

AAOS 2016 ANNUAL MEETING

Focused on you



Meeting Dates: March 1-5

Exhibit Dates: March 2-4

Orlando, Florida

Preliminary Program

AAOS
AMERICAN ACADEMY OF
ORTHOPAEDIC SURGEONS

InternalBrace™

Ligament Augmentation Repair

Build in Significant Stability, Strength and Protection to Your Brostrom Repairs

2 mm FiberTape bridge between two Knotless SwiveLock® anchors provides a protective reinforcement for your surgical repair.

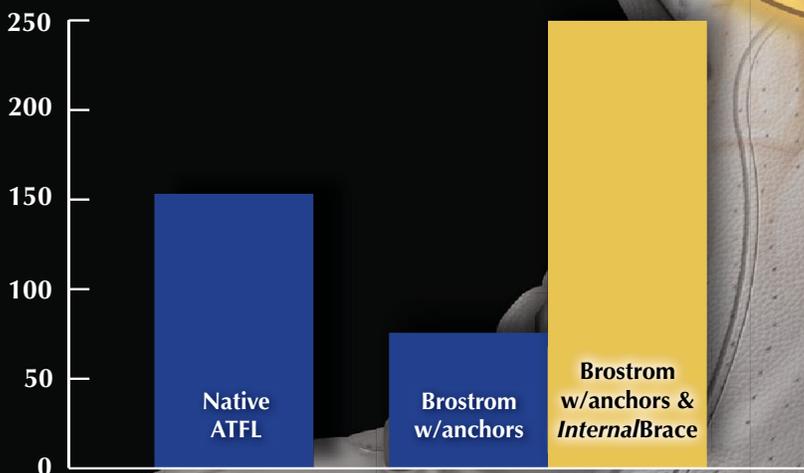
FiberTape® proven safe and effective.

Reproducible technique with the convenient InternalBrace implant kit.



SwiveLock® diameter options shown actual size

Ultimate Failure (Newtons)*



*reference:
Viens NA, Wijdicks CA, Campbell KJ, Laprade RF, Clanton TO.
Anterior talofibular ligament ruptures, part 1: biomechanical comparison
of augmented brostrom repair techniques with the intact anterior talofibular
ligament. *Am J Sports Med.* 2014;42(2):405–411.



<http://cptr.it/IB16>

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AD1-0039-EN_D



Dear Colleague,

Please join your colleagues-and-me at the AAOS 2016 Annual Meeting in sunny Orlando. Since AAOS last visited in 2000, there have been many changes around the convention center, with greatly expanded transportation, hotel and dining options. I am pleased to announce that my Presidential Guest Speaker is Roger T. Staubach, former Dallas Cowboys quarterback, naval officer and currently Executive Chairman of JLL Americas, a firm specializing in real estate. The Presidential Guest Speaker address follows the Ceremonial Meeting on Thursday morning. Also, enjoy an array of educational programs that are truly unsurpassed—the very best in orthopaedic education, research, and technology. **Once again, new opportunities to learn and earn up to 37 CME credits begin on Tuesday morning, March 1.**

Annual Meeting Committee Chair Paul Tornetta III, MD, and his team have created an exceptional program. Along with their respective committees, Central Program Committee Chair James R. Ficke, MD, Central Instructional Courses Committee Chair Tad L. Gerlinger, MD, and Exhibits Committee Chair Joseph T. Moskal, MD, have produced an exciting selection of educational opportunities:

- **31 Symposia** present the latest research by surgeons who are shaping the future of our specialty
- **Over 900 Paper Presentations** and **over 575 Posters** illuminate the latest scientific and clinical studies
- **Over 245 Instructional Courses** offer experience-based techniques and solutions from world-renowned faculty
- **32 Case Presentation Courses** put you in the action at expert-led round tables. All new topics this year!
- **17 Technical Skills Courses** focus on positioning, approach, and step-by-step technical tips
- The **“Game Changer” Paper Session** reveals research that may impact your practice and decision making
- **More than 85 Scientific Exhibits** explore extended studies or complex procedures

This year’s programming introduces several new innovative educational formats including “Flash Five,” “The Way I See It...,” and engaging debates on hot topics. Details of these formats can be found on page 12 in this program.

We also are pleased to present these opportunities, offered only at your Academy meeting:

- **Over 550 Technical Exhibits** displaying the “latest and greatest” in orthopaedic products and services
- **Specialty Day** - Saturday, March 5 - offered by 14 Specialty Societies covering the latest updates in each field
- **AAOS/Orthopaedic Research Society Combined Session**

Please join me at the Opening Ceremony on Wednesday, March 2, 4:00 PM, where we kick off the meeting and recognize Colombia as the 2016 Guest Nation. On Thursday, the Ceremonial Meeting includes presentation of the Humanitarian, Diversity, Kappa Delta, and Tipton Leadership awards, Incoming Presidential Address from Gerald R. Williams, MD, and concludes with Roger Staubach’s remarks at 11:00 AM.

Come to our Academy meeting and learn the latest research and technology to better care for our patients. You can reconnect with your colleagues, hear debates and new ideas, and contribute your own experience to this important meeting of minds and orthopaedic knowledge.

I look forward to seeing you in Orlando!

A handwritten signature in black ink that reads "David D. Teuscher MD". The signature is fluid and cursive, with the "MD" clearly visible at the end.

David D. Teuscher, MD
President



AMERICAN ACADEMY OF ORTHOPAEDIC SURGEONS

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The 2016 Annual Meeting will be held at:

**Orange County Convention Center
West Building
9800 International Drive
Orlando, Florida 32819**

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Joseph T. Moskal, MD

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Social Media

Follow the AAOS Annual Meeting on Facebook and Twitter to receive meeting news, updates, and reminders in real-time. Use #AAOS2016 to join the conversation!



[AAOS Annual Meeting](#)



[@AAOSAnnual](#)

All events will take place at the Orange County Convention Center, West Building, unless indicated.	Tuesday, March 1	Wednesday, March 2	Thursday, March 3	Friday, March 4	Saturday, March 5
Ask An Expert, Hall WA		9:00 AM – 5:00 PM	9:00 AM – 5:00 PM	9:00 AM – 4:00 PM	
Business Meetings Chapin Theater			9:00 AM		
Career Center Academy Hall WC	7:00 AM – 6:00 PM	7:00 AM – 3:00 PM			
Ceremonial Meeting Kappa Delta & OREF Awards Chapin Theater			10:00 AM		
Electronic Skills Pavilion Hall WB		9:00 AM – 5:00 PM	9:00 AM – 5:00 PM	9:00 AM – 4:00 PM	
Flash Five See Page 12	1:30 - 2:30 PM		10:30 - 11:30 AM		
Guest Speaker, Roger T. Staubach Chapin Theater			11:00 AM		
Instructional Courses See Schedule or pages 13-43	8:00 – 10:00 AM 10:30 AM – 12:30 PM 1:30 – 3:30 PM 4:00 – 6:00 PM	8:00 – 10:00 AM 10:30 AM – 12:30 PM 1:30 – 3:30 PM 4:00 – 6:00 PM	8:00 – 10:00 AM 10:30 AM – 12:30 PM 1:30 – 3:30 PM 4:00 – 6:00 PM	8:00 – 10:00 AM 10:30 AM – 12:30 PM 1:30 – 3:30 PM 4:00 – 6:00 PM	
Nursing and Allied Health Courses Rosen Centre Hotel, Junior Ballrooms G and F	8:15 AM – 5:45 PM	8:15 AM – 5:45 PM	7:30 AM – 12:00 PM 1:30 – 6:00 PM	7:30 AM – 12:00 PM 1:30 – 6:00 PM	
Opening Ceremony Chapin Theater		4:00 – 5:30 PM			
Orthopaedic Review Course Hyatt Regency Orlando, Regency Ballroom R				7:30 AM – 4:45 PM	
Orthopaedic Video Theater Academy Hall WC	7:00 AM – 6:00 PM	7:00 AM – 3:00 PM			
Posters Academy Hall WC	7:00 AM – 6:00 PM	7:00 AM – 3:00 PM			
Ready Rooms Rooms W206 and W312	6:30 AM – 6:00 PM	6:00 AM – 5:30 PM			
Registration Physician Academy Hall WC	7:00 AM – 6:00 PM	6:30 AM – 5:30 PM			
Resident Focused Programs	Dates and Times Vary See Page 49				
Resource Center Academy Hall WC	7:00 AM – 6:00 PM	7:00 AM – 3:00 PM			
Scientific Exhibits Academy Hall WC	7:00 AM – 6:00 PM	7:00 AM – 3:00 PM			
Scientific Program Paper Presentations Symposia See pages 13-43 & 46-47	8:00 – 10:00 AM 10:30 AM – 12:30 PM 1:30 – 3:30 PM 4:00 – 6:00 PM	8:00 – 10:00 AM 10:30 AM – 12:30 PM 1:30 – 3:30 PM 4:00 – 6:00 PM	8:00 – 10:00 AM 10:30 AM – 12:30 PM 1:30 – 3:30 PM 4:00 – 6:00 PM	8:00 – 10:00 AM 10:30 AM – 12:30 PM 1:30 – 3:30 PM 4:00 – 6:00 PM	
Showdowns See Page 12			Hip 4:00 - 5:00 PM	Shoulder & Elbow 8:00 - 9:00 AM	
Social Program Registration Level 1 Lobby	7:00 AM – 6:00 PM	7:00 AM – 12:00 PM			
Specialty Day See Specialty Day Program					Times Vary See Page 50
Technical Exhibits Halls WA & WB		9:00 AM – 5:00 PM	9:00 AM – 5:00 PM	9:00 AM – 4:00 PM	
The Way I See It... See Page 12	4:00 - 5:00 PM	10:30 - 11:30 AM	11:30 AM - 12:30 PM	1:30 - 3:30 PM	

Special Events

Orange County Convention Center, West Building, Chapin Theater

Opening Ceremony

Wednesday, March 2

4:00 – 5:30 PM



David D. Teuscher, MD
Presidential Address

- Welcome to Colombia as the Guest Nation
- Recognition of Industry Donors
- Chief Executive Officer Report

Business Meetings

Thursday, March 3, 9:00 AM

Ceremonial Meeting

Thursday, March 3, 10:00 AM



Gerald R. Williams, Jr, MD
Incoming Presidential
Address

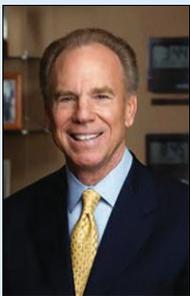


William J. Maloney, MD
Incoming First Vice
Presidential Remarks

- Kappa Delta & OREF Awards
- Humanitarian Award
- Diversity Award
- William W. Tipton, Jr, MD, Leadership Award

Roger Staubach, AAOS Presidential Guest Speaker

Thursday, March 3, 11:00 AM



Roger T. Staubach is Executive Chairman of JLL Americas, a financial and professional services firm specializing in real estate. A 1965 graduate of the United States Naval Academy with a bachelor of science in engineering, Staubach served four years as a Navy officer including a tour in Vietnam. After the Navy he joined the Dallas Cowboys and launched his real estate career at the same time becoming a football legend.

As Executive Chairman of The Staubach Company, Staubach built a market-leading global real estate advisory firm that delivered cost-effective solutions for office, industrial and retail clients. Known for its unparalleled standard of business and personal ethics, The Staubach Company completed transactions totaling \$28 billion in 2007. The following year, The Staubach Company merged with JLL, bringing together two powerful organizations into one integrated global company.

Recognized for his business skills, civic and charitable work as well as his abilities on the grid iron, Staubach has

been bestowed many honors—Commercial Property News' "Corporate Services Executive of the Year" (four times), the 2006 Congressional Medal of Honor "Patriot Award," the NCAA "Teddy Roosevelt Award" for being one of the "100 Most Influential NCAA Student-Athletes," the United States Naval Academy "Distinguished Graduate" and in 2009 the Vince Lombardi Award of Excellence.

The list of recognitions Staubach received while playing football is long. In 1963 he won the Heisman Trophy. While at the Naval Academy he was named the best all-around athlete winning the Thompson Trophy Cup three years in a row. He appeared in five Super Bowls, winning two. In 1971 he was the NFL's Most Valuable Player and the following year he was the Most Valuable Player in Super Bowl VI. Known as "Captain America" and "Roger the Dodger" he was a five-time NFC Pro Bowl selection. And, in 1985, he was inducted into the Pro Football Hall of Fame.

Currently, Staubach serves on the board of directors of JLL. He continues to be involved with The Children's Cancer Fund, the United States Naval Academy Foundation and numerous other civic, charitable and professional organizations.

Annual Business Meetings

All Fellows are urged to attend the Annual Business Meetings held in the Chapin Theater. The meetings are held on Thursday, March 3, 2016, starting at 9:00 AM. There is one business meeting for the American Academy of Orthopaedic Surgeons (“Academy”), the 501(c)(3) organization, immediately followed by the business meeting of the American Association of Orthopaedic Surgeons (“Association”), the 501(c)(6) organization.

2016 Nominating Committee

In May, the Fellowship elected six members of the 2016 Nominating Committee by ballot. The Board of Directors appointed the Chair of the Nominating Committee in March.

The members of the 2016 Nominating Committee are:

- John R. Tongue, MD (OR), Chair
- Timothy J. Bray, MD (NV)
- Lawrence D. Dorr, MD (CA)
- Thomas A. Einhorn, MD (NY)
- John T. Gill, MD (TX)
- Richard F. Kyle, MD (MN)
- Thomas P. Sculco, MD (NY)

The 2016 Nominating Committee provides its slate of nominees for each vacancy to be filled to the Fellowship in November 2015. If unopposed, this slate is voted on during the Association Business Meeting on Thursday, March 3, 2016.

2017 Nominating Committee

Nominations for the 2017 Nominating Committee are accepted from the floor during the Association Business Meeting on Thursday, March 3, 2016. All Fellows receive a ballot after the 2016 Annual Meeting, with an opportunity to cast their votes for nominees to fill the elected positions on the 2017 Nominating Committee.

Bylaws Committee

Proposed amendments to the Academy and the Association Bylaws are considered at the 2016 Annual Meeting if submitted by September 1, 2015. The AAOS Bylaws Committee conducts an Open Hearing to receive comments on the proposed bylaw

amendments on Wednesday, March 2, 2016, beginning shortly after the conclusion of the Resolutions Committee Open Hearing in Room W308A. It is anticipated that the Bylaws Committee Open Hearing will begin around 1:30 PM.

At the business meetings on Thursday, March 3, 2016, the Bylaws Committee presents its recommendations regarding each set of the proposed amendments to the Bylaws. Shortly after the Annual Meeting, these recommendations are voted on by the Fellowship.

Resolutions Committee

Any 20 or more Fellows, the majority of the members of the Board of Directors of a State Orthopaedic Society, a majority of the members of the Board of Directors of an orthopaedic specialty society that is a member of the Board of Specialty Societies, the AAOS Board of Directors, a supermajority of the Board of Councilors, or a supermajority of the member societies of the Board of Specialty Societies may offer a resolution for consideration by the Fellowship at the 2016 Annual Meeting. To be binding on the Academy or the Association, a resolution must be submitted and considered by the Board of Councilors and Board of Specialty Societies before being voted upon by the Fellowship after the Annual Meeting at which it was discussed.

To be considered by the Board of Councilors and the Board of Special Societies at the Fall Meeting, AAOS must receive a resolution on or before September 1, 2015, or it must be submitted to and be voted on by the Board of Councilors and the Board of Specialty Societies prior to consideration at the Fall Meeting. Emergency resolutions are accepted until February 2, 2016, but only if all other conditions are met. Copies of each duly submitted resolution are available and sent by email to the Fellowship in January 2016.

The AAOS Resolutions Committee holds an Open Hearing on the resolutions on Wednesday, March 2, 2016, beginning at 1:00 PM in Room W308A. During the Open Hearing, proponents and opponents discuss those resolutions under consideration. At the business meetings on Thursday, March 3, 2016, the Resolutions Committee presents its proposed recommendation regarding each resolution under consideration. Shortly after the Annual Meeting, these recommendations are voted on by the Fellowship.

Meeting Space Information

All meeting and event requests must be submitted to AAOS on a Meeting Space Request form located on the AAOS website at www.aaos.org/meetingspace. If you made your own arrangements and would like your event listed in the Final Program, submit the information using the same form.

Events taking place during official AAOS educational sessions, Tuesday through Friday, 8:00 AM - 6:00 PM, are reviewed to ensure they do not conflict with AAOS educational programming, the Academy Business Meetings, or Specialty Day.

Function	Dates & Times Events cannot be scheduled
Academy Business Meetings	Thursday, March 3, 9:00 - 10:00 AM
Specialty Day	Saturday, March 5, All Day

All submitted meetings and events (whether booked on own or though AAOS) are listed in the AAOS Final Program. If you prefer your event not be listed, indicate “No” on the Meeting Space Request form.

The deadline to request meeting space or submit information about a meeting or event is December 1, 2015.

Accreditation

The American Academy of Orthopaedic Surgeons is accredited by the Accreditation Council for Continuing Medical Education to provide continuing medical education (CME) for physicians.

CME Credit

The American Academy of Orthopaedic Surgeons designates this live activity for a maximum of **37 AMA PRA Category 1 Credits™**. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

It is important for you to check in as soon as you arrive. The AAOS transcript system does not allow you to claim CME credit for any educational activities you participate in before you officially check in to the meeting. For instance, if you arrive at the meeting on Tuesday but do not check in until Wednesday, you cannot claim CME credits for your Tuesday attendance. So please remember to check in before attending any educational activities. The CME credit system is an honor system. You should claim only the number of credits for the learning activities at the Annual Meeting in which you actively participated. For example, if you attend only on Wednesday and Thursday, the maximum amount you may claim is 18 credits. The grid below outlines the number of credit hours available per day.

Check In OR Register at the Meeting on:	Maximum Daily Credit	Maximum Meeting Credits
Tuesday, March 1	up to 10	37
Wednesday, March 2	up to 9	27
Thursday, March 3	up to 9	18
Friday, March 4	up to 9	9

The grid below outlines the types of activities that are available at the Annual Meeting which qualify for **AMA PRA Category 1 Credit™**.

Activity	CME Credit Available
Instructional Courses	Yes
Symposia	Yes
Papers	Yes
Posters and Scientific Exhibits (only when the presenter is required to be present and during the poster tours)	Yes
Orthopaedic Video Theater	Yes
Orthopaedic Review Course	Yes
Specialty Day	Yes
CPT and ICD-10 Coding Fundamentals for Starting your Practice #190	Yes
Practice Management Residents' Course #191	No
Practice Management Seminar for Practicing Orthopaedic Surgeons #199	Yes

International Physicians: The AMA has determined that physicians not licensed in the United States but who participate in this CME activity are eligible for **AMA PRA Category 1 Credits™**.

Allied Health Professionals: The Academy is not accredited to offer credit for nurses and other allied health professionals. To determine if activities offering **AMA PRA Category 1 Credits™**

are acceptable for your licensing continuing education or certification needs please contact the relevant organizations directly.

CME Certificates

Certificates of attendance are available to print at kiosks in the convention center. Please print your CME certificate(s) at the end of the meeting for your records. Individual certificates for Instructional Courses are not available.

The CME certificate link is available after the meeting at www.aaos.org/annual. Member transcript records are updated approximately six weeks after the Annual Meeting.

Disclaimer

The material presented at the Annual Meeting has been made available by the American Academy of Orthopaedic Surgeons for educational purposes only. This material is not intended to represent the only, nor necessarily best, method or procedure appropriate for the medical situations discussed, but rather is intended to present an approach, view, statement, or opinion of the faculty which may be helpful to others who face similar situations. The AAOS disclaims any and all liability for injury or other damages resulting to any individual attending a session and for all claims which may arise out of the use of the techniques demonstrated therein by such individuals, whether these claims shall be asserted by a physician or any other person. No reproductions of any kind, including audio and video, may be made of the presentation at the Academy's Annual Meeting. The Academy reserves all of its rights to such material, and commercial reproduction is specifically prohibited. No unapproved surveys, handouts, or literature can be distributed.

FDA Statement

Some drugs or medical devices demonstrated at the Annual Meeting have been cleared by the FDA for specific purposes only or have not been cleared by the FDA. The FDA has stated that it is the responsibility of the physician to determine the FDA clearance status of each drug or medical device he or she wishes to use in clinical practice. Academy policy provides that "off label" uses of a drug or medical device may be described in the Academy's CME activities so long as the "off label" use of the drug or medical device is also specifically disclosed (i.e. it must be disclosed that the FDA has not cleared the drug or device for the described purpose). Any drug or medical device is being used "off label" if the described use is not set forth on the product's approval label.

Private Meeting

The AAOS 2016 Annual Meeting is a private meeting. The AAOS reserves the right to control space and ask people to leave the meeting who are not qualified to attend or who cause disruptions, at AAOS' sole discretion.

TUESDAY, MARCH 1				
	8:00 - 10:00 AM	10:30 AM - 12:30 PM	1:30 - 3:30 PM	4:00 - 6:00 PM
ADULT RECONSTRUCTION HIP AND KNEE				
Instructional Courses	101, 102, 181	121	141, 142	161, 187
Symposia	The Essentials for Creating Value in a Knee Arthroplasty Practice (A)		Hot Topics and Controversies in Revision Total Hip Arthroplasty (E)	
Scientific Papers	AR Hip I (001-015)	AR Knee I (061-075)	AR Knee II (151-165)	AR Hip II (166-180)
FOOT AND ANKLE				
Instructional Courses	103	122	143	162
GENERAL				
Instructional Courses	CD1 (8:00-9:00AM), CD2 (9:30-10:30AM)	123, CD3 (11:00AM-12:00PM)	144, CD4 (1:30-2:30PM), CD5 (3:00-4:00PM)	163, CD6 (4:30-5:30PM)
Symposia		Expanding the Role of Outpatient Surgery Centers (C)		
Scientific Papers			Global Perspectives	
HAND AND WRIST				
Instructional Courses	104	124		164
Scientific Papers		Hand & Wrist I (106-120)		
PEDIATRICS				
Instructional Courses	105	125	145	165
Scientific Papers		Pediatrics I (091-105)		
PRACTICE MANAGEMENT / NON-CLINICAL				
Instructional Courses/Special Sessions	106, 190 (8:00 -11:00 AM), 199 (8:00 AM-5:00 PM)	126, 191 (12:30 - 5:00 PM)	146, 192 (1:30 - 4:30 PM)	166
Symposia			Performance Measures Clinical Quality-Medicare (F)	
Scientific Papers				Practice Management I (181-195)
SHOULDER AND ELBOW				
Instructional Courses	107, 108	127, 128	147, 186	167, 168
Symposia				Game Changers in Elbow Surgery: New Paradigms (G)
Scientific Papers		Shoulder & Elbow I (076-090)		
SPINE				
Instructional Courses	109	184	148	169
Symposia			What Keeps Me Awake at Night: Cervical Spine Surgery (D)	
Scientific Papers	Spine I (040-060)			Spine II (211-225)
SPORTS MEDICINE AND ARTHROSCOPY				
Instructional Courses	110, 182	129, 130	149, 150	170
Symposia		The Athletic Hip: From Impingement to Arthroplasty (B)		
Scientific Papers	Sports Med/Arth I (016-030)			
TRAUMA				
Instructional Courses	111, 112	131, 183	151, 185	171, 172
Symposia				
Scientific Papers	Trauma I (031-045)		Trauma II (121-135)	Trauma III (196-210)
TUMOR / METABOLIC DISEASE				
Instructional Courses			152	188
Scientific Papers			Tumor I (136-150)	

WEDNESDAY, MARCH 2				
	8:00 - 10:00 AM	10:30 AM - 12:30 PM	1:30 - 3:30 PM	4:00 - 6:00 PM
ADULT RECONSTRUCTION HIP AND KNEE				
Instructional Courses	201, 202, 203	221, 222, 283	241, 285	261, 287
Scientific Papers	AR Knee III (226-240)	AR Knee IV (301-315)		AR Hip III (406-420)
BASIC RESEARCH				
Instructional Courses		223		
FOOT AND ANKLE				
Instructional Courses	204, 281		242	262
Symposia		Foot and Ankle Surgery for The Sports Medicine Physician (K)		
Scientific Papers	Foot & Ankle I (256-270)		Foot and Ankle II (391-405)	
GENERAL				
Instructional Courses	205, CD7 (8:00-9:00AM), CD8 (9:30-10:30AM), CD13 (8:00-9:00AM) CD14 (9:30-10:30AM),	CD9 (11:00AM-12:00PM), CD15 (11:00AM-12:00PM)	243, CD10 (1:30-2:30PM), CD11 (3:00-4:00PM)	263, CD12 (4:30-5:30PM)
Symposia			Key Concepts of Musculoskeletal Infection (O)	
HAND AND WRIST				
Instructional Courses	206	224	286	264
Symposia				
Scientific Papers	Hand & Wrist II (271-285)			
PEDIATRICS				
Instructional Courses	207	225	244	265
Symposia		Controversies in Pediatric Sports Medicine (M)		
Scientific Papers	Pediatrics II (241-255)			
PRACTICE MANAGEMENT / NON-CLINICAL				
Instructional Courses	208 (8:00-11:00AM), 290 (8:00AM-12:00PM)	226	291 (1:30-5:30PM)	266
Symposia			Quality is the Eye of the Beholder: Whats Measured, What Matters (N)	
Scientific Papers		Practice Mgmt II (331-345)		
SHOULDER AND ELBOW				
Instructional Courses	209	227	245, 246	267, 268
Scientific Papers		Shoulder & Elbow II (286-300)	Shoulder & Elbow III (346-360)	
SPINE				
Instructional Courses		284	247	269
Symposia	Debating Controversies in Spine Surgery (I)			
Scientific Papers				Spine III (451-465)
SPORTS MEDICINE AND ARTHROSCOPY				
Instructional Courses	282	228	248, 249	270, 271
Symposia	Sex and Sports: Caring for the Female Athlete in 2016 (H)			
Scientific Papers		Sports Med/Arth II (316-330)	Sports Med/Arth III (361-375)	Sports Med/Arth IV (421-435)
TRAUMA				
Instructional Courses	210	229	250, 251	272, 288
Symposia		Gun Shot and Explosive Wounds (L)		
Scientific Papers			Trauma IV (376-390)	Trauma V (436-450)
TUMOR / METABOLIC DISEASE				
Instructional Courses		230		
Symposia	Soft Tissue Tumors: A Pictorial and Guide to Diagnosis and Treatment (J)			

THURSDAY, MARCH 3				
	8:00 - 10:00 AM	10:30 AM - 12:30 PM	1:30 - 3:30 PM	4:00 - 6:00 PM
ADULT RECONSTRUCTION HIP AND KNEE				
Instructional Courses	301, 302, 381	321, 322, 384	341, 342	361, 362
Symposia	Challenges and Controversies in Total Hip Arthroplasty (P)	Combined Multi-Ligament, Meniscus and Cartilage Injuries of the Knee (R)	Great Debates in Total Knee Arthroplasty (T)	
Scientific Papers	AR Knee V (466-480)	AR Hip IV (571-585)	AR Hip V (586-600)	AR Knee VI (661-675)
BASIC RESEARCH				
Instructional Courses		323		
FOOT AND ANKLE				
Instructional Courses	303	324	343	363
GENERAL				
Instructional Courses	CD16, 304, 390 (8:00AM-12:00PM), (8:00-10:00AM), CD18 (8:00-9:00AM), CD19 (9:30-10:30AM)	325, CD17 (10:30-11:30AM), CD20 (11:00AM-12:00PM)	344, 391 (1:30-5:30PM), CD21 (1:30-2:30PM), CD22 (3:00-4:00PM)	364, CD23 (4:30-5:30PM), CD24 (4:30-5:30PM)
Symposia		Controversies in Geriatric Care in Orthopaedics (S)		
HAND AND WRIST				
Instructional Courses	305	326	345	365
Symposia			Computer Modeling and 3-D Printing in Upper Extremity Surgery (U)	
Scientific Papers	Hand & Wrist III (481-495)			
PEDIATRICS				
Instructional Courses	382	327, 328	346	366
Symposia				Challenges in Pediatric Trauma What We all Need To Know (W)
Scientific Papers			Pediatrics III (631-645)	
PRACTICE MANAGEMENT / NON-CLINICAL				
Instructional Courses	306		347	
Symposia				The Employed Orthopaedic Surgeon: Promises and Pitfalls (X)
SHOULDER AND ELBOW				
Instructional Courses	307, 308	329, 330	385	367, 368
Symposia			Controversies in Approaches to Anterior Shoulder (V)	
Scientific Papers		Shoulder & Elbow IV (526-540)		Shoulder & Elbow V (646-660)
SPINE				
Instructional Courses	309, 310	383	348, 349	369
Scientific Papers	Spine IV (496-510)	Spine V (556-570)	Spine VI (616-630)	
SPORTS MEDICINE AND ARTHROSCOPY				
Instructional Courses	311		386	370, 371, 387
Scientific Papers			Sports Med/Arth V (601-615)	
TRAUMA				
Instructional Courses			350, 351	388
Symposia	The Treatment of Periprosthetic Fractures in 2016: Can We Reach Consensus (Q)			
Scientific Papers		Trauma VI (541-555)		Trauma VII (676-690)
TUMOR / METABOLIC DISEASE				
Instructional Courses		331	352	
Scientific Papers	Tumor II (511-525)			

FRIDAY, MARCH 4				
	8:00 - 10:00 AM	10:30 AM - 12:30 PM	1:30 - 3:30 PM	4:00 - 6:00 PM
ADULT RECONSTRUCTION HIP AND KNEE				
Instructional Courses	401, 402	421, 483, 484	441, 442	461, 487
Symposia		Outcomes Metrics Symposium for Total Joint Arthroplasty (AA)		
Scientific Papers	AR Hip VI (691-705)	AR Knee VII (751-765)	AR Hip VII (811-825)	AR Hip VIII (901-915), AR Knee VIII (886-900)
BASIC RESEARCH				
Instructional Courses		422	443	
FOOT AND ANKLE				
Instructional Courses	403	423	444	462
Symposia				
Scientific Papers	Foot and Ankle III (736-750)	Foot & Ankle IV (781-795)		
GENERAL				
Instructional Courses	404, CD25 (8:00-9:00AM), CD26 (9:30-10:30AM)	424, CD27 (11:00AM-12:00PM)		
Symposia	Preoperative Optimization of Total Joint Arthroplasty Surgical Risk (Y)	Residency Core Competencies	Annual Meeting Highlights (DD)	The Regulatory Process: How Do I Get My Invention into Patients (FF)
Scientific Papers			Game Changers	
HAND AND WRIST				
Instructional Courses	405	425		
PEDIATRICS				
Instructional Courses	406	426	445	463
Scientific Papers		Pediatrics IV (796-810)		
PRACTICE MANAGEMENT / NON-CLINICAL				
Instructional Courses	407	427	446	
Scientific Papers			Practice Mgmt III (856-870)	
SHOULDER AND ELBOW				
Instructional Courses	408, 482	428	447, 448	464
Symposia		Shoulder Arthroplasty: What To Do When Things Go Bad (BB)		
Scientific Papers			Shoulder & Elbow VII (826-840)	Shoulder & Elbow VI (871-885)
SPINE				
Instructional Courses	409, 481	429	449	465
Scientific Papers	Spine VII (721-735)			
SPORTS MEDICINE AND ARTHROSCOPY				
Instructional Courses	410, 411	430	486	466, 488
Symposia				
Scientific Papers	Sports Med/Arth VI (706-720)	Sports Med/Arth VII (766-780)	Sports Med/Arth VIII (841-855)	
TRAUMA				
Instructional Courses	412, 413	431, 432	450, 485	467, 468
Symposia			Upper Extremity Trauma: How to Define and Expand (EE)	
Scientific Papers				

SATURDAY, MARCH 5**Specialty Day - Times Vary (See Page 50)****Posters, Scientific Exhibits, and Orthopaedic Video Theater (See Page 12)**

Posters, Scientific Exhibits, and the Orthopaedic Video Theater will be located in Academy Hall WC.

Academy Hall hours are:

Tuesday – Friday 7:00 AM – 6:00 PM

Saturday 7:00 AM – 3:00 PM

Secondary Classification

Primary Classification	Adult Reconstruction Hip and Knee	Basic Research	Foot and Ankle	General	Hand and Wrist	Pediatrics	Practice Management	Shoulder and Elbow	Spine	Sports Medicine/ Arthroscopy	Trauma	Tumor and Metabolic Disease
Adult Reconstruction Hip and Knee	AA, 381			102, 161, 202, 241, 283, 285, 322, 342, 361, 384		141	A			R, 341	201, 401	
Basic Research				323								
Foot and Ankle						242				K, 103, 143, 204	162, 262, 363	
General	C, 123, 263	O					Y, CD3, CD18		304	364		243
Hand and Wrist				206, 224, 405		326		U			104, 124, 164, 264, 286, 345, 425	
Pediatrics			207	346	225				145, 265, 328, 426	M, 105, 244, 327, 382, 445	P, 125, 165, 406, 463	
Practice Management				F, N, X, 106, 126, 266, 427								
Shoulder and Elbow				447						G, 147, 167, 168, 209, 246, 267, 268, 329, 368, 408, 428, 448, 464	107, 108, 127, 186, 227, 245	
Spine	429			148		247, 409				269	D, 349	309
Sports Medicine/ Arthroscopy	B, 466			H, 129, 249, 488		311, 410		110, 170, 182, 228, 248, 411	386		387	
Trauma	172, 185, 272, 467		151, 351, 431	131, 251	152	111, 388, 485		EE, 210			Q	
Tumor and Metabolic Disease				230, 331								

This Cross-Classification Chart shows which Instructional Course Lectures (ICL) and Symposia “crosses” over into another classification. The Primary Classification (down the left side) is the session’s main focus; and placing the ICL number and/or Symposia letter in the Secondary Classification column, shows its cross-classification element. For example ICL 225 has a Primary Classification of Pediatrics with a Secondary Classification of Hand and Wrist. For further details on a session, please go to the descriptions on pages 13-43.

From the Tried and True to Cutting Edge – In Your Preferred Learning Style

The Central Instructional Courses Committee and the Central Program Committee, with the assistance of the Instructional Course and Program Committees in each classification, selected the outstanding array of educational opportunities for the 2016 Annual Meeting.

Cornerstones for Your Academy Meeting

 **Instructional Course Lectures** present tried and true solutions in orthopaedics, “the standard of care,” and insightful opinions from expert surgeons. These courses require a ticket purchase with prices ranging from \$50 to \$400. Several Instructional Courses feature an Audience Response System, noted by .

Symposia bring you cutting-edge topics, debates, and the latest thinking from a world-class faculty. They offer a wide variety of subject matter, featuring innovative research and information. Several Symposia sessions are highly interactive and feature an Audience Response System, noted by ; included free with your registration.

Paper Presentations explore new and exciting research, updates of previous studies, and advances in orthopaedics. The moderator’s goal is to stimulate discussion. There are more than 900 papers in all; included free with your registration.

Scientific Exhibits are in-depth, graphic illustrations of a study or complex procedure. Audiovisual, presenter interaction, or some other type of enhancement enriches your learning experience. Enjoy unlimited viewing at your convenience; included free with your registration.

Posters are visual presentations of medical, clinical, or scientific research. Posters are often multi-center or multi-disciplinary studies, exciting new research, or a follow up to a previous study. Enjoy unlimited viewing at your convenience; included free with your registration.

ePosters and eScientific Exhibits are interactive video presentations of research to illustrate a study or procedure. Visit the website for access to all ePosters and eScientific Exhibits at time of meeting.

 **Orthopaedic Review Course: Update for Your Practice and Preparation for Your Test** is newly refocused to help you prepare for the Board Exam. This all-day review of general orthopaedics is presented by experts from each of these subspecialties: pediatrics, upper and lower extremities, tumors and metabolic bone disease, and spine.

Orthopaedic Video Theater presents peer-reviewed videos and multimedia programs. Bringing you the very latest in surgical technique, leading-edge devices, and new technologies. Enjoy unlimited viewing at your convenience; included free with your registration.

Electronic Skills Pavilion showcases the latest technology and applications beneficial to orthopaedic surgeons and their staff. Presentations take place Wednesday through Friday in the Technical Exhibit Hall; included free with your registration.

Timely Topics – New and Interactive Learning Experiences

 **Case Presentation Courses** offer collaborative table discussions led by an expert faculty facilitator. The course moderator presents the case to the participants, sharing images and data via laptops on each table. The facilitator then leads individual table discussion, with each table sharing conclusions. The moderator presents the final solution using evidence-based data and teaching points with references to support the selected treatment. Noted by .

 **Technical Skills Courses** focus on positioning, approach, and step-by-step technical tips via edited videos, followed by discussion on the pearls. Noted by .

Poster Tours, electronically given at the presentation stage, are virtually guided by experts in each classification and a unique way to view the best posters. Internationally recognized experts create a memorable experience by highlighting pearls and answering your questions; included free with your registration.

Career Development Courses benefit everyone who would like to further refine or develop their presentation skills and create an environment beneficial to learning. The Central Instructional Courses Committee has developed themed daily curriculums which are Leadership, Research and Education, Maintenance of Certification, Teaching and Communication, and Marketing. Free with your registration, no ticket necessary, and are noted by .

Ask an Expert sessions welcome you to bring case challenges on a flash drive and present them for diagnosis and recommendation. Offered Wednesday through Friday in the Technical Exhibit Hall; included free with your registration.

Special Highlights – all included free with your registration:

 **Showdowns**
Orthopaedic colleagues debating topics and techniques that demonstrate their point of view. YOU decide who wins! Join us for this special one hour event that will utilize the Audience Response System for you to declare the winner of the showdown. Showdowns are presented on Thursday, 4:00 – 5:00 PM and Friday, 8:00 – 9:00 AM. Don’t miss this engaging new learning format.

 **Flash Five**
A five minute burst of knowledge! Fast and focused, each expert takes on a hot topic – and drills down to the most critical points and takeaways. Presented on Tuesday, 1:30 – 2:30 PM and Thursday, 10:30 – 11:30 AM

 **The Way I See It...**
Learn the “whys” of what the experts do. Benefit from the inside story – what each presenter wants you to know about a top-of-mind issue. Ride a Jetstream of consciousness as experts share their candid, personal thoughts, “just the way they see it”. Presented on Tuesday, 4:00 – 5:00 PM; Wednesday, 10:30 – 11:30 AM; Thursday, 11:30 AM – 12:30 PM; Friday, 1:30 – 3:30 PM in conjunction with Game Changers Paper session.

You don’t want to miss these complimentary sessions!

Adult Reconstruction Hip and Knee

Tuesday, March 1

8:00 AM - 10:00 AM

A **The Essentials for Creating Value in a Knee Arthroplasty Practice**



Robert L. Barrack, MD, Thomas K. Febring, MD, William L. Griffin, MD, Arlen D. Hanssen, MD, William L. Healy, MD, Richard Iorio, MD, William A. Jiranek, MD, Adolph V. Lombardi, Jr, MD, Steven J. MacDonald, MD, Giles R. Scuderi, MD, Thomas P. Sculco, MD, Bryan D. Springer, MD, Robert T. Trousdale, MD, Thomas P. Vail, MD
Moderator: Kevin J. Bozic, MD, MBA

The United States healthcare system is evolving to promote and incentivize value over volume. This change requires providers who manage patients with knee conditions to modify their strategies for delivering care, and to develop new skill sets.

*Second Classification-Practice Management

101 **Safe Adaptation of Anterior Total Hip Arthroplasty With and Without a Specialized Table**



John L. Masonis, MD, Joseph T. Moskal, MD, Michael M. Nogler, MD

Moderator: J. Bohannon Mason, MD

Utilizes video and didactic material to introduce the audience to direct anterior total hip arthroplasty and outlines best practice strategies for adaptation including discussion of risks and pitfalls of the procedure.

102 **Ensuring a Winner: The A, B, Cs of Primary Total Knee Arthroplasty**



Michael P. Bolognesi, MD, Jason M. Hurst, MD, Raymond H. Kim, MD

Moderator: Michael E. Berend, MD

Offers information on patient selection, achieving reproducible limb alignment, balancing the varus and valgus knee, appropriate component sizing and positioning, and best cementing techniques. Interesting cases of primary total knee arthroplasty are presented.

*Second Classification-General

181



Femoroacetabular Impingement: Current Understanding of Pathomechanics, Disease Staging, Relationship to Osteoarthritis, and Contemporary Treatment

Paul E. Beaule, MD, Martin Beck, MD, Asheesh Bedi, MD, J. W. Thomas Byrd, MD, John C. Clohisy, MD, Christopher M. Larson, MD, Michael Leunig, PhD, Klaus Siebenrock, MD, Ernest L. Sink, MD, Ira Zaltz, MD

Moderator: Christopher L. Peters, MD

Will succinctly present current experiential, clinical, and basic science information supporting the above concepts with the goal of improving knowledge of the disease process, and refinement of patient selection and treatment. Specific information regarding the relationship between FAI and hip OA, the pathological mechanisms underlying FAI (from both an in-vivo and in-vitro perspective), unique approaches to disease staging, and contemporary treatment perspectives are presented by international experts in hip preservation surgery.

Tuesday, March 1

10:30 AM - 12:30 PM

121 **Practical Techniques for Revision Total Hip Arthroplasty**



Thomas L. Bernasek, MD, Richard F. Kyle, MD, Frank A. Liporace, MD

Moderator: George J. Haidukewych, MD

This video-rich course focuses on specific tips and tricks from the experts on common, practical techniques useful during revision total hip arthroplasty. Videos supplement short, key point slide presentations. Case-based discussion with audience response system highlights key points of exposure, implant removal, and reconstruction strategies.

Tuesday, March 1

1:30 PM - 3:30 PM

E **Hot Topics and Controversies in Revision Total Hip Arthroplasty**



Keith R. Berend, MD, John J. Callaghan, MD, Clive P. Duncan, MD, MSc, Thomas K. Febring, MD, Kevin L. Garvin, MD, William G. Hamilton, MD, Arlen D. Hanssen, MD, Wayne G. Paprosky, MD, Oleg Safir, MD, Rafael J. Sierra, MD, Scott M. Sporer, MD
Moderator: Paul F. Lachiewicz, MD

Covers, in didactic, case-based, and using video clips, the current controversies in revision total hip arthroplasty. The topics included are exposure options - why and when; acetabular revision choices when there is bone loss; dislocation options; hemi-explantation for infected hip; and the controversy of modular vs. non-modular fluted femoral components.



Technical Skills course



Webcast

141 Hip Preservation Surgery: How to Avoid and Treat Complications and Failures



Paul E. Beaulé, MD, Asheesh Bedi, MD, Klaus Siebenrock, MD

Moderator: *John C. Clohisy, MD*

Complications and early treatment failures are seen after arthroscopic and open joint preservation procedures. Contemporary strategies to avoid and manage suboptimal outcomes are discussed.

*Second Classification-Pediatrics

142 Indications and Techniques for Bi- and Unicompartmental Knee Arthroplasty



Fred D. Cushner, MD, Jess H. Lonner, MD, Michael J. Morris, MD

Moderator: *Adolph V. Lombardi, Jr, MD*

Interest in partial knee arthroplasty has resurged because of its less invasive nature, lower complication rate, and more normal kinematics provided. A better understanding of indications and enhanced prosthetic designs have led to improved results.

Tuesday, March 1 4:00 PM - 6:00 PM

161 Primary Total Hip Arthroplasty: Everything You Need to Know



John J. Callaghan, MD, J. Bohannon Mason, MD, Robert T. Trousdale, MD

Moderator: *Jay R. Lieberman, MD*

Course presenters review preoperative and postoperative strategies to improve outcomes, component preparation and implantation techniques (video demonstrations), and bearing surface selection.

*Second Classification-General

187 The Scary Total Knee Arthroplasty – A Case-based Approach to Complex Knees



Keith R. Berend, MD, Henry D. Clarke, MD, Craig J. Della Valle, MD, Steven B. Haas, MD, Michael A. Kelly, MD, Adolph V. Lombardi, Jr, MD, William J. Long, MD, David J. Mayman, MD, Jose A. Rodriguez, MD, Giles R. Scuderi, MD, Geoffrey H. Westrich, MD

Moderator: *Fred D. Cushner, MD*

Focuses on special situations where standard knee protocols need to be modified to address specific patient needs. The case is presented followed by an approach on how to best treat each patient scenario. Following the case, a short literature review is offered with specific treatment modification options stated.

Wednesday, March 2

8:00 AM - 10:00 AM

201 Arthroplasty as an Option in Unreconstructable Acute Fractures or Failed Fracture Fixation About the Hip and Knee in the Active Elderly



Paul J. Duwelius, MD, George J. Haidukewych, MD, Andrew H. Schmidt, MD

Moderator: *Richard F. Kyle, MD*

Learn which fractures about the hip and knee are unreconstructable or have a high failure rate and why acute arthroplasty in these fractures is best in the active elderly patient. Course participants learn technical procedures after failed fracture fixation and in acute fractures at risk to optimize the success rate of arthroplasty.

*Second Classification-Trauma

202 Preventing Hospital Readmissions and Limiting the Complications Associated with Total Hip Arthroplasty



William L. Healy, MD, Richard Iorio, MD, Vincent D. Pellegrini, Jr, MD

Moderator: *Kevin L. Garvin, MD*

With increasing attention on hospital readmission after total hip arthroplasty, there is a need to better understand and prevent complications responsible for readmission to the hospital.

*Second Classification-General

203 Perioperative Management in Total Knee Arthroplasty



Pete Caccavallo, MD, Carl A. Deirmengian, MD, Ryan Nunley, MD

Moderator: *Brett R. Levine, MD*

This course addresses perioperative care of knee arthroplasty patients focused on evidence- and value-driven recommendations for medical management, blood conservation, pain management, infection prevention, and wound management.

Wednesday, March 2

10:30 AM - 12:30 PM

221 Recurrent Dislocation after Total Hip Arthroplasty: Controversies and Solutions



Stephen A. Jones, MD, Samuel S. Wellman, MD

Moderator: *Paul F. Lachiewicz, MD*

Provides an in-depth discussion of the biomechanics, indications, techniques, and results of these procedures for recurrent dislocation in a didactic and case-based approach.

222 The Total Knee Infection: From Prevention to Treatment



William A. Jiranek, MD, William M. Mihalco, MD, PhD, Wayne G. Paprosky, MD

Moderator: *Khaled J. Saleh, MD, MSc*

By better understanding how to effectively prevent, diagnose, and treat the infected total knee arthroplasty (TKA), the orthopaedic surgeon can improve and optimize care for TKA patients.



Audience Response Session



Case Presentation course

283

**Management of Common Complications of Total Knee Arthroplasty: A Case-based Discussion**

Daniel J. Berry, MD, Michael P. Bolognesi, MD, Henry D. Clarke, MD, David F. Dalury, MD, Brian R. Hamlin, MD, Arlen D. Hanssen, MD, Adolph V. Lombardi, Jr, MD,

Aaron G. Rosenberg, MD, FACS, Robert T. Trousdale, MD, Thomas P. Vail, MD

Moderator: *Mark W. Pagnano, MD*

The topics that are covered include the most common complications and reasons for reoperation after total knee arthroplasty (TKA): instability after TKA (tibiofemoral and patello-femoral), infection after TKA (early and late), wound healing problems after TKA, stiffness after TKA, extensor mechanism disruption after TKA, and periprosthetic fracture after TKA. This course does not cover the generic topic of knee revision for implant loosening, which is covered in other ICLs.

*Second Classification-General

Wednesday, March 2**1:30 PM - 3:30 PM**

241

**Outpatient Arthroplasty: Same Day, Home Safe**

Michael E. Berend, MD, Richard A. Berger, MD, Mark A. Hartzband, MD

Moderator: *Keith R. Berend, MD*

Understanding and addressing safely the reasons that surgeons and patients believe they 'need' a hospital admission is the cornerstone to outpatient arthroplasty. Course faculty review the surgical techniques and perioperative factors.

*Second Classification-General

285

**Trunions, Tapers, and Corrosion in Total Hip Arthroplasty: What's All the Fuss About? What Every Surgeon Should Know**

Robert L. Barrack, MD, Mathias Bostrom, MD, James A. Browne, MD, A. Seth Greenwald, DPhil Oxon, Atul F. Kamath, MD, Arthur L. Malkani, MD, Michael M. Morlock, PhD, Douglas E. Padgett, MD, Christopher L. Peters, MD, Peter K. Sculco, MD, Michael J. Taunton, MD, Thomas P. Vail, MD

Co-Moderators: *Daniel J. Berry, MD, John J. Callaghan, MD*

Faculty evaluates what we know about the frequency of the problem and the clinical circumstances under which the problem occurs. Next we cover the current state of knowledge about how various factors including taper design and materials affect the likelihood of this problem developing. Finally we cover how to best treat the problem when revision is required, when to remove and when to retain implants, what materials to use if a taper is retained (ceramic head etc.), and how to manage soft tissues that may have been damaged by taper corrosion.

*Second Classification-General

Wednesday, March 2**4:00 PM - 6:00 PM**

261

**Innovative Techniques in Revision****Total Hip Arthroplasty**

Donald S. Garbuz, MD, MHSc, Paul F. Lachiewicz, MD
Moderator: *Scott M. Sporer, MD*

Reviews new techniques for management of common problems encountered in revision hip surgery. Acetabular component removal and revision with enhanced surface jumbo cups, new recurrent dislocation options, easier ways to perform extended trochanteric osteotomy (ETO) and fabricate antibiotic cement spacer, and management of the painful metal-metal and ceramic-ceramic hip are covered in video vignettes and case presentations.

287

**Revision Total Knee Arthroplasty Essentials: A Case-based Approach**

James A. Browne, MD, Kevin L. Garvin, MD, Arlen D. Hanssen, MD, Curtis W. Hartman, MD, Raymond H. Kim, MD, Steven J. MacDonald, MD, R. Michael Meneghini, MD, Christopher L. Peters, MD, Bryan D. Springer, MD, Michael J. Taunton, MD

Moderator: *Tad M. Mabry, MD*

Addresses the essentials of revision total knee arthroplasty (TKA) with a focus on surgical indications and practical solutions to the most common revision challenges: instability, stiffness, bone loss, and infection.

Thursday, March 3**8:00 AM - 10:00 AM**

P

**Challenges and Controversies in Total Hip Arthroplasty in 2016**

John J. Callaghan, MD, William J. Hozack, MD, William A. Jiranek, MD, David G. Lewallen, MD, Jay R. Lieberman, MD, Steven J. MacDonald, MD, William J. Maloney, MD, Douglas E. Padgett, MD, Mark W. Pagnano, MD, Harry E. Rubash, MD, Robert T. Trousdale, MD

Moderator: *Daniel J. Berry, MD*

This symposium focuses on major current controversies and challenges in primary hip arthroplasty in 2016. For each topic, the moderator provides a brief evidence-based commentary on the main treatment options and leads a discussion with the whole panel to provide the audience with a broader perspective of the prevailing opinions about optimal management.

301

**Complex Revision Total Hip Arthroplasty: An Advanced Course**

Clive P. Duncan, MD, MSc, Richard W. McCalden, MD, Douglas E. Padgett, MD, Wayne G. Paprosky, MD

Moderator: *Bassam A. Masri, MD, FRCSC*

Utilizing audience response and video, the faculty demonstrates revision total hip arthroplasty techniques stressing planning and exposure, reconstruction of bone loss, and treating dislocations.



Technical Skills course



Webcast

302 **Revision Total Knee Arthroplasty: Planning and Performance (Video Technique)**
 *Michael Dunbar, MD, Ormonde M. Mahoney, MD, Emmanuel Thienpont, MD*

Moderator: Peter F. Sharkey, MD
 Addresses the issue of major bone deficiency during knee revision surgery. Options for handling this problem are discussed.

381 **Management of Infected Total Joint Arthroplasty in 2016 – Where Do We Stand Now?**


Brian M. Curtin, MD, Craig J. Della Valle, MD, Mark G. Freeman, MD, Kevin L. Garvin, MD, Thorsten Gehrke, MD, Arlen D. Hanssen, MD, William A. Jiranek, MD, Javad Parvizi, MD, FRCS, Bryan D. Springer, MD, Louis S. Stryker, MD
Moderator: Thomas K. Fehring, MD
 As the number of total joints performed increases exponentially, so too will the infection burden. This course helps all arthroplasty surgeons become well versed in the diagnosis and management of patients with a periprosthetic infection through a case-based format.
 *Second Classification-Adult Reconstruction Knee

Thursday, March 3 10:30 AM - 12:30 PM

R **Combined Multi-Ligament, Meniscus, and Cartilage Injuries of the Knee**

Joel L. Boyd, MD, Lars Engebretsen, MD, Gregory C. Fanelli, MD, Robert F. LaPrade, MD, PhD, Peter B. MacDonald, MD, Robert G. Marx, MD, Mark D. Miller, MD, James P. Stannard, MD, Michael J. Stuart, MD, Daniel Whelan, MD
Moderator: Bruce A. Levy, MD
 Uses a case-based approach to highlight current evidence-based treatment principles for multiligament knee reconstruction, meniscal repair and transplantation, cartilage preservation, and osteotomies about the knee.
 *Second Classification-Sports Medicine/Arthroscopy

321 **Let's Do a Direct Anterior Hip Replacement (Without a Special Table)**


Kristoff Corten, MD, PhD, Michael Leunig, PhD, Jose A. Rodriguez, MD
Moderator: William J. Hozack, MD
 This is a video-based course focusing on local anatomy related to the direct anterior approach as well as surgical techniques for primary and revision total hip arthroplasty using a direct anterior approach without a special table. Tips for novices on how to shorten the learning curve are provided.

322 **The Urban Legends of Total Knee Arthroplasty**


James A. Browne, MD, Raymond H. Kim, MD, J. Bohannon Mason, MD
Moderator: Bryan D. Springer, MD
 Focuses on evidence-based medicine as it relates to common myths and legends that continue to be practiced in total knee arthroplasty. Each speaker deals with related urban legends in the preoperative, intraoperative, and postoperative time period in an effort to provide evidence-based practice-changing guidelines for the audience.
 *Second Classification-General

384 **Complex Primary Total Hip Arthroplasty: A Case-based Approach**


John J. Callaghan, MD, Craig J. Della Valle, MD, C. Anderson Engh, Jr., MD, Kevin L. Garvin, MD, George J. Haidukewych, MD, William A. Jiranek, MD, David G. Lewallen, MD, Daniel A. Oakes, MD, Wayne G. Paprosky, MD, Christopher L. Peters, MD
Moderator: Daniel J. Berry, MD
 This case-based course highlights techniques and discusses clinical tips and tricks to manage complex primary hip arthroplasty challenges. Techniques to manage challenging cases, including developmental dysplasia of the hip, posttraumatic hip problems, bone deformity and deficiency, and young patients, are discussed.
 *Second Classification-General

Thursday, March 3 1:30 PM - 3:30 PM

T **Great Debates in Total Knee Arthroplasty**

Michael E. Berend, MD, Daniel J. Berry, MD, Craig J. Della Valle, MD, David A. Halsey, MD, William A. Jiranek, MD, Adolph V. Lombardi, Jr. MD, Jess H. Lonner, MD, William J. Maloney, MD, R. Michael Meneghini, MD, Mark W. Pagnano, MD, Javad Parvizi, MD, FRCS, Thomas P. Vail, MD
Moderator: Jay R. Lieberman, MD
 Review the latest controversial issues associated with knee arthroplasty. After each series of lectures, the moderator queries the panel to highlight areas of consensus and controversy. Cases are reviewed to allow the audience to determine how they will treat their patients.

341 **The Pre-Arthritic Hip in the Young, Active Patient: How Do You Approach It? Scope vs. Open, Acetabulum, or Femur**


J.W. Thomas Byrd, MD, John C. Clohisy, MD, Young Jo Kim, MD, PhD
Moderator: Marc Safran, MD
 This course reviews the different treatment options for femoroacetabular impingement and hip dysplasia. Discussion includes arthroscopic treatment, as well as open acetabular based and open femoral osteotomy based approaches.
 *Second Classification-Sports Medicine/Arthroscopy

342 **How to Perform a Primary Total Knee Arthroplasty: Video Vignettes**



Henry D. Clarke, MD, William J. Long, MD,
Ryan Nunley, MD



Moderator: Gwo-Chin Lee, MD

Techniques required to perform a successful total knee arthroplasty are detailed using video vignettes, including preoperative planning, prosthesis selection, surgical exposures, ligamentous balancing, fixation, and patellar resurfacing.

*Second Classification-General

Thursday, March 3

4:00 PM - 6:00 PM

361 **Prevention, Diagnosis, and Treatment of Periprosthetic Joint Infection: An Analysis**



Matthew P. Abdel, MD, Craig J. Della Valle, MD,
Fares S. Haddad, FRCS



Moderator: Bryan D. Springer, MD

Focuses on the challenges and controversies of prevention, diagnosis, and treatment. Rather than a standard didactic session, the panel explores illustrative case examples and analysis that are common to the practicing orthopaedic surgeon.

*Second Classification-General

362 **The Continuum of Constraint in Knee Arthroplasty**



Keith R. Berend, MD, Jeffrey H. DeClaire, MD,
Christopher L. Peters, MD

Moderator: Adolph V. Lombardi, Jr, MD

Implant designs for primary knee arthroplasty have expanded to include broader options for constraint in an effort to better address varying deformities and improve outcomes and satisfaction in patients with end-stage degenerative joint disease.

Friday, March 4

8:00 AM - 10:00 AM

401 **Periprosthetic Fractures Around the Hip and Knee: Contemporary Techniques of Internal Fixation and Revision**



Erik Kubiak, MD, Brett R. Levine, MD, Samir Mehta, MD
Moderator: Frank A. Liporace, MD

Contemporary indications and techniques of internal fixation and revision for periprosthetic fractures around total hip and total knee arthroplasty are presented.

*Second Classification-Trauma

402 **Techniques in Revision Total Knee Replacement**



Matthew P. Abdel, MD, David Backstein, MD,
James I. Huddleston III, MD

Moderator: Arlen D. Hanssen, MD

Lectures utilize video segments to describe surgical exposures, implant removal, prosthesis constraint, extensor mechanism reconstruction, bone defects, antibiotic spacers, and other surgical tips and techniques.

Friday, March 4

10:30 AM - 12:30 PM

AA **Outcomes Metrics Symposium for Total Joint Arthroplasty**

David C. Ayers, MD, Kevin J. Bozic, MD, MBA,
Mark I. Froimson, MD, David G. Lewallen, MD,
Adolph J. Yates, MD

Moderator: Adam Rana, MD

The Patient Protection and Affordable Care Act has created several new Medicare programs. This symposium reports the learned experience of those who have been involved in developing and implementing quality metric strategies at the hospital level through the national level.

*Second Classification-Adult Reconstruction Knee

421 **ABCs of Planning a Knee Arthroplasty**



Brian S. Parsley, MD, Rafael J. Sierra, MD

Moderator: Carlos J. Lavernia, MD

Intended for general orthopaedists. It reviews basics steps necessary to minimize complications and optimize outcomes as well as a comprehensive review of medical/surgical knee arthroplasty planning and tools available to surgeons.

483 **Complications after Total Hip Arthroplasty: Current Strategies for Prevention and Treatment**



John J. Callaghan, MD, Gregory K. Deirmengian, MD,
Christopher Estes, DO, Fares S. Haddad, FRCS,

David J. Jacofsky, MD, Steven J. MacDonald, MD,
R. Michael Meneghini, MD, Christopher L. Peters, MD,
Gregory G. Polkowski II, MD, Scott M. Sporer, MD

Moderator: Craig J. Della Valle, MD

Learn to avoid and optimize the management of complications associated with total hip arthroplasty including dislocation and leg length discrepancy, infection, symptomatic deep vein thrombosis, and periprosthetic fractures.

484 **Personalized Approach to the Painful Aseptic Total Knee Arthroplasty**



David Backstein, MD, Michael E. Berend, MD,
Mathias P. Bostrom, MD, Douglas A. Dennis, MD,
Stuart B. Goodman, MD, William L. Griffin, MD,
William A. Jiranek, MD, William B. Macaulay, MD,
William M. Mihalko, MD, PhD, Mark W. Pagnano, MD,
Wayne G. Paprosky, MD, Javad Parvizi, MD, FRCS

Moderator: Khaled J. Saleh, MD, MSc

By better understanding the classification, diagnosis, and treatment options for aseptic pain, orthopaedic surgeons may benefit their total knee arthroplasty patients through a greater understanding of this potentially debilitating complication.



Technical Skills course



Webcast

Adult Reconstruction Hip and Knee

Friday, March 4 1:30 PM - 3:30 PM

441 **The Treatment and Management of Acetabular Bone Loss in Revision Total Hip Arthroplasty**
 *Matthew Austin, MD, William G. Hamilton, MD, Wayne G. Paprosky, MD*
Moderator: *Neil P. Sheth, MD*
 Upon completion of this course, participants have an algorithmic approach on how to evaluate acetabular bone loss and determine how to surgically treat this entity. Clinical cases help reinforce concepts presented in this instructional course lecture.

442 **Managing Problems and Complications During and After Primary Total Knee Arthroplasty**
 *Michael P. Bolognesi, MD, Steven J. MacDonald, MD*
 **Moderator:** *Jay R. Lieberman, MD*
 Reviews diagnosis and management of intraoperative problems (instability, patella maltracking, and stiffness) and complications (wound drainage, infection, instability, and pain) commonly associated with total knee arthroplasty.

Friday, March 4 4:00 PM - 6:00 PM

461 **Total Hip Arthroplasty – How Do I Get Out of This Problem?**
 *Daniel J. Berry, MD, Kevin L. Garvin, MD, Jay R. Lieberman, MD*
 **Moderator:** *Steven J. MacDonald, MD*
 Designed to provide the surgeon with strategies to manage the most common challenges faced intraoperatively and early postoperatively after total hip arthroplasty (THA). We provide recommendations from leading surgeons on how to deal with these common challenges and consensus opinion by the panel on the best way to solve problems.

487 **How to Do a Complex Total Knee Arthroplasty: Case-based Presentation**
 *Matthew P. Abdel, MD, Wael K. Barsoum, MD, Brian M. Curtin, MD, Kirby Hitt, MD, Courtland G. Lewis, MD, Michael A. Mont, MD, Douglas E. Padgett, MD, Mark W. Pagnano, MD, Jeffrey Stimac, MD, Leo A. Whiteside, MD*
 **Moderator:** *Arthur L. Malkani, MD*
 This is a case-based course focusing primarily on complex or more challenging primary total knee arthroplasty (TKA). Case presentations and group discussion center on preop planning, surgical execution, implant options, and avoidance of complications. Cases include severe varus and valgus deformity, posttraumatic arthritis and deformity, failed uni-arthroplasty, obesity, and patients with co-morbid conditions.

Basic Research

Wednesday, March 2 10:30 AM - 12:30 PM

223 **Orthopaedic Basic Science for the Practicing Physician**
 *Geoffrey D. Abrams, MD, Thomas A. Einhorn, MD*
Moderator: *Philipp Leucht, MD*
 The purpose of this course is to educate the practicing orthopaedic surgeon in the most recent developments in orthopaedic basic science with a special focus on fracture healing, osteoarthritis, and orthobiologics.

Thursday, March 3 10:30 AM - 12:30 PM

323 **Infection in Arthroplasty: The Basic Science of Bacterial Biofilms in its Pathogenesis, Diagnosis, Treatment and Prevention**
 *Fares S. Haddad, FRCS, Edward M. Schwarz, PhD, Mark S. Smeltzer, PhD*
Moderator: *Javad Parvizi, MD, FRCS*
 Course faculty discuss the surest state of affairs with regard to orthopaedic infections and the challenge that biofilm formation presents to the orthopaedic community.
 *Second Classification-General

Friday, March 4 10:30 AM - 12:30 PM

422 **The Synovial Joint: Structure, Function, Injury and Repair, Osteoarthritis**
 *Alan Grodzinsky, PhD*
 **Moderator:** *Joseph A. Buckwalter, MD*
 Offers a concise review of current understanding of the biology and biomechanics of articular cartilage and provides a basis for current understanding of osteoarthritis and cartilage repair. A basis for understanding current clinical approaches to providing biologic resurfacing of articular cartilage and restoration of synovial joint function also is covered.

Friday, March 4 1:30 PM - 3:30 PM

443 **Update on Biomaterials**
 *Nicholas J. Giori, MD, A. Seth Greenwald, DPhil Oxon, Carlos J. Lavernia, MD*
Moderator: *Paul A. Anderson, MD*
 Focuses on modern changes in designs and manufacturing of common metals and plastics and their mechanical performance. Essential engineering principles that should be considered when using medical devices and how new designs may affect them are reviewed.

Foot and Ankle

Tuesday, March 1

8:00 AM - 10:00 AM

103 Management of Complex Foot and Ankle Injuries in the Athlete*J. Chris Coetzee, MD, Kenneth Hunt, MD, Kevin Varner, MD***Moderator:** *Robert B. Anderson, MD*

Treating foot and ankle injuries in the athlete requires an understanding of their unique mechanism, surgical options, and rehabilitation issues. These are addressed for stress fractures, ligament injuries, achilles/peroneal tendon disorders, and the syndesmosis.

*Second Classification-Sports Medicine/Arthroscopy

Tuesday, March 1

10:30 AM - 12:30 PM

122 The Fab Five of the Foot and Ankle*Michael P. Clare, MD, Mark C. Drakos, MD, James J. Sferra, MD***Moderator:** *Mark J. Berkowitz, MD*

Tips and techniques for the surgical treatment of Lisfranc injuries, hallux rigidus, 5th metatarsal fractures, ankle instability, and insertional Achilles tendinopathy are presented.

Tuesday, March 1

1:30 PM - 3:30 PM

143 Surgical Treatment of Ankle Instability: No More Big Incisions*Stephane Guillo, MD, James W. Stone, MD, Masato Takao, MD***Moderator:** *Mark Glazebrook, MD*

Recently, there have been advances in the field of ankle stabilization which utilize arthroscopic or percutaneous procedures that are both minimally invasive and allow complete anatomic reconstruction or repair of the ATFL and CFL. In this course, new arthroscopic and percutaneous techniques are described for surgical stabilization of the ankle that avoid large open incisions.

*Second Classification-Sports Medicine/Arthroscopy

Tuesday, March 1

4:00 PM - 6:00 PM

162 The Land of Ligaments: Navigating Sprains, Strains, and Ruptures about the Foot and Ankle*James A. Nunley II, MD, Martin J. O'Malley, MD, David A. Porter, MD***Moderator:** *Robert B. Anderson, MD*

A spectrum of ligamentous injuries about the ankle and foot are presented with emphasis on those occurring in sport. Case studies and videos are used to illustrate.

*Second Classification-Trauma

Wednesday, March 2

8:00 AM - 10:00 AM

204 Osteochondral Lesions of the Talus: Current Treatment Dilemmas*Eric Giza, MD, John G. Kennedy, MD, James Stone, MD***Moderator:** *Alastair S. E. Younger, MD*

Explore the natural history of the untreated osteochondral lesion of the talus as well as the current treatment options, including arthroscopic autograft, allograft, or autologous chondrocyte implantation.

*Second Classification-Sports Medicine/Arthroscopy

281 Management of Most Common Foot and Ankle Pathologies*Judith F. Baumhauer, MD, MPH, Stephen F. Conti, MD, John E. Femino, MD, Naren G. Gurbani, MD, FACS, Jeffrey E. Johnson, MD, Mark S. Myerson, MD,**Vinod K. Panchbhavi, MD, FACS,**David B. Thordarson, MD, Keith L. Wapner, MD,**Troy S. Watson, MD***Moderator:** *Ashish Shah, MD*

Discusses the fundamentals of conservative and surgical management of most common foot and ankle pathologies like acute achilles rupture, plantar fasciitis, equinus contracture [gastrocnemius tightness], sesamoiditis, metatarsalgia; and also helps to understand the different controversies in treatment of these common pathologies by active discussion with the faculties.

Wednesday, March 2

10:30 AM - 12:30 PM

K Foot and Ankle Surgery for the Sports Medicine Physician*Robert B. Anderson, MD, Richard D. Ferkel, MD, Eric Giza, MD, Martin J. O'Malley, MD***Moderator:** *Timothy Charlton, MD*

Foot and ankle problems account for over 20% of the sports medicine injuries seen on the field of play, yet understanding of these problems is often limited to the fellowship trained foot and ankle surgeon. The primary objective of this symposia is to discuss the most common problems seen on field, the management of these problems, and the most advanced treatment options.

*Second Classification-Sports Medicine/Arthroscopy

Wednesday, March 2

1:30 PM - 3:30 PM

242 Pes Planovalgus: From Adolescent to Adulthood**Moderator:** *Lew C. Schon, MD*

Course faculty review all aspects of treatment of painful pes planovalgus feet, from idiopathic pathology in children through neuromuscular deformity to adult pathology using a case-based approach. Current concepts with regard to surgical indications, operative techniques, and pearls and pitfalls in each treatment group also are covered.

*Second Classification-Pediatrics



Technical Skills course



Webcast

Wednesday, March 2

4:00 PM - 6:00 PM

262 Challenges and Controversies in Foot and Ankle Trauma*Eric Giza, MD, Thomas G. Harris, MD, Anand M. Vora, MD***Moderator:** David B. Thordarson, MD

Provides a practical, case-based lecture on the current state of the art in common foot and ankle trauma. It covers how to avoid common pitfalls as well as emphasizes how to achieve good surgical and nonsurgical outcomes. Each talk highlights easy-to-miss injuries as well.

*Second Classification-Trauma

Thursday, March 3

8:00 AM - 10:00 AM

303 Osteotomy and Arthrodesis of the Forefoot and Hindfoot*Samuel B. Adams, MD, Scott Ellis, MD, Andrew R. Hsu, MD***Moderator:** Kenneth Hunt, MD

This course reviews common surgical techniques for correction of hallux valgus and hindfoot arthrodesis.

Thursday, March 3

10:30 AM - 12:30 PM

324 Arthritis of the Ankle Joint: Refining and Expanding Options in Management*J. Chris Coetzee, MD, Mark E. Easley, MD, Paul T. Fortin, MD***Moderator:** Steven L. Haddad, MD

The new version of this course will provide the attendee with the entire toolkit in managing ankle arthritis. Both joint preserving and joint sacrificing methods will be explored in depth, with significant use of video tips and tricks to achieve the desired patient outcome for all procedures will make the attendee a veteran in future patient consultation and decision-making.

Thursday, March 3

1:30 PM - 3:30 PM

343 Management of the Cavus Foot: A Practical Guide with Video Techniques*J. Chris Coetzee, MD, Steven L. Haddad, MD, William C. McGarvey, MD***Moderator:** Mark S. Myerson, MD

The cavus foot has a varied presentation. This course explains how to examine the foot for a flexible deformity and thereby avoid arthrodesis. An algorithm for treatment of forefoot, midfoot, and hindfoot deformity on the cavus foot is presented. Each deformity is outlined with a case-based approach using video techniques to emphasize reconstruction.

Thursday, March 3

4:00 PM - 6:00 PM

363 Nuts and Bolts of Foot and Ankle Injuries in the Athlete*Robert B. Anderson, MD, Steven L. Haddad, MD, James R. Holmes, MD***Moderator:** J. Chris Coetzee, MD

Provides an overview of how injury management has evolved over time to improve outcome and also allow the athlete a safe and early return to activity. Faculty discusses new innovations in treatment options for specific injuries and also concentrates on postoperative care and rehabilitation techniques to facilitate return to sport. Specific attention is given not only to the serious athlete, but also the weekend warrior and dancers.

*Second Classification-Trauma

Friday, March 4

8:00 AM - 10:00 AM

403 Management of Common Complications of Foot and Ankle Surgery*Mark S. Myerson, MD, Selene G. Parekh, MBA, MD, Steven M. Raikin, MD***Moderator:** Mark E. Easley, MD

Covers common errors in decision making and surgical reconstruction of the foot and ankle. Techniques for revision surgery, reconstruction, and salvage of these deformities are presented in a case-based approach with an emphasis on video techniques.

Friday, March 4

10:30 AM - 12:30 PM

423 Surgical Treatment of Charcot Foot*Carroll P. Jones, MD, Jeremy J. McCormick, MD***Moderator:** Michael S. Pinzur, MD

There is an evidence-based appreciation that the deformity associated with Charcot Foot leads to poor clinical outcomes. This case-based course discusses the evidence-supported rationale for use of the new super-construct internal fixation and static circular external fixation devices.

Friday, March 4

1:30 PM - 3:30 PM

444 Getting It Right the Second Time: Pearls and Principles for Revision Surgery in the Foot and Ankle*Michael P. Clare, MD, Paul T. Fortin, MD, Jeffrey E. Johnson, MD, Lew C. Schon, MD***Moderator:** Mark J. Berkowitz, MD

Presents strategies and techniques for the evaluation and treatment of the failed foot and ankle surgery including the failed bunion, nonunion/malunion of hindfoot and ankle fusion, the unsuccessful flatfoot surgery, and the failed ankle fracture.

Friday, March 4

4:00 PM - 6:00 PM

462 Foot and Ankle Fusions: You Can't Always Replace Us*Donald R. Bohay, MD,**Christopher W. DiGiovanni, MD, Jeremy T. Smith, MD***Moderator:** Christopher P. Chiodo, MD

Covers foot and ankle fusions. Indications, surgical techniques, current controversies, as well as pearls and pitfalls.



Audience Response Session



Case Presentation course

General

Tuesday, March 1

10:30 AM - 12:30 PM

C **Expanding the Role of Outpatient Surgery Centers to Include Total Joint Arthroplasty and Selective Spine Procedures**


Michael E. Berend, MD, Keith R. Berend, MD, Richard A. Berger, MD, Craig J. Della Valle, MD, William G. Hamilton, MD, Milan B. Herceg, MD, William J. Hozack, MD, Jason M. Hurst, MD, Daniel S. Husted, MD, Michael J. Morris, MD, Derek L. Snook, MD

Moderator: Adolph V. Lombardi, Jr, MD

Minimizing surgical trauma with minimally invasive surgical approaches and multimodal pain management has allowed patients to mobilize quickly after total joint arthroplasties and spinal procedures and be safely discharged to home the same day.

*Second Classification-Adult Reconstruction Knee

123 **Qué podemos aprender de las Prácticas de reemplazo de cadera y rodilla en Estados Unidos? (presentado en español) / Lessons Learned from US Hip and Knee Practice (presented in Spanish)**


Miguel E. Cabanela, MD, Claudio Diaz, MD, Carlos J. Lavernia, MD, Fabio Orozco, MD, Camilo Restrepo, MD

Moderator: Rafael J. Sierra, MD

Este curso instruccional en español tiene como objetivo compartir con el auditorio la experiencia de cirujanos de cadera y rodilla que trabajan en Estados Unidos con el fin de mejorar las prácticas quirúrgicas en otros países de habla hispana. (Intended for Spanish speaking international attendees. The aim of the course is to share US total hip arthroplasty (THA) and total knee arthroplasty (TKA) practice experiences with the audience in order to improve THA and TKA care in other countries.)

*Second Classification-Adult Reconstruction Hip

Tuesday, March 1

1:30 PM - 3:30 PM

144 **Is Medical Clearance Enough? Understanding Medical Issues that Can Affect Your Patients' Outcomes**


Joseph M. Lane, MD, Javad Parvizi, MD, FRCS, Khaled J. Saleh, MD, MSc

Moderator: William M. Mihalko, MD, PhD

Discusses the many systemic, endocrine, and nutritional issues that can affect your patient's outcome that are not addressed by medical clearance.

Tuesday, March 1

4:00 PM - 6:00 PM

163 **Accountable Care Organizations: A Discussion of Bioethical Conflicts**


Daniel K. Moon, MD, Lisa Taitzman, MD

Moderator: Paul Levin, MD

Designed to analyze many of the common and relevant ethical dilemmas faced by practicing orthopaedic surgeons. The session is case-based and utilizes the audience response answer system. It is designed to stimulate and encourage significant audience participation.

Wednesday, March 2

8:00 AM - 10:00 AM

205 **Owning Osteoporosis Care in Your Practice**


Clifford B. Jones, MD, FACS, Joseph M. Lane, MD, Aenor J. Sawyer, MD

Moderator: Amy L. Ladd, MD

Osteoporosis is not just a disease of women and is relevant to patients of all ages. By attending this course, participants can improve treatment of patients with fragility fractures and learn the mechanics of setting up an inpatient and outpatient osteoporosis practice.



Wednesday, March 2

1:30 PM - 3:30 PM

O **Key Concepts of Musculoskeletal Infection**


Lawson A. B. Copley, MD, Megan Mignemi, MD, Jonathan G. Schoenecker, MD

Moderator: Scott B. Rosenfeld, MD

Discusses key advances and unanswered questions in order to continue the advancement in clinical care of patients with musculoskeletal infection in the 21st century.

*Second Classification-Basic Research

243 **The Answer is Vitamin D! From Pediatrics to Geriatrics in Orthopaedics**


Joseph M. Lane, MD, Aenor J. Sawyer, MD

Moderator: Barbara Minkowitz, MD

Reviews the importance of Vitamin D in orthopaedics from pediatrics to geriatrics.



*Second Classification-Tumor and Metabolic Disease

Wednesday, March 2

4:00 PM - 6:00 PM

263 **Modern Blood Conservation Strategies for the Orthopaedic Surgeon**


Maxime Cannesson, Harpal S. Khanuja, MD, Ran Schwarzkopf, MD

Moderator: Fred D. Cushman, MD

Explores the challenges of preoperative anemia evaluation, current modern practices for intraoperative fluid management and blood conservation, and postoperative transfusion triggers and hypovolemic treatment algorithms.

*Second Classification-Adult Reconstruction Hip



Technical Skills course



Webcast

Thursday, March 3

8:00 AM - 10:00 AM

304 **Differentiating Cervical Spine and Shoulder Pathology: Common Disorders and Key Points of Evaluation and Treatment**



Charles L. Cox III, MD, Thomas R. Duquin, MD, Wellington K. Hsu, MD

Moderator: *Clinton J. Devin, MD*

Provides information to differentiate cervical spine and shoulder pathology and reviews common disorders and key points of evaluation and treatment.

*Second Classification-Spine

Thursday, March 3

8:00 AM - 12:00 PM

390 **TeamSTEPPS**



Dwight W. Burney III, MD, Mary I. O'Connor, MD, William J. Robb III, MD, Kristy L. Weber, MD

Moderator: *Harpal S. Khanuja, MD*

TeamSTEPPS is an evidence-based team building and communication program designed to enhance patient safety and efficiency in health care. Gives members of the healthcare team the tools to help lead highly effective medical teams. Team members increase team awareness and clarify team roles and responsibilities to produce a functional unit based on patient care; and learn to resolve conflicts and improve information sharing to help eliminate barriers to quality and safety.

Thursday, March 3

10:30 AM - 12:30 PM

S **Controversies in Geriatric Care in Orthopaedics**



Kevin J. Bozic, MD, MBA, Kyle J. Jeray, MD, Stephen L. Kates, MD



Moderator: *Julie A. Switzer, MD*

Focuses on the financial aspects of health reform and the implications for orthopaedic care in the elderly; on the establishment of quality measures for the provision of hip fracture care in the elderly and whether we can work as a committed whole to engineer and execute this; and on an innovative program designed to provide orthopaedic care to the frail elderly outside of the usual office setting.

325 **PRP, BMP, and Stem Cells: What Surgeons Need to Know**



Wellington K. Hsu, MD, Thomas E. Mroz, MD, Frank Petrigliano, MD



Moderator: *Jeffrey C. Wang, MD*

Discusses the most important biologics in orthopaedic surgery, including growth factors, cell therapy, and pharmacologies to promote bone and soft tissue healing.

Thursday, March 3

1:30 PM - 3:30 PM

344 **Antibiotic Stewardship in Orthopaedic Surgery: Principles and Practice**



Brett R. Levine, MD, Michael Phillips, MD, James D. Slover, MD

Moderator: *Joseph A. Bosco III, MD*

The emergence of resistance, geographical diversity of infecting pathogens, and changing patient population requires customization of our prophylactic regimen to reduce infectious complications. A multidisciplinary approach to ASP leads to improved patient outcomes and cost-effective medical care.

Thursday, March 3

1:30 PM - 5:30 PM

391 **TeamSTEPPS**



Dwight W. Burney III, MD, Mary I. O'Connor, MD, William J. Robb III, MD, Kristy L. Weber, MD

Moderator: *Harpal S. Khanuja, MD*

TeamSTEPPS is an evidence-based team building and communication program designed to enhance patient safety and efficiency in health care. Gives members of the healthcare team the tools to help lead highly effective medical teams. Team members increase team awareness and clarify team roles and responsibilities to produce a functional unit based on patient care; and learn to resolve conflicts and improve information sharing to help eliminate barriers to quality and safety.

Thursday, March 3

4:00 PM - 6:00 PM

364 **Magnetic Resonance Imaging of the Knee and Shoulder**



Christine B. Chung, MA, ChunBong Benjamin Ma, MD

Moderator: *Lynne S. Steinbach, MD*

Provides an overview of magnetic resonance imaging diagnostic criteria for injury and conditions of the knee and shoulder. Discussion includes pitfalls, confounders, and potential applications for novel technologies.

*Second Classification-Sports Medicine/Arthroscopy

Friday, March 4

7:30 AM - 4:45 PM

490 **Orthopaedic Review Course: Update for Your Practice and Preparation for Your Test**



Albert J. Aboulafla, MD, Jeffrey Abrams, MD, Todd J. Albert, MD, Matthew Austin, MD,

Jens R. Chapman, MD, Leesa M. Galatz, MD,

Steven L. Haddad, MD, Joseph M. Lane, MD,

Amy L. McIntosh, MD, Todd A. Milbrandt, MD,

Mark D. Miller, MD, David L. Skaggs, MD,

Robert J. Strauch, MD, William C. Warner Jr, MD,

Donald A. Wiss, MD

Chair: *Jeffrey R. Sawyer, MD*

A review of current knowledge on diagnosis and management of clinical problems from a nationally accepted orthopaedic practice perspective. Major sections of the course are pediatrics, upper and lower extremities, tumors and metabolic bone disease, and spine. Each section includes discussion of fractures, complications, infections, and trauma.



General

Friday, March 4

8:00 AM - 10:00 AM

Y Preoperative Optimization of Total Joint Arthroplasty Surgical Risk

Michael Bolognesi, MD, Kevin L. Garvin, MD, William A. Jiranek, MD, William B. Macaulay, MD, William M. Mihalko, MD, PhD, Vincent D. Pellegrini, MD, James D. Slover, MD, Bryan D. Springer, MD

Moderator: Richard Iorio, MD

Identifies “modifiable” risk factors significantly contributing to poor clinical outcome following TJA. Although some of these modifiable risk factors may be longstanding and recalcitrant to change, patients may express renewed interest in addressing them if they stand in the way of obtaining TJA, a procedure they hope will result in quality of life improvement. We suggest a perioperative orthopaedic surgical home (POSH) model to help with this process. Faculty discusses the advantages of preoperative optimization of TJA patients.

*Second Classification-Practice Management

404 Adopting New Techniques and Technologies: Learning Curve in Orthopaedics

Mohit Bhandari, MD, PhD, Wade T. Gofton, BSCH, MD, Michael Solomon, MD

Moderator: Paul E. Beaulé, MD

It has been suggested that within 10 years of graduation, a surgeon needs to acquire a complete set of new skills. This course reviews what an appropriate learning curve is to incorporate a particular technique into practice, as well as how to optimize it using evidence-based medicine.

Friday, March 4

10:30 AM - 12:30 PM

CC Residency Core Competencies

David A. Halsey, MD, Harpal S. Khanuja, MD, William J. Robb III, MD, Daniel White, MD

Moderator: James R. Ficke, MD

This special educational event has been developed especially for residents. Core competencies required for completion of an orthopaedic residency program will be presented. This highly interactive session is webcast live to Resident programs and the remote audience is encouraged to submit questions via Twitter,@AAOSPearls.

424 An Orthopaedist's Introduction to the AMA Guides to Permanent Physical Impairment by Examples Using the 4th, 5th, and 6th Editions

Moderator: J. Mark Melhorn, MD

The need for accurate impairment and disability evaluations continues to increase. This course is designed to select the most common musculoskeletal diagnoses and review how to evaluate and rate using the 4th, 5th, and 6th editions of the American Medical Association Guides.

Friday, March 4

1:30 PM - 3:30 PM

DD Annual Meeting Highlights

Co-Moderators: William M. Mihalko, MD, PhD, Alexander Vaccaro, MD, PhD

The Annual Meeting Highlights Symposium features highlights from the best papers and posters presented at the 2016 Annual Meeting as chosen by the AAOS Program Committee.

Friday, March 4

4:00 PM - 6:00 PM

FF The Regulatory Process: How Do I Get My Invention into Patients

Cheryl R. Blanchard, Ph.D., Stuart B. Goodman, MD, Farshid Guilak, PhD, Warren O. Haggard, PhD, Mark Melkerson, MS, Brian D. Snyder, MD, PhD, Peter F. Ullrich, MD



Moderator: Barbara D. Boyan, PhD

Invention is only the first step in generating a product that can be used to treat patients. This symposium provides surgeons with an overall understanding of product development, focusing on the role of federal regulatory agencies and how to best navigate the regulatory process.

Hand and Wrist

Tuesday, March 1

8:00 AM - 10:00 AM

104 Scaphoid Fractures and Nonunions: What's Hot, What's Not

Gregory I. Bain, MD, Joe Dias, MD, Thomas G. Sommerkamp, MD



Moderator: Dean G. Sotereanos, MD

Covers current concepts for diagnosis and treatment of scaphoid fractures and nonunions, including arthroscopic percutaneous vascularized and nonvascularized techniques.

*Second Classification-Trauma

Tuesday, March 1

10:30 AM - 12:30 PM

124 Management of the Mangled Upper Extremity

George P. Nanos, MD, Peter C. Rhee, MD, Scott M. Tintle, MD



Moderator: Benjamin K. Potter, MD



Salient points regarding both limb salvage and amputation following severe upper extremity trauma are discussed. Illustrative cases emphasize recent advances in reconstructive and amputation surgery as well as prosthetic improvements.

*Second Classification-Trauma



Technical Skills course



Webcast

Tuesday, March 1

4:00 PM - 6:00 PM

164

Hand Fractures: Simple to Complex*Michael S. Bednar, MD, Randipsingh R. Bindra, MD, Craig S. Williams, MD***Moderator:** *Richard A. Bernstein, MD*

Presents the latest advances in the treatment of fractures of the hand, metacarpals, and phalanges in adults and the pediatric population. The pros and cons of open, limited incision, and percutaneous methods are presented. Through a series of didactic lectures and case discussion, participants are presented with the most current approaches to simple and complex injuries of the hand.

*Second Classification-Trauma

Wednesday, March 2

8:00 AM - 10:00 AM

206

Compression Neuropathies – Getting It Right So You Don't Have To Do It Again or Deal with Complications*Sidney M. Jacoby, MD, Dean G. Sotereanos, MD, David S. Zelouf, MD***Moderator:** *A. Lee Osterman, MD*

The management of compression neuropathies throughout the upper extremity are presented in a case-based manner. Detailed discussion regarding pearls and pitfalls of initial treatment, and avoiding the potential complications as well as managing them, aid the orthopaedic surgeon in practice.

*Second Classification-General

Wednesday, March 2

10:30 AM - 12:30 PM

224

The Management of Thumb Basilar Joint Arthritis*Amy L. Ladd, MD, A. Lee Osterman, MD, Marco Rizzo, MD***Moderator:** *Sanjeev Kakar, MD*

Provides an overview to the pathophysiology of basilar thumb joint arthritis and reviews the treatment options/available evidence including arthroscopic debridement, trapeziectomy alone or with interposition, trapeziectomy with suspension arthroplasty, arthrodesis, and joint replacement. Areas of controversy such as how to address metacarpophalangeal (MCP) joint hyperextension and the management of failed primary basilar thumb joint reconstructions are covered. Cases for panel and audience discussion and an algorithm are presented.

*Second Classification-General



Audience Response Session

Wednesday, March 2

1:30 PM - 3:30 PM

286

Distal Radius Fractures: From Pediatrics to Geriatrics*Joshua M. Abzug, MD, Julie E. Adams, MD, Mark E. Baratz, MD, Roger Cornwall, MD, Jesse B. Jupiter, MD, Amy L. Ladd, MD,**Robert Medoff, Jorge L. Orbay, MD, Blane Sessions, MD***Moderator:** *A. Lee Osterman, MD*

The management of distal radius fractures occurring in all age groups is presented in a case-based manner. Detailed discussion regarding pearls and pitfalls of initial treatment and avoiding the potential complications as well as managing them aid the orthopaedic surgeon in practice.

*Second Classification-Trauma

Wednesday, March 2

4:00 PM - 6:00 PM

264

The Lost and Found Art of Percutaneous Pinning in the Hand and Wrist*Louis W. Catalano III, MD, Steven Z. Glickel, MD, Robert J. Strauch, MD***Moderator:** *O. Alton Barron, MD*

Describes the biomechanics, indications, techniques, and outcomes of percutaneous pinning of fractures. Percutaneous pinning is somewhat of a lost art, and the lectures are aimed at reclaiming this art while clearly elucidating important principles through case presentations that demonstrate the pearls and pitfalls of the various techniques.

*Second Classification-Trauma

Thursday, March 3

8:00 AM - 10:00 AM

305

Ulnar Sided Wrist Pain: Where Do I Start?*Brian D. Adams, MD, William B. Geissler, MD, A. Lee Osterman, MD***Moderator:** *Sanjeev Kakar, MD*

Overview of pathophysiology and provides an evidence-based approach toward management of ulnar sided wrist pain. The panel reviews the treatment options available for conditions such as distal radioulnar joint arthritis and instability, triangular fibrocartilage complex disruption, and ulnar impaction.

Thursday, March 3

10:30 AM - 12:30 PM

326

Venturing into the Overlap Between Pediatric Orthopaedics and Hand Surgery*Donald S. Bae, MD, Andrea S. Bauer, MD, Michael S. Bednar, MD***Moderator:** *Joshua M. Abzug, MD*

The management of pediatric upper limb fractures, congenital syndromes, and other conditions are presented in a case-based manner. Detailed discussion regarding pearls and pitfalls of treatment, avoiding the potential complications, as well as managing them, can aid the orthopaedic surgeon in practice.

*Second Classification-Pediatrics



Case Presentation course

Hand and Wrist

Thursday, March 3

1:30 PM - 3:30 PM

U **Computer Modeling and 3-D Printing in Upper Extremity Surgery**
Andrea S. Bauer, MD, Jesse B. Jupiter, MD, Henry R. McCarroll, MD
Moderator: *Lisa L. Lattanza, MD*
 Discusses the applications of computer modeling and three-dimensional printing to upper extremity surgery. Case examples using patient-specific guides to address complex osteotomies in both adult and pediatric patients are discussed.

*Second Classification-Shoulder and Elbow

345 **Why I Cannot Fix this Distal Radius Fracture with Volar Plate?**
Robert J. Medoff, MD, Joseph M. Sherrill, MD, Scott W. Wolfe, MD
Moderator: *Nileshkumar Chaudhari, MD*
 Each faculty member presents a didactic lecture on specified fracture patterns, including information regarding fracture pattern, preoperative planning, selection of surgical approach, technique pearls, fixation options, complications, and difficulties associated with the fixation method of complex distal radius fracture.

*Second Classification-Trauma

Thursday, March 3

4:00 PM - 6:00 PM

365 **Complications of Common Hand Surgery Procedures**
Ryan P. Calfee, MD, Sanjeev Kakar, MD, Fraser J. Leversedge, MD
Moderator: *Peter J. Stern, MD*
 Covers complications following surgery for basal joint arthritis, carpal and cubital tunnel decompression, small bone fixation, volar plating for distal radius fracture, and includes a panel discussion.

Friday, March 4

8:00 AM - 10:00 AM

405 **Infections of the Upper Extremity – New Developments and Challenges**
Apurva Shah, MD, MBA, Robert W. Wysocki, MD
Moderator: *Peter J. L. Jebson, MD*
 We review the role of the infectious disease consultant with an emphasis on serological testing, diagnostic work-up, and microbiological analysis. Through illustrative case examples, we discuss the key clinical features and treatment of necrotizing fasciitis, mucormycosis, and infections caused by mycobacteria and Vibrio species.

*Second Classification-General

Friday, March 4

10:30 AM - 12:30 PM

425 **Contemporary Perspectives on Complex Fracture-Dislocations of the Wrist**
Diego L. Fernandez, MD, Fiesky A. Nunez, MD, Alexander Yong Shik Shin, MD
Moderator: *Jesse B. Jupiter, MD*
 Perilunate and fracture-dislocations about the wrist are a compendium of combined soft tissue and bony injuries which are challenging to recognize and effectively treat. The outcomes are often the result of a careful assessment and surgical management. This course is based around a series of case examples which highlight the variety of injury patterns, methods of clinical and radiological assessment, decision making regarding surgical management, and evidence-based presentation of outcomes and complications.

*Second Classification-Trauma

Pediatrics

Tuesday, March 1

8:00 AM - 10:00 AM

105 **Skeletally Immature Anterior Cruciate Ligament: Controversies and Management**
Allen F. Anderson, MD, Theodore J. Ganley, MD, Mininder S. Kocher, MD, MPH
Moderator: *Shital N. Parikh, MD*
 Focuses on pearls and pitfalls of management of the immature anterior cruciate ligament (ACL). Videos of surgical technique help the audience with technical considerations during ACL reconstruction. Cases bring forward the pros and cons of each form of treatment.

*Second Classification-Sports Medicine/Arthroscopy

Tuesday, March 1

10:30 AM - 12:30 PM

125 **Limb Deformity Evaluation and Principles**
David S. Feldman, MD, Christopher A. Iobst, MD, Sanjeev Sabharwal, MD, MPH
Moderator: *Jenny Frances, MD*
 Reviews the basic and more complex principles in evaluation and treatment of lower extremity deformities, applicable to both adult and pediatric deformity correction.

*Second Classification-Trauma

Tuesday, March 1

1:30 PM - 3:30 PM

145 **Skeletal Dysplasia – Evaluation and Management**
Benjamin Alman, MD, John E. Herzenberg, MD, Klane K. White, MD
Moderator: *William G. Mackenzie, MD*
 Reviews the clinical and genetic diagnosis and management of common spine and extremity problems in children with skeletal dysplasia using a didactic, case presentation, and discussion format.

*Second Classification-Spine

Pediatrics

Tuesday, March 1

4:00 PM - 6:00 PM

165

Do Not Fear Elbow Fractures in Children*John M. Flynn, MD, Mininder S. Kocher, MD, MPH, Peter M. Waters, MD***Moderator:** *David L. Skaggs, MD*

Helps prepare an orthopaedic surgeon covering an emergency department to diagnose, treat, and avoid complications in pediatric elbow fractures such as lateral condyle fractures, radial neck fractures, medial epicondyle fractures, and supracondylar fractures based on the latest literature.

*Second Classification-Trauma

Wednesday, March 2

8:00 AM - 10:00 AM

207

Advanced Ponseti Course and Minimally Invasive Management of Vertical Talus*Jose A. Morcuende, MD, Monica P. Nogueira, MD, Lewis E. Zionts, MD***Moderator:** *Vincent S. Mosca, MD*

Ponseti clubfoot and reverse congenital vertical talus management are methods and not strictly techniques. All aspects of the treatments are important for success and are detailed in this didactic and hands-on course.

*Second Classification-Foot and Ankle

Wednesday, March 2

10:30 AM - 12:30 PM

M

Controversies in Pediatric Sports Medicine: A Case-based Approach*Michael T. Busch, MD, Theodore J. Ganley, MD, Daniel W. Green, MD, Matthew Milewski, MD, Kevin G. Shea, MD, Jennifer M. Weiss, MD, Lawrence Wells, MD***Moderator:** *Eric W. Edmonds, MD*

Case-based debate examining treatment options for four common pediatric sports injuries. Shoulder instability discussion includes first-time traumatic dislocation and multidirectional instability. Patella instability and osteochondritis dissecans of the knee discussion covers the various scenarios that these children may present and then there is a discussion of pediatric anterior cruciate ligament and tibial spine fractures.

*Second Classification-Sports Medicine/Arthroscopy

225

Pediatric Hand and Wrist Fractures: An Approach to their Management and the Ability to Treat the Complications that Inevitably Occur*Andrea S. Bauer, MD, Roger Cornwall, MD, Theresa O. Wyrick, MD***Moderator:** *Joshua M. Abzug, MD*

Management of pediatric hand and wrist fractures is presented in a case-based manner. Detailed discussion regarding pearls and pitfalls of initial treatment, and avoiding the potential complications as well as managing them, aid the orthopaedic surgeon in practice.

*Second Classification-Hand and Wrist

Wednesday, March 2

1:30 PM - 3:30 PM

244

Management of Shoulder and Elbow Pathology in the Pediatric Athlete: Current Concepts*Eric W. Edmonds, MD, Jason Jagodzinski, MD, Andrew T. Penmock, MD***Moderator:** *Nirav K. Pandya, MD*

Pediatric participation in sports with repetitive upper extremity activity has increased tremendously. Appropriate management of shoulder instability, internal impingement, capitellar osteochondritis dissecans lesions, and overuse in these patients is essential.

*Second Classification-Sports Medicine/Arthroscopy

Wednesday, March 2

4:00 PM - 6:00 PM

265

Congenital Scoliosis: Diagnosis and Treatment*Laurel C. Blakemore, MD, John P. Dormans, MD, Michael G. Vitale, MD, MPH***Moderator:** *Frances A. Farley, MD*

Covers diagnosis and treatment of congenital scoliosis. The faculty uses cases to discuss surgery and controversies.

*Second Classification-Spine

Thursday, March 3

8:00 AM - 10:00 AM

382

Adolescent Hip Pain: A Frequent Complaint*Asheesh Bedi, MD, Pablo Castaneda, MD, John J. Christoforetti, MD, Christopher Cook, MD, Reinhold Ganz, MD, Brian D. Giordano, MD, Michael Millis, MD, Eduardo N. Novais, MD, Wudbhav N. Sankar, MD, Ernest L. Sink, MD***Moderator:** *Ira Zaltz, MD*

The field of hip preserving surgery has expanded tremendously as adolescents are concentrating on specific activities with increased intensity. The approach to evaluating and managing patients in this age group has changed with the advent of newer technical approaches that are used to alter skeletal structure and to repair chondral tissue. This course explores the current evaluation and management strategies for adolescent patients with hip pain.

*Second Classification-Sports Medicine/Arthroscopy

Thursday, March 3

10:30 AM - 12:30 PM

327

Pediatric Sports Medicine Operative Challenges and Solutions*Michael T. Busch, MD, Benton E. Heyworth, MD, Kevin G. Shea, MD***Moderator:** *Theodore J. Ganley, MD*

With a case-based interactive format with expert faculty, this course covers hot topics in pediatric sports medicine from the shoulder to the foot.

*Second Classification-Sports Medicine/Arthroscopy



Audience Response Session



Case Presentation course

328 **Management of Adolescent Idiopathic Scoliosis: State of the Art and Best Practices for 2016**



Laurel C. Blakemore, MD, Lori A. Karol, MD, Roger F. Widmann, MD

Moderator: *Daniel W. Green, MD*

Offers a concise review of the management and treatment of adolescent idiopathic scoliosis (AIS). Expert faculty discuss best practices for bracing, and surgical techniques for AIS in 2016. Surgical discussions highlight patient safety, including neuro-monitoring, pedicle screw placement, de-rotation maneuvers, and management of complications. Cases of AIS are reviewed to emphasize patient safety and function as well as pitfalls and pearls of management.

*Second Classification-Spine

Thursday, March 3 1:30 PM - 3:30 PM

346 **Update in Pediatric Musculoskeletal Infections: When It Is, When It Isn't, and What to Do**



Alexandre Arkader, MD, James H. Conway, MD, FAAP, William C. Warner Jr, MD

Moderator: *Ken J. Noonan, MD*

Lectures, cases, and audience participation provide attendees with a contemporary understanding of pediatric infections and their management, an appreciation for disorders that mimic infection, and strategies to avoid surgical site infections.

*Second Classification-General

Thursday, March 3 4:00 PM - 6:00 PM

W **Challenges in Pediatric Trauma: What We All Need to Know**



Donald S. Bae, MD, James H. Beaty, MD, Martin J. Herman, MD, Pooya Hosseinzadeh, MD, Todd A. Milbrandt, MD

Moderator: *Jeffrey R. Sawyer, MD*

Provides the latest information on the safest and most effective techniques in treatment of challenging upper and lower extremity fractures in children.

*Second Classification-Trauma

366 **Office Pediatric Orthopaedics for the General Orthopaedic Surgeon: Staying Current, Avoiding Mistakes**



Martin J. Herman, MD, Richard W. Kruse, DO, Todd A. Milbrandt, MD

Moderator: *Bernard D. Horn, MD*

Geared toward the generalist, introduces current concepts for managing common pediatric orthopaedic problems that are seen in the office. The faculty discusses preferred treatment strategies, avoiding mistakes, and managing complications.

Friday, March 4

8:00 AM - 10:00 AM

406 **Problems and Procedures in Pediatric Trauma**



Matthew A. Halanski, MD, Christopher A. Iobst, MD, Susan A. Scherl, MD

Moderator: *Steven L. Frick, MD*

Case presentations of pediatric trauma and complications guide audience response and discussion. Technical methodology is provided as a tool for treatment of challenging trauma.

*Second Classification-Trauma

Friday, March 4 10:30 AM - 12:30 PM

426 **Practical Guide to Avoiding and Managing Complications in Pediatric Spinal Deformity Surgery**



Baron Lonner, MD, Suken A. Shah, MD, Burt Yaszay, MD

Moderator: *Patrick J. Cahill, MD*
Addresses the complications of pediatric spinal deformity surgery and their management. The format covers the major categories of complications – neurologic injury, infection, loss of fixation and pseudarthrosis, and medical complications.

*Second Classification-Spine

Friday, March 4 1:30 PM - 3:30 PM

445 **Osteochondritis Dissecans in the Adolescent Athlete**



Donald S. Bae, MD, Eric W. Edmonds, MD, Samuel C. Willimon, MD

Moderator: *Jeremy S. Frank, MD*

Juvenile osteochondritis dissecans of the knee, elbow, and ankle in the adolescent athlete is an emerging topic in young adult sports medicine. Expert faculty members review various etiologies and treatment strategies as well as explore potential complications and controversies.

*Second Classification-Sports Medicine/Arthroscopy

Friday, March 4 4:00 PM - 6:00 PM

463 **Flexible Intramedullary Rodding of Pediatric Upper and Lower Extremity Fractures: Techniques, Pearls, and Pitfalls**



Christine Ann Ho, MD, Anthony I. Riccio, MD, Robert L. Wimberly, MD

Moderator: *David A. Podeszwa, MD*

Provides a didactic review and interactive case-based discussion of the indications, techniques, and potential complications of intramedullary (IM) rodding of pediatric and adolescent forearm, femur, and tibia fractures. It is appropriate for both the non-pediatric and pediatric orthopaedic surgeon.

*Second Classification-Trauma



Technical Skills course



Webcast

Practice Management

Tuesday, March 1

8:00 AM - 10:00 AM

106 Online Reputation Management

 Basil R. Besh, MD, Alan S. Hilibrand, MD, Roger Holstein

 **Moderator:** Glenn B. Pfeffer, MD

Takes a unique perspective on how to work review these sites, and examines the importance of online reputation management from the point of view of the physician, hospital, and the largest online medical review company in the United States.

*Second Classification-General

Tuesday, March 1

8:00 AM - 11:00 AM

190 CPT and ICD-10 Coding Fundamentals for Starting Your Practice

 **Moderator:** Margaret Maley, BSN, MS

By the end of the course residents can identify how ICD-10 diagnosis coding will impact your documentation for five common orthopaedic diagnoses; demonstrate how to use technology to find the correct ICD-10 diagnosis in real time; understand how relative value units (RVUs) may be used to calculate your reimbursement or bonus if you are an employed physician; know how procedures are discounted by payors and how arthroscopic procedures are discounted differently; describe how modifiers protect reimbursement; and understand what is included in the global surgical package. Join us for this complimentary workshop that is so important to your career! Due to the nature of this course, it is limited to US residents only.

Tuesday, March 1

8:00 AM - 5:00 PM

199 Practice Management Seminar for Practicing Orthopaedic Surgeons

 William Beach, MD, Scott Becker, Bill Champion, Kathleen DeBruhl, JD, Vicki Giambone, MPA, FACHE, Aimee Greeter, MPH, Max Reiboldt, CPA, Steven F. Schutzer, MD, Derek Theodor, MBA, Adam Waytz, Ph.D.

Co-Moderators: Michael C. Albert, MD, John Cherf, MD, Thomas F. Murray, Jr, MD
Embrace Change, Realize Opportunities. This educational event provides insight to the current state of orthopaedic practice; including business and technology trends, changes in regulations and laws, and best practices to manage an orthopaedic practice.

Tuesday, March 1

10:30 AM - 12:30 PM

126 Stress Management and Balance for the Orthopaedic Surgeon

 Eric C. McCarty, MD, Claude T. Moorman III, MD, Denver T. Stanfield, MD

 **Moderator:** John D. Kelly IV, MD

Orthopaedic surgeons work hard and stress can compromise performance. We address managing time and stress, life balance, maintaining happy families, and issues unique to the female orthopaedic surgeon.

*Second Classification-General

Tuesday, March 1

12:30 PM - 5:00 PM

191 Practice Management Course for Residents and Fellows-in-Training

 John Corsetti, MD, Nicholas Colyvas, MD, Kathleen DeBruhl, JD, Ryan Dopirak, MD,

Co-Moderators: Gail S. Chorney, MD, Charles A. Goldfarb, MD, Brent A. Ponce, MD

This half-day course covers essential elements of practice management not covered in most residency programs. Topics include: tips for a successful job search, negotiating physician employment contracts, tips to increase your income, and how to manage personal finances.

Tuesday, March 1

1:30 PM - 3:30 PM

F Performance Measures: Clinical Quality – Medicare PQRS Pathways for Payment

 William T. Brox, MD, Douglas K. Dew, MD, MBA, Warren Dunn, MD, MPH, Alexandra E. Page, MD, William Shaffer, MD

Moderator: George F. Muschler, MD

Medicare “quality” standards guide both government and commercial reimbursement. The business case for PQRS participation, including reputation and financial necessity, is presented with practical general and “specialty-specific” reporting options.

*Second Classification-General

146 MIPS, Alternate Payment Models, and Bundled Payments – What You Need to Know

 William R. Beach, MD, Louis F. McIntyre, MD, Ranjan Sachdev, MD

Moderator: Jack M. Bert, MD

Discusses the Medicare Incentive Payment System, describes alternative payment models with specific focus on bundled payments, and discusses the role of outcomes and technology in enabling positive reimbursement adjustments.



Tuesday, March 1

1:30 PM - 4:30 PM

192 **Ten Hot ICD-10 and CPT Coding Issues Facing Practicing Orthopaedic Surgeons****Moderator:** Margaret Maley, BSN, MS

At the conclusion of this course you are able to demonstrate how to use technology to find the correct ICD-10 diagnosis in real time; identify the category of any injury diagnosis in ICD10-CM; appropriately document fracture treatment to support ICD-10 coding; use the modifier 58 for staged procedures correctly; define the common use of the modifier 59 in hip, knee, and shoulder surgery; understand and use Modifier 22 for unusual service with confidence.

Tuesday, March 1

4:00 PM - 6:00 PM

166 **Anatomy of a Medical Liability Lawsuit: Practical Issues in Malpractice Avoidance****Theodore J. Clarke, MD, Anisa Kelley, JD, Joseph L. Messa, Jr., Esq.****Moderator:** John P. Lyden, MD

A medical negligence defense attorney and orthopaedic experts in medical liability present techniques and tips to use during medical negligence lawsuits and plaintiff depositions.

Wednesday, March 2

8:00 AM - 11:00 AM

208 **Preparing for and Transitioning into Life after Orthopaedics****Joseph S. Barr, Jr, MD, Cynthia K. Hinds, CLU, Michael McCaslin, CPA****Moderator:** Dempsey S. Springfield, MD

Offers expert advice from a senior orthopaedic surgeon who has made the transition, an investment/retirement planning specialist, and a practice management consultant for planning the transition from full-time practicing orthopaedic surgeon to your life after orthopaedics. No CME credit.

Wednesday, March 2

8:00 AM - 12:00 PM

290 **Effective Surgeon-Patient Communication: The Key to Patient Satisfaction, Patient-Centered Care, and Shared Decision Making****John R. Tongue, MD****Moderator:** Dwight W. Burney III, MD

Newly revised and updated, this course uses the 4E model (Engage, Empathize, Educate, Enlist) to enable surgeons to effectively and efficiently communicate with patients. Positive effects include increased patient and surgeon satisfaction, improved adherence to treatment plans, and decreased malpractice risk.

Wednesday, March 2

10:30 AM - 12:30 PM

226 **Practical Tips for Implementing Bundled Payments in Your Practice****Mark I. Froimson, MD, Richard Iorio, MD, Steven F. Schutzer, MD****Moderator:** Kevin J. Bozic, MD, MBA

Provides attendees with a greater understanding of the policy trends driving new payment methodologies, their readiness for participation in bundled payments, and strategies for successful implementation of value-based payment models.

Wednesday, March 2

1:30 PM - 3:30 PM

N **Quality is in the Eye of the Beholder: What's Measured, What Matters, and How Do We Reconcile This?****Judith F. Baumhauer, MD, MPH, Alexandra E. Page, MD, Ann E. Van Heest, MD, Jennifer M. Wolf, MD****Moderator:** Rachel S. Rohde, MD

Influences of patient and physician characteristics on outcomes and satisfaction metrics are discussed. Strategies to implement measures and positively impact quality of care are suggested.

*Second Classification-General

Wednesday, March 2

1:30 PM - 5:30 PM

291 **Effective Surgeon-Patient Communication: The Key to Patient Satisfaction, Patient-Centered Care, and Shared Decision Making****John R. Tongue, MD****Moderator:** Dwight W. Burney III, MD

Newly revised and updated, this course uses the 4E model (Engage, Empathize, Educate, Enlist) to enable surgeons to effectively and efficiently communicate with patients. Positive effects include increased patient and surgeon satisfaction, improved adherence to treatment plans, and decreased malpractice risk.

Wednesday, March 2

4:00 PM - 6:00 PM

266 **Risk Evaluation and Management Strategies for Prescribing Opioids****Kimberly Lehrfeld, PharmD, David C. Ring, MD, David H. Sohn, JD, MD****Moderator:** Thomas B. Fleeter, MD

Course details the Food and Drug Administration's risk evaluation and mitigation strategy opioid program, assists physicians in safe narcotic dosing, and outlines risks of inappropriate narcotics prescribing. This course was organized by the AAOS Medical Liability Committee.

*Second Classification-General



Technical Skills course



Webcast

Practice Management

Thursday, March 3

8:00 AM - 10:00 AM

306 Hospital Alignment Strategies



James M. Daniel, JD, MBA,
Michael Swarzman, MA, MBA



Moderator: John Cherf, MD, MPH

Rapid strategic change is being driven by dynamic shifts in financial incentives, the competitive marketplace, quality measurement, proposed health reform, lifestyle concerns, and a changing social compact between hospitals and physicians. Discussion of new models emerging to successfully align interests.

Thursday, March 3

1:30 PM - 3:30 PM

347 Payment Reform: Update on a Moving Target



Thomas C. Barber, MD, Brian R. McCardel, MD,
George F. Muschler, MD

Moderator: Alexandra E. Page, MD

Payment reform requires recognizing and responding to changes. SGR repeal and enactment of MACRA will impact care reimbursement for the next decade. The fundamentals of MACRA are covered as well as ortho-specific planning for the two payment tracks (MIPS or alternative payment models).

Thursday, March 3

4:00 PM - 6:00 PM

X The Employed Orthopaedic Surgeon: Promises and Pitfalls

Melbourne D. Boynton, MD, John Gramer,
Nicholas J. Janiga, BA, ASA, Michael Suk, MD,
Ronald W. B. Wyatt, MD

Moderator: Alexandra E. Page, MD

AAOS Fellows increasingly choose employment. Both surgeon and hospital systems drive this trend. Pros and cons of different employment models are explored, including practical issues of employment, and how employment may change in the future.

*Second Classification-General

Friday, March 4

8:00 AM - 10:00 AM

407 Evolving Healthcare Delivery and Payment Systems: Attempts to Visualize into the Crystal Ball



Paul J. Duvelius, MD, Michael Suk, MD,
Joseph Tomaro, PhD

Moderator: Kevin J. Bozic, MD, MBA

Provides orthopaedic surgeons with the basic tools necessary to evaluate options for participation in accountable care organizations (ACO) and bundled payments and forecasts implications of these trends on the US healthcare system.

Friday, March 4

10:30 AM - 12:30 PM

427 Nontechnical Surgical Skills: What Are They? Why Do They Matter?



Andrew Grose, MD, Mary I. O'Connor, MD,
John S. Webster, MD, MBA, Andrew M. Wong, MD

Moderator: Dwight W. Burney III, MD

Nontechnical skills (communication, teamwork, leadership, situational awareness, decision making) are increasingly recognized as important in surgical outcomes. This course reviews current knowledge of the role of nontechnical skills in the successful care of the patient requiring orthopaedic surgery.

*Second Classification-General

Friday, March 4

1:30 PM - 3:30 PM

446 Cost Effectiveness Research In Orthopedics: What you need to know



Eric C. Makhni, MD, Richard C. Mather, MD,
Eric F. Swart, MD

Moderator: Kevin J. Bozic, MD, MBA

Cost-effectiveness research is becoming increasingly prevalent in orthopedic surgery, yet many of the underlying principles

Shoulder and Elbow

Tuesday, March 1

8:00 AM - 10:00 AM

107 Proximal Humerus Fractures: Treatment Considerations and Technical Pearls



Michael J. Gardner, MD, Charles L. Getz, MD,
Jay D. Keener, MD

Moderator: James C. Krieg, MD

Provides the attendee with step-by-step descriptions of each of four treatment techniques for fractures of the proximal humerus. Experts provide their technical pearls and pitfalls for open and mini-open plating, intramedullary nailing, hemiarthroplasty, and reverse arthroplasty of the shoulder.

*Second Classification-Trauma

108 Infected Shoulder Arthroplasty: Diagnostic Dilemmas, Treatment Challenges, and Current Controversies



Mark A. Frankle, MD, Jason Hsu, MD,
Joseph P. Iannotti, MD, PhD

Moderator: Surena Namdari, MD, MSc

All hot topics related to management of periprosthetic joint infection (PJI) in the shoulder are discussed. The course is divided into three sections: diagnostic challenges, spotlight on P. acnes, and surgical treatment of PJI.

*Second Classification-Trauma



Audience Response Session



Case Presentation course

Tuesday, March 1

10:30 AM - 12:30 PM

127 **Proximal Humerus Fractures: Current Treatment Options, Pearls, and Pitfalls**
 Louis W. Catalano III, MD, Bradford O. Parsons, MD, Thomas Quin Throckmorton, MD
Moderator: O. Alton Barron, MD
 Provide thorough review of literature-supported treatment options; compare and contrast different techniques that are applicable to a given fracture pattern; review the basic techniques with pearls and pitfalls in an effort to minimize intraoperative and postoperative complications; and present case examples to further elucidate the teaching points covered by each speaker.
 *Second Classification-Trauma

128 **Shoulder Arthroplasty: Key Steps to Improve Outcomes and Minimize Complications**
 George S. Athwal, MD, Emilie V. Cheung, MD, Joaquin Sanchez-Sotelo, MD
Moderator: John W. Sperling, MD, MBA
 Course faculty discuss challenges and the latest surgical advances in the treatment of osteoarthritis and cuff tear arthropathy, as well as the salvage of a failed arthroplasty. The course includes case-based discussions.

Tuesday, March 1

1:30 PM - 3:30 PM

147 **Rotator Cuff Controversies**
 Neal S. ElAttrache, MD, John E. Kuhn, MD, Theodore F. Schlegel, MD
Moderator: Richard J. Hawkins, MD
 Course faculty discuss the basic science of cuff healing and the issues of repairing or not repairing, single vs. double row, and knotless systems. The future related to tissue engineering, scaffolding, and healing also is covered.
 *Second Classification-Sports Medicine/Arthroscopy

186 **How to Avoid Complications in Elbow Trauma: A Case-based Interactive Discussion**
 George S. Athwal, MD, Gregory I. Bain, MD, Denise Eygendaal, Jeffery S. Hughes, MBBS, FRACS, Mark A. Mighell, MD, Lars P. Mueller, PhD, Bradford O. Parsons, MD, Joaquin Sanchez-Sotelo, MD, Scott P. Steinmann, MD, Thomas Quin Throckmorton, MD
Moderator: Graham J. W. King, MD
 An international panel of experts and participants are challenged with a series of cases of common elbow injuries and their complications. Groups of participants facilitated by a faculty member discuss and debate critical issues to prevent and treat common complications. Additionally, the moderator probes the faculty on controversial topics.
 *Second Classification-Trauma

Tuesday, March 1

4:00 PM - 6:00 PM

G **Game Changers in Elbow Surgery: New Paradigms that Transformed My Practice**
 Christopher S. Ahmad, MD, George S. Athwal, MD, Michael Hausman, MD, Jay D. Keener, MD, Graham J. W. King, MD, Michael D. McKee, MD, Mark E. Morrey, MD, Shawn W. O'Driscoll, MD, David C. Ring, MD
Moderator: Joaquin Sanchez-Sotelo, MD
 The practice of elbow surgery has been transformed by a number of elements, from newly described diagnostic physical examination findings to modern techniques for sport injuries, elbow arthroscopy, fracture fixation, and elbow arthroplasty.
 *Second Classification-Sports Medicine/Arthroscopy

167 **Arthroscopic Rotator Cuff Repair: Indication and Technique**
 Jeffrey S. Abrams, MD, Joshua Dines, MD, Peter J. Millett, MD, MSc
Moderator: Felix H. Savoie, MD
 Reviews current physical examination, imaging, and optimal surgical and biologic repair techniques in the injured rotator cuff patient, as well as cost-efficient postoperative care via a case-based, interactive approach.
 *Second Classification-Sports Medicine/Arthroscopy

168 **Pitfalls in the Operative Management of Common Shoulder Problems: How to Avoid and What To Do When They Occur**
 Asheesh Bedi, MD, Michael J. Gardner, MD, Andrew S. Rokito, MD
Moderator: Joseph D. Zuckerman, MD
 Focuses on avoiding common pitfalls in performing rotator cuff repairs, acromioclavicular joint repairs, open reduction/internal fixation of proximal humeral fractures, shoulder arthroplasty, and how to treat problems when they occur.
 *Second Classification-Sports Medicine/Arthroscopy

Wednesday, March 2

8:00 AM - 10:00 AM

209 **Rotator Cuff: Spectrum of Repair**
 Richard L. Angelo, MD, Pascal Boileau, MD, Felix H. Savoie, MD
Moderator: Jonathan B. Ticker, MD
 A variety of techniques for arthroscopic rotator cuff repair, from partial tear repairs, as well as single- and double-row repairs, to subscapularis repairs, are highlighted, along with pearls and technical tips.
 *Second Classification-Sports Medicine/Arthroscopy

Wednesday, March 2

10:30 AM - 12:30 PM

227 **Elbow Trauma Gone Bad**

 April D. Armstrong, MD, George S. Athwal, MD, Robert Z. Tashjian, MD



Moderator: Emilie V. Cheung, MD

Complications ensuing from elbow trauma can be challenging to manage. We discuss current understanding on recognizing and treating instability patterns. Critical concepts regarding soft tissue complications such as stiffness, wound healing, and nerve injury are discussed.

*Second Classification-Trauma

Wednesday, March 2

1:30 PM - 3:30 PM

245 **Three and Four Part Proximal Humerus Fractures – The Gambler Edition**

 Mark A. Frankle, MD, Richard J. Hawkins, MD, Mark A. Mighell, MD



Moderator: Jonathan C. Levy, MD



Surgical management of complex three- and four-part proximal humerus fractures has improved with new technologies such as locked plates and the reverse shoulder arthroplasty. The goal is to better understand when to hold 'em (fix), when to fold 'em (arthroplasty), and when to walk away (nonoperative management). Focuses on technical tips to assist in each surgical option together with expert opinion and literature review.

*Second Classification-Trauma

246 **Massive Rotator Cuff Tears: Arthroscopy to Arthroplasty**

 Christian Gerber, MD, Peter J. Millett, MD, MSc, Curtis R. Noel, MD



Moderator: Reuben Gobezie, MD



Covers the diagnosis, classification, and treatment of massive cuff tears, including open and arthroscopic repair, the use of grafts and transfers, and arthroplasty options.

*Second Classification-Sports Medicine/Arthroscopy

Wednesday, March 2

4:00 PM - 6:00 PM

267 **The Young Arthritic Shoulder: Scope, Arthroplasty, Interposition, Fusion, and Resurfacing**

 George S. Athwal, MD, Anand M. Murthi, MD, Robert Z. Tashjian, MD

Moderator: Joseph A. Abboud, MD

Provides registrants with the most up-to-date treatment options for the young arthritic shoulder. The focus is on biologic options, arthroplasty, role of arthroscopy, as well as fusion.

*Second Classification-Sports Medicine/Arthroscopy

268

**New Frontiers in Shoulder Instability: From Cutting Open to Cutting Edge and Back Again**

Robert A. Arciero, MD, Giovanni Di Giacomo, MD, Laurent Lafosse, MD

Moderator: John M. Tokish, MD

Addresses current controversies in treating anterior shoulder instability – balancing innovative techniques with the evidence for and against them in a case-based format.

*Second Classification-Sports Medicine/Arthroscopy

Thursday, March 3

8:00 AM - 10:00 AM

307

**Management of Glenoid Bone Loss in Primary and Revision Shoulder Arthroplasty**

George S. Athwal, MD, Joseph P. Iannotti, MD, PhD, John W. Sperling, MD, MBA



Moderator: Thomas Quin Throckmorton, MD

Focuses on management of glenoid bone loss in shoulder arthroplasty. The key points of glenoid pathoanatomy and their applications to preoperative planning are discussed. Glenoid bone grafting techniques, custom targeting guides, and their outcomes also are covered. The goal is to understand and apply the tools that are available to treat glenoid defects.

308

**Elbow Arthroplasty: Lessons Learned from the Past and Directions for the Future**

Theodore A. Blaine, MD, Graham J. W. King, MD, Mark E. Morrey, MD



Moderator: Joaquín Sanchez-Sotelo, MD

Reviews current standards on elbow arthroplasty including patient selection, exposure, implant selection, surgical technique, and postoperative management; and provides an evidence-based approach to current literature on elbow arthroplasty. Present and future improvements in implant design and surgical technique are discussed as well.

Thursday, March 3

10:30 AM - 12:30 PM

329

**All Things Clavicle: From Acromioclavicular to Sternoclavicular and All Points in Between**

Carl J. Basamania, MD, Laurence D. Higgins, MD, Mark A. Mighell, MD



Moderator: Gordon I. Grob, MD

Addresses management and clinical outcomes of clavicular injuries, including midshaft and distal clavicle fractures, as well as acromioclavicular and sternoclavicular joint dislocations. Anatomical and biomechanics related to treatment are reviewed.

*Second Classification-Sports Medicine/Arthroscopy

330

**Shoulder Arthroplasty: How To Do Them All**

Leesa M. Galatz, MD, Charles L. Getz, MD, John W. Sperling, MD, MBA



Moderator: Thomas Quin Throckmorton, MD

Focuses on the key step-by-step technical aspects of performing multiple types of shoulder arthroplasty. This includes standard total shoulder arthroplasty as well as techniques to address glenoid deficiency, improve component position, and treat proximal humeral bone loss.



Audience Response Session



Case Presentation course

Thursday, March 3

1:30 PM - 3:30 PM

V **Controversies in Approaches to Anterior Shoulder Instability**





 Jeffrey S. Abrams, MD, Robert A. Arciero, MD, Richard J. Hawkins, MD, CDR (ret) Matthew T. Provencher, MD
Moderator: John M. Tokish, MD
 Discusses advantages and disadvantages and techniques of different surgical approaches for shoulder instability to obtain stabilization of the shoulder. The course combines the current evidence in the literature with case presentations to advance clinical care options. A Case-based, Pan-Specialty Perspective from AANA, AOSSM, SOMOS, and ASES

385 **Complex Shoulder Arthroplasty: Case Discussions and Management**


 Theodore A. Blaine, MD, Edward V. Craig, MD, Lynn A. Crosby, MD, Thomas B. Edwards, MD, Evan L. Flatow, MD, Leesa M. Galatz, MD, Joseph P. Iannotti, MD, PhD, Mark A. Mighell, MD, Matthew L. Ramsey, MD, John W. Sperling, MD, MBA, Philipp N. Streubel, MD
Moderator: Thomas Quin Throckmorton, MD
 Understand and apply strategies for managing glenoid and humeral bone deficiency in shoulder arthroplasty, options and techniques available to treat infected shoulder arthroplasty, and causes for instability after shoulder arthroplasty. Learn to treat them according to each etiology.

Thursday, March 3

4:00 PM - 6:00 PM

367 **How to Manage the Failed Rotator Cuff Repair in the Younger Patient (< 50)**


 Anand M. Murthi, MD, Robert Z. Tashjian, MD
Moderator: Joseph A. Abboud, MD
 Target audience is surgeons who are trying to more effectively manage patients with failed rotator cuff repairs who need operative treatment. The focus is on evidence-based methods, specifically non-arthroplasty options.

368 **Shoulder Instability: Technical Skills**



 Pascal Boileau, MD, James P. Bradley, MD, Laurence D. Higgins, MD
Moderator: Hussein A. Elkousy, MD
 Provides technical guidance for arthroscopic and open management of anterior, posterior, and multidirectional instability as well as revision surgery and management of bone loss.
 *Second Classification-Sports Medicine/Arthroscopy

Friday, March 4

8:00 AM - 10:00 AM

408 **Navigating the Research in Rotator Cuff Disease: An Evidence-Based Approach to Improved Patient Outcomes**


 Brian T. Feeley, MD, Jay D. Keener, MD, John E. Kuhn, MD
Moderator: ChunBong Benjamin Ma, MD
 Presents a summary of all the best evidence research over the past five years on the management of rotator cuff disease. Participants learn about the clinical outcomes, operative and nonoperative management, and basic science studies regarding rotator cuff diseases.
 *Second Classification-Sports Medicine/Arthroscopy

482 **How to Avoid Complications in Reverse Shoulder Arthroplasty**


 George S. Athwal, MD, Pascal Boileau, MD, Wayne Z. Burkhead, Jr, MD, Edward V. Craig, MD, Joshua Dines, MD, Thomas B. Edwards, MD, Mark A. Frankle, MD, Joseph P. Iannotti, MD, PhD, Tom R. Norris, MD, Thomas Quin Throckmorton, MD
Moderator: David M. Dines, MD
 As indications for the use of reverse total shoulder arthroplasty have increased, the use of this technology has become more widespread among practitioners. Will present current concepts in the diagnosis, treatment, and prevention of complications in a case presentation format; directed to both less and more experienced surgeons.

Friday, March 4

10:30 AM - 12:30 PM

BB **Shoulder Arthroplasty: What to Do When Things Go Bad – Managing Complications**


 George S. Athwal, MD, Pascal Boileau, MD, Lynn A. Crosby, MD, Mark A. Frankle, MD, Frank Gohlke, MD, Laurent Lafosse, MD, Joaquin Sanchez-Sotelo, MD, John W. Sperling, MD, MBA
Moderator: Scott P. Steinmann, MD
 Addresses the main complications that can be seen in the postoperative period. Work-up of the painful arthroplasty, dislocation and instability of the anatomic or reverse implant, and diagnosis and treatment of infection are addressed. Additionally, glenoid sided failure, scapular, and periprosthetic fractures are discussed. Finally neurologic issues related to the surgical procedure are addressed.

428 **Diagnosis and Treatment of the Biceps-Labral Complex: The State of the Art 2016**

 James R. Andrews, MD, Stephen F. Brockmeier, MD, Nikhil N. Verma, MD
Moderator: Anthony A. Romeo, MD
 The anatomy of the biceps-labral complex is well understood, but the function and appropriate indications for treatment remain controversial. Recommendations are discussed and cases presented.
 *Second Classification-Sports Medicine/Arthroscopy

Shoulder and Elbow

Shoulder and Elbow

Friday, March 4 1:30 PM - 3:30 PM

447 **Total Shoulder Arthroplasty: Should I Be Using a Stemless Prosthesis? When, Why, and How**
 *Mark D. Lazarus, MD, Ofer Levy, MD, Anand M. Murthi, MD*

Moderator: *Joseph A. Abboud, MD*
 The total shoulder market in recent years has exploded with new humeral stem designs from standard stems, platform stems, mini, micro, and stemless. Will help practitioners navigate through this process and learn how to technically optimize the stem they choose.

*Second Classification-General

448 **Elbow Arthroscopy: Indications, Techniques, Outcomes, and Complications**
 *John E. Conway, MD, Michael J. O'Brien, MD, Matthew Ramsey, MD*

Moderator: *Felix H. Savoie, III, MD*
 Outlines techniques for performing arthroscopic procedures at the elbow, with a specific focus on indications, tips and pearls, and outcomes and alternative treatment strategies. Potential complications are studied with an emphasis on how to avoid them.

*Second Classification-Sports Medicine/Arthroscopy

Friday, March 4 4:00 PM - 6:00 PM

464 **Biologic Treatments and Enhancements for Treatment of Rotator Cuff Tears – Past, Present, and Future**
 *Alessandro Castagna, MD, Scott A. Rodeo, MD*

Moderator: *Ofer Levy, MD*
 Course faculty discuss the biologic challenges in treatment of rotator cuff tears, the history of biologic treatments and enhancements, and assess current and future developments in a critical evidence-based way.

*Second Classification-Sports Medicine/Arthroscopy

Spine

Tuesday, March 1 8:00 AM - 10:00 AM

109 **Avoiding and Managing Complications in Routine Lumbar Spine Surgery**
 *Alpesh A. Patel, MD, Faisal A. Siddiqui, MD, Harvey E. Smith, MD*
Moderator: *Joseph R. O'Brien, MD*
 Focused on general spinal practice with discussion on prevention and management of complications.

Tuesday, March 1 10:30 AM - 12:30 PM

184 **Cervical Spine Smackdown: Ask the Experts**
 *Cedric Barrey, MD, Byung-wan Choi, MD, Ken Ishii, MD, PhD, Louis G. Jenis, MD, Thomas E. Mroz, MD, Themistocles S. Protopsaltis, MD, K. Daniel Riew, MD, Rick C. Sasso, MD, Kern Singh, MD, Jeffrey C. Wang, MD*


Moderator: *Alan S. Hilibrand, MD*
 Cases presented and arguments made regarding treatment, followed by “smackdown” by participants. Then, participant cases are shown and treatment debated in small groups.

Tuesday, March 1 1:30 PM - 3:30 PM

D **What Keeps Me Awake at Night: Cervical Spine Surgery**
 *Darrel S. Brodke, MD, Louis G. Jenis, MD, Joon Y. Lee, MD, Kristen E. Radcliff, MD, John J. Rhee, MD, Rick C. Sasso, MD*
Moderator: *Alan S. Hilibrand, MD*
 Discusses/debates three challenges of cervical spine surgery: management and avoidance of intraoperative neurological deficits, timing and intervention for acute spinal injury, and safe/effective treatment of myelopathy due to ossification of posterior longitudinal ligament.
 *Second Classification-Trauma

148 **MRI of the Spine: Essentials for the Orthopaedic Surgeon**
 *Yoshimi Endo, MD, William B. Morrison, MD, Brian J. Neuman, MD*
Moderator: *John A. Carrino, MD*
 Will help clinicians develop a systematic structured checklist approach to the accurate interpretation of spine MRI exams emphasizing standardized nomenclature and grading schemes.
 *Second Classification-General

Tuesday, March 1 4:00 PM - 6:00 PM

169 **Surgical Management of Cervical Spondylotic Myelopathy**
 *Chris A. Cornett, MD, Clinton J. Devin, MD, Joon Yung Lee, MD*
Moderator: *James Kang, MD*
 Pathophysiology of cervical spondylotic myelopathy is discussed followed by a thorough discussion on the rationale for surgical treatment. Indications for anterior, posterior, as well as combined approaches, are discussed.

Wednesday, March 2

8:00 AM - 10:00 AM

- I** **Debating Controversies in Spine Surgery**
 Christopher M. Bono, MD, Michael D. Daubs, MD,
 Edward J. Dohring, MD, David W. Polly, MD,
 Kern Singh, MD, Jeffrey C. Wang, MD
Moderator: Alan S. Hilibrand, MD
 Debates three contemporary controversies in spine surgery. 1) Sacroiliac fusion: can it help post-fusion lower back pain? 2) Is cervical arthroplasty appropriate for 2-level disease? 3) Minimally invasive spine surgery: is the evidence finally there?

Wednesday, March 2

10:30 AM - 12:30 PM

- 284** **Degenerative Spondylolisthesis: An Evidence-based Assessment of Treatment Options and Outcomes**
 Ivan Cheng, MD, Theodore J. Choma, MD,
 Scott D. Daffner, MD, Michael D. Daubs, MD,
 John G. Devine, MD, Mitchel B. Harris, MD,
 James Kang, MD, Robert W. Molinari, MD,
 Kern Singh, MD
Moderator: John C. France, MD
 Covers treatment options and outcomes for degenerative spondylolisthesis. The cases review diagnostic, nonsurgical, and surgical techniques to show interventions that the literature supports and those that need further investigation.

Wednesday, March 2

1:30 PM - 3:30 PM

- 247** **Correction Strategies and Implant Placement in Spine Deformity Surgery – How I Do It**
 Peter O. Newton, MD, Matthew E. Oetgen, MD,
 David W. Polly, Jr, MD
Moderator: Annalise N. Larson, MD
 Through videos and technical discussion, this fast-paced course covers classic and contemporary spinal correction maneuvers outside of osteotomies with a focus on intraoperative assessment and appropriate intervention to optimize correction.
 *Second Classification-Pediatrics

Wednesday, March 2

4:00 PM - 6:00 PM

- 269** **Head and Spine Injuries in Athletes: When to Worry**
 Patrick J. Cahill, MD, Kern Singh, MD,
 Alexander Vaccaro, MD, PhD
Moderator: William C. Warner, Jr, MD
 Head and spine injuries in athletes can range from minor to catastrophic, can occur in sports as varied as football and cheerleading, can occur in any age group, and can limit or prohibit return to sports. It is essential to differentiate among the many levels of severity of head and spine injuries to determine appropriate treatment and safe return to play.
 *Second Classification-Sports Medicine/Arthroscopy

Thursday, March 3

8:00 AM - 10:00 AM

- 309** **Modern Techniques in the Treatment of Patients with Metastatic Spine Disease**
 Justin Bird, MD, Peter S. Rose, MD,
 Joseph H. Schwab, MD
Moderator: Rex A. W. Marco, MD
 Focuses on which patients with spinal metastatic disease may benefit from surgery vs. radiation therapy. In addition, advanced spine surgical techniques are presented.
 *Second Classification-Tumor and Metabolic Disease

- 310** **Avoiding and Managing Complications in Cervical Spine Surgery**
 Darrel S. Brodke, MD, Mark F. Kurd, MD,
 Moe R. Lim, MD
Moderator: Joon Yung Lee, MD
 Management of common complications such as dysphasia and dysphonia and more complex ones such as vertebral artery injuries, adjacent level disease, inadequate decompression, and fusion-related complications are discussed.

Thursday, March 3

10:30 AM - 12:30 PM

- 383** **Adult Spinal Deformity: Surgical Planning and Complications**
 Christopher Ames, MD, Robert S. Bess, MD,
 Darrel S. Brodke, MD, Thomas J. Errico, MD,
 Khaled M. Kebaish, MD, Michael P. Kelly, MD,
 Rex A. W. Marco, MD, Gregory M. Mundis, MD,
 Themistocles S. Protopsaltis, MD, Rajiv K. Sethi, MD
Moderator: Robert A. Hart, MD
 Cases focus on various scenarios of adult spinal deformity (untreated idiopathic scoliosis, degenerative lumbar scoliosis, flat back syndrome, the older adult deformity patient) as well as complications of treatment (intraoperative spinal cord signal changes, proximal junctional failure, and non-union with rod fracture).

Thursday, March 3

1:30 PM - 3:30 PM

- 348** **Adult Lumbar Scoliosis: State-of-the-Art Treatment (Operative and Nonoperative)**
 Serena S. Hu, MD, Themistocles S. Protopsaltis, MD,
 Rajiv K. Sethi, MD
Moderator: Munish C. Gupta, MD
 Utilizing lecture and case discussion, this course focuses on the definition of adult lumbar scoliosis and includes discussion on the radiographic, clinical, and surgical indications for correction.
- 349** **Current Concepts in Cervical Spine Trauma**
 Carlo Bellabarba, MD, Robert W. Molinari, MD,
 Timothy A. Moore, MD
Moderator: Richard J. Bransford, MD
 Reviews current concepts in the evaluation and treatment of cervical spine trauma to include upper and subaxial cervical fractures and spinal cord injuries.
 *Second Classification-Trauma



Technical Skills course



Webcast

Spine

Thursday, March 3

4:00 PM - 6:00 PM

369 **Adult Lumbar Disc Herniation: Treatment, Complications, Outcomes, and Evidence-Based Data for Patient and Health Professional Counseling**

Michael P. Kelly, MD, Han Jo Kim, MD, Peter G. Passias, MD

Moderator: *Eric O. Klineberg, MD*

Provides evidence-based treatment options for adult patients with lumbar disc herniation to aid surgeons in counseling patients and healthcare professionals.

Friday, March 4

8:00 AM - 10:00 AM

409 **Realignment Planning in Adult Spinal Deformity: The Newest Tools, Formulas, and Techniques to Get it Right**

Christopher Ames, MD, Michael P. Kelly, MD, Themistocles S. Protopsaltis, MD

Moderator: *Robert S. Bess, MD*

Covers the treatment of adult spinal deformity and focuses on clinical data and new tools to help improve surgical planning, outcomes, and avoid complications.

*Second Classification-Pediatrics

481 **Managing Complex Problems in Lumbar Spinal Stenosis**

Paul A. Anderson, MD, John P. Birkedal, MD, Gregory D. Carlson, MD, Kingsley R. Chin, MD, John A. Davis, Jr, MD, Sanford E. Emery, MD, MBA, Russel C. Huang, MD, Timothy A. Moore, MD, Sheeraz Qureshi, MD, Joseph D. Smucker, MD, Jung U. Yoo, MD

Moderator: *Christopher G. Furey, MD*

Reviews of treatment strategies for complex cases of spinal stenosis, including recurrent stenosis, degenerative scoliosis, thoracolumbar stenosis, and the elderly, compromised patient. The course appeals to those who treat patients whose conditions are not always “garden-variety.”

Friday, March 4

10:30 AM - 12:30 PM

429 **Is it the Back or the Hip? Differentiating Lumbar Spine from Hip Pathologies: Key Points of Evaluation and Treatment**

Aaron Buckland, FRACS, Ryan G. Miyamoto, MD, Rakesh Patel, MD, James D. Slover, MD

Moderator: *Afshin Razi, MD*

Focuses on the causes and overlapping clinical presentation of lumbar spine and hip pathology. Key diagnostic methods, clinical signs, and exam findings used to differentiate them, as well as common treatment options, are discussed.

*Second Classification-Adult Reconstruction Hip

Friday, March 4

1:30 PM - 3:30 PM

449 **Treating the Aging Spine**

Darrel S. Brodke, MD, Robert A. McGuire, Jr, MD, Glenn R. Rechtine II, MD

Moderator: *Theodore J. Choma, MD*

Targets orthopaedists who treat spinal conditions in the elderly – from osteoporosis and fractures to degenerative deformities.

Friday, March 4

4:00 PM - 6:00 PM

465 **Complication Management in Minimally Invasive Spine Surgery**

Saad Chaudhary, MD, Jeffrey S. Rob, MD, Kern Singh, MD

Moderator: *Sheeraz Qureshi, MD*

Addresses rarely discussed complications involved with minimally invasive spine surgery both in the initial and later phases of adoption; and involves a detailed interactive discussion on perioperative and intraoperative pearls to safely and successfully perform minimally invasive procedures. In addition, salvage techniques are discussed, addressing complication avoidance, management, and results.

Sports Medicine and Arthroscopy

Tuesday, March 1

8:00 AM - 10:00 AM

110 **How to Reverse Reversomania: Arthroscopic Repair of Massive Cuff Tears**

Stephen S. Burkhart, MD, Laith Jazrawi, MD, Miltiadis H. Zgonis, MD

Moderator: *John D. Kelly IV, MD*

Conveys the most recent techniques in managing massive rotator cuff tears arthroscopically. The attendee appreciates the proposal that most massive tears are indeed repairable and that partial repair does truly serve a very useful purpose. The role of graft augmentation and superior capsule reconstruction are developed.

*Second Classification-Shoulder and Elbow

182 **MRI-Arthroscopy Correlations of the Knee and Shoulder: A Case-based Approach**

Steven B. Cohen, MD, Frank W. Gwathmey, MD, Darren L. Johnson, MD, Robert G. Marx, MD, Eric C. McCarty, MD, Mark D. Miller, MD, Michael J. O'Brien, MD, Frank Petrigliano, MD, Hollis Potter, MD, James E. Voos, MD

Moderator: *Stephen F. Brockmeier, MD*

In this brief introduction to MRI, a series of knee and shoulder cases are presented and discussed. MRI and arthroscopy correlation is emphasized.

*Second Classification-Shoulder and Elbow



Audience Response Session



Case Presentation course

Tuesday, March 1

10:30 AM - 12:30 PM

B

**The Athletic Hip: From Impingement to Arthroplasty**

Paul E. Beaulé, MD, Asheesh Bedi, MD,
Patrick M. Birmingham, MD, J.W. Thomas Byrd, MD,
John C. Clohisy, MD, Bryan T. Kelly, MD,
Michael Leunig, PhD, Michael A. Mont, MD,
Shane J. Nho, MD, Christopher L. Peters, MD,
Klaus Siebenrock, MD

Moderator: Christopher M. Larson, MD

Provides a comprehensive and current, evidence-based discussion on the management of groin and hip pain in the active and athletic patient across generations. The complex decision-making process of hip preservation versus arthroplasty in the early degenerative hip also are considered, and technical considerations regarding approach, bearing surfaces, and longevity of arthroplasty reviewed.

*Second Classification-Adult Reconstruction Hip

129

**The Four Most Common Types of Cartilage Damage You Will See in Practice: How We Treat Them and Why**

Brian J. Cole, MD, MBA, Christian Lattermann, MD

Moderator: Andreas H. Gomoll, MD

Course faculty discuss cartilage disease based on common real-life patient presentations, including osteochondritis dissecans, patellofemoral pain, postmeniscectomy pain, and incidental defects found during arthroscopy. They focus on patient selection and indications, leaving ample time for discussion.

*Second Classification-General

130

**Elbow Arthritis in the Young Athlete**

Christopher S. Ahmad, MD, Philip A. Davidson, MD,
Brett D. Owens, MD

Moderator: Laith M. Jazrawi, MD

Reviews the elbow injuries of the throwing athlete and those that are associated with long-term osteoarthritis (OA). We discuss surgical technique and ways to lower the risk of OA after surgery in an athlete.

Tuesday, March 1

1:30 PM - 3:30 PM

149

**International Perspective in Revision ACL Reconstruction: What Have We Been Missing?**

Steven A. J. Claes, MD, PhD, Philippe Neyret, MD,
Michael J. Stuart, MD

Moderator: Aaron J. Krych, MD

Provides international perspective on treatment strategies for revision anterior cruciate ligament (ACL) reconstruction. Surgical indications, anatomy, and techniques are reviewed for anterolateral ligament reconstruction, osteotomy, concomitant meniscus/cartilage injury, and technical considerations.

150

**Shoulder Instability: An American Perspective**

Robert A. Arciero, MD,
CDR (ret) Matthew T. Provencher, MD,
Anthony A. Romeo, MD

Moderator: Nikhil N. Verma, MD

Provide a case-based overview discussing surgical management of shoulder instability with an emphasis on North American opinions. Significant controversy exists regarding indications for soft tissue stabilization, particularly among surgeons from the US versus Europe. Although bone loss procedures are increasing in frequency, techniques and indications differences persist.

Tuesday, March 1

4:00 PM - 6:00 PM

170

**Dilemmas of the Throwing Shoulder**

James P. Bradley, MD, Neal S. ElAttrache, MD,
Anthony A. Romeo, MD

Moderator: James R. Andrews, MD

The presenters discuss the various pathologies of the throwing shoulder, including the role of retroversion and soft tissue, physical examination signs, and treatment options.

*Second Classification-Shoulder and Elbow

Wednesday, March 2

8:00 AM - 10:00 AM

H

**Sex and Sports: Caring for the Female Athlete in 2016**

Asheesh Bedi, MD, Kevin M. Guskiewicz, PhD ATC-L,
Mary L. Ireland, MD, Anthony E. Johnson, MD,
William N. Levine, MD, Scott D. Martin, MD,
Elizabeth G. Matzkin, MD

Moderator: Cordelia W. Carter, MD

Promote scientific discussion regarding sex-based differences in musculoskeletal medicine by reviewing five common sports injuries with supportive case examples whose incidence, presentation, and outcomes vary by sex. This symposium is also co-branded with the AAOS Women's Health Issues Advisory Board.

*Second Classification-General

282

**Primary Anterior Cruciate Ligament Failure: How Do I Get it Right the Second Time!**

Annunziato Amendola, MD, Allen F. Anderson, MD,
Robert A. Arciero, MD, Robert T. Burks, MD,
Charles A. Bush-Joseph, MD, David R. McAllister, MD,
Eric C. McCarty, MD, Mark D. Miller, MD,
Claude T. Moorman, III, MD, Kurt P. Spindler, MD

Moderator: Darren L. Johnson, MD

Will help you to understand in-depth potential etiologies of anterior cruciate ligament (ACL) failure and ways to improve our outcomes. Also understand the importance of meniscal, collateral knee ligament injury, alignment, and chondral injury in the final outcome of ACL surgery. Technical pearls to deal with the above are provided in detail using a case-based format.



Technical Skills course



Webcast

Wednesday, March 2

10:30 AM - 12:30 PM

228

**From the Glenoid to the Radial Tuberosity - Management of Biceps Pathology in 2016***Rachel M. Frank, MD, Laith M. Jazrawi, MD, Eric J. Strauss, MD***Moderator:** Anthony A. Romeo, MD

Provides a comprehensive overview of management of the biceps from the glenoid to the radial tuberosity, with an evidence-based approach focusing on the cost-effectiveness and value of all available surgical approaches.

*Second Classification-Shoulder and Elbow

Wednesday, March 2

1:30 PM - 3:30 PM

248

**Arthroscopic Management of Shoulder Instabilities: Anterior, Posterior, and Multidirectional***Jeffrey S. Abrams, MD, CDR (ret) Matthew T. Provencher, MD, Richard K. N. Ryu, MD***Moderator:** Larry D. Field, MD

This is a comprehensive overview featuring advanced, cutting-edge arthroscopic shoulder instability techniques. Clinical pearls and technique tips are emphasized. Case controversies are presented and discussed.

*Second Classification-Shoulder and Elbow

249

**Patellofemoral Arthritis: Treatment Strategies from Cartilage Restoration to Arthroplasty***Elizabeth A. Arendt, MD, David Dejour, MD, Andreas H. Gomoll, MD***Moderator:** Diane L. Dahm, MD

Provides a comprehensive overview of the surgical management of full thickness chondral lesions of the patellofemoral joint from cartilage restoration procedures to arthroplasty.

*Second Classification-General

Wednesday, March 2

4:00 PM - 6:00 PM

270

**Hip Arthroscopy: Tales from the Crypt***Marc J. Philippon, MD, Marc Safran, MD, Thomas G. Sampson, MD***Moderator:** Dean K. Matsuda, MD

Presents nightmarish errors, preventative and corrective measures, and lessons learned by a renowned group of experienced surgeons with integrated time to discuss audience experiences.

271

**Return to Play after Anterior Cruciate Ligament Reconstruction: When and What Test to Do...Safe or Sorry?***James J. Irrgang, PhD, Darren L. Johnson, MD, Brian Noehren, PT, PhD***Moderator:** Mary L. Ireland, MD

Gives basic science and offers an orthopaedic surgeon's perspective on return to play by showing specific test, gait analysis, and timeline of doing these tests. A case-based approach based on observation of movement patterns and gait analysis is shown. Perspective on mechanism of injury, prevention programs, and commonalities of movement patterns also are presented.

Thursday, March 3

8:00 AM - 10:00 AM

311

**Advanced Surgical Techniques in Femoroacetabular Impingement: An In-Depth Approach***John C. Clobis, MD, Christopher M. Larson, MD***Moderator:** Jeffrey Nepple, MD

AOSSM

Focuses on detailed review of preoperative imaging with direct correlation to findings at the time of surgery. Utilizing a video-based discussion of the surgical treatment, participants are exposed to a variety of surgical techniques in FAI with detailed discussion of surgical preference and surgical pearls.

*Second Classification-Pediatrics

Thursday, March 3

1:30 PM - 3:30 PM

386

**Concussion Management in Athletes: A Multi-disciplinary Approach***Brett C. Anderson, MD, Laura Baugh, MD, Darren E. Campbell, MD, Christopher D'Lauro, PhD, Jonathan Jackson, MD, Anthony J. Jarecke, OD, MBA, Ky Kobayashi, MD, Gerald T. McGinty, DPT, OCS, Renee Pazdan, MD, Alicia Souwignier, DPT***Moderator:** Carl D. Allred, MD

Emphasis is placed on differentiating patterns of clinical presentation such as primary visual or vestibular dysfunction. Principles for developing an active, patient-specific treatment plan are discussed. Cases allow for teaching points covering return-to-play guidelines and protocols. A multi-disciplinary team of medical professionals serve as table facilitators.

*Second Classification-Spine

Thursday, March 3

4:00 PM - 6:00 PM

370

**Athletic Hip Injuries: Presentation, Evaluation, and Return to Play***Asheesh Bedi, MD, Shane J. Nho, MD, Marc Safran, MD***Moderator:** Thomas S. Lynch, MD

AOSSM

Will introduce the audience to common core and hip pathology that is prevalent in the athletic population as well as the treatment necessary to allow our athletes to return to play safely and quickly.



Audience Response Session



Case Presentation course

371

**The Management of Meniscal Pathology: From Partial Meniscectomy to Transplantation***Philip A. Davidson, MD, James N. Gladstone, MD, Robert J. Meislin, MD***Moderator:** *Eric J. Strauss, MD*

Provides a focused consolidation of expert lectures on current diagnoses and management of meniscus pathology and treatment.

387

**Multiple Ligament Knee Injuries – What Would You Do?***Annunziato Amendola, MD, Robert A. Arciero, MD, Gregory C. Fanelli, MD, F. Winston Gwathmey, MD, Christopher D. Harner, MD, Darren L. Johnson, MD, Robert F. LaPrade, MD, PhD, Bruce A. Levy, MD, Eric C. McCarty, MD, Claude T. Moorman, MD***Moderator:** *Mark D. Miller, MD*

Using a series of actual knee multiple ligament injury (MLI) cases, we discuss treatment options for a variety of conditions to include open injuries, four ligament tears, obese MLI, and delayed presentation.

*Second Classification-Trauma

Friday, March 4

8:00 AM - 10:00 AM

410

**Surgical Management of Patellar Instability***David Dejour, MD, John P. Fulkerson, MD, Robert A. Teitge, MD***Moderator:** *Shital N. Parikh, MD*

Focuses on a step-wise approach to the surgical treatment of patellar stabilization addressing each contributing factor.

*Second Classification-Pediatrics

411

**New Paradigms in the Throwing Shoulder***W. Benjamin Kibler, MD, Craig D. Morgan, MD, Brian J. Sennett, MD***Moderator:** *John D. Kelly IV, MD*

Delves into the latest scientific research regarding the causation and mechanisms involved in injury to the throwing shoulder. The role of the scapula, GIRD, retroversion, and kinetic chain are addressed. The most contemporary and efficient means of resolving labral, cuff, and capsular lesions are developed with particular attention paid to the rotator interval capsule.

*Second Classification-Shoulder and Elbow

Friday, March 4

10:30 AM - 12:30 PM

430

**Joint Preservation Techniques for the Knee in 2016: The Utility of Biologics, Osteotomies, and Cartilage Restoration Procedures***Rachel M. Frank, MD, Andreas H. Gomoll, MD, Eric J. Strauss, MD***Moderator:** *Brian J. Cole, MD, MBA*

Provides a comprehensive overview of joint preservation techniques for the knee, including biologic and reconstructive approaches, with an emphasis on evidence-based treatment guidelines for young, high-demand patients.

Friday, March 4

1:30 PM - 3:30 PM

486

**ACL Revision Reconstruction Technical Issues: A Case-based Approach***Joel L. Boyd, MD, Thomas M. DeBerardino, MD, Gregory C. Fanelli, MD, Aaron J. Krych, MD, Robert F. LaPrade, MD, PhD, Bruce A. Levy, MD, Peter B. MacDonald, MD, Robert G. Marx, MD, Daniel Whelan, MD, Rick W. Wright, MD***Moderator:** *Michael J. Stuart, MD*

Provides practical information and technical tips for surgeons who perform revision anterior cruciate ligament (ACL) reconstruction. The case presentations highlight decision-making skills and solutions to common, challenging problems.

Friday, March 4

4:00 PM - 6:00 PM

466

**Issues of Alignment and Tibial Slope: When to Address and How?***David Dejour, MD, Alan Getgood, MD, FRCS (Ortho), Anil S. Ranawat, MD***Moderator:** *Volker Musahl, MD*

A review of knee malalignment with a special focus on coronal plane and sagittal plane alignment. Indications for proximal tibia osteotomies and distal femur osteotomies and advantages and disadvantages of closing wedge and opening wedge osteotomies are presented.

*Second Classification-Adult Reconstruction Knee

488

**Articular Cartilage Disease and Meniscal Deficiency***Jack M. Bert, MD, William Bugbee, MD, Robert T. Burks, MD, Brian Cholelli, MD, Andrew D. Goodwillie, MD, Christian Lattermann, MD, Bert Mandelbaum, MD, Frank R. Noyes, MD, Nicholas A. Sgaglione, MD, Geoffrey Van Thiel, MD, MBA, Adam B. Yanke, MD***Moderator:** *Andreas H. Gomoll, MD*

Focusing on evidence-based decision making as it relates to the care and treatment of patients with articular cartilage defects. Facilitators emphasize an open dialogue related to concomitant management of comorbidities such as meniscal deficiency and malignment.

*Second Classification-General



Technical Skills course



Webcast

Trauma

Tuesday, March 1

8:00 AM - 10:00 AM

111 **International Perspectives on the Masquelet Technique for the Treatment of Segmental Defects in Bone**


Peter Giannoudis, MD, FRCS, Alain C. Masquelet, MD, PhD, Paul R. Stafford, MD
Moderator: *Laurent Obert, MD*

The Masquelet technique implies a two-stage procedure. In the first stage, a polymethylmethacrylate (PMMA) block manages the dead space resulting from segmental bone defect and produces a bioactive membrane. In the second stage, the PMMA spacer is removed and fresh cancellous bone autograft is placed into the defect with the bioactive membrane surrounding it. The membrane prevents graft resorption by promoting vascularization and corticalization.

*Second Classification-Pediatrics

112 **Surgical Exposure Trends and Controversies in Extremity Fracture Care**


Clifford B. Jones, MD, FACS, Dean G. Lorich, MD, Paul Tornetta III, MD

Moderator: *Stephen Kottmeier, MD*

Half of this course is dedicated to upper extremity, and the second half to lower extremity contemporary plating techniques. Emphasis is directed to surgical access routes, trends, and controversies, as well as anatomic dissection, patient positioning, and preoperative planning. Indication, implant insertion, outcomes, and complications are deemphasized or omitted. Questions and answers and well-edited video dissections complete the course.

Tuesday, March 1

10:30 AM - 12:30 PM

131 **Proper Usage and Understanding of Antibiotics in the Treatment of Musculoskeletal Infections**


Douglas R. Osmon, MD, Javad Parvizi, MD, FRCS

Moderator: *David W. Lowenberg, MD*

Knowledge of how microbes gain a foothold and then evade common modes of treatment in the host are covered. The proper usage of antibiotics as well as their role and limitations in treatment of these infections are defined, including implant related factors in infection.

*Second Classification-General

183 **Periarticular Fractures of the Tibia: The Case for Going Prone**


Jeffrey Anglen, MD, FACS, Cory A. Collinge, MD, Kenneth A. Egol, MD, Clifford B. Jones, MD, FACS, Stephen Kottmeier, MD, Mark Lee, MD, Hassan R. Mir, MD, MBA, Paul Tornetta III, MD, Mark S. Vrahas, MD, J. Tracy Watson, MD

Moderator: *Lisa K. Cannada, MD*

Prone positioning in the operating room can be a hassle. In addition, the perception of more dangerous structures and less familiarity with the approach makes this plan less popular. By review of periarticular tibial fractures with cases, including surgical video, you leave this session eager to choose prone, when appropriate.

Tuesday, March 1

1:30 PM - 3:30 PM

151 **The Not-So-Simple Ankle Fracture: Avoiding Problems and Pitfalls to Improve Patient Outcome**


Julius A. Bishop, MD, William W. Cross III, MD, David Dalstrom, MD

Moderator: *Christopher McAndrew, MD*

Focusing on four themes, challenges to care for the rotational ankle fracture are highlighted and tips for management are provided.

*Second Classification-Foot and Ankle

185 **Fractures of the Proximal Femur: A Case-based Approach**


Lisa K. Cannada, MD, Roy Davidovitch, MD, Joseph R. Hsu, MD, Kyle J. Jeray, MD, Madhav A. Karunakar, MD, Sanjit R. Konda, MD, Philipp Leucht, MD, Saqib Rehman, MD, Mark S. Vrahas, MD, Philip Wolinsky, MD

Moderators: *Kenneth A. Egol, MD*

Focuses on the management of femoral neck and pertrochanteric fracture. Attention is given to surgical tips and tricks.

*Second Classification-Adult Reconstruction Hip

Tuesday, March 1

4:00 PM - 6:00 PM

171 **Young Femoral Neck Fractures – Why Are They So Scary?**


Tania Ferguson, MD, MS, Christopher G. Finkemeier, MD, Mark A. Lee, MD

Moderator: *Brett D. Crist, MD*

A “young” femoral neck fracture is a case that causes significant stress for orthopaedic surgeons. When should they be fixed, how can I get it anatomically reduced and avoid complications? This ICL reviews it all through didactics, debate, and case discussion.

172 **Geriatric Trauma: Acute Arthroplasty for Fractures**


William W. Cross III, MD, Scott B. Marston, MD, Thomas F. Varecka, MD

Moderator: *Jonathan P. Braman, MD*

Using a case-based format, discussion focuses on shoulder, elbow, acetabular, hip, and knee fractures treated acutely with arthroplasty.

*Second Classification-Adult Reconstruction Hip

Wednesday, March 2

8:00 AM - 10:00 AM

210 **Fractures and Dislocations about the Elbow and their Adverse Sequelae: Contemporary Perspectives**


April D. Armstrong, MD, Ken Faber, MD, FRCSC, Michael D. McKee, MD

Moderator: *Graham J. W. King, MD*

Based upon clinical cases and surgical videos, this course addresses contemporary treatments and controversies regarding traumatic injuries about the elbow and their sequela.

*Second Classification-Shoulder and Elbow



Audience Response Session



Case Presentation course

Wednesday, March 2

10:30 AM - 12:30 PM

L

**Gun Shot and Explosive Wounds**

Carlo Bellabarba, MD, Oscar Calderón, MD,
Xavier A. Duralde, MD, Rami Mosheiff, MD,
Marcus F. Sciadimi, MD

Co-Moderators: James R. Ficke, MD,
Camilo Restrepo, MD

Will discuss the impact of high, intermediate and low velocity gun shot and other violent wounds as well as how to evaluate these patients, operative and non-operative treatments and rehabilitation. This symposium is a collaboration between AAOS and the 2016 Guest Nation of Colombia.

229

**Complex Proximal Tibia Fractures: Work Up, Surgical Approaches, and Definitive Treatment Options**

Nirmal C. Tejwani, MD, Brad J. Yoo, MD,
Bruce Ziran, MD, FACS

Moderator: Philip R. Wolinsky, MD

Discusses intra- and extra-articular proximal tibia fracture evaluation and management, including soft tissue injuries, surgical approaches, and reduction and fixation strategies.

Wednesday, March 2

1:30 PM - 3:30 PM

250

**Femur Fractures: Subtrochanteric to Supracondylar**

Paul Tornetta III, MD, Philip R. Wolinsky, MD

Moderator: Robert F. Ostrum, MD

Femoral shaft fractures are common injuries but still can have management issues. This course uses a short didactic session combined with case-based discussions on femoral shaft fractures, from the subtrochanteric to the supracondylar regions, to examine treatment options and methods to avoid complications in the treatment of these fractures.

251

**Making It Through the Night**

Robert P. Dunbar, MD, Samir Mehta, MD,
James P. Stannard, MD

Moderator: Lisa K. Cannada, MD

During this Instructional Course Lecture, the faculty discuss clinical situations necessitating urgent or emergent management by the on call orthopaedic surgeon. This is an interactive session with case-based scenario.

*Second Classification-General

Wednesday, March 2

4:00 PM - 6:00 PM

272

**Elements of Bundling Hip Fracture Care**

Stephen L. Kates, MD, Robert A. Probe, MD

Moderator: Simon Mears, MD

Will address the basics of bundling in different systems of medicine. We discuss how to develop relationships between diverse groups to allow the team to come together and work on a care plan. This process of change management must start with physician leadership and involve commitment from hospital administration.

*Second Classification-Adult Reconstruction Hip

288

**Techniques and Decision Making in Common Fractures: A Case-based Small Group Session**

Joshua L. Gary, MD, Daniel S. Horwitz, MD,
Clifford B. Jones, MD, FACS, Stephen Kottmeier, MD,
Samir Mehta, MD, Robert V. O'Toole, MD,
J. Spence Reid, MD, Judith Siegel, MD,
Heather A. Vallier, MD, Philip R. Wolinsky, MD

Moderator: Paul Tornetta III, MD

This course features case-based teaching with discussion and questions and answers for various trauma cases.

Thursday, March 3

8:00 AM - 10:00 AM

Q

**The Treatment of Periprosthetic Fractures in 2016: Can We Reach a Consensus?**

George J. Haidukewych, MD, Michael D. McKee, MD,
Aaron Nauth, MD, William M. Ricci, MD,
Andrew H. Schmidt, MD

Moderator: Emil H. Schemitsch, MD

Periprosthetic fractures are increasing in frequency and complexity as the number of patients with a joint replacement, and their activity levels post-surgery, steadily rise. The failure rate of operative intervention remains higher than that seen with other fractures and there remains significant room for improvement in the care of these injuries. A primary goal of the symposium is to achieve consensus opinions on many current issues and controversies regarding the treatment of periprosthetic fractures.

*Second Classification-Adult Reconstruction Hip

Thursday, March 3

1:30 PM - 3:30 PM

350

**Tips and Tricks for Problem Fractures**

Erik Kubiak, MD, Frank A. Liporace, MD,
Bruce Ziran, MD, FACS

Moderator: Daniel S. Horwitz, MD

Focus is on common fractures which present technical challenges to the practicing orthopaedic surgeon. It presents operative techniques, tips, and tricks to be applied to aid and simplify the surgical procedure and improve clinical outcomes.

351

**Talus and Calcaneus Fractures: Current Treatment**

Stephen K. Benirschke, MD, Reza Firoozabadi, MD,
John W. Munz, MD

Moderator: Mark Adams, MD

Reviews current concepts on management of complex fractures of the talus and calcaneus.

*Second Classification-Foot and Ankle



Technical Skills course



Webcast

Thursday, March 3

4:00 PM - 6:00 PM

388

**Pediatric Orthopaedic Trauma: Principles of Management**

James H. Beaty, MD, Alvin H. Crawford, MD, John M. Flynn, MD, William L. Hennrikus, MD, Andrew Howard, MD, Charles T. Mehlman, DO, MPH, Scott Mubarak, MD, Ken J. Noonan, MD, Susan A. Scherl, MD, David L. Skaggs, MD

Moderator: *Shital N. Parikh, MD*

Discusses the fundamentals of pediatric orthopaedic trauma management in general and for specific injuries, providing guidelines for management.

*Second Classification-Pediatrics

Friday, March 4

8:00 AM - 10:00 AM

412

**Open Fractures – Principles of Management**

L. Scott Levin, MD, FACS, Randall E. Marcus, MD, Charalampos Zalavras, MD

Moderator: *Michael J. Patzakis, MD*

Offers a comprehensive approach to the management of open fractures emphasizing principles and evidence-based practices. Areas covered include antibiotic therapy and prevention of infection. Debridement and wound management options are presented. Fracture stabilization guidelines and techniques are discussed. Promotion of fracture healing options are reviewed.

413

**Extreme Nailing: Tips and Tricks from the Experts**

Daniel S. Horwitz, MD, Joshua Langford, MD

Moderator: *George J. Haidukewych, MD*

Focuses on fractures commonly encountered by the practicing surgeon that can be challenging to nail. Subtrochanteric, distal femur, proximal tibia, and distal tibia are covered in a “how I do it?” video presentation followed by a “key points” slide presentation and discussion. Videos are intense.

Friday, March 4

10:30 AM - 12:30 PM

431

**Current Plating Techniques and Definitive Treatment Options for Fractures of the Tibial Plafond and Treatment of the Late and Failed Pilon**

Animesh Agarwal, MD, Samir Mehta, MD

Moderator: *Gilbert Ortega, MD, MPH*

Discusses staged treatment of tibial pilon fractures with an emphasis on modern plating techniques including standard and alternative operative approaches. It includes discussion on open treatment in combination with definitive external fixation and salvage of the late presentation and treatment failures.

*Second Classification-Foot and Ankle

432

**How Can I Get This Bone To Heal?**

Randall E. Marcus, MD, John K. Sontich, MD

Moderator: *Charalampos Zalavras, MD*

Provides a comprehensive overview of (a) early interventions aiming to prevent nonunions and (b) evaluation and management of established nonunions. This enables participants to optimize care of fracture patients and improve outcomes.

Friday, March 4

1:30 PM - 3:30 PM

EE

**Upper Extremity Trauma: How to Define and Expand Your Comfort Zone**

Neal C. Chen, MD, Niloofar Dehghan, MD, Douglas P. Hanel, MD, Jorge L. Orbay, MD, Scott P. Steinmann, MD, Tom F. Varecka, MD

Moderator: *David C. Ring, MD*

Experts in upper extremity trauma discuss the key pitfalls and the technical challenges that comprise expertise for fractures at specific regions in short didactic vignettes and case-based discussions. Surgeons can affirm what they are good at and the training and experience that would help them expand their expertise.

*Second Classification-Shoulder and Elbow

450

**Acetabular Fractures: A Problem-Oriented Approach**

Philip J. Kregor, MD, Mark C. Reilly, MD, Michael D. Stover, MD

Moderator: *Berton R. Moed, MD*

Using a case-based approach, the participant comes away with an improved understanding of the operative management of acetabular fractures occurring in combination with complicating factors.

485

**Challenges in the Management of Fractures in Adolescents: A Case-based Approach**

R. Dale Blasier, MD, Jaime Denning, MD, Craig Ebersson, MD, Howard R. Epps, MD, William L. Hennrikus, MD, Martin J. Herman, MD, Christine Ann Ho, MD, Bernard D. Horn, MD, Anthony I. Riccio, MD, Brian Scannell, MD

Moderator: *Susan A. Scherl, MD*

Case-based presentations on adolescent fracture patterns, including information regarding technique pearls, complications associated with treatment of the fracture in adolescents, and management of those complications, are discussed.

*Second Classification-Pediatrics

Friday, March 4

4:00 PM - 6:00 PM

467

**Management of Pelvic Fractures**

Keith A. Mayo, MD, Stephen H. Sims, MD

Moderator: *Michael D. Stover, MD*

Current standards of pelvic ring injury evaluation, acute management, decision making, surgical techniques, and complication avoidance are presented in depth.

*Second Classification-Adult Reconstruction Hip

468

**Lower Extremity Fracture Reduction: Tips, Tricks, and Techniques so that You Leave the OR Satisfied**

Christina L. Boulton, MD, Hassan R. Mir, MD, MBA, George V. Russell, Jr, MD

Moderator: *Michael T. Archdeacon, MD*

Provides the community fracture surgeon with reduction tools, tips, and tricks to facilitate lower extremity fracture reductions and subsequently improve patient outcomes.



Audience Response Session



Case Presentation course

Tumor and Metabolic Disease

Tuesday, March 1

1:30 PM - 3:30 PM

152 **Diagnosis and Management of Tumors of the Hand and Upper Extremity***Edward A. Athanasian, MD, Peter M. Murray, MD, Matthew R. Steensma, MD***Moderator:** *Peter J. L. Jebson, MD*

Course faculty present an overview of the most common benign and malignant tumors in the upper limb; and review the clinical and radiographic features, biopsy principles, and treatment options for each tumor type as well as the anticipated outcomes and recurrence rate following treatment. Indications for neoadjuvant and adjuvant therapy are reviewed.

*Second Classification-Hand and Wrist

Tuesday, March 1

4:00 PM - 6:00 PM

188 **How to Approach and Treat Metastatic Disease – Interactive and Case-based Discussion***Megan E. Anderson, MD, Patrick J. Boland, MD, Susan V. Bukata, MD, Ginger E. Holt, MD, Francis J. Hornicek, MD, Douglas Letson, MD, Bryan S. Moon, MD, Carol D. Morris, MD, MS, Peter S. Rose, MD, Kristy L. Weber, MD***Moderator:** *Valerae O. Lewis, MD*

It is crucial for the general orthopaedic surgeon to know how to effectively recognize and work up osseous metastatic (or presumptive metastatic) disease. As the survival for this patient population continues to improve, appropriate and durable fixation/management is imperative. Case scenarios and surgical, non-invasive, and minimally invasive treatment options are discussed.

Wednesday, March 2

8:00 AM - 10:00 AM

J **Soft Tissue Tumors: A Pictorial and Case-Based Guide to Diagnosis and Treatment***Timothy A. Damron, MD, Ginger E. Holt, MD, Adam S. Levin, MD, Carol D. Morris, MD, MS, Scott D. Weiner, MD***Moderator:** *Valerae O. Lewis, MD*

Reviews the diagnosis and management of soft tissue tumors through case-based presentations with an emphasis on imaging and clinical pictorial presentation. Participants develop an understanding of which tumors can be managed by the general orthopaedic surgeon and which tumors should be referred to an orthopaedic oncologist.

Wednesday, March 2

10:30 AM - 12:30 PM

230 **What's Wrong with the Bone?***Richard L. McGough, MD, Michael P. Mott, MD*
Moderator: *Kristy L. Weber, MD*

Provides an overview of common metabolic lesions, infection, and benign and malignant bone tumors occurring in children and adults. Imaging characteristics and the appropriate diagnostic workup are reviewed. A robust discussion and case-based format is used.

*Second Classification-General

Thursday, March 3

10:30 AM - 12:30 PM

331 **Sports Tumors – How to Manage Orthopaedic Conditions in the Setting of Common Benign Tumors***Joseph Benevenia, MD, G. Douglas Letson, MD, Adam S. Levin, MD***Moderator:** *Wakenda K. Tyler, MD, MPH*

Designed to help appreciate the appropriate recognition and workup of incidental masses noted on workup of common musculoskeletal complaints, as well as develop practical solutions for safe and effective care for these conditions.

*Second Classification-General

Thursday, March 3

1:30 PM - 3:30 PM

352 **Bone and Soft Tissue Tumors for the General Orthopaedic Surgeon: How to Diagnose, Manage, and Avoid Errors***Jonathan A. Forsberg, MD, Valerae O. Lewis, MD***Moderator:** *Carol D. Morris, MD, MS*

Reviews the most common bone and soft tissue tumors that present to the general orthopaedic surgeon or non-tumor orthopaedic subspecialist. Both adult and pediatric clinical scenarios are covered. We outline a strategy for working-up and triaging suspicious lesions including when to refer to a musculoskeletal oncologist. We also review the management of the asymptomatic incidentally discovered tumor in relation to the underlying relevant conditions. Common avoidable pitfalls and management errors are reviewed with a strong emphasis on case examples.



Technical Skills course



Webcast

 **Career Development Sessions** benefit everyone who would like to further refine or develop their presentation, research, education, teaching and Maintenance of Certification and marketing skills. These courses are free to registrants and a ticket is not required.

Tuesday, March 1 – Leadership

8:00 – 9:00 AM

CD1 Perspectives on Mentorship

Moderator: Steven L. Frick, MD

History, definition, and description of the mentoring process are presented, emphasizing the importance of good mentorship to career and personal satisfaction. Specific examples of successful and less successful approaches to mentoring are described.

9:30 – 10:30 AM

CD2 Principles of Orthopaedic Leadership: Local, Regional, National

Daniel J. Berry, MD, John L. Marsh, MD, Joseph D. Zuckerman, MD

Moderator: Aaron G. Rosenberg, FACS, MD

Designed to help you implement your leadership skills at the local, regional, and national levels. Specifics of successful leadership are discussed.

11:00 AM – 12:00 PM

CD3 Leadership 2.0: How to be a More Effective Leader

Daniel J. Berry, MD, John J. Callaghan, MD, David A. Halsey, MD

Moderator: Thomas K. Febring, MD

Understanding that leaders are developed not born, this course helps leaders of all levels cast a bold vision and equip their teams to achieve stated goals. Team building, mentoring, and inertia avoidance are discussed along with time management and strategies to maintain balance.

*Second Classification: Practice Management

1:30 – 2:30 PM

CD4 Getting Your Ideas Supported: Effective Techniques

Michael L. Parks, MD

Moderator: Mary I. O'Connor, MD

Understand the types of information people want to make decisions and learn how to use this knowledge to gain support for your proposals. Highlight techniques to achieve consensus, avoid unproductive conflicts, and enhance your leadership skills.

Tuesday, March 1 – Research and Education

3:00 – 4:00 PM

CD5 Lifelong Learning: Principles of Peer Education in Orthopaedics

L. Scott Levin, MD, William N. Levine, MD

Moderator: Evan Flatow, MD

Provides orthopaedic surgeons with tips to endeavor toward a life of learning and teaching.

4:30 – 5:30 PM

CD6 Collaboration Within and Between Institutions

Kurt P. Spindler, MD, Nikhil N. Verma, MD, Rick W. Wright, MD

Moderator: Brian R. Wolf, MD

Recognizing that successful collaboration among, within, and between institutions is an important factor, this course provides you with steps on how to create and cultivate those relationships.

Wednesday, March 2 – Research and Education

8:00 – 9:00 AM

CD7 How to Assemble a Competitive ICL, Symposium and Abstract Application

Joseph T. Moskal, MD, Javad Parvizi, MD, FRCS,

Alexander Vaccaro, MD, PhD

Co-Moderators: James R. Ficke, MD and Tad L. Gerlinger, MD

Focuses on describing the different types of Instructional Course Lectures (ICL) and offers tips on completing the application to present an ICL, Symposium and Abstract at the Annual Meeting.

9:30 – 10:30 AM

CD8 Preparation and Delivery of the Orthopaedic Lecture

James J. McCarthy, MD, Theodore W. Parsons, III, MD

David L. Skaggs, MD

Moderator: James H. Beaty, MD

Focuses on utilizing PowerPoint especially for the medical professional and developing a lecture for an orthopaedic audience. Learn tips and tricks you can use to enhance your teaching skills when participating in educational sessions for your colleagues and for patient education – both individually and community wide.

11:00 AM – 12:00 PM

CD9 Writing a Competitive Grant Application

John J. Callaghan, MD

Moderator: Kurt P. Spindler, MD

Grants can be competitive and non-competitive. This course provides helpful tips and examples on writing a competitive grant application.

1:30 – 2:30 PM

CD10 Cliff Notes on Clinical Research: What You Need to Get Started

Ryan P. Calfee, MD, Aaron Chamberlain, MD, Jay D. Keener, MD

Moderator: Leesa M. Galatz, MD

Understand the scientific method and be able to design and complete a clinical research project. Formulate a clinically relevant hypothesis, perform a power analysis, collect and analyze data. Determine when your results are worthy of abstract submission.

3:00 – 4:00 PM

CD11 Expert Pearls and Funding Strategies for Basic and Translational Research

Leesa M. Galatz, MD, Francis Young-In Lee, MD, PhD,

William M. Mihalco, MD, PhD

Moderator: Kristy L. Weber, MD

Discuss the benchmarks, or standards, in technique and practice in the study of basic science and translational research.

4:30 – 5:30 PM

CD12 Writing an Abstract that Gets Accepted

Stefano A. Bini, MD, Joaquin Sanchez-Sotelo, MD

Moderator: Guido Marra, MD

Understand the abstract submission and review process to increase the likelihood of acceptance. Learn how to write an abstract that is focused, concise, and clear so that your message is heard by reviewers.

Wednesday, March 2 – Research and Education

8:00 – 9:00 AM

CD13 Selection, Implementation, and Interpretation of Patient-Centered Orthopaedic Outcomes

Moderator: John Kuhn, MD

Covers model strategies for tool selection, implementation, and interpretation to optimize musculoskeletal patient care and practice sustainability.

9:30-10:30 AM

CD14 Statistics for Orthopaedists

Moderator: Mobit Bhandari, MD, PhD

Reviews and provides statistical methods that are useful in orthopaedic research.

11:00 AM – 12:00 PM**CD15 The Art and Science of Reviewing Manuscripts for Orthopaedic Journals***Moderator: William N. Levine, MD*

Journal editors help reviewers and authors learn how to craft more effective manuscripts by emphasizing specific assessment criteria for clinical, research, and review articles.

Thursday, March 3 – Maintenance of Certification**8:00 - 10:00 AM****CD16 Maintenance of Certification Do's and Don'ts and Case List Review: Preparation for your Recertification Exam***David F. Martin, MD, Ellen Moore, Terrance Peabody, MD**Moderator: Shepard Hurwitz, MD*

The American Board of Orthopaedic Surgery's Maintenance of Certification (MOC) process requires diplomates to pursue a series of educational activities throughout their career, in 10-year cycles, to maintain Board certification. Based on your preferences, the Academy's Learning Portfolio helps you track CME credits you have earned through Academy programs.

10:30-11:30 AM**CD17 Brushing Up On Your Test Taking Skills***Moderator: Joseph A. Bosco, III, MD*

Provides tips on getting organized, planning ahead, panic strategy, staying calm, and how to apply what you have learned when taking the test.

Thursday, March 3 – Teaching and Communication**8:00 – 9:00 AM****CD18 Shared Decision Making and Informed Consent: Understanding the Goals and the Responsibility of the Orthopaedic Surgeon***Kevin J. Bozic, MD, MBA, Hassan R. Mir, MD, MBA**Moderator: Paul Levin, MD*

Complicated clinical, cultural, and social presentations frequently create medical uncertainty. Understanding the core biomedical principles of patient care and shared decision making can successfully assist the physician in resolving personal conflicts in the care of these patients.

*Second Classification-Practice Management

9:30 - 10:30 AM**CD19 Video Production for Orthopaedic Surgeons: Getting the Award, Making the Difference***Shariff Bishai, DO, Rachel M. Frank, MD**Moderator: James M. Bennett, MD*

Video is one of orthopaedic education's most widely used instructional tools. This workshop teaches you how to critically evaluate the orthopaedic technique videos you watch, and how to create award-winning orthopaedic videos of your own.

11:00 AM -12:00 PM**CD20 Imagine Them Naked: Public Speaking and Teaching***Moderator: TBD*

If just the thought of public speaking makes you nervous, then picture audience members naked! This course provides helpful tips to help manage, and even prevent, anxiety when addressing the public or peers.

1:30 – 2:30 PM**CD21 Principles of Teaching Across Differences in Culture and Language***Stefano A. Bini, MD, Xavier A. Duralde, MD**Moderator: Guido Marra, MD*

Designed to help attendees implement three general principles for teaching those whose first languages is not English and/or have cultural norms and operating procedures that are significantly different from those in the United States.

3:00 – 4:00 PM**CD22 Dealing with the Underperforming Orthopaedic Resident***Elizabeth Ames, MD, April D. Armstrong, MD, R. Dale Blasier, MD**Moderator: John L. Marsh, MD*

Helps you design a plan as part of the educational process to foster success and target areas to deal with underperformance on a case-by-case basis. One size does not fit all!

4:30 – 5:30 PM**CD23 The Art of Teaching Orthopaedic Surgery***Joseph M. Sowards, MD, Brian C. Toolan, MD**Moderator: Kenneth A. Egol, MD*

Provides the learner with an assessment of barriers to the implementation of modern teaching strategies in orthopaedic residencies and discusses the historical and current models for training in the U.S. Presenters discuss metrics for evaluation and present methods to improve resident assessment.

4:30 – 5:30 PM**CD24 Cross Cultural Patient Communication***Moderator: Hassan R. Mir, MD, MBA*

Successful cross cultural patient communication is important. This course reviews words that should not be used and those words that work best, as well as offers ways to improve your non-verbal body language.

Friday, March 4 – Marketing**8:00 – 9:00 AM****CD25 Getting Your Work Published and Achieving the Highest Impact***Charles Clark, MD, Seth S. Leopold, MD, Gareth Scott, FRCS**Moderator: Fares S. Haddad, FRCS*

Offers a good understanding of the peer review process and its importance in scientific journals, provides key information on best practices and how to optimize papers for publication, and gives insight into how to review papers including a section on identifying research fraud.

9:30 – 10:30 AM**CD26 Social Media and Orthopaedics: Opportunities and Challenges***C. David Geier Jr, MD, Ira Kirschenbaum, MD,**J. Martin Leland III, MD,**Lance M. Silverman, MD**Moderator: Naven Duggal, MD*

Social media is an emerging modality that can be viewed as a chance to update our approach to interacting with patients, data, and each other in important new ways. However, careful attention regarding patient privacy, liability, and HIPPA violations is required by the orthopaedist interested in utilizing this technology. With mindful use of social media, we are able to leverage our positions as trusted community leaders to create and nurture a much larger community.

11:00 AM – 12:00 PM**CD27 Building Your Practice***Tony Edwards**Moderator: Bill Champion*

Lays out best practices in measurement, strategy, and execution to drive more of the right patient volume to your practice. It also provides some of the latest research in social media, advertising, interactive, and traditional marketing strategies specifically for orthopaedic providers.

TUESDAY, MARCH 1

8:00 AM – 10:00 AM				10:30 AM – 12:30 PM			
Symposium A-The Essentials for Creating Value in a Knee Arthroplasty Practice	Paper Presentation Adult Reconstruction Hip I	Paper Presentation Sports Medicine/ Arthroscopy I	Paper Presentation Trauma I	Paper Presentation Spine I	Symposium B-The Athletic Hip: From Impingement to Arthroplasty	Symposium C-Expanding the Role of Outpatient Surgery Centers to Include Total Joint Arthroplasty and Selective Spine Procedures	Paper Presentation Adult Reconstruction Knee I
10:30 AM – 12:30 PM			1:30 PM – 3:30 PM				
Paper Presentation Shoulder & Elbow I	Paper Presentation Pediatrics I	Paper Presentation Hand & Wrist I	Symposium D-What Keeps Me Awake at Night: Cervical Spine Surgery	Symposium E-Hot Topics and Controver- sies in Revision Total Hip Arthroplasty	Symposium F-Performance Measures: Clinical Quality – Medicare PQRS Pathways for Payment	Paper Presentation Global Perspectives Paper Session	Paper Presentation Trauma II
1:30 PM – 3:30 PM		4:00 PM – 6:00 PM					
Paper Presentation Tumor I	Paper Presentation Adult Reconstruction Knee II	Symposium G-Game Changers in Elbow Surgery: New Paradigms that Transformed My Practice	Paper Presentation Adult Reconstruction Hip II	Paper Presentation Practice Management I	Paper Presentation Trauma III	Paper Presentation Spine II	

WEDNESDAY, MARCH 2

8:00 AM – 10:00 AM						10:30 AM – 12:30 PM	
Symposium H-Sex and Sports: Caring for the Female Athlete in 2016	Symposium I-Debating Controversies in Spine Surgery	Symposium J-Soft Tissue Tumors: A Pictorial and Case-Based Guide to Diagnosis and Treatment	Paper Presentation Adult Reconstruction Knee III	Paper Presentation Pediatrics II	Paper Presentation Foot & Ankle I	Paper Presentation Hand & Wrist II	Symposium K-Foot and Ankle Surgery for the Sports Medicine Physician
10:30 AM – 12:30 PM						1:30 PM – 3:30 PM	
Symposium L-Gun Shot and Explosive Wounds	Symposium M-Controversies in Pediatric Sports Medicine: A Case-based Approach	Paper Presentation Shoulder & Elbow II	Paper Presentation Adult Reconstruction Knee IV	Paper Presentation Sports Medicine/ Arthroscopy II	Paper Presentation Practice Management II	Symposium N-Quality is in the Eye of the Beholder: What's Measured, What Matters, and How Do We Reconcile This?	Symposium O-Key Concepts of Musculoskeletal Infection
1:30 PM – 3:30 PM				4:00 PM – 6:00 PM			
Paper Presentation Shoulder & Elbow III	Paper Presentation Sports Medicine/ Arthroscopy III	Paper Presentation Trauma IV	Paper Presentation Foot & Ankle II	Paper Presentation Adult Reconstruction Hip III	Paper Presentation Sports Medicine/ Arthroscopy IV	Paper Presentation Trauma V	Paper Presentation Spine III

Adult Reconstruction, Hip and Knee

General

Practice Management

Sports Medicine/Arthroscopy

Basic Research

Hand and Wrist

Shoulder and Elbow

Trauma

Foot and Ankle

Pediatrics

Spine

Tumor and Metabolic Disease

THURSDAY, MARCH 3

8:00 AM – 10:00 AM

Symposium P-Challenges and Controversies in Total Hip Arthroplasty in 2016	Symposium Q-The Treatment of Periprosthetic Fractures in 2016: Can We Reach a Consensus?	Paper Presentation Adult Reconstruction Knee V	Paper Presentation Hand & Wrist III	Paper Presentation Spine IV	Paper Presentation Tumor II	Symposium R-Combined Multi-Ligament, Meniscus, and Cartilage Injuries of the Knee	Symposium S-Controversies in Geriatric Care in Orthopaedics
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10:30 AM – 12:30 PM

10:30 AM – 12:30 PM

Paper Presentation Shoulder & Elbow IV	Paper Presentation Trauma VI	Paper Presentation Spine V	Paper Presentation Adult Reconstruction Hip IV	Symposium T-Great Debates in Total Knee Arthroplasty	Symposium U-Computer Modeling and 3-D Printing in Upper Extremity Surgery	Symposium V-Controversies in Approaches to Anterior Shoulder Instability	Paper Presentation Adult Reconstruction Hip V
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1:30 PM – 3:30 PM

1:30 PM – 3:30 PM

Paper Presentation Sports Medicine/ Arthroscopy V	Paper Presentation Spine VI	Paper Presentation Pediatrics III	Symposium X-The Employed Orthopaedic Surgeon: Promises and Pitfalls	Symposium W-Challenges in Pediatric Trauma: What We All Need to Know	Paper Presentation Shoulder & Elbow V	Paper Presentation Adult Reconstruction Knee VI	Paper Presentation Trauma VII
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4:00 PM – 6:00 PM

FRIDAY, MARCH 4

8:00 AM – 10:00 AM

Symposium Y-Preoperative Optimization of Total Joint Arthroplasty Surgical Risk	Paper Presentation Adult Reconstruction Hip VI	Paper Presentation Sports Medicine/ Arthroscopy VI	Paper Presentation Spine VII	Paper Presentation Foot & Ankle III	Symposium AA-Outcomes Metrics Symposium for Total Joint Arthroplasty	Symposium CC-Residency Core Competencies	Symposium BB-Shoulder Arthroplasty: What to Do When Things Go Bad – Managing Complications
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10:30 AM – 12:30 PM

10:30 AM – 12:30 PM

Paper Presentation Adult Reconstruction Knee VII	Paper Presentation Sports Medicine/ Arthroscopy VII	Paper Presentation Foot & Ankle IV	Paper Presentation Pediatrics IV	Symposium DD-Annual Meeting Highlights	Symposium EE-Upper Extremity Trauma: How to Define and Expand Your Comfort Zone	Paper Presentation Game Changers Paper Session	Paper Presentation Adult Reconstruction Hip VII
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1:30 PM – 3:30 PM

1:30 PM – 3:30 PM

Paper Presentation Shoulder & Elbow VII	Paper Presentation Sports Medicine/ Arthroscopy VIII	Paper Presentation Practice Management III	Symposium FF-The Regulatory Process: How Do I Get My Invention into Patients	Paper Presentation Shoulder & Elbow VI	Paper Presentation Adult Reconstruction Knee VIII	Paper Presentation Adult Reconstruction Hip VIII
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4:00 PM – 6:00 PM

Orthopaedic Review Course: #490 Update for Your Practice and Preparation for Your Test

Friday, March 4

Hyatt Regency Orlando, Regency Ballroom R

Course Chairman: Jeffrey R. Sawyer, MD

This course is a review of current knowledge on diagnosis and management of clinical problems from a nationally accepted orthopaedic practice perspective. Major sections of the course are upper and lower extremities, metabolic bone disease, pediatrics, spine and tumors. Each section includes discussion of fractures, complications, infections, and trauma.

7:30 - 9:30 AM	Lower Extremity <i>Moderator: Donald A. Wiss, MD</i>	12:30-2:30 PM	Pediatrics <i>Moderator: William C. Warner Jr, MD</i>
7:30 AM	Hip and Knee Reconstruction <i>Matthew Austin, MD</i>	12:30 PM	Hip <i>William C. Warner Jr., MD</i>
8:00 AM	Trauma <i>Donald A. Wiss, MD</i>	1:00 PM	Infection, Congenital, Developmental Problems/Miscellaneous <i>Jeffrey R. Sawyer, MD</i>
8:30 AM	Foot and Ankle <i>Steven L. Haddad, MD</i>	1:30 PM	Fractures of the Upper and Lower Extremities <i>Amy L. McIntosh, MD</i>
9:00 AM	Sports Knee <i>Mark D. Miller, MD</i>	2:00 PM	Lower Extremity <i>Todd A. Milbrandt, MD</i>
9:30 - 9:45 AM	STRETCH BREAK	2:30-2:45 PM	STRETCH BREAK
9:45 - 11:45 AM	Upper Extremity/Metabolic <i>Moderator: Leesa M. Galatz, MD</i>	2:45-4:15 PM	Spine/Tumor <i>Moderator: Jens R. Chapman, MD</i>
9:45 AM	Hand and Wrist <i>Robert J. Strauch, MD</i>	2:45 PM	Pediatric <i>David L. Skaggs MD</i>
10:15 AM	Forearm and Elbow <i>Leesa M. Galatz, MD</i>	3:15 PM	Degenerative <i>Todd J. Albert, MD</i>
10:45 AM	Shoulder and Humerus <i>Jeffrey S. Abrams, MD</i>	3:45 PM	Trauma <i>Jens R. Chapman, MD</i>
11:15 AM	Metabolic Bone Disease <i>Joseph M. Lane MD</i>	4:15 PM	Tumors <i>Albert J. Aboulafia MD</i>
11:45 AM - 12:30 PM	LUNCH (box lunch included)	4:45 PM	Adjourn

Continental breakfast and a box lunch are included in the fee, which is \$300 in advance and \$400 on-site.

Attention U.S. Orthopaedic Residents! Discounted tickets are available for the Orthopaedic Review Course. Advance tickets are \$120 and tickets purchased on-site are \$160.

Nursing and Allied Health Courses

Rosen Center Hotel

CAST 1 & 2, Junior Ballroom G, NUR 1 - 4, Junior Ballroom F

AAOS, the National Association of Orthopaedic Nurses (NAON), and the National Association of Orthopaedic Technologists (NAOT) have collaborated to develop the Nursing and Allied Health Program. The program consists of six courses for registered and licensed practical nurses, physician assistants, orthopaedic technologists, and physical and occupational therapists. In addition, applications have been made to the orthopaedic technologists, physician assistants, and the American Nursing Credentialing Center to provide multiple types of contact hours for these courses.

To attend any of the Nursing and Allied Health courses, you need to register for the AAOS Annual Meeting and purchase a ticket for each course. Please see pages 56-57 for registration and course fees.

Please note registration is limited. No one is admitted without a name badge and ticket.

CAST1: Casting and Splinting Skills Workshop – FUNDAMENTALS

Tuesday, March 1, 8:15 AM - 5:45 PM (break 12:30 - 1:30 PM)

CAST2: Casting and Splinting Skills Workshop – ADVANCED

Wednesday, March 2, 8:15 AM - 5:45 PM (break 12:30 - 1:30 PM)

NUR1: Best Practices for the Patient Experience, Pain Management, and Hand Trauma

Thursday, March 3, 7:30 AM - 12:00 PM

NUR2: The Inter-Professional Team in Orthopaedic Trauma and Spine Pathology

Thursday, March 3, 1:30 - 6:00 PM

NUR3: Innovations in Care: New Approaches with Pelvic Fractures and Total Joint Patients

Friday, March 4, 7:30 AM - 12:00 PM

NUR4: Total Joint Outcomes and Specialty Orthopaedic Topics

Friday, March 4, 1:30 - 6:00 PM

Media Training

From Insights to Sound bites: *Your Orthopaedic Expertise and the News Media* #701

Wednesday, March 2, 8:00 AM – 12:00 PM, Room W303A

Feel more confident and learn to make the most of every media encounter and public presentation. Participants will gain an understanding of how the news media works. In this fast-paced, interactive session, you'll learn the keys to a successful interview and the ways to best present your most important information in any discussion, including how to:

- Create clear and unambiguous key messages and sound bites
- Take control of an interview
- Bridge from an irrelevant question to your message
- Speak clearly and use language friendly to your audience
- Use appropriate gestures and body language

This session is limited to 15 attendees and is offered complimentary on a first-come, first-served basis to active AAOS Fellows, Candidate Members, and Emeritus Fellows.

Resident Focused

Practice Management Course for Residents and Fellows-in-Training #191

Tuesday, March 1, 12:30 – 5:00 PM, See page 28.

Resident Assembly Open Forum

Wednesday, March 2, 6:30 – 7:30 AM, Room W308A

New this year, all residents are invited to attend an open forum to discuss proposed Actions to be brought before the Resident Assembly the following day. An Action is defined as an initiative/opportunity for residents or a stance taken on resident issues. At the open forum, residents will have the chance to present Actions they have sponsored and discuss Actions proposed by other residents and educational programs. This is an exciting opportunity for residents to make a difference in the AAOS.

Forum for Young Orthopaedic Surgeons with the American Board of Orthopaedic Surgery

Thursday, March 3, 10:30 AM - 12:30 PM, Room W308A

This free annual forum provides senior residents and new practitioners a unique opportunity to meet informally with Executive Director Shepard Hurwitz, MD, of the American Board of Orthopaedic Surgery (ABOS). He provides you with insightful information about Board requirements and procedures. This special program is a “must attend,” as it answers your questions about this important step in your career. If you are looking at ABOS Part 1 or Part 2 of the exam in the near future, you should not miss this forum.

Resident Assembly

Thursday, March 3, 1:30 – 3:30 PM, Room W308A

All residents are invited to attend the AAOS Resident Assembly. The primary purpose of the Resident Assembly is to serve as an advisory body to the AAOS on issues of importance to orthopaedic residents. This is your opportunity to make a contribution to AAOS and toward your own professional advancement. Join a committee or become a delegate, and let your voice be heard!

The Resident Bowl

Thursday, March 3, 4:00 – 6:00 PM, Room W224

The Resident Bowl is a new opportunity for residents to compete against one another in a game-style setting. Residents will compete in teams in a bar-trivia format for grand and runner-up prizes. Registration for the Annual Meeting is required for this event, apply to participate by January 21 at www.aaos.org/residents.

All residents are encouraged to attend and cheer for their colleagues!

Poster Awards and Breakfast in the Posters

Friday, March 4, 7:00 AM, Academy Hall WC

Join us for a free continental breakfast and the Poster Awards Ceremony. The winning poster in each classification is presented with an award; an overall winner is also selected. If you are unable to join us for breakfast, look for the yellow ribbons for classification winners and the blue ribbon for the overall winner. Winners are selected from the top rated abstracts in each classification.

Saturday, March 5, Orange County Convention Center, West Building

Specialty Day is a day set aside for scientific programs presented by organizations that are members of the Board of Specialty Societies (BOS). Those organizations include:



American Orthopaedic Foot & Ankle Society
Room W224
7:00 AM – 5:20 PM



The Hip Society/American Association of Hip and Knee Surgeons
Valencia Room A
8:00 AM – 5:37 PM



American Orthopaedic Society for Sports Medicine
Chapin Theater
7:35 AM – 5:00 PM



The Knee Society/American Association of Hip and Knee Surgeons
Valencia Room B
8:00 AM – 5:00 PM



American Shoulder and Elbow Surgeons
Room W311
7:25 AM – 4:35 PM



Limb Lengthening and Reconstruction Society
Room W308A
8:00 AM – 4:15 PM



**American Society for Surgery of the Hand/
American Association for Hand Surgery**
Room W304A
7:30 AM – 5:15 PM



Musculoskeletal Tumor Society
Room W314
8:00 AM – 4:00 PM



Arthroscopy Association of North America
Valencia Room D
7:50 AM – 5:15 PM



Orthopaedic Trauma Association
Room W414
7:30 AM – 5:00 PM



Federation of Spine Associations

- American Spinal Injury Association
- Cervical Spine Research Society
- North American Spine Society
- Scoliosis Research Society

Room W304E
8:00 AM – 5:00 PM



Pediatric Orthopaedic Society of North America
Room W315
8:00 AM – 4:15 PM

Each society has its own educational program within the Specialty Day program. The Specialty Day Preliminary Program can be found in your Preliminary Program packet or on the Annual Meeting page of the Academy's website. Individual programs note times, titles, and faculty. Most programs offer CME as well.

Collaborating in the Science of Patient Care



Sunday, March 6
ORS 2016 Annual Meeting
Disney's Coronado Springs Resort

The ORS invites AAOS registrants interested in collaborating in the science of patient care to attend the ORS Annual Meeting on Sunday, March 6, when we will provide the opportunity for you to attend the meeting at no charge.

Complimentary Programs:

- Paper Presentations – 8:00 – 9:00 AM, 11:15 AM – 12:15 PM, 2:15 – 3:15 PM
- Scientific Posters – 9:00 AM – 6:30 PM
- 2016 Kappa Delta, OREF Clinical Research and CORR® ORS Richard A. Brand Award paper presentations – 3:30 – 5:00 PM
- ORS Clinical Research Forum: The Basis for Clinical Decision Making in Orthopaedics – 12:00 – 4:15 PM
- Professional Advancement Session: Healthcare Economics in Orthopaedics - What You Need to Know *Organized by the ORS Corporate Affairs Committee* – 9:30 – 11:00 AM

Scientific Workshops - 9:30 – 11:00 AM:

- Building Better Bone: The Weaving of Biologic and Engineering Strategies for Managing Bone Loss
Collaboration of the ORS and OTA
Organizers: Jaimo Ahn, MD, PhD and Mara L. Schenker, MD
- Strategies to Improve Total Knee Arthroplasty
Collaboration of the ORS and Knee Society
Thomas P. Vail, MD and Kevin L. Garvin, MD
- How to Accelerate Basic Discoveries to Patient Benefit
Organizers: Jeffrey C. Lotz, PhD and Vijay K. Goel, PhD

Registration and course fee is required for the following program:

ORS/OREF Basic Science Course

Richard L. Lieber, PhD, Marjolein C. van der Meulen, PhD, Theodore Miclau, MD

Part II: Sunday, March 6, 8:00 – 11:30 AM

Registration: www.ors.org/ors2016aaos

HOW TO REGISTER:

There is no fee to register for the ORS Annual Meeting on Sunday, March 6. A sticker (to be placed on your badge) is required for access to the ORS Annual Meeting on Sunday, March 6. The sticker can be obtained at ORS satellite check-in located at Orange County Convention Center, West Building, Academy Hall WC on Friday, March 5 or at the ORS Registration Desk at the Disney's Coronado Springs Resort on Sunday, March 6.

See you in Orlando!

Technical Exhibits

Wednesday and Thursday, March 2 and 3, 9:00 AM - 5:00 PM
Friday, March 4, 9:00 AM - 4:00 PM
Halls WA-WB

The Technical Exhibits provide you the opportunity to:

- View and discuss the most current technologies.
- Evaluate products and services first-hand.
- Attend product demonstrations.
- Plan your purchases of products and services.

Visiting the Technical Exhibits assists you in providing a higher level of care to your patients and effectively managing your practice. Over 575 companies are displaying their products and services, including implants, bone and tissue products, computer software, surgical equipment and instruments, as well as publishers, and numerous other products and services relative to the specialty of orthopaedics. View companies and/or products on display at www.aaos.org/exhibits.

Unopposed Exhibit Time

One hour of unopposed exhibit time is provided each exhibit day from 12:30 - 1:30 PM.

Beverage Breaks

Complimentary beverages are available in the Exhibit Hall on Wednesday and Thursday at 3:30 PM and on Friday at 10:00 AM and 2:30 PM.

Ask an Expert – It's Free!

Here's an interactive opportunity for you to present a perplexing case to an expert in orthopaedics. We invite you to present your HIPAA compliant, perplexing case challenges to an expert in orthopaedics for diagnosis and recommendation. Audience participation is encouraged to complement the exchange of ideas. Details regarding the session schedule, location, and instructions are available in November on the AAOS website at www.aaos.org/exhibits.

Electronic Skills Pavilion – It's Free!

Plan to attend these presentations that showcase current technology, products, and applications beneficial to orthopaedic surgeons and their staff. Visit the AAOS website in November at www.aaos.org/exhibits for a complete listing of events.

Redemption Centers

All medical attendees receive coupons for a complimentary tote bag and t-shirt that can only be redeemed at these centers located in the Exhibit Hall. In addition, on Thursday and Friday, coupons are collected for drawings for complimentary items. Be sure to participate.

Admission

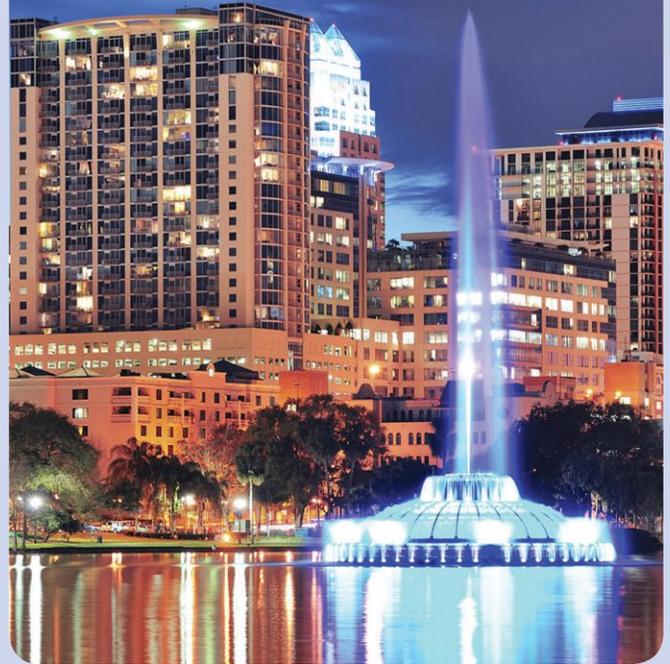
Admission to the Exhibit Hall is by badge only. Individuals under the age of 16 are not permitted in the Exhibit Hall.

Badges

Badges include a bar code programmed with the attendee's name and address. Attendees can present their badge to exhibitors to request information about products and services.

Social Program Tours

To register for AAOS Social Program tours, visit www.aaos.org/tours



Orlando, also known as The City Beautiful and home to Walt Disney World, is a perfect place to make all of your dreams come true! With an exciting mix of legendary theme parks with epic rides, topnotch entertainment and arts, spectacular shopping, exceptional attractions, and incredible scenery, you are bound to have a magical experience!

From cultural experiences to outdoor adventures and family restaurants to world-class golf courses, you are sure to make memories that will last a lifetime.

Please join us on the journey.

The Social Program is not an Annual Meeting registration and will not provide a name badge. For access to Academy Hall, the Ceremonial Meeting (Guest Speaker), Opening Ceremony, or Technical Exhibits please see the Family Badge Policy on page 57.

AAOS Welcomes Colombia as Guest Nation



Help us welcome Colombia as the Guest Nation for the AAOS 2016 Annual Meeting. Look for special events and activities including a collaborative symposium, “*Gun Shot and Explosive Wounds*” that will be held on March 2, special poster tours given in Spanish, ten featured Posters from Colombia and remarks by the President of the Sociedad Colombiana de Cirugía Ortopédica y Traumatología (SCCOT) during the Opening Ceremony. Please stop by the Guest Nation exhibit, located in Academy Hall WC, to learn more. Inaugurated in 2005, the AAOS Guest Nation program was established to foster greater recognition and awareness of the contributions made to the practice of orthopaedics from the many nations of the world, and to further enhance the robust international flavor and excitement of the AAOS Annual Meeting.

AAOS Safe and Accessible Playground Build

Tuesday, March 1

Join us for an experience you will long remember! Be a part of the 2016 AAOS Safe and Accessible Playground Build. Give the gift of a playground to a deserving community in Orlando where children with and without disabilities can play safely together. Register as a build volunteer – join us for a few hours or all day!

Download the playground sponsor and volunteer registration forms online at aaos.org/playground, or contact Kayee Ip by phone at (847)384-4035 or email ip@aaos.org with build-related questions. All volunteers receive detailed information prior to the event. We look forward to seeing you there!

AAOS Resource Center

Academy Hall WC

Experience a hands-on showcase of Academy education, practice and membership resources and benefits. Knowledgeable AAOS staff are on hand to assist you with educational resource selection, learning solutions, app navigation, and demonstrations of the many publications, e-books, digital media, subscriptions, and interactive programs that build your clinical skills and challenge your problem-solving aptitude. Plan to visit the Resource Center and experience the future of surgical skills training with virtual reality arthroscopy simulation.

This is your once-a-year opportunity to explore hands-on, the complete line of Academy educational and practice management resources. Consult with informative AAOS staff to get answers to your AAOS Membership benefits questions, coding hurdles, MOC concerns, and educational pursuits.

Instructional Course handouts are available for purchase in the Resource Center.

AAOS Exhibit Hall Resource Center

Hall WA, Booth 1933

For your convenience, when you are in the Exhibit Hall, visit the AAOS Exhibit Hall Resource Center located in Publishers’ Row.

Hours	Resource Center	Exhibit Hall Booth
Tuesday	7:00 AM – 6:00 PM	
Wednesday – Thursday	7:00 AM – 6:00 PM	9:00 AM – 5:00 PM
Friday	7:00 AM – 6:00 PM	9:00 AM – 4:00 PM
Saturday	7:00 AM – 3:00 PM	

My Academy App

The Annual Meeting My Academy App is available free from the App Store or Google Play in January. View, search, and schedule all educational opportunities, Technical Exhibitor information, Social Program, Committee and Affiliate Meetings, and Special Events. You may even add personal events to your schedule to help you stay organized and make the most of your time at the Annual Meeting. A mapping program for meeting room location and exhibiting companies within the Orange County Convention Center also is included. You also may browse or search the list of participants and use the messaging feature within the app to help you connect or reconnect with colleagues. Need some assistance? Visit the help desk located in the Resource Center.

AAOS Career Center

Academy Hall WC

The Career Center at the Annual Meeting offers the opportunity for employers and candidates of orthopaedic surgery positions to meet in person.

Tuesday – Friday7:00 AM – 6:00 PM
 Saturday7:00 AM – 3:00 PM

Participants

The Career Center has been established for the benefit of the Academy membership. In addition, hospital or practice administrators and medical staff personnel are permitted to access the Career Center.

- All participants must have an active listing on the website www.aaos.org/careercenter.
- Due to space limitations, we ask that you limit attendance to two representatives per company.
- All participants MUST register as an attendee to the Annual Meeting to gain entry to the Career Center. Advanced registration fee is \$150 per person. On-site registration fee is \$250 per person.

Professional recruiters are not allowed to participate in this service.

Listings on the Career Center Website

You can submit a new listing for an employment opportunity for a fee. There is no fee to orthopaedic surgeons looking for employment. Listings can be submitted or edited directly on the AAOS website: www.aaos.org/careercenter. We encourage you to submit new listings prior to attending the meeting.

Bulletin Boards

An active listing on the website is required to post your ad on the bulletin boards. Only orthopaedic surgery opportunities may be posted. Posted items should NOT exceed 8.5” x 11”.

Due to space limitations, only one ad per practice is allowed.

Interview Booths

The Career Center may be used to conduct on site interviews. Private interview space may be reserved on site at the Career Center. Booths are not intended to be used as exhibit space nor may they be occupied by a candidate or employer for an extended period of time. For further information on the Career Center, contact us at (800) 346-2267, ext 4259 or via email: careercenter@aaos.org

Attire

Professional attire is appropriate at the meeting and to visit the exhibit area. Some restaurants require coats and ties for gentleman, but most welcome casual attire. Check each restaurant's policy when making reservations.

Currency Exchange

Exchanging foreign currency or cashing traveler's checks (foreign or domestic) can be done at several locations throughout the city. Please check with your hotel concierge for the location nearest you.

Entertainment

Orlando has something for everyone. From the Magic Kingdom to magical spa treatments, Orlando is brimming with adventure. Spend your day riding roller coasters, exploring the world-famous Disney theme parks, swimming with the dolphins at SeaWorld or enjoying the quiet natural beauty of the Harry P. Leu Gardens. Spend your evenings at one of Orlando's many restaurants. From James Beard-nominated restaurants to American to Japanese, Orlando restaurants and dining options offer something that will satisfy all palettes.

International Travelers

Some participants from outside the United States need to apply for a visa at the American embassy, consulate, or other visa-issuing office in their country of origin. To obtain a visa, you may need a letter of invitation. To request an invitation letter please go to www.aaos.org/invite. We cannot send letters directly to the embassy or consulate on your behalf.

Shopping

Shopping in Orlando is truly world class, with every kind of retail outlet from flea markets to designer-label malls. Discount outlet shopping plazas are particularly common in Orlando.

Non-Smoking Policy

In Florida, it is illegal to smoke indoors and in spaces open to the public.

Weather

The average temperature in the Orlando area in March is 65 degrees Fahrenheit, with an average high of 79 and an average low of 56. Pack an umbrella for the possibility of showers during your visit.

Annual Meeting Policies

Attendee Conduct

- Selling and/or marketing activities are reserved exclusively for registered exhibitors and can only be conducted from an exhibit booth space.
- Annual Meeting attendees that plan to sell and/or market products at the Annual Meeting can only do so from an exhibit booth in the Technical Exhibit Hall. To secure a paid exhibit booth space, visit www.aaos.org/exhibits for information.
- At the sole discretion of AAOS, attendees found in violation of this requirement may be escorted from the meeting and have all meeting privileges revoked without refund of fees paid.

Image Capture

Attendees grant AAOS (and its employees and agents) permission to capture, retain, and utilize the attendees' image, likeness, voice, and actions, whether captured live or recorded and in any format, during the Annual Meeting, for display, exhibition, publication, or reproduction in any medium or context for any purpose, including, but not limited to, commercial or promotional purposes, without further notice, authorization, or compensation.

Privacy Policy – Use of Personal Information

Annual Meeting registration lists, including the medical registrant's name, postal mailing address, and phone number, are available for sale to exhibitors in advance of and after the Annual Meeting. In addition, certain personal information, including the medical registrant's name, postal mailing address, phone number, hospital affiliation, and practice focus, is available at the Annual Meeting to exhibitors through a "lead retrieval system" mechanism. For additional information, please refer to the entire AAOS Privacy Policy by visiting www.aaos.org/privacy.

Private Meeting

The AAOS 2016 Annual Meeting is a private meeting. The AAOS reserves the right to control space and ask people to leave the meeting who are not qualified to attend or who cause disruptions, at AAOS' sole discretion.

Registration of Children Restricted

The following guidelines have been approved for the Annual Meeting. Only children 16 or over will be admitted to the educational programs, including the exhibit hall.

Children and individuals of any age, providing they are not disruptive to the meeting, are welcome in the following activities:

- Opening Ceremony
- Posters
- Scientific Exhibits

Children under the age of 16 are not permitted in the following areas of the meeting:

- Technical Exhibit Hall
- Educational Sessions (paper presentations, symposia, instructional courses)
- Business Meetings
- Ceremonial Meeting
- Guest Speaker Presentation

The Academy does provide a Social Program which is open to all spouse, family members and guests accompanying members and attendees to the meeting. Tours and events are offered daily during the meeting.

Reproduction Policy

The Academy reserves any and all of its rights to materials presented at the Annual Meeting, including Posters and Scientific Exhibits. Reproductions of any kind, by any person or entity, without prior written permission from the Academy, are strictly prohibited. Prohibited reproductions include, but are not limited to, audiotapes, videotape, and/or still photography. Persons violating this policy may have their badge confiscated and be escorted from the meeting. No unapproved surveys, handouts, or literature may be distributed at the meeting.

Information - Preliminary Program Packet

Detailed information, including a registration form, AAOS Preliminary Program, and Specialty Day Preliminary Program, is available in the Preliminary Program packet. To receive your Preliminary Program packet (allow two weeks for delivery), you may:

- Visit Request for Information at www.aaos.org/amrequest.
- Mail or Fax your request to AAOS, 9400 West Higgins Road, Rosemont, IL 60018, fax (847)823-8031. Be sure to include a complete name, title, mailing address, phone number, and email address.
- Call AAOS at (847)384-4190.
- All AAOS Members automatically receive a packet in early November 2015.

How To Register

There are several options available to register for the Annual Meeting. Your registration form is included in the Preliminary Program packet only.

- FAX: (847)823-7520.
- MAIL: AAOS, 9400 West Higgins Road, Rosemont, IL 60018
- REGISTER ONLINE: To login to the AAOS Online Registration system, go to www.aaos.org/register.

If you need assistance with your Username or Password, please contact meeting@aaos.org.

Your registration DOES NOT CONFIRM A HOTEL ROOM. An official housing form is at the back of this Preliminary Program. Hotel reservations are available online at www.aaos.org/housing.



At the Meeting

Advance Registered

All attendees who have registered in advance must stop at the Advance Registration Check-In counters to receive your badge holder, confirm attendance, and to become eligible for CME Credit.

- **U.S. and Canadian registrants** will be mailed their Check-In Ticket, name badge, and course tickets if registered and paid in full by January 21.
 - This is your official Annual Meeting badge; please bring it with you to the meeting.
 - If you do not receive this mailing prior to leaving for the meeting, please bring a copy of your registration confirmation.
- **International registrants** receive an email approximately two weeks prior to the meeting to use for check-in. You also may bring your registration confirmation for check-in.

DEADLINES

ADVANCE REGISTRATION DEADLINE: January 21, 2016

Advance registration forms with payment must be received by January 21, 2016. Registrations received after this date are returned to sender.

Registration is unavailable January 22 - 24, 2016

Beginning Monday, January 25 through Sunday, February 28, online registration is available. On-site registration and ticket fees apply to non-members. AAOS Members pay on-site ticket prices.

Registration Changes

Changes to your registration can be made until **January 25, 2016**. After this date, all course ticket exchanges take place on-site and are charged the on-site course fee.

Registration Cancels

To cancel your entire registration or selected courses, a written request for a refund must be received in the Academy office by **January 25, 2016**. No refunds are issued after this date.

Requirements for Changes and Cancels

- All refund or change requests are to be received in the Academy office by the dates above.
- If you have received your badge and ticket packet, **this packet must be returned to the Academy offices before a refund is processed.**
- There are no refunds available at the meeting.

Contact Information

You may submit your cancel or change request via email to amcancels@aaos.org; by fax at (847)823-8031; or by mail to AAOS, 9400 West Higgins Road, Rosemont, IL 60018-4976.

On-site Registration

Member and non-member on-site registration is available at the Orange County Convention Center, West Building, Academy Hall WC. Proof of your credentials may be required. For registration hours, please see the What, When, and Where section at the front of this program.

Be sure to check-in when you arrive.

You will be required to provide identification.

Check-in location available during on-site registration hours:

- Orange County Convention Center, West Building, Academy Hall WC

Satellite Check-in is available on Monday, February 29 and Tuesday, March 1 at these locations:

- Hyatt Regency Orlando (formally Peabody)
- Rosen Centre Hotel
- Rosen Plaza Hotel
- Rosen Shingle Creek

Registration Fees

The AAOS 2016 Annual Meeting is a private meeting. Attendance must be approved.

- You will be required to provide proof of your credentials.
- There are no provisions for daily or partial registration during the AAOS Annual Meeting.

Category	Advance Oct 21 through Jan 21	Late Advance Jan 25 through Feb 28	On-Site Feb 29 through Mar 5
AAOS Member Members in good standing including AAOS Fellows, Candidate, Resident, Associate, and International Members.	\$0	\$0	\$150
International Resident Member Membership dues must be paid in full before December 1, 2015 to qualify for the 2016 Annual Meeting fees.	\$100	\$100	\$150
Annual Meeting Official Speaker - Determined by AAOS	No Fee	No Fee	No Fee
Annual Meeting Official Co-Author - Determined by AAOS	\$100	\$150	\$150
U.S. Non-Member Physician Non-member physicians practicing in the U.S.	\$800	\$1,000	\$1,000
International Non-Member Medical Attendee Includes all international non-member orthopaedic surgeons, allied health (ie: nurses, physical therapists), and other medical attendees. This category is for medical attendees only.	\$600	\$800	\$800
International Non-Member Resident Approval Required. Only orthopaedic fellowships or residency programs qualify. Letter from Chief of Service and copy of passport must be received prior to January 21, 2016. This category is not available after January 21 or at the meeting.	\$450	\$600	\$600
U.S. Fellow In-training, U.S. Resident In-training Approval Required. Only orthopaedic fellowships or residency programs qualify. Letter from Chief of Service must be received prior to January 21, 2016. This category is not available after January 21 or at the meeting.	\$100	\$150	\$150
U.S. Allied Health Approval Required. This category is limited to medical professionals directly employed by a hospital, healthcare network, university, or freestanding facility administering to patients. (ie: RN, OPA, PA, OTC, ATC, PT)	\$150	\$250	\$250
U.S. Medical/Office Professional Approval Required. This category is limited to Office Staff, Medical Staff, and Medical Students.	\$150	\$250	\$250
U.S. Career Center Approved Participant Approval Required. This category is limited to non-members/non-physicians participating in the Career Center who have a current listing.	\$150	\$250	\$250
Industry Non-Exhibitor This category requires approval by AAOS and only provides access to the Technical Exhibits. It includes Equipment Distributors/Manufacturers, Financial Analysts, Health Care Consultants, Investment Broker/Bankers, and potential Exhibitors. There are no provisions for daily or partial registration during the AAOS Annual Meeting. For more information please go to www.aaos.org/exhibitors .	\$1,400	\$1,600	\$2,500

Exhibitor

Individuals employed by an exhibiting company will be registered through their company. The exhibitor's badge allows admittance to the exhibit halls, and on a space available basis to the scientific exhibits, posters, general sessions, symposia, and paper presentations. If available, instructional course tickets may be purchased on-site on the day of the course.

When registering online, please verify that your registration fee is correct before submitting payment. For questions regarding your registration category or to submit documentation, please email meeting@aaos.org.

Instructional Course Fees

To attend the Instructional Courses, all participants must register for the Annual Meeting and Instructional Courses. The fees are as follows:

Course	Advance	Late
	Oct 21 through Jan 21	On-Site Jan 25 through Mar 4
2-hour Course	\$50	\$70
U.S. Orthopaedic Resident	\$25	\$25
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2-hour Case Presentations	\$75	\$95
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3-hour Course	\$60	\$80
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290 & 291 – Effective Surgeon-Patient Communication	\$60	\$80
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390 & 391 – TeamSTEPPS	\$60	\$80
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Orthopaedic Review Course Physician	\$300	\$400
U.S. Orthopaedic Resident	\$120	\$160
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Practice Management Course for Residents and Fellows-in-Training (#191)	\$50	\$50
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Practice Management Seminar for Practicing Orthopaedic Surgeons (#199)	\$300	\$400
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Nursing Courses NUR 1-4	\$120	\$145
<hr/>		
Casting Fundamentals Course (Allied Health Only) – CAST1	\$180	\$220
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Casting Advanced Course (Allied Health Only) – CAST2	\$180	\$220

Family Badges

Family badges will be available in Academy Hall to non-medical spouses or immediate family on-site during registration hours. In order to receive a family badge, you must be accompanied by a registered attendee. There is a limit of 2 family badges per registered attendee.

Family Badge attendees cannot purchase Instructional Course tickets and no CME credits or verification of attendance will be issued.

Co-workers or those associated within the Orthopaedic industry do not qualify for a Family Badge. These individuals must register in the appropriate professional or exhibitor category.

For registration of children, please refer to Annual Meeting Policies.

2016 Annual Meeting Objectives

Global Objectives

- Develop and refine a perspective on the broad range of orthopaedic knowledge, care and surgical practice.
- Expand and integrate an understanding of the scientific and clinical tenets of orthopaedic surgery to better prevent and treat musculoskeletal disease.
- Develop an understanding of economic and practice management challenges that can lead to strategies that protect continued access to care for patients and viability of the profession.
- Provide a forum to strengthen professional relationships and develop networks that lead to better patient care, individual surgeon career satisfaction, and a more robust profession as a whole.

Instructional Objectives

- To facilitate a personalized educational experience through a comprehensive offering of instructional courses, symposia, and scientific presentations.
- Support a forum for discussion of current issues in orthopaedics including patient safety, advocacy, practice management, technology, and culturally competent care.
- Offer complementing formats to facilitate career-long education that meets the expectations of patients, colleagues and Maintenance of Certification.
- To provide a forum for the presentation of basic and clinical research with current as well as future potential applications in the management of patients with musculoskeletal disease or injury.

Learner Objectives

- Synthesize a basis for the practice of delivering evidence based, cost effective orthopaedic care.
- Integrate current basic science, translational research, and state-of-the art procedures and technology into clinical practice.
- Become more informed and involved in advocacy issues related to orthopaedics.
- To provide a forum for resident education on current clinical practice, relevant basic science, practice management, and advocacy issues in preparation for careers as competent and ethical orthopaedic surgeons.

AAOS Website Shortcuts

Annual Meeting Webpage

www.aaos.org/annual

Registration (login required)

www.aaos.org/register

Housing

www.aaos.org/housing

Education – including Specialty Day

www.aaos.org/ameducation

Exhibit Information

www.aaos.org/exhibits

Social Program Tours

www.aaos.org/tours

Hotel Reservations

The hotel location map is on page 61, with descriptions and rates on pages 59-60. AAOS rates are available only through the AAOS housing bureau, Wyndham Jade.

Hotels closest (within walking distance) to the Orange County Convention Center (OCCC) are expected to fill quickly and do not have shuttle service to the OCCC, so consider this when you make your reservations. The AAOS hotel shuttle is not available from the Hyatt Orlando, Rosen Centre, and Rosen Plaza hotels, which are located within walking distance of the OCCC.

Reservations are made on a first come; first served basis. Physician attendees may not obtain housing through technical exhibitors.

- Internet** Housing is available on the AAOS website at www.aaos.org/housing
- Phone** (800)931-6026 US and Canada
(972)349-5558 International
- Hours** 8:00 AM - 5:00 PM Central Time
- By Fax** (972)349-7715 US, Canada, and International

Reservation Changes/Cancellations

(BEFORE Arrival)

Hotel reservation confirmation, changes, or cancellations can be made with Wyndham Jade until February 9 and directly with the hotel starting February 16.

(AFTER Arrival)

On-site housing issues can be addressed at the AAOS Housing Desk located at the OCCC starting Monday at 2:00 PM.

Avoid Room Cancellations & Lost Deposits

- Write down the **full hotel name**.
- Confirm your **arrival date** and **departure date**.
- Print a copy of your reservation confirmation.
- Call Wyndham Jade at (800)931-6026 to confirm, cancel, or change your reservation.

ADA Needs

Orlando has ADA accessible guestrooms at every hotel. Please specify your needs when making your reservations.

Airlines

Call CorpTrav at (800)318-3846 or go to <http://corptravelonline.com> to make your reservation online. A per reservation service fee of \$15 (online) and \$32 (telephone) is charged.

Airport

Orlando International Airport (MCO) is located nine miles southeast of downtown Orlando.

Ground Transportation

- The Airport Super Shuttle is the most economical way to get to your hotel. Rates are \$18 one-way and \$32 roundtrip. To make a reservation at www.supershuttle.com or call (800)258-3826. Use Group Code: BFZJC to receive the AAOS discounted rate.
- **Hotel Shuttles** run between the hotels and the OCCC starting Tuesday, March 1, at 6:30 AM through Saturday, March 5, at 6:00 PM.
- **Parking** is abundant in Orlando. The fee for parking at the OCCC is \$15 per car.

- **Public Transportation** - Lynx is Orlando's public bus network, which makes scheduled stops at area hotels and attractions. The buses depart from the airport every 30 minutes for the city center and International Drive. Please visit <http://www.golynx.com/> or call (407)841-2279 for more details.
- **Rental Car** reservations can be made via the AAOS registration website, Wyndham Jade, your travel agent, or directly with rental car companies. AAOS has negotiated special rates for rental cars during the meeting. Call the number below and mention the discount code listed.

Car Company	Meeting Code	Phone	Internet
Hertz	CV# 02KS0020	(800)654-2240	www.hertz.com
Avis	AWD# J095822	(800)331-1600	www.avis.com

- **Taxi Service** from the airport costs \$35-\$50 (one-way) according to the location of your hotel. All taxicabs picking up at the airport are regulated by the City of Orlando's Vehicle-for-Hire ordinance which requires fares to be determined by a taximeter.

Housing Policies

Confirmations

A confirmation is emailed within 72 hours (if not immediately) of making a reservation. If you do not have an email address, the confirmation is mailed to the address provided. If you do not receive a confirmation within three business days, contact the Housing Bureau at aaos@wyndhamjade.com or (800)931-6026 (US); (972)349-5558 (International).

If your flight is delayed or you are scheduled for a "late arrival," reconfirm your reservation by calling the hotel's in-house reservations desk. *Hotels commonly book more reservations than they have rooms to ensure a full-house -- those arriving after the hotel is full risk being relocated to another hotel and losing their deposit despite having a confirmed reservation.*

Beware of Fraudulent Housing Claims

All hotel reservations are to be made directly with Wyndham Jade, the official AAOS 2016 Housing Bureau. Do not provide your credit card information to anyone other than Wyndham Jade.

Deposits

A one-night room/tax deposit is required for each room reserved. Your deposit is charged immediately to your credit card. This deposit is applied to your final bill upon checkout. If your confirmation indicates that a deposit **was not charged** to your credit card, the hotel charges you for your full stay at checkout.

Cancellations/Changes/Refunds

Hotel cancellation policies vary – dates range from 72 hours to 5 days prior to arrival. Check your Wyndham Jade hotel confirmation or visit the hotel's website for more information. *Failure to cancel your reservation or to check-in on your confirmed date of arrival results in the forfeiture of your deposit.*

Changes and cancellations made:

- **Before February 9, 2016:** Can be made online or by calling Wyndham Jade at (800)931-6026.
- **After February 16, 2016:** Must be made directly with the hotel. Please forward the date, time, and hotel cancellation number to Wyndham Jade (aaos@wyndhamjade.com) and allow 60 days for the refund to be processed.

Map #	Hotel	Rates	Check-In / Check-Out	Resort Fee	Room Service	Distance to Conv. Center	Shuttle to Conv. Center
42	Buena Vista Palace Hotel and Spa	Single: \$189 Double: \$189	4 PM / 11 AM	No	Yes	6.1 Miles	Yes
36	Buena Vista Suites	Single: \$149 Double: \$149	3 PM / 11 AM	No	Yes	8.2 Miles	Yes
35	Cabana Bay Beach Resort Hotel	Single: \$211 Double: \$211	4 PM / 11 AM	No	No	3.8 Miles	Yes
37	Caribe Royale	Single: \$189 Double: \$189	3 PM / 11 AM	No	Yes	8.2 Miles	Yes
6	Courtyard International Drive Convention Center	Single: \$179 Double: \$179	3 PM / 11 AM	No	No	1 Mile	Yes
38	Courtyard Marriott Village	Single: \$156 Double: \$156	3 PM / 12 PM	No	No	5.1 Miles	Yes
7	Crowne Plaza Orlando Universal	Standard: \$180 Suite: \$210	4 PM / 11 AM	No	Yes	1.83 Miles	Yes
31	Doubletree Hotel at Universal	Single: \$159 Double: \$159	4 PM / 11 AM	No	Yes	4 Miles	Yes
20	Doubletree Resort Orlando at Seaworld	Single: \$139 Double: \$139	3 PM / 11 AM	No	Yes	.9 Miles	Yes
43	Doubletree Suites by Hilton (Located In the Walt Disney World Resort)	Single: \$219 Double: \$219	4 PM / 11 AM	No	Yes	6.3 Miles	Yes
9	Embassy Suites Hotel Orlando International Drive Convention Center	Single: \$227 Double: \$227	4 PM / 12 PM	No	Yes	1.3 Miles	Yes
8	Embassy Suites International Drive/Jamaican Court	Single: \$189 Double: \$189	4 PM / 12 PM	No	No	1.6 Miles	Yes
21	Extended Stay America Westwood Blvd South	Single: \$104	4 PM / 11 AM	No	No	1.4 Miles	Yes
10	Extended Stay America-Pointe Orlando	Double: \$114	4 PM / 11 AM	No	No	1.2 Miles	Yes
39	Fairfield Inn & Suites Lake Buena Vista In Marriott Village	Single: \$134 Double: \$134	3 PM / 12 PM	No	No	5.3 Miles	Yes
22	Fairfield Inn & Suites at Seaworld	Single: \$145 Double: \$145	3 PM / 12 PM	No	Yes	1.9 Miles	Yes
11	Fairfield Inn & Suites by Marriott On International Drive	Single: \$154 Double: \$154	3 PM / 12 PM	No	No	5.3 Miles	Yes
12	Hampton Inn Convention Center	Single: \$159 Double: \$159	4 PM / 11 AM	No	No	1.2 Miles	Yes
32	Hard Rock Hotel	Single: \$255 Double: \$255	4 PM / 11 AM	No	Yes	1.2 Miles	Yes
23	Hilton Garden Inn Orlando at Seaworld	Single: \$159 Double: \$159	4 PM / 11 AM	No	Yes	1.2 Miles	Yes
24	Hilton Grand Vacations at Sea World	1-Bedroom Suite \$189	4 PM / 10 AM	No	No	2.8 Miles	Yes
1	Hilton Orlando	Single: \$269 Double: \$269	3 PM / 12 PM	No	Yes	1.1 Miles	Yes
44	Hilton Orlando Bonnet Creek	Single: \$239 Double: \$239	3 PM / 11 AM	<i>Optional</i> \$22/day	Yes	10.8 Miles	Yes
13	Homewood Suites International Drive	Single: \$169 Double: \$189	4 PM / 11 AM	No	No	1.7 Miles	Yes
14	Hyatt Place Orlando Convention Center	Single: \$159 Double: \$159	3 PM / 12 PM	No	Yes	.7 Miles	Yes

Map #	Hotel	Rates	Check-In / Check-Out	Resort Fee	Room Service	Distance to Conv. Center	Shuttle to Conv. Center
45	Hyatt Regency Grand Cypress	Single: \$239 Double: \$239	4 PM / 11 AM	No	Yes	7 Miles	Yes
2	Hyatt Regency Orlando	Single: \$279 Double: \$279	3 PM / 12 PM	<i>Optional</i> \$9/day	Yes	.1 Mile	No
33	Loews Portofino Bay Hotel	Single: \$258 Double: \$258	4 PM / 11 AM	No	Yes	4.5 Miles	Yes
34	Loews Royal Pacific Resort at Universal Orlando	Single: \$236 Double: \$236	4 PM / 11 AM	No	Yes	3.9 Miles	Yes
25	Renaissance Orlando at Seaworld	Single: \$258 Double: \$258	4 PM / 11 AM	No	Yes	1.2 Miles	Yes
15	Residence Inn Convention Center	Single: \$184 Double: \$184	4 PM / 12 PM	No	No	.9 Miles	Yes
26	Residence Inn at Seaworld	Single: \$168 Double: \$168	3 PM / 12 PM	No	No	2.7 Miles	Yes
3	Rosen Centre Hotel	Single: \$249 Double: \$249	3 PM / 11 AM	No	Yes	.1 Mile	No
16	Rosen Inn at Pointe Orlando	Single: \$105 Double: \$105	4 PM / 11 AM	No	No	1 Mile	Yes
4	Rosen Plaza Hotel	Single: \$219 Double: \$229	3 PM / 11 AM	No	Yes	.1 Mile	No
27	Rosen Shingle Creek	Single: \$259 Double: \$259	3 PM / 11 AM	No	Yes	2.9 Miles	Yes
17	Sonesta ES Suites Orlando	2-Bedroom Suites Single: \$199 Double: \$199	4 PM / 11 AM	No	No	1.2 Miles	Yes
18	Springhill Suites Convention Center	Single: \$179 Double: \$179	3 PM / 12 PM	No	No	1 Mile	Yes
40	Springhill Suites Lake Buena Vista In Marriott Village	Single: \$145 Double: \$145	3 PM / 12 PM	No	No	6 Miles	Yes
28	Springhill Suites at Seaworld	Single: \$156 Double: \$156	3 PM / 12 PM	No	Yes	1.8 Miles	Yes
5	The Castle Hotel	Single: \$169 Double: \$169	3 PM / 11 AM	No	Yes	1 Mile	Yes
30	The Westin Orlando Universal Boulevard	Single: \$274 Double: \$274	3 PM / 12 PM	No	Yes	1.4 Miles	Yes
29	Vista Cay by Millenium	2-Bedroom Condo Single: \$175 Double: \$175	4 PM / 10 AM	No	Yes	2.3 Miles	Yes
46	Waldorf Astoria Orlando	Single: \$269 Double: \$269	4 PM / 11 AM	<i>Optional</i> \$25/day	Yes	10.8 Miles	Yes
47	Walt Disney World Swan Resort	Single: \$252 Double: \$252	3 PM / 12 PM	\$17/day	Yes	11.1 Miles	Yes
48	Wyndham Grand Orlando Resort Bonnet Creek	Single: \$199 Double: \$199	4 PM / 11 AM	No	Yes	9.8 Miles	Yes
41	Wyndham Lake Buena Vista In the Walt Disney Resort	Lakeview Single: \$129 Double: \$129 Tower Room Single: \$139 Double: \$139	4 PM / 11 AM	\$10/day	Yes	7.6 Miles	Yes
19	Wyndham Orlando Resort	Single: \$169 Double: \$169	4 PM / 11 AM	\$17.95/ day	Yes	1 Mile	Yes

All information, including Resort Fees, Parking Fees and Internet Fees, are subject to change without prior notice.
Please reconfirm all fees with your hotel upon check-in.

Walkable Hotels

- 2. Hyatt Regency Orlando (formerly Peabody)
- 3. Rosen Centre Hotel
- 4. Rosen Plaza Hotel

.5–2 miles North of OCCC

- 5. Castle Hotel – An Autograph Collection Hotel
- 6. Courtyard by Marriott I-Drive/Conv. Center
- 7. Crowne Plaza Orlando Universal
- 8. Embassy Suites Hotel I-Drive/Jamaican Ct
- 9. Embassy Suites Hotel -I Drive/Conv. Center
- 10. Extended Stay America Conv. Center/I-Drive
- 11. Fairfield Inn & Suites Orlando I-Drive/Conv. Center
- 12. Hampton Inn I-Drive/Conv. Center
- 13. Homewood Suites – I-Drive/Conv. Center
- 14. Hyatt Place Conv. Center/I-Drive
- 15. Residence Inn by Marriott/Conv. Center
- 16. Rosen Inn at Pointe Orlando
- 17. Sonesta ES Suites Orlando
- 18. Springhill Suites Conv. Center/I-Drive Area
- 19. Wyndham Orlando Resort I-Drive

.5–2 miles South of OCCC

- 20. Doubletree by Hilton Orlando at SeaWorld
- 21. Extended Stay America Conv. Center - Westwood Blvd South
- 22. Fairfield Inn & Suites Orlando at SeaWorld
- 23. Hilton Garden Inn Orlando at SeaWorld
- 24. Hilton Grand Vacations Club at SeaWorld
 - 1. Hilton Orlando
- 25. Renaissance Orlando at SeaWorld
- 26. Residence Inn Orlando at SeaWorld®
- 27. Rosen Shingle Creek
- 28. Springhill Suites Orlando at SeaWorld
- 29. Vista Cay Resort by Millenium
- 30. The Westin Orlando at Universal Blvd

2.5–4 miles North of OCCC

- 31. DoubleTree by Hilton at the Entrance to Universal Orlando
- 32. Hard Rock Hotel® at Universal Orlando®
- 33. Loews Portofino Bay Hotel at Universal Orlando®
- 34. Loews Royal Pacific Resort at Universal Orlando®
- 35. Universal’s Cabana Bay Beach Resort



4–6 miles South of OCCC

- 36. Buena Vista Suites
- 37. Caribe Royale All-Suite Hotel & Convention Center
- 38. Courtyard Orlando Lake Buena Vista at Marriott Village
- 39. Fairfield Inn & Suites Orlando Lake Buena Vista at Marriott Village
- 40. Springhill Suites Orlando Lake Buena Vista in the Marriott Village
- 41. Wyndham Lake Buena Vista Resort

6–8 miles South of OCCC

- 42. Buena Vista Palace Hotel & Spa
- 43. Doubletree Suites by Hilton Lake Buena Vista
- 44. Hilton Orlando Bonnet Creek
- 45. Hyatt Regency Grand Cypress
- 46. Waldorf Astoria® Orlando
- 47. Walt Disney World Swan and Dolphin Resort
- 48. Wyndham Grand Orlando Resort Bonnet Creek

INTERNATIONAL GROUP HOUSING

AAOS 2016 Annual Meeting
March 1-5, Orlando, Florida – Orange County Convention Center

Hotel	Int'l Single Package	Int'l Double Package
Courtyard Orlando International Drive/Convention Center	\$259.00	\$291.00
Crowne Plaza Orlando Universal	\$253.00	\$278.00
DoubleTree By Hilton Orlando at SeaWorld	\$218.00	\$254.00
Embassy Suites International Drive/Convention Center	\$288.00	\$295.00
Hampton Inn Orlando International Drive	\$211.00	\$218.00
Hard Rock Hotel Orlando	\$351.00	\$390.00
Hilton Garden Inn at Sea World	\$227.00	\$250.00
Hilton Orlando	\$369.00	\$410.00
Homewood Suites by Hilton Orlando/ Convention Center	\$223.00	230.00
Hyatt Place Orlando Convention Center	\$211.00	\$218.00
Hyatt Regency Orlando	\$381.00	\$419.00
Loews Portofino Bay	\$354.00	\$392.00
Loews Royal Pacific	\$329.00	\$367.00
Renaissance Orlando at SeaWorld	\$354.00	\$392.00
Residence Inn Orlando Convention Center	\$239.00	\$246.00
Rosen Centre Orlando	\$340.00	\$372.00
Rosen Inn at Pointe Orlando	\$161.00	\$178.00
Rosen Plaza Orlando	\$301.00	\$328.00
Rosen Shingle Creek	\$349.00	\$381.00
Springhill Suites Orlando Convention Center/International Dr.	\$234.00	\$241.00
The Westin Orlando Universal Boulevard	\$367.00	\$400.00
Wyndham Orlando	\$238.00	\$260.00

All rooms rates are "Inclusive Rates" and include: Base Room Rate, Taxes, Fees, Hotel Luggage Handling ("Porterage"), Breakfast, Group Help Desk (where available), and Shuttle Service to/from Convention Center (as per official schedule).

HOUSING INITIAL DEPOSIT in the amount of **\$300 per room** and **\$600 per suite** must be received WITHIN 15 CALENDAR DAYS from the signing of the agreement. One international non-member registration is required for each room booked.

CANCELLATION POLICY

- From the contract signing to October 28, 2015: No penalties apply.
- After October 28, 2015 until January 18, 2016: \$300 per room and \$600 per suite deposit.
- After January 18, 2016: Total Group room nights charges.

Please visit our website to book your accommodation and download the complete Housing and Registration Agreement. <http://www.aaos-igd.com>

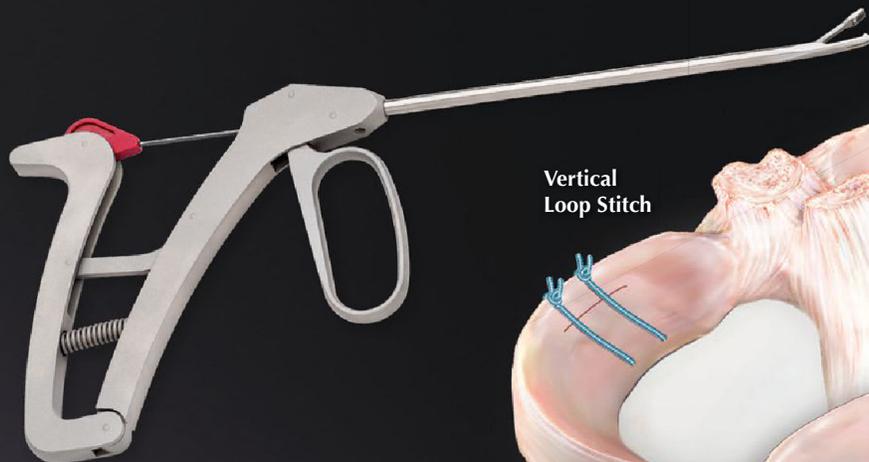


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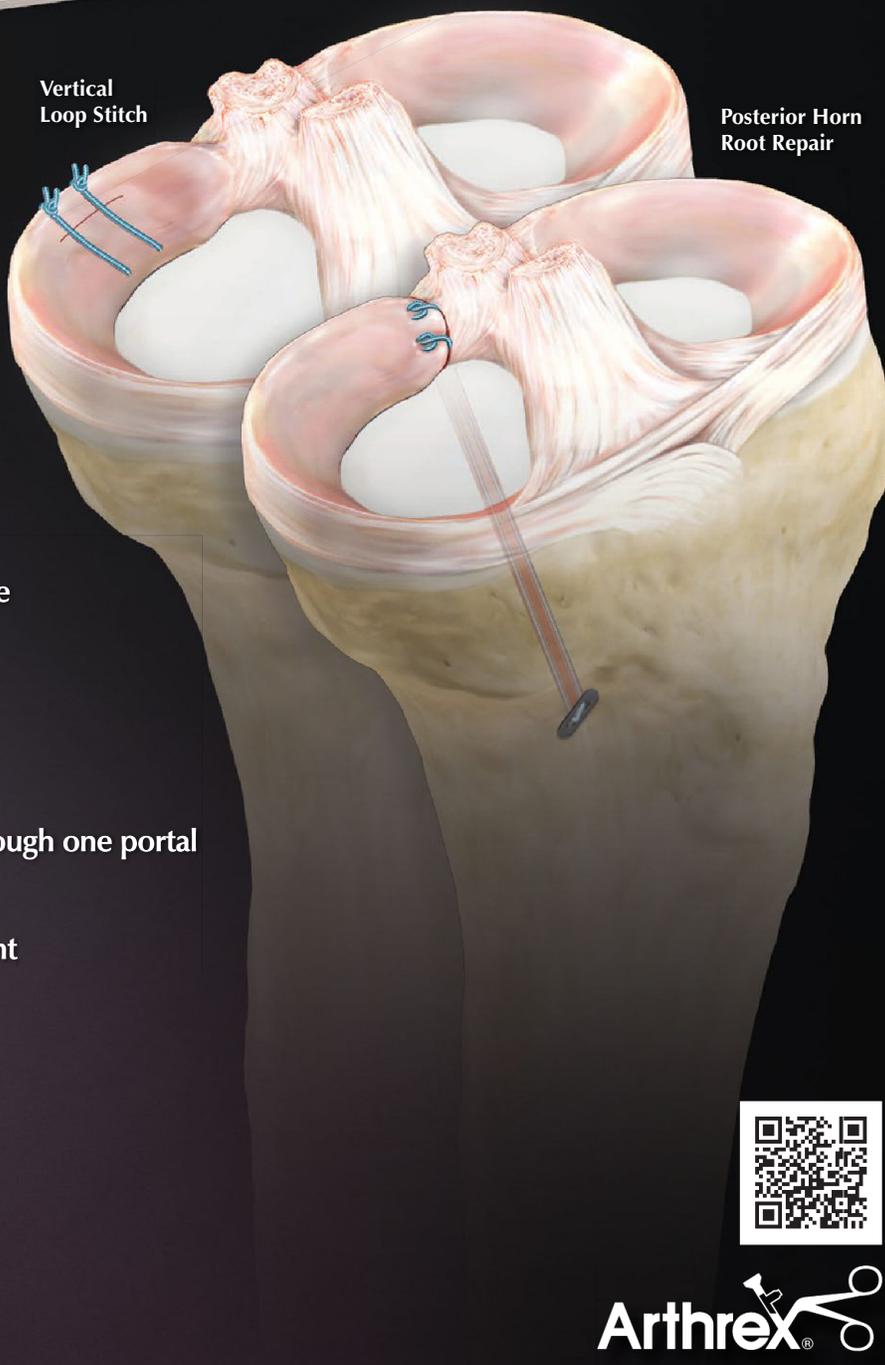
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Simplified, Single-Portal Suture Passing and Retrieving



Vertical
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Posterior Horn
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Pass suture in tight spaces with the Knee Scorpion Needle (AR-12990N)
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Accommodates 2-0 and 0 FiberWire®
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Angled jaw engineered for the knee joint



Knee Scorpion
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Arthrex®

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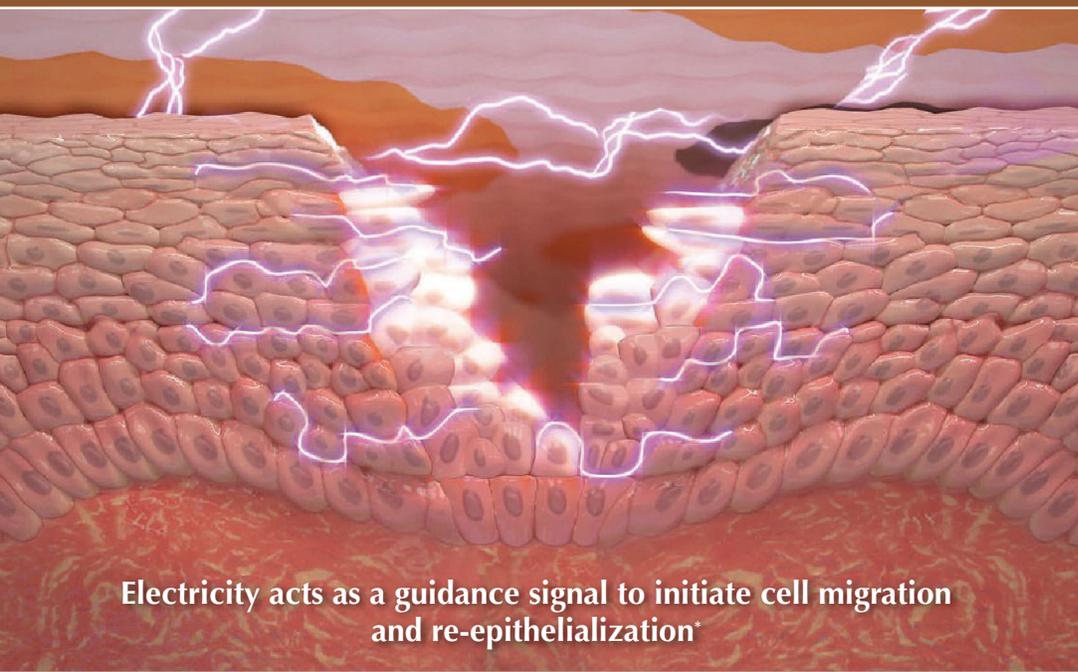
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JumpStart™

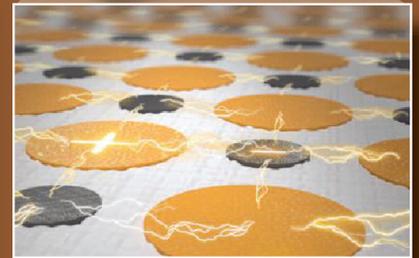
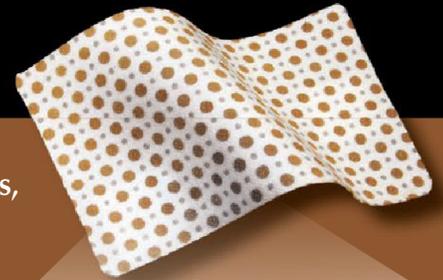
ADVANCED MICROCURRENT HEALING™

Jump start wound healing with new microcurrent technology that restores a physiological environment for optimal healing and infection control.

Provides antimicrobial protection against a broad spectrum of microbes, including harmful multi-drug resistant and biofilm-forming pathogens.*



Electricity acts as a guidance signal to initiate cell migration and re-epithelialization*

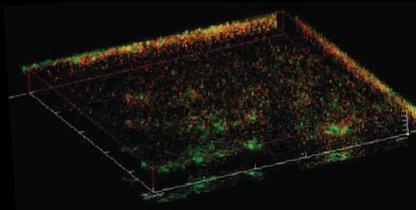


Proprietary islands of elemental silver and zinc form microcell batteries that generate electricity, to support the body's natural electrical healing process.

Prevents bacterial growth compared to the Silver dressing*

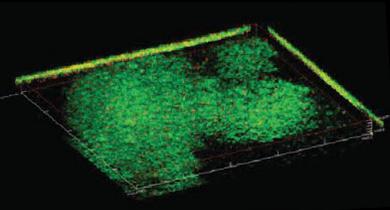
*Published data on file

JumpStart Dressing



Electrical field present
Biofilm inactivation

Silver Dressing



No electrical field present
Biofilm colonization



Scan code or visit: <http://cptr.it/JumpStart> to learn more about the revolutionary healing technology of JumpStart.



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