7:00 am **Registration/Breakfast with Exhibitors Meridian Ballroom Foyer**

8:00 am **Welcome and Introductions of Co-Chairs Meridian Ballroom 3/4**

*Chad Griffith, MD, St. Cloud Orthopaedics*

*Brandon Yuan, MD, Mayo Clinic*

*Jackie Geissler, MD, Hennepin County Medical Center*

8:05 am **University of Minnesota Update:** *Alicia Harrison, MD*

8:10 am **Mayo Clinic update:** *William Cross, MD*

**Session 1: Trauma (8:15-9:15 am)**

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| 8:15 am | **Spotlight Presentation: Current Concepts Regarding Acute Compartment Syndrome** | *Andy Schmidt, MD* |
| 8:25 am | **Better Fracture Reduction in Patients Undergoing Early Definitive Fixation for Tibial Plateau Fractures with Acute Compartment Syndrome** | *Ilexa Flagstad, BS* |
| 8:30 am  | **Disproportionate Losses Observed in the Treatment of Medicare Patients with Intertrochanteric Femur Fractures** | *Brandon Kelly, MD* |
| 8:35 am  | **An emerging Issue Related to the Opioid Epidemic: Compartment Syndrome of Indeterminate timing, A Case Series** | *Lauren MacCormick MD* |
| 8:40 am  | **Geriatric Femoral Neck Fractures: Hemiarthroplasty Implant Cost and Selection Trends from 2006-2018** | *Kendra Kibble, BS* |
| 8:45 am | **Question and Answer Session** |  |
| 8:50 am  | **Cost Reduction for Knee Spanning External Fixation in a Staged Treatment of Tibial Plateau Fracture: A Practical Intervention** | *Kevin Hayek, MD* |
| 8:55 am  | **Outcomes of Single Stage vs Two Stage Bilateral Intramedullary Nail Fixation in Patients with Bilateral Femur Fractures** | *Lauren MacCormick, MD* |
| 9:00 am  | **Factors Influencing Management of Bilateral Femur Fractures: A Multicenter Retrospective Cohort of Early vs Delayed Definitive Fixation: MOS Student Abstract Award Recipient** | *Ilexa Flagstad, BS* |
| 9:05 am | **Question and Answer Session** |  |

9:15 am **Heritage Lecturer: Changing the Playing Field**

*Robin V. West, MD*

*Chairman, Inova Sports Medicine*

*Lead Team Physician, Washington Nationals*

*Head Team Physician, Washington Redskins*

*Associate Professor, Georgetown University Medical Center*

*Associate Professor, Virginia Commonwealth University School of Medicine*

9:55 am **Question and Answer Session**

**10:00 am Break with Exhibitors (10:00-10:30 am)**

**Session 2: Split Sessions – (10:30- 11:15 am) Hand: Meridian 1/2 Pediatrics: Meridian 3/4**

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| 10:30 am | **Hand Spotlight Presentation:** **Pearls for Treating Pediatric Phalanx Fractures:** *Deb Bohn, MD*  | **Pediatrics Spotlight Presentation:** **Anterior Vertebral Body Tethering for Scoliosis Treatment**: 1. *Noelle Larson, MD*
 |
| 10:40 am | **Cost Variation in Temporizing External Fixation of Pilon Fractures: Is There Room to Improve?**  *Bandele Okelana, BA* | **Is the Axial Spinal Cord Classification Predictive of Intraoperative Neurologic Alert for Pediatric Scoliosis Patients? A Validation Study:** *Smitha E. Mathew, MBBS* ***OREF Award Recipient*** |
| 10:45 am | **A Comparative Analysis of 150 Thumb Polydactyly Cases from the Could Registry Using the Wassel-Flatt, Rotterdam, and Chung Classifications:** *Caroline Hu, MD* | **Interobserver reliability of Low-Dose Biplanar Radiography (EOS) for Measuring Lower Limb Torsion:** *Michael Chau, MD, PhD* |
| 10:50 am | **Effect of Trapeziectomy on Carpal Instability:** *Christian Athens, DO* | **Systemic Review of Surgical Indications for Tibial Derotational Osteotomies:** *Yushane Shih, MD* |
| 10:55 am | **Question and Answer Session** | **Question and Answer Session** |
| 11:00 am | **Contact Dermatitis in Orthopedic Surgery Due to Latex-Free Gloves:** *Nicholas Meyer, MD* | **Trends in the Treatment of Pediatric Femur Fractures:** *Ryan McMahon, BS* |
| 11:05am | **Multicenter Survey of Resident Professional Development and Understanding of the Business of Orthopaedics: Are Residents Ready For the Transition to Practice?** *Etasha Bhatt, MD* | **AVBT vs. Posterior Spinal Fusion for AIS: Preliminary Result of a Surgeon-Sponsored FDS IDE Study:** *Smitha Mathew, MBBS* |
| 11:10 am | **Question and Answer Session** | **Question and Answer Session** |

11:15 am **Awards Presentation**

**Abstract Awards**

**Lowell FA Peterson Award: *David W. Polly, Jr, MD: Presented by James House, MD***

11:20 am **MOS Annual Meeting**

11:40 am **Lunch with Exhibitors and Posters (11:40 am - 12:30 pm)**

12:30 pm **Presidential Lecture: Sports Medicine…….Stepchild to Head of the Table**

*David Fischer, MD*

*Adjunct Associate Professor of Orthopaedic Surgery, University of Minnesota*

*Former Team Physician: Minnesota Vikings, Minnesota Timberwolves, USOC*

*Founder, University of Minnesota/TRIA Sports Medicine Fellowship Program*

*Co-Founder, TRIA Orthopaedic Center*

1:10 pm **Question and Answer Session**

Break to move to concurrent session (1:15-1:20 pm)

**Session 3: Split Sessions – Sports Meridian ¾ Arthroplasty/Reconstruction Meridian ½ (1:20- 2:30 pm)**

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| 1:20 Pm | **Sports Spotlight Presentation: Hip Arthroscopy: What is Trending?** *Ryan Fader, MD* | **Arthroplasty/Reconstruction Spotlight Presentation: Management of End Stage Knee Osteoarthritis in Patients with Morbid Obesity:***Patrick Horst, MD* |
| 1:30 pm | **Arthroscopic Debridement Versus Refixation of the Acetabular Labrum Associated with Femoroacetabular Impingement: Updated Mean 7 Year Follow-up:** *Chris Larson, MD* | **The Lack of Bone on Bone Contact in the Medial Compartment Should not be a Strict Contraindication for Mobile Bearing UKA:** *Samuel Carlson MD* |
| 1:35 pm | **Early Outcomes and Demographics of Arthroscopic Repair of Meniscal Root and Complete Radial Meniscal Tears in Competitive Athletes:** *Chris Larson, MD* | **Retrospective Analysis of a Modified One-Stage Revision Protocol Compared to a Traditional Two-Stage Revision for the Treatment of Periprosthetic Joint Infection:** *Michael Stojanovic, MD* ***OREF Award Recipient*** |
| 1:40 pm | **Long-Term Clinical Results After Repair of Isolated Meniscus Tears in Patients 18 Years and Younger: An 18-Year Follow-up Study:** *Adam Tagliero, MD* | **Patient Reported Opioid Use Following Total Joint Arthroplasty:** *Eileen Eggenberger, MD* |
| 1:45 pm | **Question and Answer Session** | **Question and Answer Session** |
| 1:50 pm | **Systematic Review of Medial Patellofemoral Ligament Reconstruction Techniques: Comparison of Patellar Bone Socket and Cortical Surface Fixation Techniques:** *Adam Tagliero, MD* | **The Stiff Knee: Revision for Limited Range of Motion Following Primary Total Knee Arthroplasty:***Brandon Bukowski, MD* |
| 1:55 pm | **Patient-Reported Post-Operative Pain Assessment and Opioid Use After ACL Reconstruction:** *Tyler Williamson, MD* | **Miniopen Lysis of Adhesions: A Technique for Treating Arthrofibrosis After Knee Arthroplasty:** *Eileen Eggenberger, MD* |
| 2:00 pm | **Distalization of the Tibial Tubercle for Patellar Stabilization: Does Length of the Distalization or Residual Patella Alta Effect Outcome?** *Andrew Schmiesing, MD* | **Open Periprosthetic Fractures About TKA: A Descriptive Study:** *Joshua Labott, BS* |
| 2:05 pm | **Question and Answer Session** | **Question and Answer Session** |
| 2:10 pm | **The Use of Functional Testing Following Medial Patellofemoral Ligament Reconstruction:***William Albiero, MD* | **Povidone-Iodine Irrigation Prior to Wound Closure Did Not Decrease Infection in Primary Total Knee and Hip Arthroplasties: An Analysis of 11,738 Cases:** *Nicholas Hernandez, MD* |
| 2:15 pm | **Younger Athletes With ACL Reconstruction Show Better Psychological Readiness For Sport That is Not Matched by Functional Readiness for Sport:***Adam Meierbachtol, PT, DPT, SCS, ATC* | **Obesity Does Not Significantly Influence Outcomes of Mobile-Bearing Unicompartmental Knee Arthroplasty at Minimum Two-Year Follow-Up:** *Juan S. Vargas, MD* |
| 2:20 pm | **Reliability of EOS Compared to Conventional Radiographs for Evaluation of Lower Extremity Deformity in Adult Patients:** *Kelsey Wise, MD* | **Question and Answer Session** |
| 2:25 pm | **Question and Answer Session** |  |

**Break with Exhibitors and Poster (2:30-3:00 pm)**

**Session 4: Opioids (3:00-4:00 pm )**

3:00-3:10 pm **Opioids and Orthopaedics:** *Thomas Varecka, MD*

3:10-3:20 pm **Opioid Psychiatry: Psychological Considerations in Pain Management** : J.J. Rasimas, MD, PhD, FAPM

3:20-3:30 pm **Addiction Medicine and Internist (Opioids and CBD/Marijuana):** *Charles Reznikoff, MD*

3:30-3:40 pm **Patient Perspective:** *Ted Spiess, CRNA*

3:40-3:55 pm **Question and Answer Session**

**Session 5: Split Sessions – Spine Meridian 3/4 and Shoulder Meridian ½ (4:00- 4:45 pm)**

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| 4:00 pm | **Spine Spotlight Presentation: Cervical Disc Arthroplasty: An Update:** *Ben Mueller, MD*  | **Shoulder Spotlight Presentation: Shoulder Arthroplasty for Fracture: When Why and How:** *Mark Morrey, MD* |
| 4:10 pm | **Patient-Reported Outcomes Following Minimally Invasive Sacroiliac Joint Fusion Surgery Using the Integrity-SI Implant with Blade-X Technology:** *Marco Tomov, MD* | **Shoulder Arthroplasty in Morbidly Obese Patients: Does Reverse Arthroplasty Lead to Less Complications?** *Laurel Barras, MD* |
| 4:15 pm | **Posterior Bone-Graft Options and Success in Single-Level Circumferential Lumbar Fusions:** *Glenn Buttermann, MD, MS* | **Arthroscopic Capsular Release for Refractory Adhesive Capsulitis: Speed of Recovery and Non-Responder Outliers:** *Laurel Barras, MD* |
| 4:20 pm | **Effectiveness of Epidural Amniotic Fluid Injection for Low Back Pain:***Glenn Buttermann, MD, MS* | **Shoulder Arthroplasty in Patients with Cerebral Palsy: A Matched Cohort Study to Patients with Osteoarthritis:** *Erick Marigi, MD* |
| 4:25 pm | **Question and Answer Session** | **Question and Answer Session** |
| 4:30 pm | **Lateral Lumbar Interbody Fusion with Percutaneous Pedicle Screw Fixation: Are We Getting the Sagittal Alignment Right?** *Nicholas Dick, BS* | **Early Patient Satisfaction of Patients Undergoing Superior Capsular Reconstruction:** *Frank Norberg, MD* |
| 4:35 pm | **Spine Kinematics: Validation of an Automated 2D/3D Shape-Matching Algorithm for Biplane Radiography:** *Craig Kage* | **Examination of an Upper Extremity Functional Testing Battery: Change in Score Over Time and Association with Self-Reported Function:** *Chad Kofoed, PT, DPT, OSC* |
| 4:40 pm | **Question and Answer Session** | **Question and Answer Session** |

**Closing (4:45-5:00 pm) Meridian 3/4**

**Posters**

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| **Uniformly Low Serum Cobalt Levels after Modular Dual-Mobility THAs with Ceramic Heads: A Prospective Study in High Risk Patients** | *Brian Chalmers, MD* |
| **In Vivo Corrosion of Modular Dual Mobility Implants: A Retrieval Study** | *Joshua M. Kolz, MD* |
| **Single-Dose Perioperative Antibiotics Do Not Increase the Risk of Periprosthetic Joint Infection in Unicompartmental Knee Arthroplasty** | *Samuel W. Carlson MD* |
| **The femur-First Surgical Technique Results in Less Variability with Respect to Component Position in Mobile-Bearing Unicompartmental Knee Arthroplasty**  | *Juan S. Vargas MD* |
| **Outcomes after Anterolateral Ligament Reconstruction / Repair and Concomitant Revision and Primary Anterior Cruciate Ligament Reconstruction**  | *Christopher M Larson, MD* |
| **Can Decreasing Implant Costs Increase Net Reimbursement for Surgically Treated Ankle Fractures?** | *Bandele Okelana, BA* |
| **Ganglion Cyst Compression on the Common Peroneal Nerve at the Fibular Head: A Case Study** | *Andy Taylor, PT, DPT, SCS* |
| **Use of a Motus Sleeve During the Care of a Medial Elbow Injury in the High School Baseball Athlete: Level 3 Case Report** | *Joshua M. Brodersen LAT, ATC* |
| **Activities that Evoke Fear and Fear Intensity Before and After an Anterior Cruciate Ligament Reconstruction Return-to-Sport Training Program** | *Eric Paur, PT, DPT, SCS, ATC* |
| **Value Based Care in Orthopaedic Trauma: Are Traumatologists Ready to Ride the Wave of Changing Economics?**  | *Tiffany Gorman, BS* |
| **Constrained Liner Revision is Less Effective with Each Subsequent Constrained Liner Revision at Preventing Instability** | *Nicholas M. Hernandez, MD* |
| **Does Implant Selection Affect the Inpatient Cost of Care for Geriatric Intertrochanteric Femur Fractures?**  | *Lauren Casnovsky, MD* |
| **Time Driven Activity Based Costing (TD-ABC) to Identify Cost Drivers in the 30-Day Episode of Care for Bicondylar Tibial Plateau Fractures** | *Dylan L. McCreary, BA* |
| **Higher Fear-Avoidance Beliefs Are Associated with Lower Running Ability in Injured Runners** | *Benjamin Maschke PT, DPT* |
| **Are Serum Ion Levels Elevated in Pediatric Patients with Spinal Implants vs. Controls?** | *Smitha E. Mathew MBBS* |
| **Does Topical Vancomycin Reduce Postoperative Infection in Pediatric Spine Fusion Patients?** | *Smitha E. Mathew MBBS* |
| **Evaluation of Intraoperative Fluoroscopic Techniques to Estimate Femoral Rotation: A Cadaveric Study** | *David Ivanov, MD* |
| **First Metatarsophalangeal Joint Arthrodesis Weightbearing Practices: A Survey**  | *Avais Raja, MD* |