

NORTH CAROLINA ORTHOPAEDIC ASSOCIATION

2021 Annual Meeting



October 29-31, 2021
Pinehurst Resort, Pinehurst, NC

This continuing medical education activity is jointly provided by the
North Carolina Orthopaedic Association and Southern Regional Area Health Education Center.

2021 NCOA Annual Meeting

Target Audience and Purpose

The NCOA Annual Meeting is designed as an opportunity for orthopaedic surgeons, fellows, and residents in training to exchange expertise and novel ideas, and to advance the practice of orthopaedics to improve care for the citizens of North Carolina.

Objectives

- » Data regarding administrative practice management including but not limited to determining which patients are candidates for inpatient vs. outpatient surgery; risk factors for postoperative complications, and financial consequences of differing treatment strategies.
- » Updates on evidence-based recommendations for controversial topics in orthopaedic surgery
- » Updates in surgical techniques.

Credit Statement

AMA PRA Category 1 Credit™ - 6.5 hours

The Southern Regional AHEC designates this live activity for a maximum of 6.5 *AMA PRA Category 1 Credit(s)™*. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

Accreditation

This activity has been planned and implemented in accordance with the Essentials and Standards of the North Carolina Medical Society through the joint providership of the Southern Regional AHEC and the North Carolina Orthopaedic Association. The Southern Regional AHEC is accredited by the NCMS to provide continuing medical education for physicians.

Additional Credit

Other health professionals will receive Southern Regional AHEC CEU and/or contact hours and a certificate of attendance from an *AMA PRA Category 1™* activity. These certificates are accepted by the NC boards for physician assistants, nurse practitioners, and nurses. License requirements are subject to change. Southern Regional AHEC recommends that participants contact their licensing board with specific questions. Southern Regional AHEC will provide .7 Continuing Education Units (6.5 contact hours) to participants upon completion of this activity.

Disclosure Statement

The Southern Regional AHEC adheres to ACCME Essential Areas and Policies regarding industry support of continuing medical education. Disclosure of faculty/planning committee members and commercial relationships will be made known at the activity. Speakers are also expected to openly disclose a discussion of any off-label, experimental, or investigational use of drugs or devices in their presentations.

Meeting Features

This year's Annual Meeting includes several specialized breakout sessions to hone in on your particular area of interest. Additionally, the weekend features activities beyond the scientific sessions for the enjoyment of you and your family. We will begin Friday evening with a cocktail reception in the exhibit hall, where you can renew friendships and meet new colleagues. Saturday begins with the Presidential Lecture by **Walton W. Curl, MD**, followed by an important advocacy update and the annual Business Meeting. Three concurrent breakout sessions follow, with your choice of Shoulder; Spine/Basic Science; or Pediatrics. The afternoon is free; an optional golf tournament will take place on the Course #8 (handicaps are required). The family-friendly Saturday evening dinner will be highlighted by the presentation of the Honored Surgeon Award. Sunday's scientific session begins with an update by AAOS President **Joseph A. Bosco III, MD, FAAOS**, and an update from ABOS Executive Medical Director **David F. Martin, MD**, followed by three concurrent morning breakout sessions, with your choice of Sports Medicine; Trauma; General Interest; or Pediatrics. The meeting concludes with three concurrent afternoon breakout sessions, with your choice of Shoulder; Hip/Knee and Foot/Ankle; or Trauma and lastly the presentation of resident awards. Attire for all functions is business casual, except for the awards banquet, for which cocktail attire is suggested.

Meeting Registration

Registration fees include all meeting sessions, electronic versions of presentations, the Friday evening welcome reception, daily breaks and two continental breakfasts. Additional fees apply for the optional golf tournament and Saturday dinner with entertainment. Registration fees are waived for residents, fellows and students; however, the Saturday dinner fees will apply.

You may register securely online at <https://cvent.me/A3DBRL>, or complete the form in this brochure and return it with payment prior to October 18.

Registration Cancellation

Please note that refunds of registration fees will not be made after Friday, October 15. Refunds, less \$25, will be made for cancellations received prior to that date.

Resort Features and Accommodations

The Pinehurst Resort is a four-diamond, family-friendly resort featuring so much more than its world-class golf courses! A European-style spa, tennis courts, shops, and a fitness center are onsite, and nearby are antique stores, upscale boutiques, museums and more. Advance reservations are required for most dining outlets and recreational activities. To secure your accommodations, please use this link or call the Pinehurst Resort at (877) 934-8106.

The NCOA has set aside a block of rooms at a special rate of just \$239 plus resort fee and taxes per night. The resort fee covers gratuities, afternoon tea, use of the fitness center, tennis courts, putting green, bicycles, valet and self-parking, and on-demand, on-property transportation. Please be aware that the resort does have a 30-day cancellation policy. The cut-off date to make reservations is September 28. Don't delay!



Optional Golf Tournament on Course #8

The Pinehurst Resort is world-famous for its golf courses. On Saturday afternoon we will hold the traditional golf tournament on Pinehurst #8. Pre-registration is required. Prizes will be awarded for contest holes and to the winning foursome!

Americans with Disabilities Act

The NCOA is fully committed to the principle of equal educational opportunities for all individuals and does not discriminate on the basis of any characteristics protected by federal or state law. If you require any of the auxiliary aids or services identified in the Americans with Disabilities Act in order to participate in this conference, please contact [Megan Eberle](#) at (919) 833-3836/no later than 10 business days before the date of the activity.

Questions

Please contact the NCOA at (800) 722-1350 (NC only) or (919) 833-3836, or meberle@ncmedsoc.org.



Meeting Schedule

Friday, October 29

4:00pm-6:30pm Registration
6:30pm-8:00pm Welcome Reception

Saturday, October 30

7:00am-10:30pm Registration
7:00am-8:00am Continental Breakfast / Visit Exhibits
7:45am-12:30pm **SCIENTIFIC SESSION**
7:45am-9:10am Plenary Session I
7:45am Welcome and Introduction of Presidential Lecturer - Cynthia Emory, MD, MBA, President
7:55am Presidential Lecture: Walton W. Curl, MD
8:35am Discussion
8:50am Advocacy Update - Connie Wilson
9:10am NCOA Business Meeting Cynthia Emory, MD, MBA (no credit awarded)
9:40am Break / Visit Exhibits
10:10am-10:50am Controversies in Care I: Proximal Humerus Fractures (Moderator: Robert Boykin, MD)
10:10am Fix Them All - Oke Anakwenze, MD
10:20am Reverse TSA Cures Everything - Scott Steinmann, MD
10:30am Isn't Nonop Just as Good as Surgery? - Laurence Kempton, MD
10:40am Discussion

11:00am-11:50am **CONCURRENT BREAKOUT SESSIONS**

Shoulder Breakout Session (Moderator: Brian Waterman, MD)
11:00am The Rate, Risks Factors Requiring, and Outcomes of Large Volume Glenohumeral Hydrodissection Following Rotator Cuff Repair - Ryan Barnes, MD
11:05am Outcomes After Arthroscopic Assisted Lower Trapezius Transfer: A Retrospective Study - Aman Chopra
11:10am Appropriate Patient Selection for Outpatient Shoulder Arthroplasty: A Risk Prediction Tool - Daniel Goltz, MD, MBA
11:15am Opioid-Free Shoulder Arthroplasty Is Safe, Effective, and Predictable Compared to a Traditional Perioperative Opiate-Containing Regimen: A Randomized Controlled Trial of a Novel Clinical Care Pathway - Josef Jolissaint, MD
11:20am Discussion
11:25am Open & Arthroscopic Management of Anterior Shoulder Instability: An Evolving 21st Century Surgical Paradigm - Brian Waterman, MD
11:45am Discussion

Spine Breakout Session (Moderator: Tadhg O'Gara, MD)
11:00am Increased Risk of Postoperative Wound Complications Among Obesity Classes II & III after ALIF - Ameen Barghi, MD
11:05am Spontaneous Spinal Epidural Abscess in Pregnancy: A Case Series - Daniel Robinson, MD
11:10am Congenital Occipitalization of Craniocervical Junction Presents Unique Operative Challenges - Scott Lewis, MD
11:15am Complications of Posterior Spinal Fusion in Adolescent Idiopathic Scoliosis: A Retrospective Cohort Study Using the Modified Clavien-Dindo-Sink System - Lukas Keil, MD
11:20am Discussion
11:25am Liposomal Bupivacaine use during Adolescent Idiopathic Scoliosis Surgery Decreases Post-operative Narcotic Usage - Rosser McCallie, MD
11:30am Matched Comparison of Growing Rods versus Primary Posterior Spinal Fusion in "Tweeners" with Early Onset Scoliosis - Lukas Keil, MD
11:35am Lumbopelvic Postural and Kinematic Differences in Adolescent Idiopathic Scoliosis - Matthew Jamison
11:40am Increasing Number of Vertebral Segment Correction Does Not Correlate with Relative Value Units in Pediatric Spinal Deformity - Ameen Barghi, MD
11:45am Discussion

Pediatrics and Basic Science Breakout Session (Moderator: Elizabeth Hubbard, MD & Julia Visgauss, MD)
11:00am Clinical Outcomes after Delayed Treatment of Stable Slipped Capital Femoral Epiphysis: A Retrospective Cohort Study - Robert Bardsley IV
11:05am Delayed versus Immediate In Situ Fixation of Stable Slipped Capital Femoral Epiphysis: A Retrospective Cohort Analysis of Radiographic Severity and Complications - Alexander White
11:10am Rates of Anterior Cruciate Ligament Rupture in Pediatric and Adolescent Patients with and without Patella Alta - Danielle Rider
11:15am Discussion
11:20am Ascorbic Acid Does Not Reverse Radiation-Induced Bone Loss in a Rat Model of Extremity Soft-Tissue
(continued next page...)

Saturday, October 30 (continued)

11:25am	Sarcoma Radiotherapy - David Luo, MD
11:30am	The Influence of Distal Throwing Arm Kinematics on Maximum Elbow Valgus Torque and Shoulder Distraction Force in Youth Baseball Pitchers - Tessa Hulburt, PhD
11:35am	Machine Learning and Statistical Prediction of Pitching Arm Kinetics - Kristen Nicholson, PhD
11:40am	Kinematics of Various TKA Implant Designs in Kinematic Versus Mechanical Alignment- A Cadaveric Analysis - Eric Secrist, MD
11:45am	Diabetes Predicts Hip and Shoulder Osteoarthritis in Non-Human Primates - Nequesha Mohamed, MD
12:30pm	Optional Golf Tournament Course #8 (<i>Pre-registration required; boxed lunch included</i>)
6:30pm-11:00pm	Reception & Banquet; Presentation of Honored Surgeon Award (<i>Pre-registration required</i>)

Sunday, October 31

7:00am-10:30pm	Registration
7:00am-8:00am	Continental Breakfast / Visit Exhibits
8:00am-12:30pm	SCIENTIFIC SESSION
7:55am	Introductions
8:55am-10:00am	Controversies in Care II: ACL Reconstruction (Moderators: Jonathan Riboh, MD & Eric Kropf, MD)
8:00am	Choosing a Graft
8:10am	Early Versus Delayed Surgery - Robert Boykin, MD
8:20am	When to Return to Sport - Jonathan Riboh, MD
8:30am	Discussion
8:45am-10:00am	Plenary Session II
8:45am	AAOS Update - Joseph A. Bosco III, MD, FAAOS
9:00am	ABOS Update - David F. Martin, MD
9:15am	Implementation of a Clinical Decision Support Toolkit for Controlled Substance Prescribing - Rachel Seymour, PhD
9:50am	Discussion
10:00am - 10:30am	Break / Visit Exhibits
10:30am-11:15am	CONCURRENT BREAKOUT SESSIONS

Sports Medicine Breakout Session (Moderator: Kevin Coates, MD)	
10:30am	The Distal Clavicle “A-frame” Morphology on Computed Tomography - Bradley Young, MD
10:35am	SLAP Repair Versus Biceps Tenodesis for Isolated Type II SLAP Tears: An Expected-Value Decision Analysis - Max Gehrman, MD
10:40am	Postoperative Outcomes for Meniscal Root Tear Repairs; A Retrospective Review - Mark Glover
10:45am	No Differences in Patient Reported Outcomes for Medial Patellofemoral Ligament Reconstruction with or without Lateral Retinacular Release - Sarah Konchan
10:50am	Reducing Opioids Following Sports Procedures Lowers Consumption without Impacting Pain - Ryan Barnes, MD
10:55am	Discussion
11:00am	Does Platelet-Rich Plasma Injection Change Pain and Function Outcomes of Arthroscopic Knee or Shoulder Surgery? - Kevin Coates, MD
11:15am	Discussion

Trauma Breakout Session (Moderator: Andrew Chen, MD)	
10:30am	Proximal Tibia Fracture Dislocations: Management and Outcomes of a Severe and Under-Recognized Injury - Lukas Keil, MD
10:35am	Prospective Observational Study of an Integrated Therapeutic Initiative for Extremities (POSITIVE): Implementation of an Integrated Orthotic and Rehabilitation Program in the Civilian Setting - Andrew Wohler, MD
10:40am	ON Path: Outpatient Nonunion Pathway: Surgical Tactic and Pathway - Joseph Hsu, MD
10:45am	Can Anterior Pelvic Plate Fixation Be Performed Safely in the Presence of Urethral or Bladder Injury? - Givenchy Manzano, MD
10:50am	Discussion
10:55am	Implementation of an Accessible, Multidisciplinary Osseointegration Pathway, Joseph Hsu, MD
11:00am	Administration of Venous Thromboembolism Chemoprophylaxis Within 12 Hours of Pelvic and Acetabular Surgery Has No Effect on Estimated Blood Loss, Perioperative Change in Hemoglobin, or Need for Transfusion - Sean Flannigan
11:05am	Orthopaedic Trauma Never Sleeps: Resource Allocation Even During a Non-Trauma Crisis - Risa Reid, MD
11:10am	Describe The Safety And Effectiveness Of Antibiotic Coated Locked IMNs for Acute Fracture-Related Infections and Septic Nonunion Treatment - Laurence Kempton, MD
11:15am	Discussion

Meeting Schedule (continued)

Sunday, October 31 (continued)

General Interest Breakout Session (Moderator: Peter Mangone, MD)

- 10:30am Age and Socioeconomic Status Affect Access to Telemedicine at an Urban Level 1 Trauma Center - Matthew Braswell, MD
- 10:35am Needle Aspiration and Intra-Articular Tobramycin Therapy for Native Septic Arthritis; Is It Effective? - Nathaniel Koutlas, MD
- 10:40am Machine Learning Algorithms Exceed Comorbidity Indices in Prediction of Short-Term Complications Following Hip Fracture Surgery - Anirudh Gowd, MD
- 10:45am Comparing Risk Factors for Readmission after Upper and Lower Extremity Arthroplasty in the 30-day Postoperative Period - Donald Scholten II, MD
- 10:50am Discussion
- 10:55am Post-Operative Step Counts are Strongly Correlated with iHOT-12 Scores after Hip Arthroscopy for Femoroacetabular Impingement - Nicholas Trasolini, MD
- 11:00am Data-Driven Instrument Reduction in Orthopedic Surgery Yields Large Cost Savings and Efficiency Gains - Tyler Watters, MD
- 11:05am Legislation Limiting Postoperative Opioid Prescribing Does Not Impact Patients' Perception of Pain Management Experience Following Total Joint Arthroplasty - Anthony Paterno
- 11:10am Predicting Likelihood of Extended Length of Stay Following Total Joint Arthroplasty - Daniel Goltz, MD, MBA
- 11:15am Discussion

11:20am-12:00pm CONCURRENT BREAKOUT SESSIONS

Shoulder Breakout Session II (Moderator: Brian Lau, MD)

- 11:20am Limited Health Literacy in Shoulder and Elbow Surgery: Risk Factors and Impact - Aman Chopra, BA
- 11:25am Characteristics and Risk Factors for 90-Day Readmission Following Shoulder Arthroplasty - Daniel Goltz, MD, MBA
- 11:30am Intraoperative Fractures in Shoulder Arthroplasty: Risk Factors and Outcomes - Colleen Wixted, BS
- 11:35am Discussion
- 11:40am The Role of Glenoid and Humeral Bone Loss in Shoulder Instability - Brian Lau, MD
- 12:00pm Discussion

Hip/Knee and Foot/Ankle Breakout Session (Moderator: Daniel Bracey, MD, PhD)

- 11:20am Enhanced Recovery after Surgery (ERAS) Protocols Improves Outcomes after Total Joint Replacement - Deanna Boyette, MD
- 11:25am Oxidized Zirconium vs Cobalt Chrome for Primary Total Knee Arthroplasty: No Difference in Infection Rates - Anirudh Gowd, MD
- 11:30am Resiliency and Grit correlates with Outcomes of Total Hip and Total Knee Arthroplasties - Lincoln Pratson, MD
- 11:35am A Retrospective Cohort Study of the Treatment of Recalcitrant Plantar Fasciitis and Achilles Tendonitis Using Platelet-Rich Plasma (PRP) Injection - Peter Mangone, MD
- 11:40am Discussion
- 11:45am Foot and Ankle Sports Injuries in the Athlete - Selene Parekh, MD, MBA, FAOA
- 12:05pm Discussion

Trauma Breakout Session II (Moderator: Peter Mangone, MD)

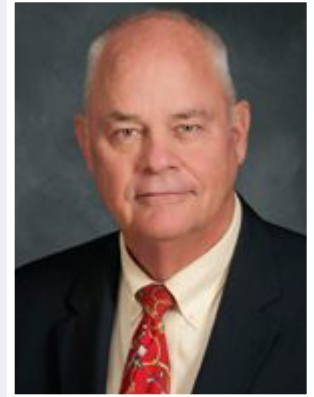
- 11:20am Impact of Anesthesia selection on Post-Op Pain Management in Operatively treated Hip Fractures - Jana Davis, MD
- 11:25am Analgesic Prescribing and Post-discharge Opioid Use Among Pediatric Patients with Operative Fractures - Lukas Keil, MD
- 11:30am Comparison of Antibiotic Regimens for Type III Open Fractures - Anthony Paterno
- 11:35am Orthopaedic Consult Volume during COVID-19 Normalizes Within Three Months After Stay at Home Order - Sonal Sodha, MD
- 11:40am Discussion
- 11:45am Depression Screening and Behavioral Health Integration in an Orthopaedic Trauma Clinic - Eric Secrist, MD
- 11:50am Geriatric Distal Femur Fractures Treated with Arthroplasty Are Associated With Lower Mortality but Greater Costs Compared To Open Reduction and Internal Fixation - Rosser McCallie, MD
- 11:55am Dual Plating of Periprosthetic Distal Femur Fractures Leads to Near Anatomic Coronal Plane Alignment - Christopher Grimes, MD
- 12:00pm Discussion

- 12:15pm Presentation of Resident Paper Awards and Closing Remarks
- 12:30pm Adjourn

Special Guests

Presidential Speaker

Walton W. Curl, MD, graduated from the United States Military Academy in 1968. After spending a year in Vietnam as an Infantry Platoon Leader, he went on to graduate from Duke University Medical School in 1974. He completed his residency in Orthopedic Surgery in the Army and a fellowship in Sports Medicine at the United States Military Academy under Dr. John Feagin. He was the team physician for West Point upon completion of his fellowship and retired as a Colonel in the United States Army.



From 1988 until 2002 he was the team physician for Wake Forest University. He then became the first Chairman of Orthopedic Surgery at the Medical College of Georgia. In 2007 he returned to the orthopedic faculty at Wake Forest University Medical Center and works with the Sports Medicine Program. He is a past president of the American Orthopedic Society for Sports Medicine and the Herodicus Sports Medicine Society. He currently serves on the board of directors for Special Olympics of North Carolina. His numerous articles in the area of Sports Medicine are primarily associated with anterior cruciate ligament injuries and rehabilitation. He has participated in basic science research on the effects of cold therapy on muscle contusions and is currently involved in tissue engineering projects involving ligament and cartilage stem cells. His primary interest is in the treatment of ACL and Cartilage Injuries.

NC Society for Surgery of the Hand to Meet

The NC Society for Surgery of the Hand will meet at the Pinehurst Resort on Friday, October 29, from 11:30am until 5:00pm. NCSSH attendees are then invited to attend the NCOA's Friday evening welcome reception from 6:30pm to 8:00pm. Contact **NCSSH President Chris Tuohy, MD** at ctuohy@wakehealth.edu, or his administrative assistant Ms. Cheryl Sell at 336-716-9351, to register or for more information. All NCOA members are invited to attend!

11:30am Lunch
12:30pm Registration
12:45pm Welcome Remarks by John Erickson, MD
1:00pm Scientific Session
3:00pm Break
3:15pm Visiting Professor Lecture by Scott Steinmann, MD
3:45pm Scientific Session
4:45pm Break
5:00pm NCSSH Business Meeting
6:30pm..... Joint Cocktail Reception with NCOA

2021 NCOA Annual Meeting Registration

October 29-31, 2021 • Pinehurst Resort • Pinehurst, NC

Register securely online! Go to <https://cvent.me/A3DBRL>

1. PERSONAL INFORMATION (Please print.)

Name: _____ Degree(s): _____

Preferred Name For Badge: _____

Spouse/Guest, if attending: _____

Child(ren) Name(s) and Age(s), if attending: _____

Specialty: _____

Last Four Digits of SSN (required for CME): _____

Practice/Affiliation: _____

Address: _____

City/State/Zip: _____

Phone: () _____

E-Mail: _____

Emergency Contact: (Name) _____ (Phone) _____

Accessibility Needs/Dietary Restrictions: _____

2. REGISTRATION FEES (To qualify for member rate, 2021 dues must be current.)

Member Physician \$150

Non-Member Physician \$400

Allied Health Professional (PA/NP) \$175

Resident Physician or Fellow \$0

Medical Student \$0

➡ Registration Fee Total \$ _____

3. ACTIVITIES (Pre-registration required for all events; please indicate number attending.)

_____ Friday Evening Welcome Reception

_____ Saturday Golf Tournament (includes boxed lunch, beverages and prizes) @ \$305

Handicap: _____ or Average Score: _____

Preferred Pairing: _____

_____ Saturday Dinner/Entertainment @ \$75 per adult (\$25 for residents/medical students)

➡ Activity Fees Total \$ _____

4. TOTAL FEES (TOTAL OF SECTIONS 2-3) (No refunds after October 15.)

Enclosed is check # _____ for \$ _____ payable to NCOA

OR ☐ Visa ☐ MasterCard ☐ American Express

Name as it appears on credit card: _____

Account #: _____ Expiration Date: _____ CVV#: _____

Billing Address: _____

City/State/Zip: _____

Please [register online](#); or email this form to ncortho@ncmedsoc.org, or
mail to: NCOA, PO Box 27167, Raleigh, NC 27611; FAX: (919) 833-2023