago, IL
 Yasser R. Farid, M.D., Ph.D. Chicago, IL
34. **Should Patients with BMI Over 40 Be Prohibited From THA and TKA in an Ambulatory Surgery Center?**
 *Sarah T. Levey, M.D. Indianapolis, IN
 Kevin A. Sonn, M.D. Indianapolis, IN
 Evan R. Deckard, B.S.E Indianapolis, IN
 R. Michael Meneghini, M.D. Indianapolis, IN
35. **Intraosseous Vancomycin Is Safe and Effective in Primary Total Hip Arthroplasty**
 *Kwan J. Park, M.D. Houston, TX
 Charles M. Granade, M.D. Houston, TX
 Thomas C. Sullivan, B.S. Houston, TX
 Bradley S. Lambert, Ph.D. Houston, TX
 Timothy S. Brown, M.D. Houston, TX
 Stephen J. Incavo, M.D. Houston, TX
 Terry A. Clyburn, M.D. Houston, TX
36. **Conversion of Prior Surgically Fused Hips to Uncemented Total Hip Arthroplasties**
 *William H. Trousdale, M.D. Rochester, MN
 Anthony Viste, M.D. Lyon, France
 Rafael J. Sierra, M.D. Rochester, MN
 Kevin I. Perry, M.D. Rochester, MN
 Daniel J. Berry, M.D. Rochester, MN
 Matthew P. Abdel, M.D. Rochester, MN

37. **Comparing Outcomes After Cemented and Cementless Total Hip Arthroplasty**

Phillip Vartanyan, M.D.	Royal Oak, MI
Ali Omari, M.D.	Royal Oak, MI
James Feng, M.D.	Royal Oak, MI
Eli Auch, M.D.	Royal Oak, MI
Alex Miller, M.D.	Royal Oak, MI
*Julia LaMonica, M.D.	Royal Oak, MI
Drew Moore, M.D.	Royal Oak, MI
Hassan Alish, M.D.	Royal Oak, MI
Mark Karadsheh, M.D.	Royal Oak, MI

38. **Custom Triflange Components in Revision Total Hip Arthroplasty: 20% Re-Revision Rate at 5 Years**

Matthew T. Weintraub, M.D.	Rochester, MN
*Matthew L. Hadley, M.D.	Rochester, MN
Nicholas A. Bedard, M.D.	Rochester, MN
Matthew P. Abdel, M.D.	Rochester, MN
Michael J. Taunton, M.D.	Rochester, MN
Charles P. Hannon, M.D., MBA	Rochester, MN

39. **Patient Demographics are Associated with Patient-Reported Scores in Primary Total Hip Arthroplasty**

*George E. Yacoub, B.A.	Ann Arbor, MI
Zhaorui Wang, M.D.	Ann Arbor, MI
Ramzy Meremikwu, M.D.	Ann Arbor, MI
Michelle S. Caird, M.D.	Ann Arbor, MI
Michael M. Kheir, M.D.	Ann Arbor, MI

KNEE ARTHROPLASTY

40. **Mid-Term Clinical Outcomes in Revision Total Knee Arthroplasty for Flexion Instability**

*Luke R. Lovro, M.D.	Indianapolis, IN
Cooper R. Parish, B.S.	Indianapolis, IN
Leonard T. Buller, M.D.	Indianapolis, IN
Evan R. Deckard, B.S.E	Indianapolis, IN
R. Michael Meneghini, M.D.	Indianapolis, IN

41. **Preoperative Gait Kinematics May Impact Total Knee Arthroplasty Outcomes: Insight on Bearing Design**
- | | |
|----------------------------|------------------|
| *Remi Courteille, M.ScA | Quebec, Canada |
| Evan R. Deckard, B.S.E | Indianapolis, IN |
| Alix Cagnin, M.S.cA | Quebec, Canada |
| Alex Fuentes, Ph.D. | Quebec, Canada |
| Nicola Hagemeister, Ph.D. | Quebec, Canada |
| Laurence Chèze, Ph.D. | Lyon, France |
| Scott A. Banks, Ph.D. | Gainesville, FL |
| Leonard T. Buller, M.D. | Indianapolis, IN |
| R. Michael Meneghini, M.D. | Indianapolis, IN |
42. **Improvement in PROMs After Revision TKA is Comparable to Primaries in Some Diagnoses, But Not Others**
- | | |
|----------------------------|------------------|
| *Austin Darden, B.S. | Indianapolis, IN |
| Evan R. Deckard, B.S.E | Indianapolis, IN |
| R. Michael Meneghini, M.D. | Indianapolis, IN |
43. **Pivot Motion After Conforming Bearing Total Knee Arthroplasty: Association of PCL Status and PROMS**
- | | |
|----------------------------|------------------|
| *Remi Courteille, M.S.cA | Quebec, Canada |
| Evan R. Deckard, B.S.E | Indianapolis, IN |
| Alix Cagnin, M.ScA | Quebec, Canada |
| Nicola Hagemeister, Ph.D. | Quebec, Canada |
| Laurence Chaze, Ph.D. | Lyon, France |
| Scott A. Banks, Ph.D. | Gainesville, FL |
| Leonard T. Buller, M.D. | Indianapolis, IN |
| R. Michael Meneghini, M.D. | Indianapolis, IN |
44. **Trends in Payments for Ambulatory Surgery Center Facility Fees and Surgeon Professional Fees for Hip and Knee Arthroplasty**
- | | |
|----------------------------|-------------|
| *Enrico M. Forlenza, M.D. | Chicago, IL |
| Alexander J. Acuña, M.D. | Chicago, IL |
| Vincent P. Federico, M.D. | Chicago, IL |
| Conor M. Jones, M.D. | Chicago, IL |
| Denis Nam, M.D., M.Sc | Chicago, IL |
| Craig J. Della Valle, M.D. | Chicago, IL |
45. **Examining the Efficacy of Intraoperative Augmented Reality in Enhancing Outcomes After Primary Total Knee Arthroplasty**
- | | |
|--------------------------|---------------|
| *Austin F. Grove | Rochester, MN |
| Elizabeth S. Kaji | Rochester, MN |
| Brett Bukowski, M.D. | Rochester, MN |
| Kellen Mulford, Ph.D. | Rochester, MN |
| Dirk R. Larson, M.S. | Rochester, MN |
| Michael J. Taunton, M.D. | Rochester, MN |

46. **Undernourished and Overlooked: Nutritional Competency and Postoperative Complications in Underweight Patients Undergoing Total Knee Arthroplasty**
 *Jibreel Hussain, MBA Chicago, IL
 Nezar Abunnur, B.S. Chicago, IL
 Apurva Choubey, M.D. Chicago, IL
 Brett Drake, B.S. Chicago, IL
 Nasiruddin Shaik, B.S. Chicago, IL
 Esa Syed, B.S. Chicago, IL
 Malyika Hussain, AS Chicago, IL
 Nirav Mungalpara, M.D. Chicago, IL
 Mark Gonzalez, M.D., Ph.D. Chicago, IL
47. **Identification of Compounding and Mitigating Risk Factors for Postoperative Total Knee Arthroplasty Revisions in Patients with Elevated Body Mass Index: An Analysis of 357,860 Patients**
 *Benjamin Johnson, B.S. Chicago, IL
 Brett Drake, B.S. Chicago, IL
 Apurva Choubey, M.D. Chicago, IL
 Nirav Mungalpara, M.D. Chicago, IL
 Mahveen Jahan, MPH Chicago, IL
 Mark Gonzalez, M.D., Ph.D. Chicago, IL
48. **Efficacy of A Vancomycin/Tobramycin-Doped Dicalcium Phosphate Dehydrate (P-DCPD) Composite in A Mouse Pouch infection Model Implanted with 3D-Printed Porous Titanium Cylinders**
 *Adam J. Miller, M.D. Southfield, MI
 Michael H. Kaminski Grand Rapids, MI
 Therese Bou-Akl, M.D., Ph.D. Southfield, MI
 Paula Dietz, M.S. Southfield, MI
 David C. Markel, M.D. Novi, MI
49. **Effect of Tibial Slope on Knee Mechanics for PCL Deficient Cruciate-Retaining Total Knee Arthroplasty**
 *Adrian Olson, D.O. Warren, MI
 Kyle Snethen, Ph.D. Warsaw, IN
 Eik Sigglekow Winterthur, Switzerland
 Marc Bandi Winterthur, Switzerland
 Craig Silverton, D.O. Detroit, MI
 Nicholas Frisch, M.D., MBA Rochester Hills, MI
50. **Superior Clinical Results with Intraosseous Vancomycin in Primary Total Knee Arthroplasty**
 *Kwan J. Park, M.D. Houston, TX
 Austin E. Wininger, M.D. Houston, TX
 Thomas C. Sullivan, B.S. Houston, TX
 Blesson Varghese, B.S. Houston, TX

Terry A. Clyburn, M.D. Houston, TX
Stephen J. Incavo, M.D. Houston, TX

51. **Conversion TKA with Pre-Existing Hardware: Lower Survivorship and More Complications**

*Andrew D. Pumford, B.A. Rochester, MN
Harold I. Salmons, M. D. Rochester, MN
Mark W. Pagnano, M.D. Rochester, MN
Nicholas A. Bedard, M.D. Rochester, MN
Matthew P. Abdel, M.D. Rochester, MN
Charles P. Hannon, M.D., MBA Rochester, MN

52. **Stacked Cones for Treatment of Massive Bone Loss in Revision TKA: 50% Reoperation Rate at 5 Years**

*Andrew D. Pumford, B.A. Rochester, MN
Breydan H. Wright, M.D. Rochester, MN
Nicholas A. Bedard, M.D. Rochester, MN
Cody C. Wyles, M.D. Rochester, MN
Matthew P. Abdel, M.D. Rochester, MN
Charles P. Hannon, M.D., MBA Rochester, MN

53. **Mid-Term Outcomes After Contemporary Cementless vs. Cemented Primary TKA: Some Subtle Differences**

*Harold I. Salmons, M.D. Rochester, MN
Michael W. Seward, M.D. Rochester, MN
Caden J. Messer, B.S. Rochester, MN
Nicholas A. Bedard, M.D. Rochester, MN
Michael J. Taunton, M.D. Rochester, MN
Kevin I. Perry, M.D. Rochester, MN
Mark W. Pagnano, M.D. Rochester, MN
Robert T. Trousdale, M.D. Rochester, MN
Cody C. Wyles, M.D. Rochester, MN

54. **Multicenter Randomized Clinical Trial of HXLPE vs. Conventional PE in 500 Primary TKAs at 10 Years**

*Harold I. Salmons, M.D. Rochester, MN
Dirk R. Larson, M.S. Rochester, MN
Cedric J. Ortiguera, M.D. Jacksonville, FL
Henry D. Clarke, M.D. Phoenix, AZ
Mark J. Spangehl, M.D. Phoenix, AZ
Mark W. Pagnano, M.D. Rochester, MN
Michael J. Stuart, M.D. Rochester, MN
Matthew P. Abdel, M.D. Rochester, MN

55. **Does Robotic TKA Planning with Non-Weightbearing CT Translate to Postoperative Weightbearing Images?**
 *Maria T. Schwabe, M.D., M.P.H.S St. Louis, MO
 Caroline J. Granger, M.D. St. Louis, MO
 Ryan M. Nunley, M.D. St. Louis, MO
 Robert L. Barrack, M.D. St. Louis, MO
 Charles P. Hannon, M.D., M.B.A Rochester, MN
56. **Epidemiology of Periprosthetic Fracture in 6,582 Revision TKAs Over 50 Years**
 *Nicolas A. Selemon, M.D. Rochester, MN
 Ahmadreza Nezameslami, M.D. Rochester, MN
 Nicholas A. Bedard, M.D. Rochester, MN
 Henry D. Clarke, M.D. Phoenix, AZ
 Bryan D. Springer, M.D. Jacksonville, FL
 Daniel J. Berry, M.D. Rochester, MN
 Matthew P. Abdel, M.D. Rochester, MN
 Charles P. Hannon, M.D., MBA Rochester, MN
57. **Valgus vs. Varus Knees: What's the Difference?**
 *Timothy S. Brown, M.D. Houston, TX
 Jennifer Liu, M.D. Houston, TX
 Thomas C. Sullivan, B.S. Houston, TX
 Haitham K. Awdeh, M.D. Houston, TX
 Kwan J. Park, M.D. Houston, TX
 Terry A. Clyburn, M.D. Houston, TX
 Stephen J. Incavo, M.D. Houston, TX
58. **DAIR for Acute PJI: Results of 168 Primary TKAs at Extended Follow-up of 5 Years**
 *E. Bailey Terhune, M.D. Rochester, MN
 Khaled A. Elmenawi, M.D. Rochester, MN
 Jessica A. Grimm, M.S. Rochester, MN
 Charles P. Hannon, M.D., MBA Rochester, MN
 Nicholas A. Bedard, M.D. Rochester, MN
 Elie F. Berbari, M.D. Rochester, MN
 Daniel J. Berry, M.D. Rochester, MN
 Matthew P. Abdel, M.D. Rochester, MN
59. **Failure of Manipulation Under Anesthesia with or without Lysis of Adhesions After Primary Total Knee Arthroplasty**
 *Justin M. Walsh, M.D. Houston, TX
 Thomas C. Sullivan, B.S. Houston, TX
 Blesson Varghese, B.S. Houston, TX
 Karen L. Hernandez, B.S. Houston, TX
 Stephen J. Incavo, M.D. Houston, TX
 Timothy S. Brown, M.D. Houston, TX
 Kwan J. Park M.D. Houston, TX

60. **Tibial Tubercle Osteotomy in Revision Total Knee Arthroplasty: High Re-Revision Rate**
 *Matthew T. Weintraub, M.D. Rochester, MN
 Nicholas A. Bedard, M.D. Rochester, MN
 Mark J. Spangehl, M.D. Rochester, MN
 Matthew P. Abdel, M.D. Rochester, MN
 Rafael J. Sierra, M.D. Rochester, MN
 Charles P. Hannon, M.D., MBA Rochester, MN
61. **Cementless vs. Cemented Robotic-Assisted Total Knee Arthroplasty Outcomes: A Single Center MARCQI-Based Study**
 *Alexander Ziedas, M.D. Southfield, MI
 Simarjeet Puri, M.D. Southfield, MI
 Michael Laker, M.D. Southfield, MI
 William Kesto, M.D. Southfield, MI
 Jefferey Michaelson, M.D. Southfield, MI
 David Knesek, M.D. Southfield, MI
 Todd Frush, M.D. Southfield, MI
 David Markel, M.D. Southfield, MI

ONCOLOGY

62. **Arthroscopic vs. Open Excision for Tenosynovial Giant Cell Tumor of the Knee**
 *Emmett Cleary, M.D. Rochester, MN
 Charles Holliday, M.D. Rochester, MN
 Christopher Camp, M.D. Rochester, MN
 Matthew Houdek, M.D. Rochester, MN

OTHER

63. **Opioid Sparing and Analgesic Efficacy of Metamizole After Orthopedic Surgery: A Systematic Review**
 *Michael Braman, BBmE Kansas City, KS
 Collin Freking, B.S. Kansas City, KS
 Laura Jackson, Ph.D. Kansas City, KS
 Johnathan Dallman, M.D. Kansas City, KS
 Archie Heddings, M.D. Kansas City, KS

64. **Changes in Resting Energy Expenditure After Skeletal Trauma and Orthopedic Surgery: A Scoping Review**
- | | |
|---------------------------|-----------------|
| *Michael Braman, BBmE | Kansas City, KS |
| Nicholas Dombrowski, B.S. | Kansas City, KS |
| Ian Harmon, M.D. | Kansas City, KS |
| Rachel Long, B.S. | Kansas City, KS |
| Sara Arnold, M.S. | Kansas City, KS |
| Matthew Freeman, M.D. | Kansas City, KS |
| Ashley Herda, Ph.D. | Kansas City, KS |
| Lisa Vopat, M.D. | Kansas City, KS |
| Bryan Vopat, M.D. | Kansas City, KS |
65. **Efficacy of Commercial Irrigation Solutions in a Rat Titanium Cylinder Implant Infection Model**
- | | |
|------------------------|----------------|
| *Jake D. Foote, M.D. | Southfield, MI |
| Adam Miller, M.D. | Southfield, MI |
| Harjot Uppal, M.D. | Southfield, MI |
| Thomas Z. Paull, M.D. | Southfield, MI |
| Paula Pawlitz, M.S. | Southfield, MI |
| Therese Bou-Akl, Ph.D. | Southfield, MI |
| David C. Markel, M.D. | Novi, MI |
66. **Trends in Orthopedic Surgeon Compensation: A Comparative Analysis over Twenty Years**
- | | |
|-------------------------------|----------------------|
| Daniel E Pereira, M.D. | St Louis, MO |
| Charles P Hannon, M.D. MBA | Rochester, MN |
| P. Maxwell Courtney, MND | Philadelphia, PA |
| Adam J Rana, M.D. | Portland, Main |
| *Nicholas B Frisch, M.D., MBA | Bloomfield Hills, MI |
67. **Hyperglycemia and Osteoblast Function: Implications for Bone Health in Diabetics**
- | | |
|-----------------------|---------------|
| *Kyra Grove, B.S. | Kalamazoo, MI |
| Mitchell Kenter, M.S. | Kalamazoo, MI |
| Keith Kenter, M.D. | Kalamazoo, MI |
| Adil Akkouch, Ph.D. | Kalamazoo, MI |
68. **Changes in Orthopedic Prescribing Patterns of Gabapentin Associated with State Prescribing Restrictions: A Large Database Study**
- | | |
|------------------------------|---------------|
| Maura R. Guyler, B.A. | Cleveland, OH |
| *Christian J. Hecht II, B.S. | Cleveland, OH |
| Joshua R. Porto, M.S. | Cleveland, OH |
| Atul F. Kamath, M.D., MBA | Cleveland, OH |

69. **Orthopedic Surgery <50 Days Following COVID-19 Infection is Not Associated with Increased Postoperative Complications**
 Katelyn T. Koschmeder, M.D. Iowa City, IA
 John Adam Driscoll, M.D. Iowa City, IA
 Taylor Den Hartog, M.D. Iowa City, IA
 Brendan Patterson, M.D. Iowa City, IA
 Catherine Olinger, M.D. Iowa City, IA
 *Nicolas O. Noiseux, M.D., M.S., FRCSC Iowa City, IA
70. **Analysis of Female Medical Student Matriculation into Orthopedic Surgery Nationally**
 *Annemarie Leonard, M.D. Omaha, NE
 Frances Akwuole Chicago, IL
 Thomas Leonard Maywood, IL
 Mazie Atteberry Omaha, NE
 Sara Putnam, M.D. Omaha, NE
71. **The Patient Perspective of the Impact of Mental Health and Orthopedic Injuries**
 *Michael A. Gaudiani, M.D. Detroit, MI
 Noah K. Elagamy, M.D. Detroit, MI
 Kamran Haq, M.D. Detroit, MI
 Zahin Hussain, M.D. Detroit, MI
 Cal Riutta, M.D. Detroit, MI
 Eric C. Makhni, M.D. Detroit, MI
72. **Intraoperative Cardiac Arrest in Orthopedics**
 *Aleksander P. Mika, M.D. Nashville, TN
 Brandon Ponce, M.D. Nashville, TN
 Sean Wrenn, M.D. Nashville, TN
 Daniel Stinner, M.D., Ph.D. Nashville, TN
 Joshua Lawrenz, M.D. Nashville, TN
 Phillip P. Mitchell, M.D. Nashville, TN
73. **Cost Analysis of Surgical Scrub Options at a Level I Trauma Center: A 2022 Review**
 *Hamza M. Raja, B.S. Detroit, MI
 Nicholas I. Chiaramonti, M.S. Detroit, MI
 Batul Shakir, B.S. Detroit, MI
 Lindsay Maier, M.D. Detroit, MI
 Stuart T. Guthrie, M.D. Detroit, MI
 William Hakeos, M.D. Detroit, MI
 Joseph Hoegler, M.D. Detroit, MI

74. **Incidence of Allergic Contact Dermatitis to Dermabond™ Prineo™ in Total Joint Arthroplasty**

Richard S. Fuld	Houston, TX
Thomas C. Sullivan, B.S.	Houston, TX
Robert S. Neff, M.D.	Houston, TX
Terry A. Clyburn, M.D.	Houston, TX
Kwan J. Park, M.D.	Houston, TX
*Timothy S. Brown, M.D.	Houston, TX

PEDIATRICS

75. **Machine Learning Identification of FAI and DDH**

*Lainey G. Bukowiec, M.D.	Rochester, MN
Bardia Khosravi, M.D., MPH, MHPE	New Haven, CT
Austin F. Grove	Rochester, MN
John P. Mickley, M.D.	Jacksonville, FL
Emmanouil Grigoriou, M.D.	Rochester, MN
Michael J. Taunton, M.D.	Rochester, MN
Cody C. Wyles, M.D.	Rochester, MN

SHOULDER & ELBOW

76. **Recurrence Rates and Outcomes of Shoulder Stabilization Surgery in Patients with Depression**

*Benjamin L. Brej, B.S.	Columbus, OH
Collin Todd, B.S.	Columbus, OH
Brent Henderson, BA	Columbus, OH
George Matta, B.S.	Columbus, OH
Erryk S. Katayama, BA	Columbus, OH
Louis W. Barry, B.S.	Columbus, OH
Grant Jones, M.D.	Columbus, OH
Ryan C. Rauck, M.D.	Columbus, OH
Gregory Cvetanovich, M.D.	Columbus, OH
Julie Y. Bishop, M.D.	Columbus, OH

77. **Blueprint Templating Software Does Not Predict Postoperative Active Range of Motion or Patient-Reported Outcomes After Reverse Total Shoulder Arthroplasty**

Amir Boubekri, M.D.	Maywood, IL
Michael Murphy, M.D.	Maywood, IL
Krishin Shivdasani, M.D., M.P.H.	Maywood, IL
Michael Scheidt, M.D.	Maywood, IL
Andrew Chen, M.D.	Maywood, IL
Nickolas Garbis, M.D.	Maywood, IL
Dane Salazar, M.D., M.B.A.	Maywood, IL
*Thomas G. Stanila, M.D.	Maywood, IL

78. **Artificial Intelligence Machine Learning Algorithms vs. Traditional Linear Demographic Analysis in Predicting Component Size of Anatomic and Reverse Total Shoulder Arthroplasty**
- | | |
|----------------------------------|-------------|
| Amir Boubekri, M.D. | Maywood, IL |
| Michael Murphy, M.D. | Maywood, IL |
| Michael Scheidt, M.D. | Maywood, IL |
| Krishin Shivdasani, M.D., M.P.H. | Maywood, IL |
| Joshua Anderson, B.S. | Maywood, IL |
| Andrew Chen, M.D. | Maywood, IL |
| Nickolas Garbis, M.D. | Maywood, IL |
| Dane Salazar, M.D., M.B.A. | Maywood, IL |
| *Thomas G. Stanila, M.D. | Maywood, IL |
79. **Evaluation of Racial/Ethnic Concordance of NBA and MLB Players and Team Physicians**
- | | |
|----------------------------------|-------------|
| Krishin Shivdasani, M.D., M.P.H. | Maywood, IL |
| *Andrew Gaetano, B.S. | Maywood, IL |
| Andrew Chen, M.D. | Maywood, IL |
| Nickolas Garbis, M.D. | Maywood, IL |
| Dane Salazar, M.D., M.B.A. | Maywood, IL |
80. **Outcomes of Shoulder Arthroplasty Revision Following Infection**
- | | |
|---------------------------|--------------|
| *Brent Henderson, B.A. | Columbus, OH |
| George Matta, B.S. | Columbus, OH |
| Louis W. Barry, B.S. | Columbus, OH |
| Erryk Katayama, B.A. | Columbus, OH |
| John S. Barnett, B.S. | Columbus, OH |
| Ryan Rauck, M.D. | Columbus, OH |
| Julie Y. Bishop, M.D. | Columbus, OH |
| Gregory Cvetanovich, M.D. | Columbus, OH |
81. **Radiographic Analysis of Total Shoulder Arthroplasty Using a Single Inferior Subscapularis-Sparing Approach**
- | | |
|-----------------------|----------|
| *Adam J. Miller, M.D. | Novi, MI |
| Rishi Chatterji, M.D. | Novi, MI |
| Diana R. Silas, DO | Novi, MI |
| Sean F. Bak, M.D. | Novi, MI |
82. **Ceramic Bearing Surfaces Are a Viable Option for Shoulder Arthroplasty**
- | | |
|-------------------------|----------------|
| *Chandler Harris, B.S. | Birmingham, AL |
| Saad M. Ibrahim, B.S. | Birmingham, AL |
| Mathew Hargreaves, B.S. | Birmingham, AL |
| Clay Rahaman, B.A. | Birmingham, AL |
| Maxwell Harrell, B.S. | Birmingham, AL |
| Aaron J. Casp, M.D. | Birmingham, AL |
| Thomas Evely, D.O. | Birmingham, AL |

- | | | |
|------------|---|----------------|
| | Amit M. Momaya, M.D. | Birmingham, AL |
| | Eugene W. Brabston, M.D. | Birmingham, AL |
| 83. | Uncemented vs. Cemented Humeral Fixation in Reverse Shoulder Arthroplasty for Proximal Humerus Fractures in the Elderly: A Multicenter Retrospective Cohort Study | |
| | *Johnny Kasto, M.D. | Detroit, MI |
| | Thomas Throckmorton, M.D. | Detroit, MI |
| | Tyler Brolin, M.D. | Detroit, MI |
| | Mike Kim, M.D. | Detroit, MI |
| | Curtis Noel, M.D. | Detroit, MI |
| | J Michael Wiater, M.D. | Detroit, MI |
| | Thomas Wright, M.D. | Detroit, MI |
| | Stephanie Muh, M.D. | Detroit, MI |
| 84. | Timing from Diagnostic Imaging to Rotator Cuff Repair is Not Associated with Differences in Patient-Reported Outcomes at One-year Follow-Up | |
| | *Nathan Li, B.S | Detroit, MI |
| | Era Cobani, B.S. | Detroit, MI |
| | Josh Castle, M.D. | Detroit, MI |
| | Julio Nerys-Figueroa, B.S. | Detroit, MI |
| | Alexander Jurayj, B.A. | Detroit, MI |
| | Johnny Kasto, M.D. | Detroit, MI |
| | Jaren Mahylis, M.D. | Detroit, MI |
| | Stephanie Muh, M.D. | Detroit, MI |
| 85. | The Relationship Between Shoulder Arthroscopic Compartment Pressure Change, Operative Variables, and Early Postoperative Pain | |
| | *Cassandra Keinath, M.D. | Detroit, MI |
| | Julio Nerys-Figueroa, B.S. | Detroit, MI |
| | Michelle Hertzberg, M.D. | Detroit, MI |
| | Alexander Jurayj, B.A. | Detroit, MI |
| | Johnny Kasto, M.D. | Detroit, MI |
| | Nathan Li, B.S. | Detroit, MI |
| | Christopher Nikolopoulos, B.S. | Detroit, MI |
| | Jordan Akins, B.S. | Detroit, MI |
| | Stephanie Muh, M.D. | Detroit, MI |
| 86. | A Comparative Biomechanical Study of Superior Capsular Reconstruction (SCR) and Lower Trapezius Tendon Transfer (LTT) in Massive Rotator Cuff Tear Using a Novel Shoulder Testing System | |
| | *Nirav K. Mungalpara, M.D., MRCS | Chicago, IL |
| | Sunjung Kim, Ph.D. | New York, NY |
| | Hayden Baker, M.D. | Chicago, IL |
| | Cody Lee, M.D. | Chicago, IL |
| | Ashish Shakya, M.S. | Chicago, IL |
| | Kevin Chen, B.A. | Chicago, IL |
| | Nicholas H. Maassen, M.D. | Chicago, IL |

Aravind Athrivorham, M.D.	Chicago, IL
Jason Koh, M.D.	Chicago, IL
Bassem Elhassan, M.D.	Boston, MA
Farid Amirouche, Ph.D.	Chicago, IL

87. The Impact of Health Literacy on Outcomes After Shoulder Arthroplasty

*Andrew Nahr M.D.	Memphis, TN
Tanner Poppe M.D.	Memphis, TN
Capi Rivera, B.S.	Memphis, TN
Derek Dixon B.S.	Memphis, TN
Tyler J. Brolin, M.D.	Memphis, TN
Thomas W. Throckmorton, M.D.	Memphis, TN
David L. Bernholt, M.D.	Memphis, TN

88. Comparing Patient-Reported Outcomes in Cubital Tunnel Syndrome: Novel Two-Incision Technique vs. Open Ulnar Nerve Release

*Sanders S. Salomon	Chicago, IL
Daniyal A. Mehmood	Rockford, IL
Apurva Choubey, M.D.	Chicago, IL
Brett Drake, B.S.	Chicago, IL
Nirav Mungalpara, M.D.	Chicago, IL
Mark Gonzalez, M.D., Ph.D.	Chicago, IL

SPINE

89. Does Lumbar Lordosis Distribution Impact Outcomes After Lumbar Fusion Surgery?

*Parker Brush, M.D.	Springfield, IL
Emily Ducaji, B.S.	Springfield, IL
D. Gordon Allan, M.D.	Springfield, IL

90. Predictors of Academic Career Trajectory Based on Spine Fellows Applications

*Hannah A. Levy, M.D.	Rochester, MN
Payton Boere, M.D.	New York City, NY
John Paulik, B.S.	Philadelphia, PA
John Bodnar, M.S.	Philadelphia, PA
Ahmad Nassr, M.D.	Rochester, MN
Brett Freedman, M.D.	Rochester, MN
Arjun Sebastian, M.D.	Rochester, MN
Darrel Brodke, M.D.	Salt Lake City, UT
Alan Hilibrand, M.D.	Philadelphia, PA
Brian Karamian, M.D.	Salt Lake City, UT

91. The Hospital Frailty Risk Score and Risk Stratification for Anterior Cervical Discectomy and Fusion

*Blair Peterson, B.S.	San Antonio, TX
Aaron Singh, BA	San Antonio, TX

Travis Kotzur, B.S.
Chimboi Emukah, M.D.
Ezekial Koslosky, M.D.
Christopher Chaput, M.D.

San Antonio, TX
San Antonio, TX
San Antonio, TX
San Antonio, TX

92. **Radiographic and Clinical Outcomes After Posterior Cervical Fusion are Similar with Upper-Level Instrumentation at C2 vs. C3 for Cervical Spondylotic Myelopathy**
 *Mark A. Plantz, M.D. Chicago, IL
 Joseph Weiner, M.D. Kansas City, KS
 Tyler Compton, M.D. Chicago, IL
 Jeremy Marx, M.D. Chicago, IL
 Erik B. Gerlach, M.D. Chicago, IL
 Peter R. Swiatek, M.D. Philadelphia, PA
 Srikanth Divi, M.D. Chicago, IL
 Alpesh A. Patel, M.D., MBA Chicago, IL
 Wellington K. Hsu, M.D. Chicago, IL
93. **A Comparison of Charlson Comorbidity, Elixhauser Comorbidity, Frailty Indices to Predict Outcomes Following Anterior Cervical Discectomy and Fusion**
 *Aaron Singh San Antonio, TX
 Travis Kotzur San Antonio, TX
 Blaire Peterson San Antonio, TX
 Chimobi Emukah, M.D. San Antonio, TX
 Ezekial Koslosky, M.D. San Antonio, TX
 Christopher Chaput, M.D. San Antonio, TX
94. **A Multidisciplinary Protocol for Decreasing Door Openings in Elective Spine Surgery Operating Rooms**
 Parker Chrisler, B.S. Madison, WI
 *Rachael Tolsma, M.D. Madison, WI
 Seth Williams, M.D. Madison, WI
 Paul S. Whiting, M.D. Madison, WI

SPORTS/ARTHROSCOPY

95. **Risk of Anchor Convergence During Combined Gluteus Medius and Minimus Repair**
 *Christian N. Anderson, M.D. Nashville, TN
96. **Tensioning Device for Glenoid Suture Fixation**
 *Allen A. Yazdi, B.S. Birmingham, AL
 Kyle Paul, M.D. San Antonio, TX
 David M. Sylvester, B.S. Birmingham, AL
 Mathew Hargreaves, B.S. Birmingham, AL
 Maxwell Harrell, B.S. Birmingham, AL
 Clay Rahaman, B.A. Birmingham, AL
 Marshall D. Williams, M.D. Columbus, GA
 Amit M. Momaya, M.D. Birmingham, AL
 Eugene W. Brabston, M.D. Birmingham, AL
 Brent A. Ponce, M.D. Birmingham, AL

97. **Arthroscopic Treatment of Hip Labral Tears and Femoroacetabular Impingement in Young Adults: Above 90% Survivorship at 10-Year Follow-Up**
 *Benjamin G. Domb, M.D. Des Plaines, IL
 Rachel E. Bruning, B.S. Des Plaines, IL
 Andrew J. Curley, M.D. Des Plaines, IL
 Andrew D. Carbone, M.D. Des Plaines, IL
 Ali Parsa, M.D. Des Plaines, IL
98. **Is Periacetabular Osteotomy with Hip Arthroscopy Superior to Periacetabular Osteotomy Alone? A Systematic Review and Meta-Analysis**
 *Sean C. Clark, M.S. Rochester, MN
 Jason G. Ina, M.D. Rochester, MN
 Christopher V. Nagelli Rochester, MN
 Xuankang Pan, B.S. Rochester, MN
 Karrisa N. Simon, B.S. Rochester, MN
 Louis S. Kang, B.S. Rochester, MN
 Sanathan Iyer, B.S. Rochester, MN
 Gavin H. Ward, B.S. Rochester, MN
 Brandon C. Cabarcas Rochester, MN
 Rafael J. Sierra, M.D. Rochester, MN
 Mario Hevesi, M.D., Ph.D. Rochester, MN
99. **Outcomes of Arthroscopic vs. Open Iliopsoas Release after Total Hip Arthroplasty**
 *Charles L. Holliday, M.D. Rochester, MN
 Karissa N. Simon, B.S. Rochester, MN
 Robert T. Trousdale, M.D. Rochester, MN
 Michael J. Taunton, M.D. Rochester, MN
 Bruce A. Levy, M.D. Orlando, FL
 Mario Hevesi, M.D. Ph.D. Rochester, MN
100. **It's Not Arthritis! Congenitally Narrow Joint Space Does Not Portend Inferior Outcomes Following Hip Arthroscopy for Femoroacetabular Impingement**
 *Benjamin D. Kuhns, M.D., M.S. Des Plaines, IL
 Tyler R. McCarroll, M.D. Des Plaines, IL
 Yasemin E. Kingham, BA Des Plaines, IL
 Jessica C. Keane, B.S. Des Plaines, IL
 Benjamin G. Domb, M.D. Des Plaines, IL
101. **Ten-Year Outcomes of Hip Arthroscopy for the Treatment of FAI and Labral Tears in Patients with Workers Compensation Claims**
 Benjamin G. Domb, M.D. Des Plaines, IL
 Ady H. Kahana-Rojkind, M.D. Des Plaines, IL
 Drashti Sikligar, MEng Des Plaines, IL
 Jessica C. Keane, B.S. Des Plaines, IL
 Tyler R. McCarroll, M.D. Des Plaines, IL
 *Roger Quesada-Jimenez, M.D. Des Plaines, IL

102. Minimum Five-Year Outcomes of Arthroscopic Hip Labral Reconstruction in Adolescents

*Roger Quesada-Jimenez, M.D.	Des Plaines, IL
Andrew R. Schab, B.S.	Des Plaines, IL
Jessica C. Keane, B.S.	Des Plaines, IL
Ady H. Kahana-Rojkind, M.D.	Des Plaines, IL
Benjamin G. Domb, M.D.	Des Plaines, IL

103. Clinical Outcomes After Hip Arthroscopy for Patients with Inflammatory Joint Disease: A Matched Control Study with Minimum Five-Year Follow-Up

Ady H. Kahana-Rojkind, M.D.	Des Plaines, IL
Andrew R. Schab, B.S.	Des Plaines, IL
*Drashti Sikligar, MEng	Des Plaines, IL
Roger Quesada-Jimenez, M.D.	Des Plaines, IL
Benjamin D. Kuhns, M.D.	Des Plaines, IL
Benjamin G. Domb, M.D.	Des Plaines, IL

104. Hip Range of Motion Simulation for Surgical Management of Ischiofemoral Impingement: A Three Dimensional Computed Tomography-Based Model

*Xuankang Pan, B.S.	Rochester, MN
Megan L. Loghry, B.S.	Rochester, MN
Adam J. Wentworth, M.S.	Rochester, MN
William R. Schulz, M.D.	Rochester, MN
Christopher V. Nagelli, Ph.D.	Rochester, MN
Sean C. Clark, B.S.	Rochester, MN
Nicholas G. Rhoades, M.D.	Rochester, MN
Jonathan M. Morris, M.D.	Rochester, MN
Aaron J. Krych, M.D.	Rochester, MN
Mario Hevesi, M.D. Ph.D.	Rochester, MN

105. The Association Between Pain Self-Efficacy and Patient-Reported Outcomes Among Adults Recovering from Hip Arthroscopy for Femoroacetabular Impingement

Lindsay Sullivan Ph.D.	Columbus OH
Tyler Barker Ph.D.	Columbus OH
Marcia Edwards PsyD	Columbus OH
Jennifer Carter Ph.D.	Columbus OH
*W. Kelton Vasileff, M.D.	Columbus OH

106. Defining Clinically Meaningful Thresholds for Hip Outcome Score Sport-Specific Subscale in Athletes Undergoing Hip Arthroscopy for Femoroacetabular Impingement Syndrome At Midterm Follow-Up

*Elizabeth G. Walsh, B.S.	Des Plaines, IL
Roger Quesada-Jimenez, M.D.	Des Plaines, IL
Andrew R. Schab, B.S.	Des Plaines, IL
Benjamin G. Domb, M.D.	Des Plaines, IL

107. **Clinically Relevant Thresholds in Patient Reported Outcomes: Do Patient's Expectations Evolve Over Long-Term Follow-Up?**
 *Elizabeth G. Walsh, B.S. Des Plaines, IL
 Tyler R. McCarroll, M.D. Des Plaines, IL
 Benjamin D. Kuhns, M.D. Des Plaines, IL
 Ady H. Kahana-Rojkind, M.D. Des Plaines, IL
 Roger Quesada-Jimenez, M.D. Des Plaines, IL
 Benjamin G. Domb, M.D. Des Plaines, IL
108. **Training to Stay in the Game: A Systematic Review and Meta-Analysis of ACL injury Prevention Programs**
 *Samantha L. Watson Chicago, IL
 Chetan Gohal, M.D. New York, NY
 Madeline M. Owen Chicago, IL
 Pranav M. Bajaj Chicago, IL
 Mark A. Plantz, M.D. Chicago, IL
 Vehniah K. Tjong, M.D. Chicago, IL

TRAUMA

109. **Factors That Influence the Quality of Letters of Recommendation for Orthopedic Trauma Fellowship Applicants: A Survey of Fellowship Directors**
 Ashwin R. Garlapaty, B.S. Columbia, MO
 Nathan Cherian, M.D. Omaha, NE
 *Brett Crist, M.D., FACS Columbia, MO
110. **Stratified Perioperative Management to Reduce Complications and Improve Outcomes in Below-Knee Amputations**
 Ashwin R. Garlapaty, B.S. Columbia, MO
 Caleb Bischoff, B.S. Columbia, MO
 Joshua Schiederer, B.S. Columbia, MO
 Emily Leary, Ph.D. Columbia, MO
 *Brett Crist, M.D., FACS Columbia, MO
111. **Salvage of Failed Subtrochanteric Fracture Fixation in the Elderly: Revision Internal Fixation or Hip Arthroplasty?**
 *Ankur Khanna, B.S. Rochester, MN
 Bailey R. MacInnis, M.D. Rochester, MN
 Megan L. Anderson, B.S. Rochester, MN
 William W. Cross III, M.D. Rochester, MN
 S. Andrew Sems, M.D. Rochester, MN
 Jennifer Tangtiphaiboonana, M.D. Rochester, MN
 Krystin A. Hidden, M.D. Rochester, MN
 Brandon J. Yuan, M.D. Rochester, MN

112. High Failure Rate of Nonoperative Management of Adult Midshaft Humerus Fractures

*Bailey R. MacInnis, M.D.	Rochester, MN
Ankur Khanna, B.S.	Rochester, MN
Austen L. Thompson, M.D., Ph.D.	Rochester, MN
Jennifer Tangtiphaiboonatana, M.D.	Rochester, MN
Krystin A. Hidden, M.D.	Rochester, MN
Brandon J. Yuan, M.D.	Rochester, MN
Jonathan D. Barlow, M.D.	Rochester, MN

113. ChatGPT Answers are Comparable to Reputable Online Sources for Common Patient Questions in Orthopedic Trauma

Hamza Raja, B.S.	Detroit, MI
*Muhammad Abbas, M.D.	Detroit, MI
Hamza Kanchwala, B.S.	Detroit, MI
Idris Nagarwala, B.S.	Detroit, MI
Stuart T. Guthrie, M.D.	Detroit, MI
Joseph Hoegler, M.D.	Detroit, MI
Lindsay Maier, M.D.	Detroit, MI
William Hakeos, M.D.	Detroit, MI

114. Comparison of Postoperative Complications and Reoperations of Humeral Shaft Fractures Treated with Intramedullary Nail vs. Plate Fixation

Andrew J. Moyal, M.D.	Cleveland, OH
*Bhargavi Maheshwer, M.D.	Cleveland, OH
Jeremy M. Adelstein, M.D.	Cleveland, OH
Robert J. Burkhart, M.D.	Cleveland, OH
Raymond W. Liu, M.D.	Cleveland, OH
Joshua K. Napora, M.D.	Cleveland, OH

115. The Impact of Diabetic Neuropathy on Trimalleolar Fracture Outcomes

*Blair Peterson, B.S.	San Antonio, TX
Travis Kotzur, B.S.	San Antonio, TX
Aaron Singh, BA	San Antonio, TX
Stephanie Jones, M.D.	San Antonio, TX
Travis Bullock, M.D.	San Antonio, TX
Case Martin, M.D.	San Antonio, TX

116. Address-Derived Social Determinants of Health Metrics are a Predictor for No-Show in Orthopedic Trauma Clinic

*Michelle Hertzburg, M.D.	Detroit, MI
Hamza M Raja, B.S.	Detroit, MI
Alexa Bernard, B.S.	Detroit, MI
Christian Freitag, B.S.	Detroit, MI
Husain Rasheed, B.S.	Detroit, MI
Eric Jiang, M.D.	Detroit, MI
Lindsay Maier, M.D.	Detroit, MI
Joseph Hoegler, M.D.	Detroit, MI
Trent Guthrie, M.D.	Detroit, MI
William Hakeos, M.D.	Detroit, MI

117. Management of Ballistic Metacarpal Fractures: A Retrospective Cohort Study

*Jordan C. Serotte, M.D.	Chicago, IL
Hussein Abdul-Rassoul, M.D.	Chicago, IL
Jeffrey Stepan, M.D.	Chicago, IL
Jennifer Wolf, M.D., Ph.D.	Chicago, IL
Jason A. Strelzow, M.D.	St. Louis, MO

118. Complications Associated with Placement of Traction Pins with Unsterile Drills

*Joshua A. Ungar, M.D.	St. Louis, MO
Sahand Fallahi, B.S.	St. Louis, MO
James R. Roe, B.S.	St. Louis, MO
Thomas J. Revak, D.O.	St. Louis, MO

119. Evaluating the Impact of Upright Clavicle Radiographs on Decisions for Operative Management: A Retrospective Study

*Joshua A. Ungar, M.D.	St. Louis, MO
Andrew J. Schlager, B.S.	St. Louis, MO
Beau D Chandler, M.S.	St. Louis, MO
Thomas J. Revak, D.O.	St. Louis, MO

120.