

Southern Orthopaedic Association

36th Annual Meeting

July 17-20, 2019 ☀️ Omni Amelia Island Plantation ☀️ Amelia Island, FL



Download the Complete Program

On a mobile device, in the Apple Store or Google Play store, search "DTMS" and download; on a laptop go online to <https://datatrace.gatherdigital.com>.

Published by



Grantor & Exhibitor Acknowledgements

The Southern Orthopaedic Association is grateful for the support of its educational grantors and exhibitors. Thank you for your participation and commitment to SOA.

Platinum

Johnson & Johnson Medical Devices Companies

Gold

Flexion Therapeutics
Heron Therapeutics, Inc.

OrthAlign, Inc.
Smith & Nephew Inc.

Silver

Arthrex, Inc. - *Grantor*

Bronze

Surgical Care Affiliates
Zimmer Biomet - *Grantor*

Copper

DJO
Heraeus Medical
OsteoRemedies

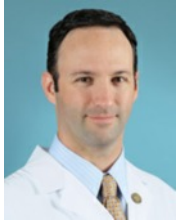
Pacira BioSciences
Stryker

Exhibitor

AM Surgical, Inc.
Artoss, Inc.
Avanos Medical
Biocomposites
Bon Secours Mercy Health
BONESUPPORT AB
ExamWorks
Ferring Pharmaceuticals
FX Shoulder USA
HCA Healthcare
Hitachi Healthcare Americas
LifeNet Health
McGinley Orthopedics

Medtronic Advanced Energy
MicroPort Orthopedics Inc.
Nutramax Laboratories Consumer Care, Inc.
NZG Medical
Orthofix
Paragon 28
ProScan Reading Services
Shukla Medical
SI-BONE, Inc.
Vericel Corporation
VirtaMed
ZipLine Medical, Inc.

President's Message



Welcome to SOA's 36th Annual Meeting at Amelia Island Plantation!

This year's Annual Meeting promises to be enjoyable for the entire family as well as educational for you. My colleague Stephan Duncan, MD is this year's Program Chair, and he and the Program Committee have put together a dynamic and informative program.

I am particularly excited this year that my father, James Nunley II, MD is our 2019 Distinguished Southern Orthopaedist.

The Omni Amelia Island Plantation Resort offers an extensive list of activities for all ages to enjoy. My wife, Anne has crafted a fun and tranquil week for spouses and children.

We look forward to seeing you this week!

Sincerely,

Ryan Nunley

Ryan M. Nunley, MD
President, Southern Orthopaedic Association



Program Chair



Stephen T. Duncan, MD
Lexington, KY
University of Kentucky

Presidential Guest Speaker



David L. Kirschman, MD
Parvizi Surgical Innovations
**Physician Entrepreneurship: From
Operating Room to Board Room**
Thursday, 9:55 am

Distinguished Southern Orthopaedist



James A. Nunley II, MD
Durham, NC
**Advances in the Treatment of Ankle
Arthritis: Where are We Now?**
Friday, 9:50 am

Summary of Events

See Scientific Program for times for all CME Activities

KEY

- ⦿ Activity/Tour
- ✦ Social Event
- ★ Special Presentation

WEDNESDAY, JULY 17

12:00 pm – 5:00 pm

Speaker Ready Area Magnolia Ballroom Foyer

12:00 pm – 5:00 pm

Meeting Registration Magnolia Ballroom Foyer

2:30 pm – 5:00 pm

Exhibit Setup Magnolia Ballroom A, B, C & D

2:00 pm – 5:00 pm

SOA Board of Trustees Meeting Oceanview Room

THURSDAY, JULY 18

6:00 am – 3:20 pm

Speaker Ready Area Magnolia Ballroom Foyer

6:30 am – 3:20 pm

Meeting Registration Magnolia Ballroom Foyer

6:30 am – 3:20 pm

Technical Exhibits, Continental Breakfast, Coffee Breaks and Daily Drawing Magnolia Ballroom A, B, C & D

7:00 am – 7:15 am

First Business Meeting Magnolia Ballroom E, F & G

7:15 am – 3:20 pm

Scientific Program Magnolia Ballroom E, F & G

8:15 am – 8:45 am

★**Focused Brunch Presentation** Magnolia Ballroom E, F & G

*CME Credit Not Available

Heron Therapeutics

Benefits and Limitations of Local Anesthetics in Postoperative Pain

Paul F. Lachiewicz, MD

9:00 am – 10:30 am

✦**Spouse/Guest/Children's Hospitality** Live Oak Room

Join old friends and new at a continental breakfast with a wild twist – nature specialists will bring their reptile friends for this animal encounter, where you can get up-close and personal to learn the differences and similarities between them.

Price: Included in Registration Fee or \$40 per Unregistered Adult Guest / \$20 per Unregistered Child (5-17)

9:55 am – 10:35 am

★**Presidential Guest Speaker** Magnolia Ballroom E, F & G

Physician Entrepreneurship: From Operating Room to Board Room

David L. Kirschman, MD

10:45 am – 11:45 am

⦿**Sprouting Project** Meet in Lobby

The Sprouting Project consists of a state-of-the-art aquaponic greenhouse, an expansive organic garden, the barrel room and a large collection of beehives. This is the culinary team's answer to local sustainability. Guests will appreciate a true farm-to-table experience and gain intimate access to what is often referred to as our "Chef's Playground."

Price: \$20 per person (Minimum 6 participants)

11:50 am – 12:20 pm

★**Focused Lunch Presentation** Magnolia Ballroom E, F & G

*CME Credit Not Available

Johnson & Johnson Medical Devices Companies

Optimizing a Multimodal Approach to Control Postsurgical Pain

Stan Dysart, MD, MBA

12:30 pm – 5:30 pm

⦿**Deep Sea Fishing** Meet in Lobby

Enjoy superb bottom-fishing action among numerous sunken ships, lime rock ledges and oceanic hard bottoms to catch snapper, mackerel, sea-bass, barracuda, grouper and bottom-feeding sharks. A captain and first mate provide each boat with all the fishing tackle, rigged bait and instruction required. Snacks, beverages and gratuity included.

Price: \$265 per person (minimum 6 participants)

1:50 pm – 3:20 pm

★**Round Table Discussion** Cumberland A

Short-Stay Total Joint Protocols and Investing in an ASC

6:15 pm – 7:00 pm

✦**New Member Reception** Sunrise Terrace

All new SOA members are invited to attend this reception. The SOA Board and Committee Members would like to take this opportunity to welcome you to the SOA.

Attire: Resort Casual

Price: Included in Registration Fee

7:00 pm – 9:30 pm

✦**Welcome Dinner** Magnolia Gardens

Drink in the ocean breeze at this year's Welcome Dinner, while you catch up with colleagues and their families. Savor delicious appetizers, delectable entrees, your favorite drinks from the open bar, and S'mores from 7:45 to 8:45 pm!

Attire: Resort Casual

Price: Included in Registration Fee or \$100 per Unregistered Adult Guest / \$50 per Unregistered Child (5-17)

FRIDAY, JULY 19

6:00 am – 7:00 am

Regional and AAOS President's Breakfast Meeting with State Presidents and Board of Councilors

Oceanview Room

6:00 am – 2:45 pm

Speaker Ready Area Magnolia Ballroom Foyer

6:30 am – 2:45 pm

Meeting Registration Magnolia Ballroom Foyer

6:30 am – 2:45 pm

Technical Exhibits, Continental Breakfast, Coffee Breaks and Daily Drawing Magnolia Ballroom A, B, C & D

7:00 am – 2:45 pm

Scientific Program Magnolia Ballroom E, F & G

8:00 am – 8:30 am

★**Focused Brunch Presentation** Magnolia Ballroom E, F & G

*CME Credit Not Available

OrthAlign

Clinical and Economic Perspectives of Using Handheld Portable Navigation in Knee Arthroplasty

Stephen T. Duncan, MD

Handheld Navigation in Hip Arthroplasty: Efficiently Avoid Trouble

Luke Warth, MD

Summary of Events

See Scientific Program for times for all CME Activities

KEY

- 🕒 Activity/Tour
- ✦ Social Event
- ★ Special Presentation

9:00 am – 10:30 am

✦ **Spouse/Guest/Children's Hospitality** Live Oak Room

Enjoy a continental breakfast with old friends and new. Learn the history of nearby Fort Clinch from a Civil War re-enactor/historian! Price: Included in Registration Fee or \$40 per Unregistered Adult Guest / \$20 per Unregistered Child (5-17)

9:50 am – 10:40 am

★ **Distinguished Southern Orthopaedist**

Magnolia Ballroom E, F & G

Advances in the Treatment of Ankle Arthritis: Where are We Now?

James A. Nunley II, MD

11:50 am – 12:20 pm

★ **Focused Lunch Presentation** Magnolia Ballroom E, F & G

*CME Credit Not Available

Flexion Therapeutics

Localized Treatment for Osteoarthritis Knee Pain with a Novel Intra-articular Formulation

Hari Bezwada, MD

12:20 pm – 3:30 pm

🕒 **Culinary Demo – Experience Epicuriosity** Meet in Lobby

Tempt your taste buds with the ocean as your backdrop in the Chef's Kitchen at Omni Amelia Island Plantation! Let our chefs delight you with a unique, farm-to-table inspired menu created with a commitment to utilizing local and seasonal ingredients. Enjoy personal interaction with our experienced chefs as they demonstrate and discuss proper cooking techniques you can take home to impress your family and friends.

Price: \$69 per person (minimum 10 participants)

12:50 pm – 6:00 pm

🕒 **Golf Tournament** Meet in Lobby

1:20 pm Tee Time

The Oak Marsh Golf Course is noted for its tight fairways and small greens, meandering along serpentine salt marsh creeks and through the moss-draped heritage oaks for which Amelia Island is famous. The tournament will be a 1:20 pm shotgun start with scramble format. ***Eat at the Focused Lunch Presentation**

Price: \$175 per person (includes green fees, beverage cart and prizes)

1:15 pm – 2:45 pm

★ **Resident Program** Cumberland B & C

1:15 pm – 2:45 pm

★ **Round Table Discussion** Cumberland A

Knee Sports Case Discussion

1:30 pm – 2:30 pm

SOA Councilors Meeting Conference Room 1

2:00 pm – 3:30 pm

🕒 **Tennis Round Robin** Meet at Tennis Courts

3.5 USTA Rating or better

Price: \$22 per person (Minimum 4 people)

5:30 pm – 7:30 pm

✦ **Exhibitor Reception** Magnolia Ballroom A, B, C & D

Before you go to dinner, start your evening off with drinks and hors d'oeuvres with SOA.

Attire: Business Casual

Price: Included in Registration Fee or \$75 per Unregistered Adult Guest

5:30 pm – 7:30 pm

✦ **Kids' Movie Party with Arts & Crafts** Cumberland A

While your parents are at the Exhibitor Reception, enjoy dinner and crafts or a movie with your friends. Children younger than 5 must be accompanied by an adult. This is not a babysitting service and is provided **only** for parents attending the Exhibitor Reception. Children must be registered.

Price: Included in Registration Fee or \$25 per Unregistered Child (5-17 years)

SATURDAY, JULY 20

6:00 am – 7:00 am

★ **Women in Orthopaedics Forum** Cumberland C

Cynthia L. Emory, MD, MBA, Wake Forest Baptist Health

6:00 am – 1:50 pm

Speaker Ready Area Magnolia Ballroom Foyer

6:30 am – 1:50 pm

Meeting Registration Magnolia Ballroom Foyer

6:15 am – 1:50 pm

Technical Exhibits, Continental Breakfast, Coffee Breaks and Daily Drawing Magnolia Ballroom A, B, C & D

7:00 am – 7:15 am

Second Business Meeting Magnolia Ballroom E, F & G

7:15 am – 1:50 pm

Scientific Program Magnolia Ballroom E, F & G

8:15 am – 8:45 am

★ **Focused Brunch Presentation** Magnolia Ballroom E, F & G

*CME Credit Not Available

Smith & Nephew, Inc.

9:00 am – 10:30 am

✦ **Spouse/Guest/Children's Hospitality** Live Oak Room

Enjoy a continental breakfast! We will build hygiene kits to donate to a shelter. These are a great way to contribute to our local communities in an affordable, fun way.

Price: Included in Registration Fee or \$40 per Unregistered Adult Guest / \$20 per Unregistered Child (5-17)

10:30 am – 11:05 am

★ **Presidential Address** Magnolia Ballroom E, F & G

Family Affair

Ryan M. Nunley, MD

12:50 pm – 1:50 pm

★ **Round Table Discussion** Cumberland A

Shoulder Case Discussion

5:30 pm – 9:00 pm

✦ **Grilling and Games** Magnolia Gardens

Bring the whole family to join in a lively afternoon of fun, food and games! Let loose and create some special memories with your kids, spouses and all of your friends and colleagues in what is sure to be a highlight of your 2019 SOA meeting experience.

Attire: Resort Casual

Price: Included in Registration Fee or \$150 per Unregistered Adult Guest / \$50 per Unregistered Child (5-17)

Scientific Program

Magnolia Ballroom E, F & G, Unless Otherwise Specified

Please check the Meeting App for room, time and speaker changes.

CME ACCREDITATION

The American Academy of Orthopaedic Surgeons designates this live activity for a maximum of **23 AMA PRA Category 1 Credits™**. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

*13.5 CME Credits for Scientific Program

*6 CME Credits for Scientific E-Poster Sessions

*3.5 CME Credits for Multimedia Education Sessions

To ensure correct CME credit is awarded go online to **www.soaassn.org** to complete the CME Credit Record Forms, indicating the Sessions you attended at the SOA 2019 Annual Meeting. CME Certificates will be awarded to all registered participants.

THURSDAY, JULY 18

6:00 am – 7:00 am	Scientific E-Poster Session Conference Rooms 1, 2 & 3 Presenters are available to answer questions.
7:00 am – 7:15 am	First Business Meeting
7:15 am – 7:20 am	Welcome and Announcements Ryan M. Nunley, MD, President Stephen T. Duncan, MD, Program Chair
SYMPOSIUM 1: "My Worst Case" Competition – Total Joint Arthroplasty Moderators: Stephen T. Duncan, MD, University of Kentucky & Gregory G. Polkowski, MD, MSc, Vanderbilt University Medical Center	
7:20 am – 8:15 am	Speakers: James A. Browne, MD, University of Virginia School of Medicine Paul F. Lachiewicz, MD, Duke University Ryan M. Nunley, MD, Washington University School of Medicine Andrew A. Shinar, MD, Vanderbilt Orthopaedic Institute
8:15 am – 8:45 am	Focused Brunch Presentation *CME Credit Not Available Heron Therapeutics Benefits and Limitations of Local Anesthetics in Postoperative Pain Paul F. Lachiewicz, MD
RAPID FIRE SESSION 1A: Opioids and Pain Management Cumberland A Moderators: James A. Keeney, MD, Missouri Orthopaedic Institute & Michael J. O'Brien, MD, Tulane University	
8:50 am – 8:54 am	Implant Complications Following Total Hip Arthroplasty in Opioid Abusers Rushabh M. Vakharia, MD, Holy Cross Hospital
8:54 am – 8:58 am	Depression Leads to Increased Opioid Consumption after Total Hip Arthroplasty Gregory Kurkis, MD, Emory University
8:58 am – 9:02 am	Opioid Use Increases Thromboembolic Complications Following Primary Total Knee Arthroplasty Scott Nelson, DO, Holy Cross Hospital
9:02 am – 9:06 am	Nationwide Trends in Opioid Prescriptions for Common Orthopaedic Procedures: Are We Over-Prescribing? Sophia A. Traven, MD, Medical University of South Carolina
9:06 am – 9:10 am	Discussion
9:10 am – 9:14 am	Does Pain Catastrophizing Predict Age of Onset in Symptomatic Hip Dysplasia and Femoroacetabular Impingement? Shawn O. Okpara, BS, University of Texas Southwestern Medical Center
9:14 am – 9:18 am	Liposomal Bupivacaine vs Interscalene Nerve Block for Pain Management after Shoulder Arthroplasty: A Multi-Center Prospective Randomized Controlled Trial Saisanjana Vattigunta, BA, Johns Hopkins University

9:18 am – 9:22 am	Economic Burden of Opioid Use Disorder in Patients Undergoing Joint Arthroplasty Kevin X. Farley, BS, Emory University School of Medicine
9:22 am – 9:26 am	Assessment of Optimal Volume Expansion for use of Liposomal Bupivacaine in Multimodal Pain Management for Shoulder Arthroplasty Vani J. Sabesan, MD, Cleveland Clinic Florida *Presented by Kiran Chatha, MD
9:26 am – 9:30 am	Discussion
RAPID FIRE SESSION 1B: Sports Medicine Cumberland B Moderators: Chaitu S. Malempati, DO, University of Kentucky & Brian C. Werner, MD, University of Virginia Health System	
8:50 am – 8:54 am	The Cost Variability of Orthobiologics Alex Dombrowsky, University of Alabama at Birmingham *Presented by Kyle Paul, BS
8:54 am – 8:58 am	The Impact of Meniscus Treatment on Functional Outcomes 6 Months after Anterior Cruciate Ligament Reconstruction Aaron J. Casp, MD, University of Virginia
8:58 am – 9:02 am	Return to Play following Platelet-Rich Plasma Injection of the Ulnar Collateral Ligament Based on Injury Severity Frederic B. Mills IV, MS, Palmetto Health-USC Orthopaedic Center
9:02 am – 9:06 am	Biomechanical Comparison/Cost Analysis for Tendon Preparation in ACL Reconstruction Mark A. Prevost II, MD, University of South Alabama Orthopaedics
9:06 am – 9:10 am	Discussion
9:10 am – 9:14 am	Outcomes after Surgical Repair of Medial Meniscal Root Tears: A Systematic Review Chad Edwards, DO, Orthopaedic & Sports Medicine Center of Miami
9:14 am – 9:18 am	The Effect of Physeal Closure on Quadriceps Strength and Symmetry after Anterior Cruciate Ligament Reconstruction in Adolescent Patients Aaron J. Casp, MD, University of Virginia
9:18 am – 9:22 am	A Comparison of Quadriceps Neuromuscular Firing Patterns in Anterior Cruciate Ligament Autografts: Soft Tissue Quadriceps Tendon vs. Bone-Patellar Tendon-Bone Michael I. Letter, PhD, PA-C, University of Miami Sports Medicine Institute
9:22 am – 9:26 am	Comparison of Custom 3D Printed Spherical Implants vs. Femoral Head Allografts for Tibiototalcanal Arthrodeses John Steele, MD, Duke University Medical Center
9:26 am – 9:30 am	Discussion
RAPID FIRE SESSION 1C: Shoulder & Elbow Cumberland C Moderators: Scott D. Mair, MD, University of Kentucky Sports Medicine & Matthew J. Matava, MD, Washington University School of Medicine	

Scientific Program Magnolia Ballroom E, F & G, Unless Otherwise Specified

Please check the Meeting App for room, time and speaker changes.

8:50 am – 8:54 am	Incidence, Treatment and Outcomes of Periprosthetic Humeral Shaft Fractures after Reverse Total Shoulder Arthroplasty Paul Ragusa, DO, Johns Hopkins Orthopedics *Presented by Saisanjana Vattigunta, BA
8:54 am – 8:58 am	Does Insurance Status Determine Surgical Outcomes in Shoulder Arthroplasty? An Analysis of Private and Public Insured Populations Vani J. Sabesan, MD, Cleveland Clinic Florida *Presented by Kiran Chatha, MD
8:58 am – 9:02 am	Validated Score to Predict Who Needs Operative Management for Instability Michael J. Kissenberth, MD, Hawkins Foundation *Presented by Jared Hudspeth, MD
9:02 am – 9:06 am	Biomechanics of Axial Load Transmission across the Native Human Elbow Kaleb B. Smithson, MD, University of Arkansas for Medical Sciences
9:06 am – 9:10 am	Discussion
9:10 am – 9:14 am	Therapeutic Postoperative Anticoagulation after Shoulder Arthroplasty Increases Risk of Complications Michelle E. Kew, MD, University of Virginia
9:14 am – 9:18 am	Short-Term Complications and Readmission following Total Shoulder Arthroplasty Matthew J. Best, MD, Johns Hopkins Orthopedics
9:18 am – 9:22 am	Minimal Clinically Important Differences in Patient-Reported Outcomes following Biceps Tenodesis Francisco Eguia, BA, Johns Hopkins Hospital
9:22 am – 9:26 am	Complications in Patients with Sleep Apnea following Total Shoulder Arthroplasty Joseph Palmer, DO, Holy Cross Hospital

9:26 am – 9:30 am Discussion

RAPID FIRE SESSION 1D: Total Joints Conference Room 1

Moderators: Gregory G. Polkowski, MD, MSc, Vanderbilt University Medical Center & James A. Browne, MD, University of Virginia School of Medicine

8:50 am – 8:54 am	Do We Still Need to Use Tourniquets for Total Knee Replacement in the Age of Tranexamic Acid? Sarah Miller, BS, MS, University of Mississippi Medical Center
8:54 am – 8:58 am	TKA is Better than UKA for Morbidly Obese Patients John F. Nettrour, MD, University of Missouri
8:58 am – 9:02 am	Pain Relief in Moderate-Severe Knee Osteoarthritis: Repeat-Administration Triamcinolone Acetonide Extended-Release Deryk G. Jones, MD, Ochsner Sports Medicine Institute
9:02 am – 9:06 am	Increased Risk of Transfusion in Total Hip and Knee Arthroplasty with use of SSRI Elshaday S. Belay, MD, Duke University Medical Center
9:06 am – 9:10 am	Discussion
9:10 am – 9:14 am	Revision Total Knee Arthroplasty in High-Risk Patients: Can Pressure Negative Dressing be a Game Changer? Oduche R. Igboechi, MD, MPH, MBA, Tulane University School of Medicine
9:14 am – 9:18 am	Knee Arthrodesis for the Salvage of Infected Total Knee Arthroplasty Predicting Failure and the Need for Amputation Caleb Yeung, MD, Brigham and Women's Hospital/Harvard Medical School
9:18 am – 9:22 am	Multiple Sclerosis is Associated with Increased Complications Following Total Knee Arthroplasty Nicole D. Quinlan, MD, MS, University of Virginia Health System

9:22 am – 9:26 am	Sleep Apnea is a Risk Factor for Total Knee Arthroplasty Wayne Cohen-Levy, BA, MD, MS, Holy Cross Hospital
-------------------	---

9:26 am – 9:30 am Discussion

RAPID FIRE SESSION 1E: Trauma Conference Room 2

Moderators: Eric S. Moghadamian, MD, University of Kentucky & Langdon A. Hartsock, MD, Medical University of South Carolina

8:50 am – 8:54 am	Impact of Radiographic and Surgical Delay on Hip Fracture Outcomes Brendan Y. Shi, BS, Johns Hopkins School of Medicine *Presented by Iman Ali, BS
8:54 am – 8:58 am	The Reverse Oblique Supracondylar Humerus Fracture: Description of a Novel Fracture Pattern Michael Heffernan, MD, Louisiana State University School of Medicine *Presented by Bryant M. Song, MS
8:58 am – 9:02 am	Outcomes of Bridge Plating vs. Standard Fixation in Geriatric Ankle Fractures Russell E. Holzgrefe, MD, Emory University Orthopaedics and Spine Hospital
9:02 am – 9:06 am	Opioid Use Predicts Higher Rates of Nonunion after Humerus Fractures Rushabh M. Vakharia, MD, Holy Cross Hospital
9:06 am – 9:12 am	Discussion
9:12 am – 9:16 am	20-Year Review of Peri-Prosthetic Fractures after Total Knee Arthroplasty Dustin Rinehart, MD, University of Texas Southwestern Medical Center
9:16 am – 9:20 am	New Five-Factor Modified Frailty Index Predicts Morbidity and Mortality in Geriatric Hip Fractures Sophia A. Traven, MD, Medical University of South Carolina
9:20 am – 9:24 am	Clinical Outcomes of Floating Shoulder Injuries: A Systematic Review Alex Dombrowsky, University of Alabama at Birmingham *Presented by Addison Cimino, BS

9:24 am – 9:30 am Discussion

RAPID FIRE SESSION 1F: Practice Management Conference Room 3

Moderator: Lucian C. Warth, MD, Indiana University Health Physicians & Ryan M. Nunley, MD, Washington University School of Medicine

8:50 am – 8:54 am	Academic vs Non-Academic Orthopaedic Surgery: Predictors of Academic Career Choice Francisco Eguia, BA, Johns Hopkins Hospital
8:54 am – 8:58 am	Orthopaedic Trainee Wellbeing and Burnout: A National Survey Conducted by the Collaborative Orthopaedic Educational Research Group Paul Lichstein, MD, Brigham and Women's Hospital/Harvard Medical School
8:58 am – 9:02 am	Who Responds to Genicular Nerve Ablation? Factors Predicting Failure Andrew Carlone, MD, University of Kentucky
9:02 am – 9:06 am	Inappropriate Diet Orders may be Common Among Patients with Potential Surgical Emergencies Kyle A. Petersen, MD, Summa Health System
9:06 am – 9:10 am	Discussion
9:10 am – 9:14 am	The Impact of Workflow on Cutting Time for PKA Emily Hampp, Mahwah, NJ
9:14 am – 9:18 am	Patient Factors Affect the Domains of HCAHPS Surveys Waqar Diwan, MD, University of Texas Southwestern Medical Center
9:18 am – 9:22 am	Increased Orthopaedic Faculty Academic Productivity following Residency Program Restructuring Caroline J. Granger, MD, University of Miami

Scientific Program

Magnolia Ballroom E, F & G, Unless Otherwise Specified

Please check the Meeting App for room, time and speaker changes.

9:22 am – 9:26 am	Is Spinal Anesthetic the Standard of Care for Knee Arthroplasty? Senthil Kumar Sadayampathy Velusamy, MBBS, Glan Clwyd Hospital
9:26 am – 9:30 am	Discussion
9:30 am – 9:50 am	Break – Please visit Exhibits Magnolia Ballroom A, B, C & D
GENERAL SESSION 1: OREF Report and Presidential Guest Speaker Moderator: Ryan M. Nunley, MD, Washington University School of Medicine	
9:50 am – 9:55 am	OREF Report Speaker TBD
9:55 am – 10:00 am	Introduction of Presidential Guest Speaker Ryan M. Nunley, MD, Washington University School of Medicine
10:00 am – 10:35 am	Presidential Guest Speaker Physician Entrepreneurship: From Operating Room to Board Room David L. Kirschman, MD
10:35 am – 10:55 am	Break – Please visit Exhibits Magnolia Ballroom A, B, C & D
SYMPOSIUM 2: Knee Sports Debates Moderator: Darren L. Johnson, MD, University of Kentucky Sports Medicine	
10:55 am – 11:05 am	Primary/Revision ACL: What's New in 2019? Kevin W. Farmer, MD, University of Florida Orthopaedics and Sports Medicine Institute
11:05 am – 11:15 am	Meniscal Repair: How and Why I Should Save the Meniscus Matthew J. Matava, MD, Washington University School of Medicine
11:15 am – 11:25 am	Patellofemoral Instability: When, How and Why? Brian C. Werner, MD, University of Virginia Health System
11:25 am – 11:35 am	Multiligament Injured Knee: What Must I Do and When? Jeffrey A. Guy, MD, University of South Carolina School of Medicine
11:35 am – 11:50 am	Knee Case Panel Darren L. Johnson, MD, University of Kentucky Sports Medicine
11:50 am – 12:20 pm	Focused Lunch Presentation *CME Credit Not Available Johnson & Johnson Medical Devices Co. Optimizing a Multimodal Approach to Control Postsurgical Pain Stan Dysart, MD, MBA
GENERAL SESSION 2: Research Presentations Moderators: Stephen T. Duncan, MD, University of Kentucky & Ryan M. Nunley, MD, Washington University School of Medicine	
12:20 pm – 12:26 pm	Cynthia L. Lichtefeld Travel Grant Protocol Based Dual-Antibiotic Prophylaxis Decreases TKA and THA PJI Rates Mark Lane, MD, University of Missouri
12:26 pm – 12:32 pm	Frederick C. Flandry, MD, FACS Donor Award High Early UKA Failure Rate in Morbidly Obese Patients Robert (Tyler) Ellis, MD, University of Missouri
12:32 pm – 12:38 pm	Ryan M. Nunley, MD Donor Award Intramedullary Nail Entry Point Affects Postoperative Femoral Shaft Fracture Alignment M. Wesley Honeycutt, MD, University of South Alabama
12:38 pm – 12:44 pm	Michael J. O'Brien, MD Donor Award Corticosteroid Injection Timing following Knee Arthroscopy Influences Infection Risk Michelle E. Kew, MD, University of Virginia
12:44 pm – 12:50 pm	Andrew A. Shinar, MD Donor Award The Rate of Vessel Injury in Acute Posterior Sternoclavicular Dislocation

12:50 pm – 12:56 pm	Matthew Fournier, MD, University of Tennessee - Campbell Clinic H. Clayton Thomason III, MD Donor Award Proximal Humerus Fractures Treated with Reverse Shoulder Arthroplasty vs. Hemiarthroplasty Stephen Gates, MD, University of Texas Southwestern Medical Center
12:56 pm – 1:02 pm	Scott D. Mair, MD Donor Award Surgical Treatment of Talar Osteochondral Lesion and Return to Sports Andrew M. Schwartz, MD, Emory University Orthopaedics and Spine Hospital
1:02 pm – 1:10 pm	Discussion
1:10 pm – 1:16 pm	Prospective, Randomized Trial of Standard vs Highly Cross-Linked Tibial Polyethylene in Primary Posterior-Stabilized TKA: 2 to 11 Year Follow-Up Paul F. Lachiewicz, MD, Duke University
1:16 pm – 1:22 pm	Reverse Shoulder Replacement: Incidence Rates, Complications, and Outcomes in 2,638 Patients as Reported by ABOS Part II Candidates from 2005 through 2017 Stephen Weber, MD, Johns Hopkins School of Medicine
1:22 pm – 1:28 pm	Follow-Up Radiographs after Spica Casting for Pediatric Femur Fractures: Are They Necessary? Justin Yan, BS, Louisiana State University *Presented by Bryant M. Song, MS
1:28 pm – 1:34 pm	Impact of Sleep Hygiene Education on Outcomes of Arthroplasty Patients Benjamin Stronach, MD, University of Mississippi Medical Center
1:34 pm – 1:40 pm	Postoperative CRP Changes Predict Treatment Response in Pediatric MSKI Joshua R. Daryoush, Vanderbilt University School of Medicine
1:40 pm – 1:45 pm	Discussion
ROUND TABLE DISCUSSION Cumberland A	
1:50 pm – 3:20 pm	Short-Stay Total Joint Protocols and Investing in an ASC Jeffrey D. Almand, MD, Mississippi Sports Medicine and Orthopaedic Center Ryan M. Nunley, MD, Washington University School of Medicine James O'Leary, MD, Midlands Orthopaedics & Neurosurgery Marney Reid, Surgical Care Affiliates
3:20 pm – 4:20 pm	Scientific E-Poster Session Conference Rooms 1, 2 & 3 Presenters are available to answer questions.
4:20 pm – 5:50 pm	Multimedia Education Session Magnolia Ballroom Foyer

FRIDAY, JULY 19

6:00 am – 7:00 am	Scientific E-Poster Session Conference Rooms 1, 2 & 3 Presenters are available to answer questions.
7:00 am – 7:05 am	Announcements Stephen T. Duncan, MD, Program Chair

SYMPOSIUM 3: Total Joints Debates

Moderators: C. Lowry Barnes, MD, University of Arkansas for Medical Sciences & James A. Browne, MD, University of Virginia School of Medicine

7:05 am – 7:20 am	The Anterior Approach: Better, Faster, Cost-Effective Affirms: Paul K. Edwards, MD, University of Arkansas for
-------------------	--

Scientific Program

Magnolia Ballroom E, F & G, Unless Otherwise Specified

Please check the Meeting App for room, time and speaker changes.

	Medical Sciences Against: James A. Keeney, MD, Missouri Orthopaedic Institute
7:20 am – 7:35 am	Cementless TKA: An Emergent Game Changer Affirms: Gregory G. Polkowski, MD, MSc, Vanderbilt University Medical Center Against: Brian M. Curtin, MD, Ortho Carolina
7:35 am – 7:50 am	Tourniquet-less TKA: A Miraculous Conversion Affirms: Michael Bolognesi, MD, Duke University Against: Lucian C. Warth, MD, Indiana University Health Physicians
7:50 am – 8:00 am	Questions/Discussion
8:00 am – 8:30 am	Focused Brunch Presentation – OrthAlign <i>*CME Credit Not Available</i> Clinical and Economic Perspectives of Using Handheld Portable Navigation in Knee Arthroplasty Stephen T. Duncan, MD Hand-held Navigation in Hip Arthroplasty: Efficiently Avoid Trouble Lucian C. Warth, MD
RAPID FIRE SESSION 2A: Trauma Cumberland A	
Moderators: Eric S. Moghadamian, MD, University of Kentucky & Matthew A. Mormino, MD, University of Nebraska Medical Center	
8:35 am – 8:39 am	The Effect of a Dynamic Fixation Construct on Syndesmosis Reduction M. Wesley Honeycutt, MD, University of South Alabama
8:39 am – 8:43 am	Epidemiology of Motorized Scooter Injuries in the Era of Scooter-Shares Kevin X. Farley, BS, Emory University School of Medicine
8:43 am – 8:47 am	Resident-Level Involvement Affects OR Time and Complications in Lower Extremity Fracture Care Sophia A. Traven, MD, Medical University of South Carolina
8:47 am – 8:51 am	L5 Transverse Process Fractures: Instability Predictor in Pelvic Ring Injuries M. Wesley Honeycutt, MD, University of South Alabama
8:51 am – 8:57 am	Discussion
8:57 am – 9:01 am	Efficacy of Red Cell Salvage Systems in Open Acetabular Surgery Carl L. Byrd III, DO, East Tennessee State University
9:01 am – 9:05 am	Clinical Evaluation of Distal Radius Fractures by Nonoperative Providers Matthew Fournier, MD, University of Tennessee - Campbell Clinic
9:05 am – 9:09 am	Racial Disparities in Hip Fracture Care Iman Ali, BS, Johns Hopkins University
9:09 am – 9:15 am	Discussion
RAPID FIRE SESSION 2B: Shoulder Cumberland B	
Moderators: John D. Kelly IV, MD, University of Pennsylvania & Stephen F. Brockmeier, MD, University of Virginia	
8:35 am – 8:39 am	Frailty Predicts Complications, Readmission, Reoperation and LOS after Total Shoulder Arthroplasty Russell E. Holzgrefe, MD, Emory University
8:39 am – 8:43 am	Clinical and Radiographic Comparison of Cemented and Uncemented Hybrid Glenoid Prostheses Jonathan B. Goodloe, MD, Medical University of South Carolina
8:43 am – 8:47 am	Clinical Outcomes Related to Glenoid Component Overhang in Reverse Total Shoulder Arthroplasty Ethan W. Dean, MD, University of Florida

8:47 am – 8:51 am	Electrocautery Does Not Diminish the Transmission Rate of Cutibacterium Acnes Lamar F. Callaway, MD, Augusta University
8:51 am – 8:55 am	Discussion
8:55 am – 8:59 am	Outcomes following Open Rotator Cuff Repair in Diabetics Keith Aziz, MD, Johns Hopkins Orthopedics
8:59 am – 9:03 am	Trends in Peripheral Nerve Blocks in Arthroscopic Rotator Cuff Repairs Abhinav K. Sharma, BS, David Geffen School of Medicine at UCLA
9:03 am – 9:07 am	A Retrospective Review of Physical Therapy Utilization Between Private and Medicare Insurance Groups Vani J. Sabesan, MD, Cleveland Clinic Florida <i>*Presented by Mauricio Drummond Jr., MD</i>
9:07 am – 9:11 am	Oral TXA Decreases Blood Loss after Reverse Total Shoulder Arthroplasty Thomas Ergen, MD, Palmetto Health-USC Orthopaedic Center
9:11 am – 9:15 am	Discussion
RAPID FIRE SESSION 2C: Sports Medicine Cumberland C	
Moderators: Frederick C. Flandry, MD, FACS, The Hughston Clinic & Omer A. Ilahi, MD, Southwest Orthopedic Group/Texas Arthroscopy & Sports Medicine Institute	
8:35 am – 8:39 am	Resilience Correlates with Outcomes after Reverse Total Shoulder Arthroplasty Alex Dombrowsky, University of Alabama at Birmingham <i>*Presented by Graham Kirchner</i>
8:39 am – 8:43 am	Corticosteroid Injection Timing after Shoulder Arthroscopy Affects Postoperative Infection Risk Michelle E. Kew, MD, University of Virginia
8:43 am – 8:47 am	Dialysis Dependence and Modality Impact Complication Rates following Shoulder Arthroplasty Aaron J. Casp, MD, University of Virginia
8:47 am – 8:51 am	The Association of Perioperative Glycemic Control with Adverse Outcomes after Arthroscopic Rotator Cuff Repair Aaron J. Casp, MD, University of Virginia
8:51 am – 8:55 am	Discussion
8:55 am – 8:59 am	The Effect of Turf Toe Injuries on Player Performance in the National Football League Andrew Tran, MD, George Washington University
8:59 am – 9:03 am	Primary and Revision ACL Reconstruction Using an All-Soft Tissue Quadriceps Tendon Autograft Kevin X. Farley, BS, Emory University School of Medicine <i>*Presented by Ehab Nazzal</i>
9:03 am – 9:07 am	Blumensaat's Line as a Prediction of Native Anterior Cruciate Ligament Length Frederic B. Mills IV, MS, Palmetto Health-USC Orthopaedic Center
9:07 am – 9:11 am	Perioperative 25-Hydroxyvitamin D Levels Affect Arthroscopic Rotator Cuff Repair Revision Rates Michelle E. Kew, MD, University of Virginia
9:11 am – 9:15 am	Discussion
RAPID FIRE SESSION 2D: Total Joints Conference Room 1	
Moderators: Lucian C. Warth, MD, Indiana University Health Physicians & Paul K. Edwards, MD, University of Arkansas for Medical Sciences	
8:35 am – 8:39 am	Hip or Spine Surgery First? A Survey of Treatment Order by Hip Society Members Paul F. Lachiewicz, MD, Duke University
8:39 am – 8:43 am	Postoperative Radiographic Outcomes in Revision Hip Arthroplasty – Approach Matters Jacob M. Wilson, MD, Emory University

Scientific Program

Magnolia Ballroom E, F & G, Unless Otherwise Specified

Please check the Meeting App for room, time and speaker changes.

8:43 am – 8:47 am	Conversion of Hip Resurfacing to Total Hip Arthroplasty – Improved Function, Low Dislocation, Sacrificed Bone Stock Charles Carrier, MD, Brigham and Women's Hospital/Harvard Medical School
8:47 am – 8:51 am	Undersedation during Total Hip Arthroplasty Reduction Results in Worse Patient Outcomes Sean P. Ryan, MD, Duke University Medical Center
8:51 am – 8:55 am	Discussion
8:55 am – 8:59 am	Utility of One-Year Follow-Up after Total Hip and Knee Arthroplasty Maria Schwabe, BS, Washington University School of Medicine
8:59 am – 9:03 am	Risk of Complications following Total Hip Arthroplasty in Patients with Multiple Sclerosis Nicole D. Quinlan, MD, MS, University of Virginia Health System
9:03 am – 9:07 am	The Clinical Relevance of Functional Pelvic Tilt: A Preoperative Analysis of 1,111 Patients Michael A. Miranda, DO, Brandon, FL
9:07 am – 9:11 am	Higher Early Revision with Patient Specific CR-TKA than Contemporary PS-TKA James A. Keeney, MD, University of Missouri
9:11 am – 9:15 am	Discussion

RAPID FIRE SESSION 2E: Foot & Ankle Conference Room 2

Moderator: Arjun K. Srinath, MD, MPH, University of Kentucky

8:35 am – 8:39 am	Prevalence of Asymptomatic Posterior Tibial Tendinopathy Frederic B. Mills IV, MS, Palmetto Health-USC Orthopaedic Center
8:39 am – 8:43 am	Tibiototalcanal Arthrodesis Using a Novel Retrograde Intramedullary Nail John Steele, MD, Duke University Medical Center
8:43 am – 8:47 am	Effect of Immobilization Devices on Contact Pressures of the Ankle Niall A. Smyth, MD, Medstar Union Memorial Hospital *Presented by Pooyan Abbasi, MSc
8:47 am – 8:51 am	Influence of Calcaneal and Cotton Osteotomies on Ankle Contact Pressures Cesar de Cesar Netto, MD, PhD, Medstar Union Memorial Hospital *Presented by Niall A. Smyth, MD
8:51 am – 8:55 am	Discussion
8:55 am – 8:59 am	Comparison of Short-Term Outcomes after Ankle Replacement and Ankle Arthrodesis Junho Ahn, BS, University of Texas Southwestern Medical Center *Presented by Stephen B. Wallace, MD
8:59 am – 9:03 am	Hindfoot Alignment after Total Ankle Replacement Sophia A. Traven, MD, Medical University of South Carolina
9:03 am – 9:07 am	Early Outcomes following Dorsal Denervation of the Midfoot for Management of Arthritic Pain Glenn G. Shi, MD, Mayo Clinic, Jacksonville *Presented by Arun Kumar, MD
9:07 am – 9:11 am	Early Outcomes of 3D Printed Total Talus Arthroplasty John Steele, MD, Duke University
9:11 am – 9:15 am	Discussion

RAPID FIRE SESSION 2F: Hip Preservation and Pediatric Sports

Conference Room 3

Moderators: James R. Ross, MD, BocaCare Orthopedics & Jeffrey J. Nepple, MD, Washington University School of Medicine

8:35 am – 8:39 am	Is there a Relationship between Severity of Hip Dysplasia and Patient Reported Pain?
-------------------	--

8:39 am – 8:43 am	Acetabular Subchondral and Cortical Perforation during Labral Repair with Suture Anchors: Influence of Portal Location, Curved vs Straight Drill Guides, and Drill Start Point Adam J. Money, MD, Palmetto Health-USC Orthopaedic Center *Presented by Matthew J. Pacana, MD
8:43 am – 8:47 am	Arthroscopic Management of the Crossover Sign as a Function of Acetabular Coverage: Does Dysplasia Change Things? Dominic S. Carreira, MD, Peachtree Orthopedics
8:47 am – 8:51 am	Iliopsoas Pathology and Procedures from a Large Multicenter Hip Arthroscopy Study Group Dominic S. Carreira, MD, Peachtree Orthopedics
8:51 am – 8:57 am	Discussion
8:57 am – 9:01 am	Sleep Disturbance in Patients with Femoroacetabular Impingement and Acetabular Dysplasia Nisha Reddy, BA, University of Texas Southwestern Medical Center
9:01 am – 9:05 am	Secondary Injuries More Prevalent for Females following Pediatric ACL Reconstruction: A Systematic Review Anthony J. Zacharias, MD, University of Kentucky
9:05 am – 9:09 am	Incidence of Meniscal Ramp Lesions in a Pediatric Population with Acute Anterior Cruciate Ligament Ruptures Jacob B. Stirton, MD, University of Kentucky *Presented by Kyle Boden, MD
9:09 am – 9:15 am	Discussion
9:15 am – 9:35 am	Break – Please visit Exhibits Magnolia Ballroom A, B, C & D
GENERAL SESSION 3: AAOS Report & Distinguished Southern Orthopaedist	
Moderator: Ryan M. Nunley, MD, Washington University School of Medicine	
9:35 am – 9:50 am	AAOS Report Kristy L. Weber, MD, AAOS President, University of Pennsylvania
9:50 am – 9:55 am	Introduction of Distinguished Southern Orthopaedist Ryan M. Nunley, MD, Washington University School of Medicine
9:55 am – 10:40 am	Distinguished Southern Orthopaedist Advances in the Treatment of Ankle Arthritis: Where are We Now? James A. Nunley II, MD, Durham, NC
10:40 am – 11:00 am	Break – Please visit Exhibits Magnolia Ballroom A, B, C & D
SYMPOSIUM 4: Shoulder	
Moderator: Scott D. Mair, MD, University of Kentucky Sports Medicine	
11:00 am – 11:10 am	SLAP Lesions/Biceps Anchor Injuries: Do We Ever Repair Anymore? Stephen F. Brockmeier, MD, University of Virginia
11:10 am – 11:20 am	Anterior Shoulder Instability – Arthroscopic to Open to Bony Augmentation Michael J. O'Brien, MD, Tulane University
11:20 am – 11:30 am	Rotator Cuff Repair: Mobilization, Fixation, Augmentation Scott D. Mair, MD, University of Kentucky Sports Medicine
11:30 am – 11:40 am	Glenohumeral Arthritis: Treatment Options for the Young to the Old Patient Kevin W. Farmer, MD, University of Florida Orthopaedics and Sports Medicine Institute
11:40 am – 11:50 am	Discussion
11:50 am – 12:20 pm	Focused Lunch Presentation *CME Credit Not Available Flexion Therapeutics

Scientific Program

Magnolia Ballroom E, F & G, Unless Otherwise Specified

Please check the Meeting App for room, time and speaker changes.

Localized Treatment for Osteoarthritis Knee Pain with a Novel Intra-articular Formulation
Dr. Hari Bezawada

SYMPOSIUM 5: Hip Preservation

Moderator: Jeffrey J. Nepple, MD, Washington University School of Medicine

- 12:20 pm – 12:30 pm Femoroacetabular Impingement: 3D Deformity Characterization and Correction
James R. Ross, MD, BocaCare Orthopedics
- 12:30 pm – 12:40 pm Labral Reconstruction – Current Evidence and Technical Tips
Scott C. Faucett, MD, MS, The Orthopaedic Center
- 12:40 pm – 12:50 pm Hip Instability: Acetabular, Femoral, and Soft Tissue Pathology and Treatment
Jeffrey J. Nepple, MD, Washington University School of Medicine
- 12:50 pm – 1:00 pm Abductor Tears – Diagnosis and Treatment Options
Stephen T. Duncan, MD, University of Kentucky
- 1:00 pm – 1:10 pm Hip Preservation Cases – Panel

ROUND TABLE DISCUSSION Cumberland A

- 1:15 pm – 2:45 pm Knee Sports Case Discussion
Darren L. Johnson, MD University of Kentucky Sports Medicine

RESIDENT COURSE Cumberland B & C

Moderator: Marney Reid, Surgical Care Affiliates

- 1:15 pm – 2:45 pm How to Get a Job in Your Ideal Employment Model
Patrick Joyner, MD, Neuroscience and Spine Associates
Wesley Greer, MD, WRMC Orthopaedic and Sports Medicine Clinic
Michael J. O'Brien, MD, Tulane University

Topics:

- How to Pick the Right Fellowship
- Utilizing Fellowship to Prepare for Practice
- Picking the Employment Model that Aligns with Your Goals
- Networking and Interviewing for the Ideal Job
- Contractual Obligations Watch Outs
- Contract Compensation Models
- Finding Your Niche and Building Your Brand
- Being a Good Junior Partner

- 2:45 pm – 3:45 pm Scientific E-Poster Session
Conference Rooms 1, 2 & 3
Presenters are available to answer questions.
- 3:45 pm – 4:45 pm Multimedia Education Session **Magnolia Ballroom Foyer**

SATURDAY, JULY 20

- 6:00 am – 7:00 am Scientific E-Poster Session
Conference Rooms 1, 2 & 3
Presenters are available to answer questions.
- 6:00 am – 7:00 am **Women in Orthopaedics Forum** Cumberland C
Challenging Situations and How to Handle Them
Cynthia L. Emory, MD, MBA, Wake Forest Baptist Health
- 7:00 am – 7:10 am Second Business Meeting
- 7:10 am – 7:15 am Announcements
Stephen T. Duncan, MD, Program Chair

SYMPOSIUM 6: Trauma

Moderator: Eric S. Moghadamian, MD, University of Kentucky

- 7:15 am – 7:35 am **Management of Tibia Fractures**
Suprapatellar Nailing: Thomas M. Large, MD, Mission Hospital
Infrapatellar Nailing: Langdon A. Hartsock, MD, Medical University of South Carolina

7:35 am – 7:55 am

7:55 am – 8:15 am

8:15 am – 8:45 am

GENERAL SESSION 4: Resident/Fellow Award Session

Moderators: Stephen T. Duncan, MD, University of Kentucky & Ryan M. Nunley, MD, Washington University School of Medicine

- 8:45 am – 8:51 am **SOA Presidents' Resident Award Winner**
Return to Duty after Medial Patellofemoral Ligament Reconstruction in Military Servicemembers
Colleen Moreland, DO, Dwight D. Eisenhower Army Medical Center
- 8:51 am – 8:57 am **Harley & Betty Baxter Resident Award Winner**
Evaluation of the Standardized Recommendation Letter for Orthopedic Resident Applicants
Matthew J. Pacana, MD, Palmetto Health-USC Orthopaedic Center
- 8:57 am – 9:03 am **Harley & Betty Baxter Resident Award Winner**
Effects of Tablet Count and Pre-Operative Education on Opioid Utilization After ACL Reconstruction
Kevin X. Farley, BS, Emory University School of Medicine
- 9:03 am – 9:09 am **SOA/OREF Resident Award Winner**
Missing Data: How it Affects the Identification of Risk Factors for Shoulder Surgery Complications
Keith Aziz, MD, Johns Hopkins Orthopedics
- 9:09 am – 9:15 am **SOA/OREF Resident Award Winner**
Variability in Opioid Administration after Fixation of Supracondylar Humerus Fractures
Jonathan B. Goodloe, MD, Medical University of South Carolina
- 9:15 am – 9:21 am **SOA/OREF Resident Award Winner**
Elevated BMI Predicts Concurrent Surgical Pathology at the Time of Pediatric ACL Reconstruction
Sophia A. Traven, MD, Medical University of South Carolina
- 9:21 am – 9:27 am **Harley & Betty Baxter Resident Travel Grant Award Winner**
Chondrotoxicity of Penicillin G as Intrawound Antibiotic Powder for P. Acnes Prevention
Nischal S. Nadig, DO, Dwight D. Eisenhower Army Medical Center
- 9:27 am – 9:33 am **SOA Resident Travel Grant Award Winner**
Spine Patients Demystified: What are the Predictive Factors of Poor Surgical Outcome in Patients after Elective Lumbar Spine Surgery?
José H. Jiménez-Almonte, MD, MS, University of Kentucky
- 9:33 am – 9:39 am **SOA Resident Travel Grant Award Winner**
Does Early Mobilization Affect Range of Motion and Clinical Outcomes after a Reverse Shoulder Arthroplasty?
Vani J. Sabesan, MD, Cleveland Clinic Florida
*Presented by Mauricio Drummond Jr., MD
- 9:39 am – 9:45 am **SOA Resident Travel Grant Award Winner**
Defining Responders vs Non-Responders after Total Ankle Arthroplasty
John Steele, MD, Duke University Medical Center
- 9:45 am – 9:55 am Discussion
- 9:55 am – 10:20 am **Break – Please visit Exhibits** Magnolia Ballroom A, B, C & D
- GENERAL SESSION 5: BOC Report and Presidential Address**
Moderator: Stephen T. Duncan, MD, University of Kentucky

Scientific Program

Magnolia Ballroom E, F & G, Unless Otherwise Specified

Please check the Meeting App for room, time and speaker changes.

- 10:20 am – 10:30 am BOC Report
[Frederick C. Flandry, MD, FACS, The Hughston Clinic](#)
- 10:30 am – 10:35 am Introduction of Presidential Address
[Stephen T. Duncan, MD, University of Kentucky](#)
- 10:35 am – 11:05 am **Presidential Address**
Family Affair
[Ryan M. Nunley, MD, Washington University Orthopedics](#)

SYMPOSIUM 7: Spine

Moderator: Christopher A. Heck, MD, Southlake Orthopaedics

- 11:05 am – 11:25 am **Sacroiliitis**
Symptoms and Physical Examination:
[R. Carter Cassidy, MD, University of Kentucky](#)
Anatomy and Biomechanics:
[Gregory Grabowski, MD, Palmetto Health - University of South Carolina](#)
Results of SI Joint Fusion:
[Christopher A. Heck, MD, Southlake Orthopaedics](#)
- 11:25 am – 11:45 am **Cervical Disc Arthroplasty**
History of ACDF and Disc Replacement:
[R. Carter Cassidy, MD, University of Kentucky](#)
Results of Cervical Disc Replacement:
[Christopher A. Heck, MD, Southlake Orthopaedics](#)
- 11:45 am – 12:00 pm Questions/Discussion

RAPID FIRE SESSION 3A: Hand and Upper Extremity Magnolia C

Moderators: Maureen A. O'Shaughnessy, MD, University of Kentucky & Eric R. Wagner, MD, Emory University

- 12:05 pm – 12:09 pm Effect of Diabetes on Complications following Elective Hand Surgery
[Michael Del Core, MD, University of Texas Southwestern Medical Center](#)
- 12:09 pm – 12:13 pm Suture Button Suspensionplasty and Carpometacarpal Arthritis: Nine Years of Experience
[Nathaniel B. Walter, BS, Medical College of Georgia](#)
- 12:13 pm – 12:17 pm Elevated BMI Predicts Increased Intra-Articular Comminution in Distal Radius Fractures
[Jonathan B. Goodloe, MD, Medical University of South Carolina](#)
- 12:17 pm – 12:21 pm Scaphoid Fractures Treated with Two Headless Compression Screw Techniques
[Thomas Ergen, MD, Palmetto Health-USC Orthopaedic Center](#)
- 12:21 pm – 12:25 pm Discussion
- 12:25 pm – 12:29 pm Outcomes after A1 Pulley Resection vs Release for Trigger Finger
[Porter Young, MD, University of Florida](#)
*Presented by [Jeb Williams, MD](#)
- 12:29 pm – 12:33 pm Misvaluation of Hospital-Based Upper Extremity Surgery across Payment, Relative Value Units, and Operative Time
[Suresh K. Nayar, MD, Johns Hopkins Hospital](#)
- 12:33 pm – 12:37 pm Equivalent PROMIS Scores after Nonoperative or Operative Treatment of Carpometacarpal Osteoarthritis of the Thumb
[Suresh K. Nayar, MD, Johns Hopkins Hospital](#)
- 12:37 pm – 12:41 pm The Effect of Malnutrition on Postoperative Complications following Surgery for Distal Radius Fractures
[Jacob M. Wilson, MD, Emory University](#)
- 12:41 pm – 12:45 pm Discussion

RAPID FIRE SESSION 3B: Foot & Ankle/Tumors Cumberland B

Moderators: Andre Spiguel, MD, University of Florida & Arjun K. Srinath, MD, MPH, University of Kentucky

- 12:05 pm – 12:09 pm Survivorship following Surgical Resection of the Primary Tumor in the Setting of Metastatic Soft Tissue Sarcoma
[Sophia A. Traven, MD, Medical University of South Carolina](#)
- 12:09 pm – 12:13 pm A Multicentered Prospective Randomized Controlled Trial of Negative Pressure Wound Therapy for Preoperatively Irradiated Soft Tissue Sarcoma Wounds
[Sophia A. Traven, MD, Medical University of South Carolina](#)
- 12:13 pm – 12:17 pm Beaming Screw Midfoot Charcot Reconstruction with and without Subtalar Arthrodesis
[Junho Ahn, BS, University of Texas Southwestern Medical Center](#)
*Presented by [Stephen B. Wallace, MD](#)
- 12:17 pm – 12:21 pm Mobility Limitation is Greater After Surgery for Degenerative Foot and Ankle Pathology than Total Hip Arthroplasty
[Gregory Kurkis, MD, Emory University](#)
- 12:21 pm – 12:25 pm Discussion
- 12:25 pm – 12:29 pm Outcomes of Novel Biplanar Plating System for Hallux Valgus Correction
[Kshitij Manchanda, MD, University of Texas Southwestern Medical Center](#)
*Presented by [Stephen B. Wallace, MD](#)
- 12:29 pm – 12:33 pm New Technique for Intramedullary Screw Fixation of Fifth Metatarsal Fracture
[Andrew M. Schwartz, MD, Emory University Orthopaedics and Spine Hospital](#)
*Presented by [Faris A. Mirza, BS](#)
- 12:33 pm – 12:37 pm Innervation of the Dorsal Midfoot Capsule: An Anatomic and Clinical Study
[Glenn G. Shi, MD, Mayo Clinic, Jacksonville](#)
- 12:37 pm – 12:41 pm Complications and Radiographic Outcomes of Cotton Osteotomy with a Titanium Wedge in Flatfoot Deformity Correction Surgery
[Tyler W. Fraser, MD, Chattanooga, TN](#)
- 12:41 pm – 12:45 pm Discussion

RAPID FIRE SESSION 3C: Pediatrics Cumberland C

Moderators: Joseph D. Stone, MD, University of North Carolina & Michael P. Horan, MD, MS, Palmetto Health - University of South Carolina

- 12:05 pm – 12:09 pm Pediatric Tibial Eminence Fractures: Novel Treatment using a Bioabsorbable Screw
[M. Wesley Honeycutt, MD, University of South Alabama](#)
- 12:09 pm – 12:13 pm The Role of Obesity on Cast Index and Secondary Intervention in Pediatric Forearm Fractures
[Ted S. Samaddar, MD, MPH, Medical University of South Carolina](#)
- 12:13 pm – 12:17 pm Epidemiology and CRP as Diagnostic Adjuncts in Pediatric Knee Infections
[Joseph T. Gibian, BS, Vanderbilt University School of Medicine](#)
- 12:17 pm – 12:21 pm Combining Guided Growth with ACL Reconstruction to Correct Pre-Operative Malalignment in Skeletally Immature Patients
[Colleen Moreland, DO, Dwight D. Eisenhower Army Medical Center](#)
- 12:21 pm – 12:25 pm Discussion
- 12:25 pm – 12:29 pm Casting for Early Onset Scoliosis: Comparison of Three Different Materials
[Bryant M. Song, MS, Louisiana State University](#)
- 12:29 pm – 12:33 pm Intraoperative Burden of Flexible Intramedullary Nailing and Spica Casting in Young Children
[Bryant M. Song, MS, Louisiana State University](#)

Scientific Program Magnolia Ballroom E, F & G, Unless Otherwise Specified

Please check the Meeting App for room, time and speaker changes.

- 12:33 pm – 12:37 pm Author-Reported Affiliations on Accepted Abstracts at POSNA Annual Meeting
Robert Murphy, MD, Medical University of South Carolina
*Presented by Jonathan B. Goodloe, MD
- 12:37 pm – 12:41 pm Failed Closed Reduction of Pediatric Femur Fractures with Flexible Nailing
William L. Shelton, MD, Louisiana State University School of Medicine
- 12:41 pm – 12:45 pm Discussion

RAPID FIRE SESSION 3D: Spine Conference Room 1

Moderators: Christopher A. Heck, MD, Southlake Orthopaedics & R. Carter Cassidy, MD, University of Kentucky

- 12:05 pm – 12:09 pm Pre-Operative Mood Disorder Diagnosis is Predictive of Post-Operative Course after Elective Cervical Spine Surgery
José H. Jiménez-Almonte, MD, MS, University of Kentucky
- 12:09 pm – 12:13 pm Percutaneous Stabilization of Traumatic Lumbar and Thoracic Spine Fractures: A Retrospective Review
Nathan J. Kopydlowski, MD, Saint Louis University
- 12:13 pm – 12:17 pm Tobacco Use is Associated with Worse Patient-Reported Outcomes following Elective Cervical Spine Surgery
José H. Jiménez-Almonte, MD, MS, University of Kentucky
- 12:17 pm – 12:21 pm Validation of a Wireless, Non-Optical System for Measurement of Intra-Operative Spine Alignment
Tapan Daftar, MD, Resurgens Orthopaedics
- 12:21 pm – 12:25 pm Discussion
- 12:25 pm – 12:29 pm What's the Shelf Life of Titanium Screws in Spinal Surgery?
Ryan Mayer, BS, MD, University of Kentucky
- 12:29 pm – 12:33 pm Complications in Sleep Apnea Patients Undergoing 1- to 2-Level Lumbar Fusion
Bijan J. Ameri, DO, Holy Cross Hospital
- 12:33 pm – 12:37 pm Online Ratings of Spinal Deformity Surgeons: Analysis of 634 Surgeons
Giresse Melone, University of Texas Medical Branch
- 12:37 pm – 12:41 pm Revision Anterior Cervical Discectomy and Fusion using Porous PEEK Implants
J. Kenneth Burkus, MD, The Hughston Clinic
- 12:41 pm – 12:45 pm Discussion

RAPID FIRE SESSION 3E: Academic Orthopaedics and Practice Management Conference Room 2

Moderators: Stephen T. Duncan, MD, University of Kentucky & Brian M. Curtin, MD, Ortho Carolina

- 12:05 pm – 12:09 pm Compliance with One-Year Follow-Up after Total Hip and Knee Arthroplasty
Maria Schwabe, BS, Washington University in St. Louis School of Medicine
- 12:09 pm – 12:13 pm Innate Arthroscopic Skill: A Review of Predictive Performance Indicators in Novices
Eric Mason, BS, Orlando Health/UCF College of Medicine
- 12:13 pm – 12:17 pm Predictors of Performance on the Arthrobox Arthroscopy Simulator for Medical Students
Bradley Richey, MS, BS, Orlando Health/UCF College of Medicine
- 12:17 pm – 12:21 pm Patient Understanding and Attitudes Toward Opioid Medications
Vani J. Sabesan, MD, Cleveland Clinic Florida
*Presented by Mauricio Drummond Jr., MD
- 12:21 pm – 12:25 pm Discussion

- 12:25 pm – 12:29 pm Regenerative Medicine: What Can It Do for Me?
Vani J. Sabesan, MD, Cleveland Clinic Florida
*Presented by Mauricio Drummond Jr., MD
- 12:29 pm – 12:33 pm Quality of Online Information Regarding PRP Injections for Knee Osteoarthritis
Rowdy Lee, MHS, PA-C, University of Mississippi Medical Center
*Presented by Benjamin Stronach, MD
- 12:33 pm – 12:37 pm Responsiveness of Patient-Reported Outcome Tools in Shoulder Arthroplasty
Kevin J. Cronin, MD, University of Kentucky
- 12:37 pm – 12:41 pm Implementation of a Standardized Care Pathway for Total Knee Arthroplasty
Daniel Gelvez, BS, University of Texas Southwestern Medical Center
- 12:41 pm – 12:45 pm Discussion

RAPID FIRE SESSION 3F: Total Joints Conference Room 3

Moderators: C. Lowry Barnes, MD, University of Arkansas & Paul K. Edwards, MD, University of Arkansas for Medical Sciences

- 12:05 pm – 12:09 pm Assessment of Online Information Regarding Mesenchymal Stem Cell Osteoarthritis Treatment
Jack G. Tharp, MD, University of Mississippi Medical Center
- 12:09 pm – 12:13 pm The Clinical Variation in Functional Pelvic Tilt between THA Patients with and without Spinal Fusion
Michael A. Miranda, DO, Brandon, FL
- 12:13 pm – 12:17 pm Protein Power: The Role of Malnutrition in 90-day Outcomes after Total Joint Arthroplasty
Collin S. Black, MS3, Duke University Medical Center
- 12:17 pm – 12:21 pm The Evolution of 2 to 1 Stage Treatments of PJI's: First 500 Cases
Gerhard E. Maale III, MD, Dallas Ft. Worth Sarcoma Group/Medical City Plano
- 12:21 pm – 12:25 pm Discussion
- 12:25 pm – 12:29 pm Rheumatoid Arthritis Increases 90-Day Complications after Primary Total Knee Arthroplasty
Ajit M. Vakharia, BS, Morehouse School of Medicine
- 12:29 pm – 12:33 pm Diagnosing PJI: Disparities in Single Synovial Fluid Sample Sent to Separate Centers
Kevin X. Farley, BS, Emory University School of Medicine
- 12:33 pm – 12:37 pm Anterior Revision Total Hip Arthroplasty is Associated with Decreased Postoperative Instability Compared to Posterior Revision Surgery
Gregory Kurkis, MD, Emory University
- 12:37 pm – 12:41 pm Sequential Total Joint Arthroplasties: Are We Learning?
Cierra S. Hong, BA, Duke University Medical Center
- 12:41 pm – 12:45 pm Discussion

ROUND TABLE DISCUSSION WITH LUNCH Cumberland A

- 12:50 pm – 1:50 pm Shoulder Case Discussion
Chaitu S. Malempati, DO, University of Kentucky
- 1:50 pm – 2:50 pm Scientific E-Poster Session
Conference Rooms 1, 2 & 3
Presenters are available to answer questions.
- 2:50 pm – 3:50 pm Multimedia Education Session **Magnolia Ballroom Foyer**

Scientific Poster Presentations

Thursday, July 18: 6:00 am – 7:00 am / 3:20 pm – 4:20 pm

Friday, July 19: 6:00 am – 7:00 am / 2:45 pm – 3:45 pm

Saturday, July 20: 6:00 am – 7:00 am / 1:50 pm - 2:50 pm

Please check the Meeting App
for room, time and presenter
changes.

STATION D Conference Room 1

BASIC SCIENCE

Poster 1: Returning from AVN in Perthes Disease: The Lazarus Hip
Joshua R. Daryoush, Vanderbilt University School of Medicine

Poster 2: Aged Mice Demonstrate Greater Muscle Degeneration After Rotator Cuff Injury
Abhinav K. Sharma, BS, David Geffen School of Medicine at UCLA

FOOT & ANKLE

Poster 3: Peri-Operative Outcomes of Patients with Rheumatoid Arthritis Undergoing Ankle Arthroplasty or Arthrodesis
Kevin X. Farley, BS, Emory University School of Medicine

Poster 4: Racial and Ethnic Disparities Persist in Lower Extremity Amputation for Limb Ischemia and Infection
Sophia A. Traven, MD, Medical University of South Carolina

Poster 5: MALDI-TOF Analysis of K-Wire Biofilms: A Pilot Study
Sophia A. Traven, MD, Medical University of South Carolina

SPINE

Poster 6: Does Increased Length-of-Stay Increase 90-Day Readmission Rates following Spine Surgery
Bijan J. Ameri, DO, Holy Cross Hospital

Poster 7: Semi-Automated Method for Calculation of Sagittal Alignment from CT Scans
Tapan Daftar, MD, Resurgens Orthopaedics

SHOULDER & ELBOW

Poster 8: The Impact of Gender on Perioperative Complications in Primary Elective Total Shoulder Arthroplasty and Reverse Total Shoulder Arthroplasty
Keith Aziz, MD, Johns Hopkins Orthopedics

Poster 9: Outcomes following Shoulder Surgery in Patients on Chronic Steroids
Keith Aziz, MD, Johns Hopkins Orthopedics

Poster 10: Blood Utilization in Patients Undergoing Total Shoulder Arthroplasty
Matthew J. Best, MD, Johns Hopkins Orthopedics

Poster 11: Red Cell Distribution of Width: A Novel Predictor of Mortality and Complications following Primary Shoulder Arthroplasty
Aaron J. Casp, MD, University of Virginia

Poster 12: Variation in Physical Therapy Protocols following Total Shoulder Arthroplasty
Alex Dombrowsky, University of Alabama at Birmingham
*Presented by Graham Kirchner

Poster 13: Is Handgrip Strength Associated with Outcomes following Total Shoulder Arthroplasty?
Francisco Eguia, BA, Johns Hopkins Hospital

Poster 14: Projections of Total and Reverse Shoulder Arthroplasty in The United States to 2025
Kevin X. Farley, BS, Emory University School of Medicine

Poster 15: Peri-Operative Outcomes of Patients with Chronic Kidney Disease Undergoing Shoulder Arthroplasty
Kevin X. Farley, BS, Emory University School of Medicine

Poster 16: The Effect of Tobacco Smoking on Short-Term Outcomes in the Shoulder Arthroplasty Patient
Kevin X. Farley, BS, Emory University School of Medicine

Poster 17: Residual Tendon Length Doesn't Predict Arthroscopic Rotator Cuff Repair Outcomes
Michael J. Kissenberth, MD, Hawkins Foundation
*Presented by Jared Hudspeth, MD

STATION E Conference Room 2

SHOULDER & ELBOW

Poster 18: Posterior Rotator Cuff Fatty Infiltration Doesn't Influence Lateralized rTSA Outcomes
Allyson Sandago, Hawkins Foundation
*Presented by Jared Hudspeth, MD

Poster 19: Micromotion and Strength of the Glenoid Component in rTSA
Michael J. Kissenberth, MD, Hawkins Foundation
*Presented by Jared Hudspeth, MD

Poster 20: Complications in Sleep Apnea Patients Undergoing 1- to 2-Level Lumbar Fusion
Joseph Palmer, DO, Holy Cross Hospital

Poster 21: Outcomes Following Open Rotator Cuff Repair in Smokers
Matthew J. Best, MD, Johns Hopkins Orthopedics

Poster 22: Outcome Scores Utilized for Management of Proximal Humerus Fractures
George J. Richard, BS, MD, University of Florida

Poster 23: Precision and Accuracy of 3-D Preoperative Planning for Humeral Head Implant Size Selection in Shoulder Arthroplasty
Vani J. Sabesan, MD, Cleveland Clinic Florida
*Presented by Mauricio Drummond Jr., MD

Poster 24: Does Tuberosity Healing Affect the Biomechanics of Reverse Shoulder Arthroplasty?
Vani J. Sabesan, MD, Cleveland Clinic Florida
*Presented by Mauricio Drummond Jr., MD

Poster 25: Does Acromion Anatomy Affect Acromion Stress Fracture after Reverse Shoulder Arthroplasty?
Vani J. Sabesan, MD, Cleveland Clinic Florida
*Presented by Mauricio Drummond Jr., MD

Poster 26: Accuracy of 3D Preoperative Software Templating in Shoulder Arthroplasty
Vani J. Sabesan, MD, Cleveland Clinic Florida
*Presented by Mauricio Drummond Jr., MD

Poster 27: Prediction of Impingement-Free Range of Motion Prior to Reverse Shoulder Arthroplasty
Vani J. Sabesan, MD, Cleveland Clinic Florida
*Presented by Mauricio Drummond Jr., MD

Scientific Poster Presentations

Thursday, July 18: 6:00 am – 7:00 am / 3:20 pm – 4:20 pm

Friday, July 19: 6:00 am – 7:00 am / 2:45 pm – 3:45 pm

Saturday, July 20: 6:00 am – 7:00 am / 1:50 pm - 2:50 pm

Please check the Meeting App
for room, time and presenter
changes.

HAND & WRIST

Poster 28: Avocado-Related Knife Injuries: Describing an Epidemic of Preventable Hand Injury

Kevin X. Farley, BS, Emory University School of Medicine

Poster 29: Accuracy of Physical Examination Compared with Ultrasound for Detection of the Palmaris Longus Tendon

Russell E. Holzgrefe, MD, Emory University

Poster 30: Jersey Finger Repair Technique

Roberto A. Miki, MD, Miki & Alfonso Hand & Upper Extremity Center

TOTAL HIP

Poster 31: Normal Pressure Hydrocephalus Increases Risk of Postoperative Complications following THA

Dennis Chen, MD, University of Virginia

*Presented by Nicole D. Quinlan, MD, MS

Poster 32: Femoral Head Center: A Reliable Landmark For Restoring Leg Lengths?

David A. Ibrahim, MD, Florida Orthopaedic Institute

*Presented by Michael A. Miranda, DO

Poster 33: General Anesthesia is Associated with Greater Rates of Complications Compared to Spinal Anesthesia in the Revision Hip Arthroplasty Patient

Jacob M. Wilson, MD, Emory University

TOTAL JOINT

Poster 34: The Cost of Isolated Complications in Patients Undergoing Joint Arthroplasty

Kevin X. Farley, BS, Emory University School of Medicine

STATION F Conference Room 3

SPORTS MEDICINE

Poster 35: The Reliability of Commonly Used Radiographic Parameters in the Evaluation of the Pre-Arthritic Hip: A Systematic Review

Dominic S. Carreira, MD, Peachtree Orthopedics

Poster 36: Impact of Nerve Blocks on Function Following ACLR: Systematic Review

Matthew Edwards, BS, Medical University of South Carolina

Poster 37: Youth Overhead Athlete Assessment in South Carolina: A Family Survey

Jonathan B. Goodloe, MD, Medical University of South Carolina

Poster 38: Shoulder Instability Influences WOSI Scores, not ASES, Return to Sport

Michael J. Kissenberth, MD, Hawkins Foundation

*Presented by Jared Hudspeth, MD

Poster 39: Assessment of Safe Cartilage Harvesting Quantity in the Ankle: A Cadaveric Study

Michael C. O'Brien, BS, MA, UF Orthopaedics and Sports Medicine Institute

TOTAL KNEE

Poster 40: Acute Postoperative Outcomes for Cemented vs. Cementless Primary Total Knee Arthroplasty

Vuong B. Nguyen, MD, Optimotion Orthopaedics

Poster 41: Sensor-Assisted Total Knee Arthroplasty Improves Outcomes in Patients

Rushabh M. Vakharia, MD, Holy Cross Hospital

Poster 42: General vs. Spinal Anesthesia for Revision Total Knee Arthroplasty: Do Complication Rates Differ?

Jacob M. Wilson, MD, Emory University

UPPER EXTREMITY

Poster 43: The Effect of Implant Choice and Surgical Approach on Biceps Tenodesis Strength: A Systematic Review and Meta-Regression

Hiroshi Aida, Johns Hopkins University School of Medicine

Poster 44: Can Reverse Total Shoulder Arthroplasty Help Reverse the Opioid Epidemic?

Alexander Bitzer, MD, Johns Hopkins University

Poster 45: Contribution of Comorbidities to Healthcare Utilization Following Shoulder Arthroplasty

Kevin X. Farley, BS, Emory University School of Medicine

Poster 46: Redefining High-Volume Centers in Shoulder Arthroplasty: A Nationwide Analysis

Kevin X. Farley, BS, Emory University School of Medicine

Poster 47: Humeral Stem Lucencies Correlate with Worse Clinical Outcomes in Anatomic Total Shoulder Arthroplasty

Gregory Y. LaChaud, MD, University of Florida

Poster 48: In Adult Patients with Chronic Lateral Epicondylitis, are Corticosteroid Joint Injections More Effective for Pain Management than Platelet-Rich Plasma Joint Injections?

Rachel Murray, BS, University of Texas

Poster 49: Misvaluation of Shoulder and Elbow Surgery Across Payment, wRVU, and Operative Time

Suresh K. Nayar, MD, Johns Hopkins Hospital

Poster 50: Frailty Predicts Medical Complications, Readmission, and Mortality in Total Shoulder Arthroplasty

Sophia A. Traven, MD, Medical University of South Carolina

See you next Summer at The Greenbrier



July 22-25, 2020
The Greenbrier
White Sulphur Springs, WV