AOSSM gratefully acknowledges the following companies for their generous 2013–2014 support.

### AOSSM Corporate Partners

<table>
<thead>
<tr>
<th>Platinum Elite</th>
<th>($100,000 and Above)</th>
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<tbody>
<tr>
<td>Arthrex*</td>
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<td>BIOMET</td>
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<td>ConMed Linvatec</td>
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<td>DJO Global</td>
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<td>ÖSSUR Life Without Limitations</td>
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<td>rti surgical</td>
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<tr>
<td>Smith &amp; Nephew*</td>
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<td>Stryker*</td>
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<tr>
<th>Silver</th>
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<tr>
<td>Sanofi Biosurgery</td>
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<tr>
<th>Bronze</th>
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<td>Breg*</td>
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<td>Bioventus*</td>
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<tr>
<td>Mitek Sports Medicine</td>
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<tr>
<td>Flexion Therapeutics*</td>
<td></td>
</tr>
</tbody>
</table>

*These companies have provided support for the 2014 Annual Meeting. (as of June 1, 2014)
Program Committee
Beth E. Shubin Stein MD, Chair
Darren L. Johnson MD
Augustus D. Mazzocca MD, MS
Mark D. Miller MD
Kurt P. Spindler MD
Daniel C. Wascher MD, Instructional Course Chair
Kirk Lanzone Terry, Staff Liaison

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AOSSM gratefully acknowledges for an educational grant in support of the publication of this Final Program.
Looking for the latest on the AOSSM Annual Meeting?

Check out our app

- Navigate the Annual Meeting’s educational activities and social events
- View abstracts and instructional courses
- See who’s here
- Search exhibitor listings

Visit www.sportsmed.org and bookmark the site from your computer or mobile device or scan the QR code

AOSSM gratefully acknowledges BIOMET for their support of the meeting mobile app.

Tweeting about the Annual Meeting?
Include hashtag #AOSSM2014 in your Tweets and join the conversation!
<table>
<thead>
<tr>
<th>Function</th>
<th>Location</th>
<th>Time</th>
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<tbody>
<tr>
<td><strong>Wednesday, July 9, 2014</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Board of Directors</td>
<td>Issaquah</td>
<td>7:00am – 3:00pm</td>
</tr>
<tr>
<td><strong>Thursday, July 10, 2014</strong></td>
<td></td>
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</tr>
<tr>
<td>Team Physician Committee</td>
<td>Kirkland</td>
<td>6:00am – 7:00am</td>
</tr>
<tr>
<td>Corporate Relations Committee</td>
<td>Leschi</td>
<td>7:00am – 8:30am</td>
</tr>
<tr>
<td>Legislative &amp; Regulatory Advocacy Committee</td>
<td>Leschi</td>
<td>11:30am – 12:45pm</td>
</tr>
<tr>
<td>Fellowship Match Committee</td>
<td>Kirkland</td>
<td>12:00pm – 1:00pm</td>
</tr>
<tr>
<td>Publications Committee</td>
<td>Medina</td>
<td>12:00pm – 1:30pm</td>
</tr>
<tr>
<td>Council of Delegates</td>
<td>Ravenna ABC</td>
<td>1:00pm – 3:00pm</td>
</tr>
<tr>
<td>Public Relations Committee</td>
<td>Alki Boardroom</td>
<td>1:30pm – 3:00pm</td>
</tr>
<tr>
<td>Research Committee</td>
<td>Issaquah</td>
<td>12:30pm – 2:30pm</td>
</tr>
<tr>
<td>AJSM Editorial Board</td>
<td>Room 608 (Convention Center)</td>
<td>2:45pm – 4:15pm</td>
</tr>
<tr>
<td>Fellowship Accreditation Task Force</td>
<td>Kirkland</td>
<td>3:00pm – 4:00pm</td>
</tr>
<tr>
<td><strong>Friday, July 11, 2014</strong></td>
<td></td>
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<tr>
<td>Education Council</td>
<td>Medina</td>
<td>7:00am – 8:00am</td>
</tr>
<tr>
<td>Fellowship Committee</td>
<td>Alki Boardroom</td>
<td>7:00am – 8:00am</td>
</tr>
<tr>
<td>Sunrise Summit</td>
<td>Issaquah</td>
<td>7:00am – 8:30am</td>
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<tr>
<td>Traveling Fellowship Committee</td>
<td>Kirkland</td>
<td>7:30am – 9:00am</td>
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<tr>
<td>STOP Outreach Committee</td>
<td>Medina</td>
<td>12:00pm – 1:30pm</td>
</tr>
<tr>
<td>Fellowship Program Directors followed by Single Program Institutions</td>
<td>Ravenna ABC</td>
<td>12:30pm – 3:30pm</td>
</tr>
<tr>
<td>Program Committee</td>
<td>Alki Boardroom</td>
<td>12:45pm – 1:45pm</td>
</tr>
<tr>
<td>Enduring Education Committee</td>
<td>Kirkland</td>
<td>2:00pm – 3:00pm</td>
</tr>
<tr>
<td>Education Committee</td>
<td>Issaquah</td>
<td>3:00pm – 5:00pm</td>
</tr>
<tr>
<td>Education and Industry Relations Committee</td>
<td>Alki Boardroom</td>
<td>4:00pm – 5:00pm</td>
</tr>
<tr>
<td>Traveling Fellows Reception</td>
<td>Cirrus Ballroom</td>
<td>6:00pm – 8:00pm</td>
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<tr>
<td><strong>Saturday, July 12, 2014</strong></td>
<td></td>
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</tr>
<tr>
<td>Medical Publishing Group Board of Trustees</td>
<td>Issaquah</td>
<td>1:00pm – 3:30pm</td>
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<tr>
<td><strong>Sunday, July 13, 2014</strong></td>
<td></td>
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</tr>
<tr>
<td>Board of Directors</td>
<td>Issaquah</td>
<td>6:30am – 9:00am</td>
</tr>
</tbody>
</table>
Registration
Every AOSSM Annual Meeting attendee needs to present photo identification to pickup registration materials.

Hours
Wednesday, July 9  2:00pm – 6:00pm
Thursday, July 10  6:15am – 1:00pm
Friday, July 11   6:15am – 12:30pm and 2:00pm – 3:45pm
Saturday, July 12  6:15am – 1:00pm
Sunday, July 13  6:15am – 11:30am

Late/On-Site Registration
On-site registration is available for an additional charge of $100 plus the pre-registration fee.

Refund Policy
No refunds will be issued for registration, instructional courses, or social activity fees.

Wireless Service
Wireless service is available Wednesday-Sunday in the meeting space (excluding Exhibit Hall) under the AOSSM 2014 Network.

Attire
Meeting attire is casual, including all social events.

Convention Center Parking
Parking rates at the Washington State Convention Center are hourly and range from $5.00 – $29.00.

Spouse/Family Hospitality
A hospitality room with light refreshments is located in the Alki Boardroom / Dashpoint at the Sheraton Seattle. The hours are from 8:00am – 12:00pm Thursday – Saturday and 8:00am – 11:00am on Sunday.

General Session
The General Session will be held in 6 B / C of the Washington State Convention Center.

Concurrent Sessions
Concurrent Sessions will be held on Thursday, Friday, and Saturday in the following locations:
Concurrent A – 6A
Concurrent B – 618 – 620
Concurrent C – 615 – 617

Instructional Courses
Instructional courses are offered Thursday, July 10, 2014 through Sunday, July 13 from 6:45am – 8:15am. The location of the courses is on Level 6 of the convention center with room numbers noted on tickets received at the time of registration. Attendance in instructional courses is by ticket only.

The instructional course fee is $70. One must register and pay the fee in order to enroll. This fee is applicable to ALL registrants.

The Instructional Course Final Program is only available in electronic format at a price of $150; this includes online access to the PowerPoints and recorded voices of the faculty from all 26 ICs. There will no longer be hard copy handouts distributed to IC registrants on-site. IC registrants, including those who register in Seattle, can login to www.sportsmed.org to view all materials in their MyAOSSM tab. Some instructional courses may have limited capacity, and space is assigned as registrations are received.

Posters
All posters are available for viewing outside the Exhibit Hall on Level 4 from Thursday morning until Saturday afternoon in the Washington State Convention Center and also online at http://eposter.abstractsonline.com/aossm/viewer/

Exhibits
Exhibits will be located in 4B of the Washington State Convention Center. A complete listing of commercial exhibitors, including exhibit hours are located at the back of this Final Program and in the Exhibitor Directory provided to each attendee. Continental breakfast and coffee breaks will be held in the Exhibit Hall. Admission to the Exhibit Hall requires a badge. Children under 16 are not permitted in the Exhibit Hall. The AOSSM attendee raffle will be located in the Exhibit Hall.

Online Meeting Subscription – 2014
AOSSM features selected plenary sessions from AOSSM’s 2014 meetings through its website. For $150, participants receive online access to sessions containing slide presentations and speakers’ voices.

You’ll never miss out on reviewing presentations, hearing missed talks and getting the necessary references at any time! To purchase, visit the Registration Desk or go to www.sportsmed.org and search “Online Meetings.”
Accreditations
The American Orthopaedic Society for Sports Medicine (AOSSM) is accredited by the Accreditation Council for Continuing Medical Education to provide continuing medical education for physicians. The American Orthopaedic Society for Sports Medicine (AOSSM) is recognized by the Board of Certification, Inc. to offer continuing education for Certified Athletic Trainers.

AMA / PRA
Scientific Sessions: AOSSM designates this live activity for a maximum of 13.5 AMA PRA Category 1 Credits™. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

Instructional Courses: AOSSM designates this live activity for a maximum of 1.5 AMA PRA Category 1 Credits™. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

Live Surgical Demonstrations Workshop: Lower Extremity AOSSM designates this live activity for a maximum of 4.5 AMA PRA Category 1 Credits™. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

Young Sports Medicine Specialists’ Workshop: Get Your Game On – Practice Situations in 2014: AOSSM designates this live activity for a maximum of 2 AMA PRA Category 1 Credits™. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

AOSSM Medical Publishing Group Reviewers’ Workshop: AOSSM designates this live activity for a maximum of 1.5 AMA PRA Category 1 Credits™. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

NATA / CEUs
Scientific Sessions: This program has been approved for a maximum of 13.5 hours of Category A Continuing Education. This continuing education course is considered to be an Essential Level program.
Provider Number: P460

Instructional Courses: This program has been approved for a maximum of 1.5 hours of Category A Continuing Education. This continuing education course is considered to be an Essential Level program.
Provider Number: P460

Live Surgical Demonstrations Workshop: Lower Extremity This program has been approved for a maximum of 4.5 hours of Category A Continuing Education. This continuing education course is considered to be an Essential Level program.
BOC Approved Provider Number: P460

AOSSM Medical Publishing Group Reviewers’ Workshop This program has been approved for a maximum of 1.5 hours of Category A Continuing Education. This continuing education course is considered to be an Essential Level program.
BOC Approved Provider Number: P460

AAPA
AAPA accepts certificates of participation for educational activities certified for AMA PRA Category 1 Credit™ from organizations accredited by ACCME. Physician assistants may receive a maximum of 13.5 hours of Category 1 credit for completing the scientific sessions, 1.5 hours of Category 1 credit for completing each Instructional Course, 4.5 hours of Category 1 for completing the Live Surgical Demonstration Workshop and 1.5 hours of Category 1 for completing the AOSSM Medical Publishing Group Reviewers’ Workshop.

Program Information
AOSSM attests that the person(s) responsible for the development of this live activity did so independently and were not influenced by commercial supporters.

Disclaimer
The material presented in this continuing medical education program is being made available by the AOSSM for educational purposes only. This material is not intended to represent the only methods or procedures appropriate for the medical situation discussed.

AOSSM is not responsible for expenses incurred by an individual who is not confirmed and for whom space is not available at the meeting. Costs incurred by the registrant, such as airline or hotel fees or penalties, are the responsibility of the registrant.

Disclosure Statement
In accordance with the standards of the Accreditation Council for Continuing Medical Education (ACCME), it is the policy of the AOSSM that faculty and planners disclose to the learners all financial relationships during the past twelve months with any commercial interest (any entity producing, marketing, re-selling, or distributing health care goods or services consumed by, or used on, patients). In accordance with AOSSM policy, faculty participation in this educational activity is predicated upon timely submission and review of AOSSM disclosures. Non-compliance results in faculty being stricken from the program. Faculty and planner disclosure information is available online at www.sportsmed.org.
Meeting Format

Description
This live activity is designed to highlight areas of recent research in the field of orthopaedic sports medicine relevant to practicing physicians, surgeons, and allied health professionals. This information is provided through scientific paper presentations, hot topics, updates, question and answer sessions, surgical video demonstrations, spotlights on surgical techniques, symposia, current concepts, overviews, clinical insights, and/or debates.

Meeting Objectives
Upon completion of this live educational activity, learners should be able to:

• Implement an effective evaluation algorithm, based on recent research, for musculoskeletal and sports medicine conditions
• Assess and apply surgical and non-surgical treatment recommendations and rehabilitation protocols for the management of essential musculoskeletal and medical conditions germane to the practice of orthopaedic sports medicine
• Integrate prevention strategies with their health care team(s) to improve musculoskeletal and medical health in their patient population
• Devise a strategy to integrate relevant ABOS Maintenance of Certification procedures
• Synthesize applicable management concepts into clinicians’ practices to enhance patient services

Target Audience
This program is directed toward orthopaedic surgeons, physicians, and allied health professionals in the field of sports medicine or related fields of practice.

Statement of Need
A need for this live activity has been determined based on identifying professional practice gaps, previous course evaluations, the AOSSM Self Assessment, and the AOSSM Educational Curriculum. The content of this live activity was based on current issues and hot topics provided by AOSSM membership and leadership.

Prerequisites
A basic understanding of the mechanics of sports injuries, as well as a familiarity with the pertinent anatomy and physiology of the upper and lower extremities and the spine, is suggested.
### THURSDAY, JULY 10, 2014

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>6:45am – 8:15am</td>
<td>Instructional Courses</td>
</tr>
<tr>
<td>7:30am – 1:00pm</td>
<td>Exhibits – Exhibit Hall 4B</td>
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**General Session – Room 6 B / C**

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>8:36am – 9:17am</td>
<td>Scientific Session: Shoulder Instability RTP</td>
</tr>
<tr>
<td>8:36am – 8:41am</td>
<td>Aircast Award for Clinical Science</td>
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<tr>
<td>8:48am – 9:08am</td>
<td>Case-Based Symposium: In-season Management of Glenohumeral Instability in the Contact Athlete</td>
</tr>
<tr>
<td>9:18am – 9:50am</td>
<td>Scientific Session: Shoulder Instability – Glenoid Bone Loss</td>
</tr>
<tr>
<td>9:51am – 9:59am</td>
<td>Surgical Spotlight: How I Do a Laterjet – Pearls, Pitfalls, and Outcomes</td>
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<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>10:00am – 10:14am</td>
<td>Traveling Fellows Presentation</td>
</tr>
<tr>
<td>10:15am – 10:20am</td>
<td>OREF Presentation</td>
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<td>10:21am – 11:08am</td>
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**Concurrent Session A – Room 6A**

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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</thead>
<tbody>
<tr>
<td>11:09am – 11:38am</td>
<td>Scientific Session: ACL – Pediatrics</td>
</tr>
<tr>
<td>11:21am – 11:29am</td>
<td>Surgical Spotlight: How I Do an All Epiphyseal ACL</td>
</tr>
<tr>
<td>11:39am – 12:08pm</td>
<td>Scientific Session: Female ACL</td>
</tr>
<tr>
<td>11:51am – 11:59am</td>
<td>Update: Special Consideration in ACL Reconstruction in the Female Athlete</td>
</tr>
<tr>
<td>12:09pm – 12:30pm</td>
<td>Scientific Session: Knee Extra-Articular</td>
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**Concurrent Session B – Room 618 – 620**

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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</thead>
<tbody>
<tr>
<td>11:09am – 11:30am</td>
<td>Scientific Session: Throwing Shoulder</td>
</tr>
<tr>
<td>11:54am – 12:25pm</td>
<td>Scientific Session: Throwing Elbow</td>
</tr>
<tr>
<td>12:06pm – 12:14pm</td>
<td>Surgical Spotlight: Elbow Arthroscopy in the Athlete</td>
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**Concurrent Session C – Room 615 – 617**

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>11:09am – 11:35am</td>
<td>Scientific Session: Adult Hip</td>
</tr>
<tr>
<td>11:36am – 12:06pm</td>
<td>Symposium: Success and Failure in Hip Arthroscopy: What Have I Learned?</td>
</tr>
<tr>
<td>12:07pm – 12:15pm</td>
<td>Surgical Spotlight: Endoscopic Repair of Rotator Cuff Tears of the Hip</td>
</tr>
<tr>
<td>12:16pm – 12:24pm</td>
<td>Update: Labral and Capsular Reconstruction: When and Why?</td>
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### AFTERNOON WORKSHOPS

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tr>
<td>1:00pm – 5:30pm</td>
<td>Live Surgical Demonstrations Workshop: Lower Extremity Room 6A</td>
</tr>
<tr>
<td>1:00pm – 2:30pm</td>
<td>AOSSM Medical Publishing Group Reviewers’ Workshop Room 611 – 612</td>
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### FRIDAY, JULY 11, 2014

<table>
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<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>6:45am – 8:15am</td>
<td>Instructional Courses</td>
</tr>
<tr>
<td>7:30am – 4:00pm</td>
<td>Exhibits – Exhibit Hall 4B</td>
</tr>
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**General Session – Room 6 B / C**

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>8:30am – 8:59am</td>
<td>Scientific Session: ACL Graft Choice</td>
</tr>
<tr>
<td>8:30am – 8:40am</td>
<td>O’Donoghue Sports Injury Research Award</td>
</tr>
<tr>
<td>9:00am – 9:25am</td>
<td>Scientific Session: ACL Risk Factors for Failure</td>
</tr>
<tr>
<td>9:26am – 9:46am</td>
<td>Case-Based Symposium: Revision ACL – What to Do When It Doesn’t Work</td>
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<tr>
<td>9:47am – 9:55am</td>
<td>Hall of Fame Presentation</td>
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<tr>
<td>10:01am – 10:31am</td>
<td>Presidential Address</td>
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<tr>
<td>10:32am – 11:12am</td>
<td>BREAK</td>
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**Concurrent Session A – Room 6A**

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>11:12am – 11:38am</td>
<td>Scientific Session: Cartilage</td>
</tr>
<tr>
<td>11:39am – 12:08pm</td>
<td>Symposium: Cartilage – Scratching the Surface</td>
</tr>
<tr>
<td>12:09pm – 12:34pm</td>
<td>Scientific Session: Osteotomy</td>
</tr>
<tr>
<td>12:21pm – 12:27pm</td>
<td>Update: Osteotomy: Does It Make the Cut?</td>
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</table>

**Concurrent Session B – Room 618 – 620**

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>11:12am – 11:30am</td>
<td>Scientific Session: Hip – Pediatrics</td>
</tr>
<tr>
<td>11:31am – 11:51am</td>
<td>Case-Based Symposium: Controversies in Pediatric Hip</td>
</tr>
<tr>
<td>11:52am – 12:00pm</td>
<td>Update: When Is a Scope Not Enough?</td>
</tr>
<tr>
<td>12:12pm – 12:30pm</td>
<td>Scientific Session: Miscellaneous</td>
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**Concurrent Session C – Room 615 – 617**

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>11:12am – 11:21am</td>
<td>Update: Pectoralis Major Repairs</td>
</tr>
<tr>
<td>11:22am – 11:50am</td>
<td>Scientific Session: Rotator Cuff</td>
</tr>
<tr>
<td>11:51am – 12:01pm</td>
<td>Update: Rotator Cuff in 2014</td>
</tr>
<tr>
<td>12:02pm – 12:12pm</td>
<td>Surgical Spotlight: How I Do a Rotator Cuff Repair</td>
</tr>
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</table>

**General Session: Shoulder – Room 6 B / C**

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>2:00pm – 2:27pm</td>
<td>Scientific Session: Shoulder – Biceps / Labrum</td>
</tr>
<tr>
<td>2:28pm – 2:36pm</td>
<td>Update: Making the Transition from Suprapectoral to Subpectoral Biceps Tenodesis – How to Avoid Potential Risks and Complications</td>
</tr>
<tr>
<td>2:37pm – 3:04pm</td>
<td>Scientific Session: The Rest of the Shoulder</td>
</tr>
<tr>
<td>3:05pm – 3:45pm</td>
<td>Symposium: CC Ligament Reconstruction – Tunnel Vision from the Legends</td>
</tr>
</tbody>
</table>
**SUNDAY, JULY 13, 2014**

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>8:15am</td>
<td><strong>General Session – Room 6 B/C</strong></td>
</tr>
<tr>
<td>6:45am – 8:15am</td>
<td><strong>NEW Instructional Courses</strong></td>
</tr>
<tr>
<td>8:31am – 8:50am</td>
<td><strong>Scientific Session:</strong> Concussion</td>
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<tr>
<td>8:51am – 9:06am</td>
<td><strong>ACSM Exchange Lecture:</strong> Pharmacologics in Bone Healing</td>
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<tr>
<td>9:07am – 9:38am</td>
<td><strong>Scientific Session:</strong> Stress Fractures</td>
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<tr>
<td>9:13am – 9:31am</td>
<td><strong>Case-Based Symposium:</strong> Stress Fractures – How Do We Get Our Athletes Back Quickly?</td>
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<tr>
<td>9:39am – 10:13am</td>
<td><strong>Scientific Session:</strong> Prevention</td>
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<tr>
<td>9:51am – 9:56am</td>
<td><strong>Update:</strong> ACL Prevention – Adult</td>
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<td>9:57am – 10:02am</td>
<td><strong>Update:</strong> ACL Prevention – Pediatric</td>
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<tr>
<td>10:14am – 10:42am</td>
<td><strong>Scientific Session:</strong> ACL-Nerve Complications</td>
</tr>
<tr>
<td>10:43am – 11:13am</td>
<td><strong>Scientific Session:</strong> ACL Graft Dynamics</td>
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<td>10:43am – 10:53am</td>
<td><strong>Cabaud Memorial Award</strong></td>
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<td>11:00am – 11:05am</td>
<td><strong>Aircast Award for Basic Science</strong></td>
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<td>11:13am</td>
<td><strong>Meeting Adjourns</strong></td>
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**AMSSM Exchange Lecture:** Concussion Issues and RTP

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<tr>
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<tr>
<td>8:15am</td>
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2014 AOSSM/SPTS Pre-Conference Program
Bringing the Team Approach to Sports Medicine

WEDNESDAY JULY 9, 2014 - 12:00pm – 5:00pm

(All are invited to attend this complimentary course)

Location: Washington State Convention Center
Room 615 – 617

11:50am – 12:00pm  Welcome
Kevin Wilk DPT, Program Chair

12:00pm – 12:30pm  Surgical Management of Multiple Ligament Injuries of the Knee
Angelo J. Colosimo MD

12:30pm – 1:00pm  Rehabilitation Guidelines for Multiple Knee Injuries
Robert E. Mangine Med, PT, ATC

1:00pm – 1:30pm  Management of Labral Pathology of the Hip
James T. Rosneck MD

1:30pm – 2:00pm  Non-Operative and Post-Operative Rehab of Labral Injuries
Gary J. Calabrese PT, ATC

2:00pm – 2:30pm  ACL Rehabilitation: What’s New and What Are We Doing Today
Kevin E. Wilk DPT

2:30pm – 3:00pm  The Second ACL Injury: When, Why, and How to Reduce the Occurrence
Mark V. Paterno PT, PhD, ATC

3:00pm – 3:30pm  AC Joint Revisited: Injury Management in Season and Beyond
Scott D. Mair MD

3:30pm – 4:00pm  Rehabilitation Following AC Injuries
Terry R. Malone PhD, PT, ATC

4:00pm – 4:30pm  The Changing Dynamics of Mechanisms of Injuries of ACL Injuries
Edward M. Wojtys MD

4:30pm – 5:00pm  The Changing Dynamics of Criteria for Return to Sports Following ACL Injuries
George J. Davies DPT, ATC, SCSC
Join us as world-class surgeons perform lower extremity surgical procedures. They will discuss pearls and pitfalls as they demonstrate techniques in real time while performing a variety of procedures on cadavers. Throughout the workshop, attendees may ask questions about potential challenges and solutions.

Co-Chairs
Brian J. Cole MD, MBA
Eric C. McCarty MD

Location
Washington State Convention Center
Room 6A

Program Cost
- $225 Non-member
- $175 Member
- $150 Allied Health
- $125 Resident / Fellow

Register for this workshop at the AOSSM Registration Desk or via online registration. *A boxed lunch is provided.*

Statement of Need
AOSSM has determined the need for this live educational activity based on identifying professional practice gaps, previous course evaluations, the AOSSM Self Assessment, and the AOSSM Educational Curriculum.

Target Audience
This workshop has been designed for practicing orthopaedic surgeons, physicians, and allied health professionals in the field of sports medicine or related fields of practice.

Workshop Objectives
Upon completion of this live educational activity, learners should be able to:
- Evaluate the optimal use of diverse techniques for the lower extremity procedures demonstrated
- Formulate surgical protocols for the lower extremity procedures that integrate strategies designed to avoid potential complications

Program Information
AOSSM attests that the people responsible for the development of this live activity did so independently and were not influenced by commercial supporters.

Accreditation/AMA/PRA Credits
The American Orthopaedic Society for Sports Medicine is accredited by the Accreditation Council for Continuing Medical Education to provide continuing medical education for physicians.

The American Orthopaedic Society for Sports Medicine designates this live educational activity for a maximum of 4.5 **AMA PRA Category 1 Credits™.** Physicians should claim only the credit commensurate with the extent of their participation in the activity.

Accreditation/NATA Credits
The American Orthopaedic Society for Sports Medicine is recognized by the Board of Certification, Inc. to offer continuing education for Certified Athletic Trainers.

This program has been approved for a maximum of 4.5 hours of Category A Continuing Education. This continuing education course is considered to be an Essential Level program.

BOC Approved Provider Number: **P460**

Program Description

<table>
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<tr>
<th>Time</th>
<th>Session</th>
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<tbody>
<tr>
<td>1:00pm – 1:45pm</td>
<td>Hip: Labral Repair, Osteoplasty, Capsular Management</td>
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<td></td>
<td>Surgeon: J.W. Thomas Byrd MD</td>
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<td>Moderator: Christopher M. Larson MD</td>
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<tr>
<td>1:45pm – 2:00pm</td>
<td>Question &amp; Answer Session</td>
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<tr>
<td>2:00pm – 2:25pm</td>
<td>Foot and Ankle: Syndesmosis Repair, Lateral Ankle Ligament Repair and Reconstruction</td>
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<td>Surgeon: Annunziato Amendola MD</td>
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<td>Moderator: Charles A. Bush-Joseph MD</td>
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<tr>
<td>2:25pm – 2:35pm</td>
<td>Question &amp; Answer Session</td>
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<tr>
<td>2:35pm – 3:05pm</td>
<td>Knee: Osteochondral Allograft Transplantation</td>
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<td>Surgeon: David R. McAllister MD</td>
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<td>Moderator: Thomas M. DeBerardino MD</td>
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<tr>
<td>3:05pm – 3:15pm</td>
<td>Question &amp; Answer Session</td>
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<tr>
<td>3:15pm – 3:35pm</td>
<td>Kneen: Microfracture</td>
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<td>Surgeon: Thomas R. Carter MD</td>
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<td>Moderator: Kai Mitthoefer MD</td>
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<td>3:35pm – 3:45pm</td>
<td>Question &amp; Answer Session</td>
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<tr>
<td>3:45pm – 4:15pm</td>
<td>Knee: Meniscus Allograft Transplantation</td>
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<td>Surgeon: Wayne K. Gersoff MD</td>
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<td>Moderator: Edward M. Wojtys MD</td>
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<tr>
<td>4:15pm – 4:25pm</td>
<td>Question &amp; Answer Session</td>
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<tr>
<td>4:25pm – 5:15pm</td>
<td>Knee: ACL/HTO</td>
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<td>Surgeon: Jack Farr II, MD</td>
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<td>Moderator: Christian Lattermann MD</td>
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<tr>
<td>5:15pm – 5:30pm</td>
<td>Question &amp; Answer Session</td>
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AOSSM gratefully acknowledges educational grants for the Live Surgical Demonstration Workshop from:

- **Arthrex**
- **Smith & Nephew (ArthroCare)**
- **Arthrex**
- **ConMed**
- **Smith & Nephew (ArthroCare)**
- **RTI Surgical**
- **Stryker**

And in-kind support from:

- **SBM**

Faculty disclosures are online at [www.sportsmed.org](http://www.sportsmed.org)
This year’s Reviewers’ Workshop will update the audience on two diverse topics: systematic reviews and proper statistical analysis. James L. Carey MD, MPH, a member of the AJSM editorial board, will explain the importance of quality statistics in orthopaedic sports medicine. Robert H. Brophy IV, MD, another member of the AJSM editorial board, will discuss systematic reviews and how to perform and evaluate them.

**Program Planners**
Bruce Reider MD  
James L. Carey MD, MPH  
Robert H. Brophy IV, MD

**Location**
Washington State Convention Center  
Room 611 – 612

**Program Cost**
All meeting attendees are eligible to participate. Complimentary for AJSM, Sports Health, and OJSM reviewers, $45.00 for non-reviewers.

Register for this workshop at the AOSSM Registration Desk or via online registration.

Boxed lunch is included.

**Statement of Need**
The need for this live educational activity is based on AJSM manuscript reviewer evaluations and requests of attendees from past workshops.

**Target Audience**
This workshop has been designed for practicing orthopaedic surgeons, physicians, and allied health professionals in the field of sports medicine or related fields of practice who would like to improve their ability to evaluate critically the orthopaedic sports medicine literature.

**Workshop Objectives**
Upon completion of this live educational activity, participants should be able to:
- Properly design and analyze data from reliability studies
- Understand the results of systematic reviews of the literature and meta-analyses emanating from that literature

**Program Information**
AOSSM attests that the people responsible for the development of this live educational activity did so independently and were not influenced by commercial supporters.

**Accreditation/AMA/PRA Credits**
The American Orthopaedic Society for Sports Medicine is accredited by the Accreditation Council for Continuing Medical Education to provide continuing medical education for physicians.

The American Orthopaedic Society for Sports Medicine designates this live educational activity for a maximum of 1.5 AMA PRA Category 1 Credits™. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

**Accreditation/NATA Credits**
The American Orthopaedic Society for Sports Medicine is recognized by the Board of Certification, Inc. to offer continuing education for Certified Athletic Trainers.

This program has been approved for a maximum of 1.5 hours of Category A Continuing Education. This continuing education course is considered to be an Essential Level program.

BOC Approved Provider Number: P460

**Program Description**
Statistics in Orthopaedic Sports Medicine Research  
James L. Carey MD, MPH  
Department of Orthopaedic Surgery  
Perelman School of Medicine at the University of Pennsylvania

Dr. Carey will discuss some basic and advanced analytic methods used in orthopaedic sports medicine research. Special emphasis will be placed on proper study design and statistical analysis related to reliability studies. Some specific statistical issues that will be reviewed include intra-class correlation and standards for the magnitude of the reliability coefficient. Examples taken directly from the orthopaedic sports medicine literature will be used to highlight key principles.

Systematic Reviews and Meta-Analyses:  
How to Do them and How to Evaluate them  
Robert H. Brophy IV, MD  
Associate Professor, Orthopaedic Surgery  
Washington University Orthopaedics

With the growing emphasis on evidence-based medicine and value-based care, systematic reviews and meta-analyses are an increasingly important component of the medical literature. The methodology for performing these types of studies is particularly relevant to sports medicine specialists with an academic interest. How to read and evaluate these studies, given their potential impact on changes in health care, will be an essential skill for everyone.
Young Sports Medicine Specialists’ Workshop
SUNDAY, JULY 12, 2014 • 2:00p.m – 4:00p.m

Get Your Game on – Practice Situations in 2014

Course Co-Chairs
Mary Lloyd Ireland MD
Jefferson C. Brand MD

Faculty
John Cherf MD, MPH, MBA
Joshua M. Alpert MD
Thomas M. DeBerardino MD
Patricia A. Kolowich MD
Marc R. Safran MD
Yvonne E. Satterwhite MD
Dean C. Taylor MD

Location
Washington State Convention Center
Room 609

Program Cost
$70 per person

Register for this workshop at the AOSSM Registration Desk or via online registration.

A light lunch/snack is included with the registration fee, as well as a reception from 4:00 – 5:00pm.

Statement of Need
AOSSM has determined the need for this live educational activity based on identifying professional practice gaps, previous course evaluations, the AOSSM Self Assessment, and the AOSSM Educational Curriculum.

Target Audience
Sports medicine physicians who would like to sustain a modern sports medicine practice and are within approximately five years of their fellowship.

Workshop Objectives
Upon completion of this workshop, learners should be able to:

- Use leadership principles in their practice to be more efficient and effective
- Know the strategies from military orthopaedists to serve their practice better
- Understand the ways the Affordable Care Act impacts their practice and the best ways to respond

Accreditation/AMA/PRA
The American Orthopaedic Society for Sports Medicine is accredited by the Accreditation Council for Continuing Medical Education to provide continuing medical education for physicians.

The American Orthopaedic Society for Sports Medicine designates this live educational activity for a maximum of 2 AMA PRA Category 1 Credits™. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

Program Description
This program has been designed so that attendees will have a genuine opportunity to discuss meaningful practical issues—some that short presentations have generated and others that naturally arise. Come, listen, and interact with some of the top authorities in their field give perspectives on the practice of sports medicine. We hope to offer you some alternative thinking on current topics of interest.

- Lessons from a Military Active Duty Practice
  Thomas M. DeBerardino MD
- Call Issues: The Good, the Bad, and the Ugly
  Jefferson C. Brand MD
- ACA: A View from 10,000 Feet
  John Cherf MD, MPH, MBA
- Leadership in a Sports Medicine Practice
  Dean C. Taylor MD

The informal small groups give everyone involved an opportunity to benefit from shared universal experiences and proven solutions.

AOSSM gratefully acknowledges smith&nephew for an educational grant in support of this workshop.

Faculty disclosures are online at www.sportsmed.org
Visit the annual meeting mobile app website today!
Scan the QR code or visit www.sportsmed.org to bookmark the mobile site from your computer or mobile device!
6:15am – 7:15am Continental Breakfast 6th Floor Foyer
6:45am – 8:15am Instructional Courses
7:30am – 8:30am Continental Breakfast Exhibit Hall 4B
7:30am – 1:00pm Exhibits – 4B

General Session – Room 6 B/C

8:30am – 8:35am Welcome
Jo A. Hannafin MD, PhD
Hospital for Special Surgery, New York, NY
Beth E. Shubin Stein MD
Hospital for Special Surgery, New York, NY

8:36am – 9:17am Scientific Session: Shoulder Instability RTP
Moderator: Matthew T. Provencher MD
Massachusetts General Hospital, Boston, MA
Objectives: Upon completion of this scientific session, learners should be able to:
• Identify factors involved in return to play decision making
• Assess risk factors for re-injury as they relate to return to sport
• Evaluate treatment options for the in-season athlete with shoulder instability

8:36am – 8:41am Paper 1: Aircast Award for Clinical Science: Return to Play Following In-Season Anterior Shoulder Instability: A Prospective Multi-Center Study
Jonathan F. Dickens MD, Brett D. Owens MD, Kenneth L. Cameron PhD, MPH, ATC, Kelly G. Kilcoyne MD, C. Dain Allred MD, Steven J. Svoboda MD, Karen Y. Peck MEd, ATC, John Paul H. Rue MD
1Keller Army Hospital, West Point, NY
2MedStar Health, Bethesda, MD
3US Air Force Academy, Colorado Springs, CO
496th Medical Group, Eglin AFB, FL
5Tripler Army Medical Center, Hickam AFB, HI
6NHC Annapolis, Annapolis, MD

8:42am – 8:47am Paper 2: Return to Play After Shoulder Stabilization in National Football League Athletes
Matthew J. White MD, Glenn S. Fleisig PhD, Kyle Aune MPH, James P. Bradley MD, Jeffrey R. Dugas MD, E. Lyle Cain MD
1American Sports Medicine Institute, Birmingham, AL
2The Andrews Institute, Gulf Breeze, FL
3Andrews Sports Medicine and Orthopaedic Center, Birmingham, AL

8:48am – 9:08am Case-Based Symposium: In-Season Management of Glenohumeral Instability in the Contact Athlete
Moderator: Neal S. ElAttrache MD
Kerian-Jobe Orthopaedic Clinic, Los Angeles, CA
Panelists:
James P. Bradley MD
University of Pittsburgh Medical Center, Pittsburgh, PA
Eric C. McCarty MD
University of Colorado, Boulder, CO
Walter R. Lowe MD
University of Texas Medical School at Houston, Houston, TX

9:09am – 9:17am Q&A

9:18am – 9:50am Scientific Session: Shoulder Instability – Glenoid Bone Loss
Moderator: William N. Levine MD
Columbia-Presbyterian Medical Center, New York, NY
Objectives: Upon completion of this scientific session, learners should be able to:
• Assess factors involved in recurrent instability after Bankart repair
• Identify bony risk factors for recurrent shoulder instability
• Analyze the effect of glenoid bone loss on posterior shoulder instability

9:18am – 9:23am Paper 3: “Subcritical” Glenoid Bone Loss Increases Redislocation Rates in Primary Arthroscopic Bankart Repair
James S. Shaha MD, Jay B. Cook MD, Daniel J. Song MD, Douglas J. Rowles MD, Craig R. Bottroni MD, Steven H. Shaha PhD, DBA, John M. Tokish MD
1Tripler Army Medical Center, Honolulu, HI
2University of Utah, Salt Lake City, UT
3Tripler Army Medical Center, Hickam AFB, HI

9:24am – 9:29am Paper 4: Classifying GBL: Severity and Attrition. Is There Enough Bone to Reconstruct the Glenoid?
John W. McNeil BA, Andrew S. Bernhardson MD, Lance E. LeClere MD, LT, MC, USNR, Christopher B. Dewing MD, Joseph D. Lynch MD, Tistia Gaston, Matthew T. Provencher MD
1Naval Medical Center, San Diego, CA
2Massachusetts General Hospital, Boston, MA

9:30am – 9:35am Paper 5: The Effect of Combined Glenoid and Humeral Head Defects on Glenohumeral Translation
Robert A. Arciero MD, Anthony Parrino MD, Vilmaris Diaz-Doran MS, BM, Elifio Obopilwe MS, BM, Mark P. Cote DPT, MSCTR, Augustus D. Mazzocco MD, MS, Matthew T. Provencher MD
1University of Connecticut Health Center, Farmington, CT
2Massachusetts General Hospital, Boston, MA

Adam C. Hines MD, James S. Shaha MD, Kevin P. Krul MD, John M. Tokish MD
1Tripler Army Medical Center, Honolulu, HI
2Tripler Army Medical Center, Hickam AFB, HI

9:42am – 9:50am Q&A

9:51am – 9:59am Surgical Spotlight: How I Do a Latarjet – Pearls, Pitfalls, and Outcomes
Robert A. Arciero MD
University of Connecticut Health Center, Farmington, CT

10:00am – 10:14am Traveling Fellows Presentation

10:00am – 10:14am Michael D. Maloney MD, Chair
Traveling Fellowship Committee, Rochester, NY
10:01am – 10:04am  Elizabeth A. Arendt MD  
ESSKA Tour Godmother, Minneapolis, MN

10:04am – 10:07am  Rick D. Wilkerson DO  
SLARD Tour Godfather, Spencer, IA

10:07am – 10:10am  Shiyi Chen MD, PhD  
AOSSM Tour Godfather, Shanghai, China

10:10am – 10:13am  Deepak Goyal MBBS, MS (Ortho), DN  
AOSSM Tour Fellow, Ahmedabad, India

10:13am – 10:14am  Michael D. Maloney MD  
Rochester, NY

10:15am – 10:20am  Orthopaedic Research and Education Foundation (OREF) Presentation  
John A. Bergfeld MD  
Cleveland Clinic, Cleveland, OH

10:21am – 11:08am  BREAK

Concurrent Session A – Room 6A

11:09am – 11:38am  Scientific Session: ACL—Pediatric  
Moderator: Amy L. McIntosh MD  
Mayo Clinic, Rochester, MN

Objectives: Upon completion of this scientific session, learners should be able to:
- Identify risks in delayed ACL reconstruction in a pediatric population
- Evaluate outcomes of all inside ACL reconstructions in the skeletally immature athlete
- Discuss technical considerations in performing an all epiphyseal ACL reconstruction

11:09am – 11:14am  Paper 15: Correlation of Meniscal and Chondral Injuries to Chronicity of ACL Tears in Children and Adolescents  
Allen F. Anderson MD
 1Tennessee Orthopaedic Alliance, Nashville, TN

11:15am – 11:20am  Paper 16: Return to Play and Clinical Outcomes After All-Inside, Anterior Cruciate Ligament Reconstruction in Skeletally Immature Athletes  
Danyal H. Nawabi MD, Moira McCarthy MD, Jessica Graziano, Polly delMille, Theresa Chiala PT, Daniel W. Green MD, Frank A. Cordasco MD, MS
  Hospital for Special Surgery, New York, NY

11:21am – 11:29am  Surgical Spotlight: How Do I Do an Epiphyseal ACL?  
Allen F. Anderson MD  
Tennessee Orthopaedic Alliance, Nashville, TN

11:30am – 11:38am  Q&A

11:39am – 12:08pm  Scientific Session: Female ACL  
Moderator: Sharon L. Hame MD  
University of California Los Angeles, Los Angeles, CA

Objectives: Upon completion of this scientific session, learners should be able to:
- Define risk factors for ACL re-tear in the female athlete
- Identify factors involved in return to sport after ACL reconstruction in Division I female soccer players
- Discuss factors specific to female athletes in surgical reconstruction of the ACL and return to play

11:39am – 11:44am  Paper 17: Deficits in Hip-Ankle Coordination in Female Athletes Who Suffer a Second Anterior Cruciate Ligament (ACL) Injury After ACL Reconstruction and Return to Sport  
Mark V. Paterno PhD, PT, ATC, Adam W. Kiefer PhD, Scott H. Bonnette BS, Michael A. Riley PhD, Laura Schmitt Ph.D, PT, Kevin R. Ford PhD, Gregory D. Myer PhD, CS, Kevin Shockley PhD, Timothy E. Hewett PhD, FACSM  
1Sports Medicine Biodynamics Center, Cincinnati, OH  
2Cincinnati Children’s Hospital Medical Center, Cincinnati, OH  
3University of Cincinnati, Cincinnati, OH  
4High Point University, High Point, NC  
5The Ohio State University Sports Health and Performance Institute, Columbus, OH

11:45am – 11:50am  Paper 18: Rates and Determinants of Return to Play After Anterior Cruciate Ligament Reconstruction in Division I College Women Soccer Athletes: A Study of the Southeastern Conference  
Mark Lembach MD, Adam V. Metzler MD, Jennifer Sebert Howard MS, ATC, Darren L. Johnson MD  
University of Kentucky, Lexington, KY

11:51am – 11:59am  Update: Special Consideration in ACL Reconstruction in the Female Athlete  
Edward M. Wojtys MD  
University of Michigan, Ann Arbor, MI

12:00pm – 12:08pm  Q&A

12:09pm – 12:30pm  Scientific Session: Knee Extra-Articular  
Moderator: Thomas M. DeBerardino MD  
University of Connecticut Health Center, Farmington, CT

Objectives: Upon completion of this scientific session, learners should be able to:
- Evaluate the long term outcomes of extra-articular reconstructions in the ACL deficient knee
- Define the anatomic landmarks of the Anterolateral Ligament
- Evaluate MRI findings of Anterolateral ligament injury in patients with ACL tears

Andrea Ferretti MD, Raffaele Lorio MD, Luca Basiglini, Antonio Ponzo MD, Ludovico Caperna MD, Edoardo Monaco, Fabio Conteduca MD  
1Sant’Andrea Hospital, Rome, Italy

12:15pm – 12:20pm  Paper 20: MRI Evaluation of the Anterolateral Ligament of the Knee in the Setting of ACL Rupture  
Ross Wodicka, Jean Jose DO, Michael G. Baraga MD, Lee D. Kaplan MD, Bryson P. Lesniak MD  
1University of Miami, Miami, FL

12:21pm – 12:30pm  Q&A
### Concurrent Session B – Room 618 – 620

#### 11:09am – 11:35am
**Scientific Session: Throwing Shoulder**  
**Moderator:** Christopher S. Ahmad MD  
Columbia University, New York, NY  
**Objectives:** Upon completion of this scientific session, learners should be able to:  
- Discuss the issues involved in the management of Little League Shoulder  
- Identify factors involved in shoulder disorders in baseball players  
- Examine pitching mechanics following SLAP repair

11:09am – 11:14am  
**Paper 10:** Trends in the Presentation, Management and Outcomes of Little League Shoulder  
Benton E. Heyworth MD¹, Daniel Martin¹, Dennis E. Kramer MD¹, Mininder S. Kocher MD, MPH¹, Donald S. Bae MD¹  
¹Children's Hospital Boston, Boston, MA

11:15am – 11:20am  
**Paper 11:** No Side-to-Side Difference in Humeral Retroversion in Baseball Players with Shoulder Disorders Using a True Three-Dimensional Measurement Technique: Validation and Comparison  
Masayuki Saka MS, PT¹, Hiroki Yamauchi PhD, PT², Toru Yoshioka MD¹, Hidetoshi Hamada⁴, Kazyoshi Gamada PhD, PT¹  
¹Hiroshima International University,  
²Higashihiroshima-shi, Japan  
³Kameda Medical Center, Kamogawa-shi, Japan  
⁴Saka Midori-i Hospital, Hiroshima, Japan

11:21am – 11:26am  
**Paper 12:** Restoration of Neuromuscular Control During the Pitch After Operative Treatment of Slap Tears  
Peter Nissen Chalmers MD¹, Johannes Cip MD¹, Robert Trombley¹, Brett Monson BA¹, Markus Wimmer PhD¹, Brian J. Cole MD, MBA¹, Nikhil N. Verma MD¹, Anthony A. Romeo MD¹  
¹Rush University Medical Center, Chicago, IL

11:27am – 11:35am  
**Q&A**

11:36am – 11:53am  
**MRI in the Throwing Athlete: Making It Black and White**  
James R. Andrews MD  
The Andrews Institute, Gulf Breeze, FL

11:45am – 11:53am  
**Hospital for Special Surgery, New York, NY**

#### 11:54am – 12:25pm
**Scientific Session: Throwing Elbow**  
**Moderator:** Michael G. Cicotti MD  
Rothman Institute at Jefferson, Philadelphia, PA  
**Objectives:** Upon completion of this scientific session, learners should be able to:  
- Discuss the effects of UCL reconstruction on pitching performance in the major league  
- Evaluate the use of OATS in the treatment of OCD of the capitellum  
- Identify key points in arthroscopic treatment of elbow disorders

11:54am – 11:59am  
**Paper 13:** The Effects of Ulnar Collateral Reconstruction on Major League Pitching Performance  
Robert A. Keller MD¹, Matthew Steffes BA¹, David Zhuo BA¹, Michael J. Bey PhD¹, Vasilios Moutzouros MD¹  
¹Henry Ford Hospital, Detroit, MI

12:00pm – 12:05pm  
**Paper 14:** Osteochondral Autograft Plug Transfer for Treatment of Osteochondritis Dissecans of the Capitellum in Adolescent Athletes  
Matthew Lawrence Lyons MD¹, Joseph M. Hart PhD, ATC¹, Aaron M. Freilich MD¹, Angelo R. Dacus MD¹, David R. Diduch MD¹, Abhinav Bobby Chhabra MD¹  
¹University of Virginia, Charlottesville, VA

12:06pm – 12:14pm  
**Surgical Spotlight: Elbow Arthroscopy in the Athlete**  
Felix H. Savoie III, MD  
Tulane University, New Orleans, LA

12:15pm – 12:25pm  
**Q&A**

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**Don’t forget about more afternoon learning with the Live Surgical Demonstration Workshop: Lower Extremity and AOSSM Medical Publishing Group Reviewers’ Workshop. For details check out pages 14 and 15 of this program.**
Concurrent Session C – Room 615–617

11:09am – 11:35am  Scientific Session: Adult Hip
Moderator: Michael J. Salata MD
Shaker Heights, OH

Objectives: Upon completion of this scientific session, learners should be able to:
• Identify risks of recurrent Cam lesions
• Evaluate success of microfracture in treating cartilage lesions in the hip
• Assess outcomes of combined arthroscopy and osteotomies about the hip

11:09am – 11:14am  Paper 7: Recurrence of Cam Lesions: A 2-Year Follow-up
Asheesh Gupta MD, MPH1, John M. Redmond MD1, Kevin F. Dunne BS1, Nathan Finch MA1, Christine E. Stake MA1, Benjamin G. Domb MD1
1 American Hip Institute / Hinsdale Orthopaedics, Westmont, IL

James R. Ross MD1, Angela Keith1, Gail E. Pashos BS MT1, Stephen Duncan MD1, Perry Schoenecker MD1, John C. Clohisy MD2
1 University of Michigan, Ann Arbor, MI
2 Washington University, St. Louis, MO
3 University of Kentucky, Lexington, KY

11:21am – 11:26am  Paper 9: Microfracture of the Hip: A 2-Year Follow-up with a Matched-Pair Control Group
Benjamin G. Domb MD1, Asheesh Gupta MD, MPH1, Kevin F. Dunne BS1, Christine E. Stake MA1, John M. Redmond MD1
1 Hinsdale Orthopaedics / American Hip Institute, Westmont, IL

11:27am – 11:35am  Q&A

11:36am – 12:06pm  Symposium: Success and Failure in Hip Arthroscopy: What Have I Learned?
Moderator: Marc R. Safran MD
Stanford University, Palo Alto, CA

11:37am – 11:43am  Top 10 Pearls to Success in Hip Preservation Surgery
Bryan T. Kelly MD
Hospital for Special Surgery, New York, NY

11:44am – 11:50am  Why Hip Scopes Fail and What Can I Do to Prevent It?
Asheesh Bedi MD
University of Michigan, Ann Arbor, MI

11:51am – 11:57am  Imaging and Dynamic Evaluation: Leaving the OR with a Complete Correction
Christopher M. Larson MD
Minnesota Orthopaedic Sports Medicine Institute, Edina, MN

11:58am – 12:06pm  Q&A

12:07pm – 12:15pm  Surgical Spotlight: Endoscopic Repair of Rotator Cuff Tears of the Hip
J. W. Thomas Byrd MD
Nashville Sports Medicine Foundation, Nashville, TN

12:16pm – 12:24pm  Update: Labral and Capsular Reconstruction: When and Why?
Marc J. Philipp MD
Steadman Philipp MD Research Institute, Vail, CO

12:25pm – 12:31pm  Q&A
**Conference Agenda**

**FRIDAY, JULY 11, 2014**

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>6:15am – 7:15am</td>
<td>Continental Breakfast 6th Floor Foyer</td>
</tr>
<tr>
<td>6:45am – 8:15am</td>
<td>Instructional Courses</td>
</tr>
<tr>
<td>7:30am – 8:30am</td>
<td>Continental Breakfast Exhibit Hall 4B</td>
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<tr>
<td>7:30am – 4:00pm</td>
<td>Exhibits — 4B</td>
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</tbody>
</table>

### General Session – Room 6 B/C

**8:30am – 8:59am**

**Scientific Session: ACL Graft Choice**  
*Moderator:* Richard D. Parker MD  
*Cleveland Clinic Foundation, Cleveland, OH*  
**Objectives:** Upon completion of this scientific session, learners should be able to:  
- Discuss outcomes of revision ACL reconstruction and how they relate to graft choice  
- Evaluate the differences in the use of autograft vs. allograft in long-term outcomes of ACL reconstruction  
- Analyze the differing biomechanics of graft motion between Bone-Patellar Tendon-Bone vs. Hamstring ACL reconstructions  

**8:30am – 8:40am**

**O’Donoghue Sports Injury Research Award: Revision Anterior Cruciate Ligament Reconstruction Graft Choice Impact on Outcome in the MARS Cohort**  
*Rick W. Wright MD, on behalf of MARS Group*  
*Washington University, St. Louis, MO*

**8:41am – 8:46am**

**Paper 21: Autograft vs Allograft ACL Reconstructions: A Prospective, Randomized Clinical Study with Minimum 10-Year Follow-up**  
*Craig R. Bottoni MD¹, Eric L. Smith MD¹, Sarah G. Raybin¹, James S. Shaha MD¹, Steven H. Shaha PhD, DBA¹, John M. Tokish MD¹, Douglas J. Rowles MD¹*  
¹Tripler Army Medical Center, Honolulu, HI

**8:47am – 8:52am**

**Paper 22: ACL Reconstruction: Is There a Difference in Graft Motion for Bone – Patellar Tendon – Bone versus Hamstring Autograft at 6 Weeks Post-Operatively?**  
*James N. Irvine MD¹, Eric Thorhauer BS¹, Ermias Shawel Abebe MD¹, Scott Tashman PhD¹, Christopher D. Harner MD¹*  
¹University of Pittsburgh Medical Center, Pittsburgh, PA

**9:00am – 9:25am**

**Scientific Session: Risk Factors for Failure**  
*Moderator:* Lee D. Kaplan MD  
*University of Miami, Miami, FL*  
**Objectives:** Upon completion of this scientific session, learners should be able to:  
- Examine factors involved in initial ACL injury, and subsequent ACL re-injury in elite and collegiate athletes  
- Identify predictors of ACL re-tear  
- Discuss risk factors for ACL re-injury and treatment options for failed ACL reconstructions  

**9:00am – 9:05am**

**Paper 23: ACL Injury, Return to Play and Reinjury in the Elite, Collegiate Athlete: An Analysis of a Single, Division I NCAA Cohort**  
*Ganesh V. Kamath MD, Timothy Murphy¹, Robert A. Creighton MD¹, Timothy N. Taft MD¹, Jeffrey T. Spang MD¹*  
¹University of North Carolina, Chapel Hill, NC

**9:06am – 9:11am**

**Paper 24: Risk Factors and Predictors of Subsequent ACL Injury after ACL Reconstruction: Prospective Analysis of 2801 Primary ACL Reconstructions**  
*Christopher C. Kaeding MD, Angela Pedroza MPH¹, Emily Reinke PhD¹, Laura J. Huston MS²*  
¹The Ohio State University, Columbus, OH  
²Vanderbilt University, Nashville, TN

**9:12am – 9:17am**

**Paper 25: Lateral Tibial Slope is Increased with Patients with Early Graft Failure Following ACL Reconstruction**  
*Joshua Christensen MD, William Engasser¹, Matthias Vanhees MD¹, Mark S. Collins MD¹, Diane L. Dahm MD¹*  
¹Mayo Clinic, Rochester, MN  
²University of Antwerp, Antwerp, Belgium

**9:18am – 9:25am**

**Q&A**

**9:26am – 9:46am**

**Case-Based Symposium: Revision ACL – What to Do When It Doesn’t Work**  
*Moderator:* Daniel E. Cooper MD  
*Carrell Clinic Center, Dallas, TX*  
**Panelists:**  
Christina R. Allen MD  
University of California at San Francisco, San Francisco, CA  
Bernard R. Bach Jr, MD  
Rush University Medical Center, Chicago, IL  
Rick W. Wright MD  
Washington University, St. Louis, MO

**9:47am – 9:55am**

**Hall of Fame Awards**  
*Robert A. Stanton MD, Presenter*  
*Orthopaedic Specialty Group, Fairfield, CT*

**9:56am – 10:00am**

**Introduction to Presidential Address**  
*Christopher D. Harner MD*  
*University of Pittsburgh Medical Center, Pittsburgh, PA*

**10:01am – 10:31am**

**Presidential Address**  
*Jo A. Hannafin MD, PhD*  
*Hospital for Special Surgery, New York, NY*

**10:32am – 11:12am**

**BREAK**
Concurrent Session A – Room 6A

11:12am – 11:38am  Scientific Session: Cartilage  
Moderator: Scott A. Rodeo MD  
Hospital for Special Surgery, New York, NY  
Objectives: Upon completion of this scientific session, learners should be able to:  
• Assess outcomes of combined meniscal allograft and OATS allograft surgery  
• Discuss Patient Reported Outcome scores (PRO) as a predictor of outcome following Autologous Chondrocyte Implantation  
• Identify factors leading to subjective improvement following Distal Femoral Osteochondral Allograft surgery

11:12am – 11:17am  Paper 26: Combined Meniscus and Osteochondral Allograft Transplantation: Minimum 2-Year Follow-up with an Analysis of Failures  
Geoffrey D. Abrams MD, Kristen Hussey BA, Joshua David Harris MD, Brian J. Cole MD, MBA  
1Stanford University, Palo Alto, CA  
2Rush University Medical Center, Chicago, IL  
3Methodist Hospital Center for Sports Medicine, Houston, TX

11:18am – 11:23am  Paper 27: Factors Predictive of Improved Patient-Reported Outcomes Following Distal Femoral Osteochondral Allograft Transplantation  
Zachary Beck Domont MD, Samantha Quilici PA, Matthew Dehart BS, Dennis C. Crawford MD  
1Oregon Health and Sciences University, Portland, OR

11:24am – 11:29am  Paper 28: Use of Preoperative Patient Reported Outcome Scores to Predict Outcome Following Autologous Chondrocyte Implantation  
Jennifer Sebert Howard PhD, ATC, Christian Lattermann MD  
1University of Kentucky, Lexington, KY

11:30am – 11:38am  Q&A

11:39am – 12:08pm  Symposium: Cartilage – Scratching the Surface  
Moderator: Brian J. Cole MD, MBA  
Rush University Medical Center, Chicago, IL

11:39am – 11:45am  OATS  
Mark D. Miller MD  
University of Virginia, Charlottesville, VA

11:46am – 11:52am  ACI  
Andreas H. Gomoll MD  
Brigham and Women’s Hospital, Chestnut Hill, MA

11:53am – 11:59am  De Novo  
Jack Farr II, MD  
Ortholndy South, Bagersville, IN

12:00pm – 12:08pm  Q&A

12:09pm – 12:34pm  Scientific Session: Osteotomy  
Moderator: Anunziato Amendola MD  
University of Iowa Hospitals and Clinics, Iowa City, IA  
Objectives: Upon completion of this scientific session, learners should be able to:  
• Identify potential complications of Distal Femoral Osteotomy  
• Compare closing and opening wedge HTO in the treatment of the ACL deficient knee  
• Evaluate the use of ostotomies around the knee in the treatment of young patients with OA

Deepak Ramanathan MBBS, Arvind Von Keudell MD, Tom Minas MD, Andreas H. Gomoll MD  
1Harvard Medical School, Boston, MA  
2Massachusetts General Hospital, Boston, MA  
3Brigham and Women’s Hospital, Chestnut Hill, MA

K. Durham Weeks MD, Saker Khamaisy MD, Benjamin Stone, Andrew Pearle MD, Aernout Zuiderbaan MD, Anil S. Ranawat MD  
1Hospital for Special Surgery, New York, NY

12:21pm – 12:27pm  Update: Osteotomy: Does It Make the Cut?  
William I. Sterett MD  
Vail-Summit Orthopaedics, Frisco, CO

12:28pm – 12:34pm  Q&A

Concurrent Session B – Room 618 – 620

11:12am – 11:30am  Scientific Session: Hip – Pediatric  
Moderator: Mininder S. Kocher MD, MPH  
Boston Children’s Hospital, Boston, MA  
Objectives: Upon completion of this scientific session, learners should be able to:  
• Identify compensatory changes in the hips of youth hockey players  
• Evaluate arthroscopic treatment of Femoracetabular Impingement  

11:12am – 11:17am  Paper 31: Changes in the Hip of Youth Hockey Players Over Three Seasons as Seen on MRI and Physical Exam  
Marc J. Philippon MD, Charles Ho MD, PhD, Karen K. Briggs MPH, MBA, N. Dawn Ommen MD  
1Steadman Philippon Research Institute, Vail, CO

11:18am – 11:30am  Paper 32: Arthroscopic Management of Femoracetabular Impingement (FAI) in Adolescents  
J. W. Thomas Byrd MD, Kay S. Jones MSN, RN  
1Nashville Sports Medicine Foundation, Nashville, TN

11:24am – 11:30am  Q&A
Concurrent Session B (cont.) – Room 618 – 620

11:31am – 11:51am Case-Based Symposium: Controversies in Pediatric Hip
Moderator: Yi-Ming Yen MD
Children’s Hospital, Boston, MA
Panelists:
  - Benton E. Heyworth MD
  - Children’s Hospital Boston, Boston, MA
  - John C. Clohisy MD
  - Washington University, St. Louis, MO
  - Shane Jay Nho MD, MS
  - Rush University Medical Center, Chicago, IL

11:52am – 12:00pm Update: When Is a Scope Not Enough?
John C. Clohisy MD
Washington University, St. Louis, MO

12:01pm – 12:11pm Q&A

12:12pm – 12:30pm Scientific Session: Miscellaneous
Moderator: Carol C. Teitz MD
University of Washington, Seattle, WA
Objectives: Upon completion of this scientific session, learners should be able to:
  - Identify gender differences in outcomes after Achilles tendon ruptures
  - Examine Rugby Sevens as it relates to injury risk in its athletes

12:12pm – 12:17pm Paper 33: Gender Differences in Outcome After an Acute Achilles Tendon Rupture
Karin Gravare Silbernagel PT, ATC, PhD1, Katarin Nilsson-Helander MD, PhD2, Annelie Brorsson PT3, Bengt I. Eriksson MD, PhD4, Jon Karlsson MD, PhD5
1 University of the Sciences in Philadelphia, Philadelphia, PA
2 Kungsbacka Hospital, Kungsbacka, Sweden
3 University of Gothenburg, Gothenburg, Sweden
4 Sahlgrenska University Hospital Molndal, Molndal, Sweden

Victor Lopez Jr, DO1, Richard Ma MD2, Meryle G. Weinstein PhD3, James L. Chen MD, MPH4, Christopher M. Black MS1, Arun T. Gupta MD5, Erica D. Marcano MS6, Asran A. Allen MD7
1 Missouri Orthopaedic Institute, Columbia, MO
2 Steinhardt School of Culture, Education, and Human Development, New York, NY
3 Sportsmed Orthopaedic Group, San Francisco, CA
4 Albert Health Services, Medical Physical Therapy, Calgary, AB, Canada
5 Professional Orthopaedic and Sports Physical Therapy, New York, NY
6 Hospital for Special Surgery, New York, NY

Concurrent Session C – Room 615 – 617

11:12am – 11:21am Update: Pectoralis Major Repairs
Thomas L. Wickiewicz MD
Hospital for Special Surgery, New York, NY

11:22am – 11:50am Scientific Session: Rotator Cuff
Moderator: Brian R. Wolf MD, MS
University of Iowa Hospitals and Clinics, Iowa City, IA
Objectives: Upon completion of this scientific session, learners should be able to:
  - Identify factors that lead to surgical vs. non-surgical treatment of patients with rotator cuff tears
  - Discuss outcomes of surgical repair of partial thickness rotator cuff tears
  - Compare outcomes of surgical vs. non-surgical treatment for full-thickness rotator cuff tears

11:22am – 11:27am Paper 35: Surgical versus Non-surgical Management of Rotator Cuff Tears: Predictors of Treatment Allocation
Christopher Y. Kweon MD1, Joel J. Gagnier ND, PhD2, Christopher Robbins3, Asheesh Bedi MD4, James E. Carpenter MD5, Bruce S. Miller MD, MS6
1 University of Michigan, Ann Arbor, MI
2 Steadman Clinic, Vail, CO
3 Steadman Philippon Research Institute, Vail, CO

11:28am – 11:33am Paper 36: 2-Year Outcomes Following Arthroscopic Treatment for Partial-Thickness Tears of the Supraspinatus Tendon
Peter J. Millett MD, MSc1, Ryan J. Warth MD2, Marilee P. Horan BS3
1 Steadman Clinic, Vail, CO
2 Steadman Philippon Research Institute, Vail, CO

11:34am – 11:39am Paper 37: A Prospective Cohort Study of Patients Treated Surgically or Non-Surgically for Full-thickness Rotator Cuff Tears
Joel E. Gagnier ND, PhD1, Christoph J. Robbins1, James E. Carpenter MD1, Asheesh Bedi MD1, Bruce S. Miller MD, MS1
1 University of Michigan, Ann Arbor, MI

11:40am – 11:50am Q&A

11:51am – 12:01pm Update: Rotator Cuff in 2014
Stephen S. Burkhart MD
San Antonio Orthopedic Group, San Antonio, TX

12:02pm – 12:12pm Surgical Spotlight: How I Do a Rotator Cuff Repair
Peter J. Millett MD, MSc
Steadman Clinic, Vail, CO

12:13pm – 12:23pm Q&A

FRIDAY AFTERNOON general session begins at 2:00pm
**Conference Agenda**

**FRIDAY, JULY 11, 2014**

**General Session – Room 6 B/C**

**2:00pm – 2:27pm**

**Scientific Session: Shoulder – Biceps/Labrum**

*Moderator: John E. Conway MD*
Orthopedic Specialty Associates, Texas Health Physicians Group, Fort Worth, TX

**Objectives:** Upon completion of this scientific session, learners should be able to:

- Compare the biomechanics of suprapectoral vs. subpectoral biceps tenodesis
- Assess the differences in outcomes of suprapectoral vs. subpectoral biceps tenodesis
- Identify risks and potential complications of subpectoral biceps tenodesis

**2:00pm – 2:05pm**

**Paper 38: Arthroscopic Suprapectoral and Open Subpectoral Biceps Tenodesis: A Comparison of Location, Restoration of Length-Tension and Mechanical Strength Between Techniques**

Brian C. Werner MD1, Matthew L. Lyons MD1, Cody Evans BS1, Justin W. Griffin MD1, Joseph M. Hart PhD, ATC1, Mark D. Miller MD1, **Stephen F. Brockmeier MD**1

1University of Virginia, Charlottesville, VA

**2:06pm – 2:11pm**

**Paper 39: Arthroscopic Suprapectoral and Open Subpectoral Biceps Tenodesis: A Comparison of Minimum 2-Year Clinical Outcomes**

Brian C. Werner MD1, Matthew L. Lyons MD1, Cody Evans BS1, Russell Holzgreve BS, BBA1, Matthew L. Lyons MD1, Joseph M. Hart PhD, ATC1, Eric W. Carson MD1, David R. Diduch MD1, Mark D. Miller MD1, **Stephen F. Brockmeier MD**1

1University of Virginia, Charlottesville, VA

**2:12pm – 2:17pm**

**Paper 40: Subpectoral Biceps Tenodesis for the Treatment of Type Two and Four Slap Lesions**

Michael B. Gottschalk MD1, Spero G. Karas MD1, Timothy N. Ghattas MD1, Rachel Burdette ATC, OTC1

1Emory University, Atlanta, GA

**2:18pm – 2:23pm**

**Q&A**

**2:28pm – 2:36pm**

**Update: Making the Transition from Suprapectoral to Subpectoral Biceps Tenodesis – How to Avoid Potential Risks and Complications**

Anthony A. Romeo MD
Rush University Medical Center, Chicago, IL

**2:37pm – 3:04pm**

**Scientific Session: The Rest of the Shoulder**

*Moderator: Aaron J. Krych MD*
Mayo Clinic, Rochester, MN

**Objectives:** Upon completion of this scientific session, learners should be able to:

- Identify risk factors for Snapping Scapula Syndrome
- Compare outcomes of operative vs. non-operative treatment of midshaft clavicle fractures in the adolescent
- Discuss potential biomechanical consequences after coracoclavicular reconstruction with different techniques

**2:37pm – 2:42pm**

**Paper 41: Significant Association Between Snapping Scapula Syndrome and Anterior Angulation of the Superomedial Scapular Angle**

Peter J. Millett MD, MSc1, Sean Smith2, Charles Ho MD, PhD2, **Ulrich Spiegl MD**2, **Benton E. Heyworth MD**1, **Collin May MD**1, Sasha Carse MD1, Kyna Donohue BS1, Patricia Miller1, Dennis E. Kramer MD1, Mininder S. Kocher MD, MPH1, Donald S. Bae MD1

1Steadman Clinic, Vail, CO
2Steadman Philippon Research Institute, Vail, CO

**2:43pm – 2:48pm**

**Paper 42: Outcomes of Operative and Non-Operative Treatment of Adolescent Mid-Diaphyseal Clavicle Fractures**

Benton E. Heyworth MD1, Collin May MD1, Spero G. Karas MD1, Timothy N. Ghattas MD2, Rachel Burdette ATC, OTC1

1Emory University, Atlanta, GA
2OrthoAtlanta, Atlanta, GA

**2:49pm – 2:54pm**

**Paper 43: Biomechanical Consequences of Coracoclavicular Reconstruction Techniques on Clavicle Strength**

Ulrich Spiegl MD1, Sean Smith1, Simon A. Euler MD1, Grant Dornan1, Peter J. Millett MD, MSc1, **Coen A. Wijdicks PhD**1

1Steadman Philippon Research Institute, Vail, CO
2Steadman Clinic, Vail, CO

**2:55pm – 3:04pm**

**Q&A**

**3:05pm – 3:45pm**

**Symposium: CC Ligament Reconstruction – Tunnel Vision from the Legends**

*Moderator: Augustus D. Mazzocca MD, MS*
University of Connecticut Health Center, Farmington, CT

**Panelists:**

James R. Andrews MD
The Andrews Institute, Gulf Breeze, FL

John A. Bergfeld MD
Cleveland Clinic, Cleveland, OH

Russell F. Warren MD
Hospital for Special Surgery, New York, NY

**3:35pm – 3:45pm**

**Q&A**

Presenters are in **bold**.
At the age of 64, in her fifth and final attempt, Diana Nyad successfully fulfilled her life-long dream of completing the 110-mile swim from Cuba to Florida on September 2, 2013. Upon completing her grueling 53-hour journey, a breathless Nyad told the world, “I have three messages. One is we should never ever give up. Two is you are never too old to chase your dreams. And three is it looks like a solitary sport but it takes a team.”

Nyad has never been one to quit. In July of 2010, at the age of 60, she began her “Xtreme Dream” quest of swimming from Cuba to Florida, a task she had failed to finish 30 years previously. When asked her motivation, she replied, “Because I’d like to prove to the other 60-year-olds that it is never too late to start your dreams.” Nyad was unsuccessful in her quest in 2010, but in 2013 she swam to completion, earning standing ovations with a broad spectrum of audiences. She has written three books and speaks French and Spanish fluently. Nyad has never been one to quit. In July of 2010, at the age of 60, she began her “Xtreme Dream” quest of swimming from Cuba to Florida, a task she had failed to finish 30 years previously. When asked her motivation, she replied, “Because I’d like to prove to the other 60-year-olds that it is never too late to start your dreams.” Nyad was unsuccessful in her quest in 2010, and tried two more times in 2011 and 2012 before completing the swim in 2013. Back in the 1970s, Nyad was the greatest long-distance swimmer in the world. Her world records, such as circling Manhattan Island and crossing the 102.5 miles between the Bahamas and Florida, have led to inductions to many Halls of Fame, such as the International Women’s Sports Hall of Fame.

Nyad became a prominent sports broadcaster, filing compelling reports for NPR, ABC’s Wide World of Sports, Fox Sports, and the New York Times. She has written three books and speaks French and Spanish fluently. Nyad has also earned the reputation of a uniquely passionate and entertaining public speaker, earning standing ovations with a broad spectrum of audiences.
<table>
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<th>Time</th>
<th>Event</th>
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</thead>
</table>
| 11:22am – 11:27am | **Paper 49: Comparison of Transtibial and Tibial Inlay Techniques for Posterior Cruciate Ligament Reconstruction with an Average of 10-Year Follow-up**  
Ha-sung Kim MD¹, Jong Keun Seon MD¹, Eun Kyoo Song¹, Hyoungwon Park¹  
¹Chonnam National University Hwasun Hospital, Hwasun, Republic of Korea |
| 11:28am – 11:36am | **Update: PLC – Don’t Get Pinned in the Corner**  
Robert C. Schenck Jr, MD  
University of New Mexico, Albuquerque, NM |
| 11:37am – 11:46am | **Q&A**                                                                |
| 11:47am – 12:37pm | **Scientific Session: Patella Instability**  
**Moderator:** Elizabeth A. Arendt MD  
University of Minnesota, Minneapolis, MN  
**Objectives:** Upon completion of this scientific session, learners should be able to:  
- Compare TT-TGs in patients with and without recurrent patellar instability  
- Discuss the risk factors for failure of isolated soft tissue surgery in recurrent patellar instability  
- Identify the potential risks of MPFL reconstruction and understand how best to avoid them |
| 11:47am – 11:52am | **Paper 50: Quantification of Trochlea Dysplasia Via Computed Tomography: Assessment of Morphology Difference Between Control and Chronic Patellofemoral Instability Patients**  
Sangmin Ryan Shin¹, Anthony A. Schepsis MD², Akira Murakami MD², Cory M. Edgar MD, PhD³  
¹Brigham and Women’s Hospital, Chestnut Hill, MA  
²Boston University Medical Center, Boston, MA  
³University of Connecticut, Farmington, CT |
| 11:53am – 12:01pm | **Debate: Soft Tissue versus Bone – When and Why?**  
**Soft Tissue**  
Robin Vereeke West MD  
University of Pittsburgh Medical Center, Pittsburgh, PA |
| 12:02pm – 12:10pm | **Bone**  
Andrew J. Cosgarea MD  
Johns Hopkins Sports Medicine, Lutherville, MD |
| 12:11pm – 12:19pm | **Surgical Spotlight: Pearls of MPFL Reconstruction**  
David R. Diduch MD  
University of Virginia, Charlottesville, VA |
| 12:20pm – 12:37pm | **Q&A**                                                                |
| 12:38pm – 1:19pm | **Scientific Session: Patellofemoral Pain and Arthritis**  
**Moderator:** Cory M. Edgar MD  
University of Connecticut, Farmington, CT  
**Objectives:** Upon completion of this scientific session, learners should be able to:  
- Evaluate risk factors for patellofemoral pain  
- Discuss contributing factors to patellofemoral pain and best approaches to treatment  
- Identify options for treatments in young patients with patellofemoral arthritis |
| 12:38pm – 12:43pm | **Paper 51: Prospective Hip and Knee Strength Measures Associated with Increased Risk for Patellofemoral Pain Incidence**  
Kristen Herbst DO¹, Kim D. Barber Foss MS, ATC¹, Timothy E. Hewett PhD, FACSM¹, Denver T. Stanfield MD¹, Gregory D. Myer PhD, CSCS¹  
¹Mercy Hospital Anderson / University of Cincinnati, Cincinnati, OH  
²Cincinnati Children’s Hospital Medical Center, Cincinnati, OH  
³The Ohio State University Sports Health & Performance Institute, Columbus, OH  
⁴Wellington Orthopedic and Sports Medicine, Cincinnati, OH |
| 12:44pm – 12:52pm | **Update: How to Make Patellofemoral Pain Less Painful**  
Christian Lattermann MD  
University of Kentucky, Lexington, KY |
| 12:53pm – 1:03pm | **Current Concepts: Young Patients with Patellofemoral Arthritis – What Are Our Options?**  
Diane L. Dahm MD  
Mayo Clinic, Rochester, MN |
<p>| 1:04pm – 1:19pm | <strong>Q&amp;A</strong>                                                                |</p>
<table>
<thead>
<tr>
<th>Time</th>
<th>Concurrent Session B – Room 618 – 620</th>
<th>Concurrent Session C – Room 615 – 617</th>
</tr>
</thead>
</table>
| 11:11am – 11:16am | Scientific Session: Arthroscopy Skills Development with a Surgical Simulator: A Comparative Study in Orthopaedic Surgery Residents  
**Moderator:** Brian J. Rebolledo MD  
**Authors:** Alejandro Leali MD, Jennifer Hammann, Anil S. Ranawat MD  
**Institutions:** Hospital for Special Surgery, New York, NY |  
| 11:17am – 11:25am | Educating Ourselves – The Convergence of Technology and Live Activities  
**Moderator:** Gregg T. Nicandri MD  
**Institution:** University of Rochester, Rochester, NY |  
| 11:26am – 11:34am | Q&A |  
| 12:01pm – 12:06pm | Scientific Session: Healthcare and Politics – Bridging the Gap  
**Moderator:** Michelle G. Carlson MD  
**Institution:** American Academy of Orthopaedic Surgeons, Washington, DC |  
| 12:17pm – 12:22pm | CPGs and AUCs: The Imperative and the Challenge  
**Moderator:** Bruce J. Sangeorzan MD  
**Institution:** Harborview Medical Center, Seattle, WA |  
| 12:33pm – 12:38pm | Socioeconomics and ICD 10: What Lies Ahead?  
**Moderator:** R. Dale Blasier MD  
**Institution:** Arkansas Children's Hospital, Little Rock, AR |  
| 12:49pm – 1:04pm | Q&A |  
| 11:11am – 11:16am | Scientific Session: What the Team Physician Should Know – Hand  
**Moderator:** Michelle G. Carlson MD  
**Institution:** Hospital for Special Surgery, New York, NY |  
| 11:17am – 11:25am | Update: Common Hand Injuries – When Can We Let Them Back?  
**Moderator:** Michelle G. Carlson MD  
**Institution:** Hospital for Special Surgery, New York, NY |  
| 11:26am – 11:34am | Q&A |  
| 11:35am – 11:50am | NATA Exchange Lecture: Implementing the NATA Position Statement on the Conservative Management and Prevention of Ankle Sprains in Athletes  
**Moderator:** Thomas W. Kaminski PhD  
**Institution:** University of Delaware, Newark, DE |  
| 11:51am – 12:06pm | Scientific Session: What the Team Physician Should Know – Foot and Ankle  
**Moderator:** Bruce J. Sangeorzan MD  
**Institution:** Harborview Medical Center, Seattle, WA |  
| 12:01pm – 12:16pm | Political Landscape of the Future of Healthcare  
**Moderator:** Jamie Gregorian Esq  
**Institution:** American Academy of Orthopaedic Surgeons, Washington, DC |  
| 12:17pm – 12:32pm | Socioeconomics and ICD 10: What Lies Ahead?  
**Moderator:** R. Dale Blasier MD  
**Institution:** Arkansas Children's Hospital, Little Rock, AR |  
| 12:49pm – 1:04pm | Q&A |  
| 11:11am – 11:16am | Paper 52: Return to Play Following Metacarpal Fractures in Football Players  
**Moderator:** Brian Etiér MD, Anthony J. Scillia MD, Darin D. Tessier MD, Kyle Aune MPH, Benton A. Emblom MD, Jeffrey R. Dugas MD, E. Lyle Cain MD  
**Institutions:** American Sports Medicine Institute, Birmingham, AL, Andrews Sports Medicine and Orthopaedic Center, Birmingham, AL |  
| 11:17am – 11:25am | Q&A |  
| 11:35am – 11:50am | NATA Exchange Lecture: Implementing the NATA Position Statement on the Conservative Management and Prevention of Ankle Sprains in Athletes  
**Moderator:** Thomas W. Kaminski PhD  
**Institution:** University of Delaware, Newark, DE |  
| 11:51am – 12:06pm | Scientific Session: What the Team Physician Should Know – Foot and Ankle  
**Moderator:** Bruce J. Sangeorzan MD  
**Institution:** Harborview Medical Center, Seattle, WA |  
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**Institution:** American Academy of Orthopaedic Surgeons, Washington, DC |  
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**Institution:** Harborview Medical Center, Seattle, WA |  
| 12:33pm – 12:38pm | Socioeconomics and ICD 10: What Lies Ahead?  
**Moderator:** R. Dale Blasier MD  
**Institution:** Arkansas Children's Hospital, Little Rock, AR |  
| 12:49pm – 1:04pm | Q&A |
### Saturday, July 12, 2014

<table>
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<tr>
<th>Time</th>
<th>Session</th>
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| 11:57am | Paper 54: The Effect of Peroneus Brevis Tendon Anatomy on Stability of Fractures at the Fifth Metatarsal Base  
|         | Lutul D. Farrow MD, Parisa M. Morris MD, Annie G. Francois MD, Randall E. Marcus MD  
|         | 1Cleveland Clinic Sports Health Center, Garfield Heights, OH  
|         | 2Canyon Orthopaedic Surgeons, Ltd, Phoenix, AZ  
|         | 3University of Arizona, Tucson, AZ  
|         | 4University Hospitals Case Medical Center, Cleveland, OH  
| 12:03pm | Update: Common Foot Injuries – When Can We Let Them Back?  
|         | Annunziato Amendola MD  
|         | University of Iowa Hospitals and Clinics, Iowa City, IA  
| 12:12pm | Q&A  
| 12:21pm | Scientific Session: What the Team Physician Should Know – Spine  
|         | Moderator: Robert G. Watkins III, MD  
|         | Watkins Spine Group, Marina del Rey, CA  
|         | Objectives: Upon completion of this scientific session, learners should be able to:  
|         | • Examine lumbar spine injury as a predictor of outcomes in NFL athletes  
|         | • Identify common spine injuries, treatment options, and timing for return to play  
| 12:27pm | Update: Common Spine Injuries: When Can We Let Them Back?  
|         | Robert G. Watkins III, MD  
|         | Watkins Spine Group, Marina del Rey, CA  
| 12:36pm | Q&A  

### Sunday, July 13, 2014

**NEW THIS YEAR:**

**Sunday Instructional Courses**

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
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| 6:45am  | Instructional Courses  
| 6:30am  | Continental Breakfast 6th Floor Foyer  
| 8:15am  | AMSSM Exchange Lecture: Concussion Issues and Return to Play  
|         | Cindy J. Chang MD  
|         | University of California at Berkeley, Berkeley, CA  
| 8:31am  | Scientific Session: Concussion  
|         | Moderator: Marci A. Goolsby MD  
|         | Hospital for Special Surgery, New York, NY  
|         | Objectives: Upon completion of this scientific session, learners should be able to:  
|         | • Identify the issues surrounding concussion and criteria for return to play  
|         | • Discuss the concept of genetic predisposition to prolonged recovery after concussion  
|         | • Analyze a proposed protocol for return to activity following concussion  
| 8:37am  | Paper 56: Supporting the Concept of Genetic Predisposition to Prolonged Recovery Following a Concussion  
|         | Jane McDevitt PhD, Ryan Tierney PhD, Jacqueline Phillips MS, John Gaughan PhD, Joseph S. Torg MD, Evgeny Krynetskiy PhD  
|         | 1Temple University, Philadelphia, PA  
| 9:07am  | Scientific Session: Stress Fractures  
|         | Moderator: Bruce S. Miller MD, MS  
|         | University of Michigan, Ann Arbor, MI  
|         | Objectives: Upon completion of this scientific session, learners should be able to:  
|         | • Identify risk factors for lower extremity stress fractures  
|         | • Analyze treatment options and timing for return to play following stress fractures in athletes  
| 9:07am  | ACSM Exchange Lecture: Pharmacologics in Bone Healing  
|         | Aurelia Nattiv MD  
|         | University of California at Los Angeles, Los Angeles, CA  
| 9:08am  | Q&A  
| 9:08am  | Q&A  
| 9:08am  | Q&A  

Presenters are in **bold**.
9:07am – 9:12am  
**Paper 58: Landing Error Scoring System (LESS) Items are Associated with the Incidence Rate of Lower Extremity Stress Fracture**

Kenneth L. Cameron PhD, MPH, ATC1, Karen Y. Peck MEd, ATC1, Brett D. Owens MD1, Steven J. Svoboda MD1, Lindsay J. DiStefano PhD, ATC2, Stephen W. Marshall BSc, DAppSc, PhD2, Sarah de la Motte PhD, MPH, ATC3, Anthony I. Beutler MD3, Darin A. Padua PhD, ATC3

1Keller Army Hospital, West Point, NY
2University of Connecticut, Storrs, CT
3University of North Carolina, Chapel Hill, NC

9:13am – 9:31am  
**Case-Based Symposium: Stress Fractures – How Do We Get Our Athletes Back Quickly?**

**Moderator:** Bruce S. Miller MD, MS  
University of Michigan, Ann Arbor, MI

**Panelists:**
Lisa R. Callahan MD  
Hospital for Special Surgery, New York, NY
Timothy L. Miller MD  
The Ohio State University, Columbus, OH
Aurelia Nattiv MD  
University of California at Los Angeles, Los Angeles, CA

9:32am – 9:38am  
**Q&A**

9:39am – 10:13am  
**Scientific Session: Prevention**

**Moderator:** Mary Lloyd Ireland MD  
University of Kentucky, Lexington, KY

**Objectives:** Upon completion of this scientific session, learners should be able to:
- Evaluate techniques to potentially reduce hamstring strain recurrence
- Discuss the efficacy of the FIFA 11+ injury prevention program
- Identify strategies for ACL prevention in both the adult and pediatric population

9:39am – 9:44am  
**Paper 59: Eccentric Strengthening at Long Muscle Lengths Reduces Hamstring Strain Recurrences: Results of Long-Term Follow-up**

Timothy F. Tyler MS, PT, ATC1, Brandon Schmitt DPT, ATC1, Joshua M. Gellert DPT1, Malachy P. McHugh PhD2

1PRO Sports Physical Therapy, Scarsdale, NY
2Lenox Hill Hospital, New York, NY

9:45am – 9:50am  
**Paper 60: The Efficacy of the FIFA 11+ Injury Prevention Program in the Collegiate Male Soccer Player**

Holly J. Silvers MPT1, Bert R. Mandelbaum MD2, Ola Adeniji MS1, Stephanie Insler BA1, Mario Bizzini PT3, Jiri Dvorak MD3  
1Santa Monica Sports Medicine Foundation, Santa Monica, CA
2Santa Monica Orthopaedic and Sports Medicine, Santa Monica, CA
3Schulthess Clinic, Zurich, Switzerland

9:51am – 9:56am  
**Update: ACL Prevention – Adult**

Lynn Snyder-Mackler PhD  
University of Delaware, Newark, DE

9:57am – 10:02am  
**Update: ACL Prevention – Pediatric**

Timothy E. Hewett PhD, FACSM  
The Ohio State University Sports Health & Performance Institute, Columbus, OH

10:03am – 10:13am  
**Q&A**

10:14am – 10:42am  
**Scientific Session: ACL-Nerve Complications**

**Moderator:** Daniel C. Wascher MD  
University of New Mexico, Albuquerque, NM

**Objectives:** Upon completion of this scientific session, learners should be able to:
- Examine the effects of femoral nerve block on subjective outcomes following ACL reconstruction
- Identify characteristics of infrapatellar branch saphenous nerve injury after ACL reconstruction
- Discuss potential complications following femoral nerve blocks

10:14am – 10:19am  
**Paper 61: The Effect of Femoral Nerve Block on Strength and Patient-Reported Outcomes Following ACL Reconstruction**

Robert A. Magnussen MD1, Kristy Pottkotter PT, SCS1, Stephanie DiStasi1, Mark V. Paterno PhD, PT, ATC1, Samuel Clayton Wordeman BS1, Laura Schmitt PhD, PT1, David C. Flanagan MD1, Christopher C. Kaeding MD1, Timothy E. Hewett PhD, FACSM4  
1The Ohio State University, Columbus, OH
2Sports Medicine Biodynamics Center, Cincinnati, OH
3University of Cincinnati, Cincinnati, OH
4The Ohio State University Sports Health & Performance Institute, Columbus, OH

10:20am – 10:25am  
**Paper 62: Incidence and Characterization of Injury to the Infrapatellar Branch of the Saphenous Nerve After ACL Reconstruction: A Prospective Study**

Steven B. Cohen MD1, Michael G. Ciccotti MD2, Christopher C. Dodson MD1, Fotios P. Tjoumakaris MD3, John P. Salvo MD4, Paul A. Marchetto MD4, Ryan A. Watson BA, Matthew Robert Salminen BS1, Russell R. Flato BA1, Daniel Francis O’Brien BA2  
1Rothman Institute, Media, PA
2Rothman Institute, Philadelphia, PA
3Rothman Institute, Egg Harbor Township, NJ
4Rothman Institute, Marlton, NJ

10:26am – 10:31am  
**Paper 63: Femoral Nerve Blockade is Associated with Persistent Strength Deficits at Six Months Post ACL Reconstruction in Pediatric and Adolescent Patients**

Amy L. McIntosh MD1, Diane L. Dahm MD1, Ali Ashraf MD1, Tianyi David Luo1  
1Mayo Clinic, Rochester, MN

10:32am – 10:42am  
**Q&A**
10:43am – 11:13am  Scientific Session: ACL Graft Dynamics
Moderator: Jason L. Dragoo MD
Stanford University, Palo Alto, CA
Objectives: Upon completion of this scientific session, learners should be able to:
• Discuss biomechanical factors that may lead to increase strain in the ACL
• Analyze biomechanical loads seen in ACL grafts with current anatomic ACL reconstruction techniques
• Examine factors that affect incorporation of a soft tissue graft into a bone tunnel

10:43am – 10:53am  Cabaud Memorial Award: Does Limited Internal Femoral Rotation Increase Peak ACL Strain During a Simulated Pivot Landing?
Melanie L. Beaulieu MSc, Youkeun K. Oh PhD, Asheesh Bedi MD, James A. Ashton-Miller PhD, Edward M. Wojtys MD
1University of Michigan, Ann Arbor, MI

10:54am – 10:59am  Paper 64: ACL Fibers Inserting on the Lateral Intercondylar Ridge Carry the Greatest Loads – Are Modern Anatomic Femoral Tunnel Positions Too Low?
Danyal H. Nawabi MD, Carl Imhauser PhD, Scott Tucker BA, Joseph Nguyen MPH, Thomas L. Wickiewicz MD, Andrew Pearle MD
1Hospital for Special Surgery, New York, NY

11:00am – 11:05am  Paper 65: Aircast Award for Basic Science: The Effect of Dynamic Changes in ACL Graft Force on Soft Tissue ACL Graft-Tunnel Incorporation
Richard Ma MD, Michael Schaefer MD, Tina Chen MS, Marco Sisto BS, Clifford Voigt MD, Joseph Nguyen MPH, Lilly Ying VS, Xiang-Hua Deng MD, Scott A. Rodeo MD
1Missouri Orthopaedic Institute, Columbia, MO
2Hospital for Special Surgery, New York, NY

11:06am – 11:13am  Q&A

11:13am  Meeting Adjourns
All posters are available for viewing from Thursday morning until Saturday afternoon in the Exhibit Hall Foyer on level 4 of the Washington State Convention Center and online at http://eposter.abstractsonline.com/aossm/viewer/
<table>
<thead>
<tr>
<th>Posters</th>
<th>Title</th>
<th>Authors</th>
<th>Institutions</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Thromboembolic Events After Arthroscopic Knee Surgery: Increased Risk at High Altitude</td>
<td>Jared J. Tyson MD, Brian Bjerke, James Genuario MD, Thomas J. Noonan MD</td>
<td>Steadman Hawkins Clinic, Greenwood Village, CO</td>
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<td>3</td>
<td>High Psychological Competitive Ability Is Related to Incidence of Anterior Cruciate Ligament Injury in High School Female Athletes</td>
<td>Masahiro Kosaka MD, Junsuke Nakase MD, PhD, Yoshinori Ohashi MD, Hitoaki Numata MD, Yosuke Shima MD, PhD, Katsushiko Kitaoka MD, PhD, Hiroto Tsuchiya MD, PhD, Kanazawa University, Kanazawa, Japan, KKR Hokuriku Hospital, Kanazawa, Japan, Kijima Hospital, Kanazawa, Japan</td>
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<td>4</td>
<td>Does Relief from Intra-Articular Anesthetic Injection Predict Outcome After Hip Arthroscopy?</td>
<td>William Engasser, Scott Kuzma, Aaron J. Krych MD, Bruce A. Levy MD</td>
<td>Mayo Clinic, Rochester, MN</td>
</tr>
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<td>5</td>
<td>Return to Play and Long-Term Clinical Outcomes After Suture Anchor Repair of Thumb Ulnar Collateral Ligament Injuries in Collegiate Football Athletes</td>
<td>Brian C. Werner MD, Michael M. Hadeed BS, Matthew Lawrence Lyons MD, David R. Diduch MD, Abhinav Bobby Chhabra MD</td>
<td>University of Virginia, Charlottesville, VA</td>
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<td>6</td>
<td>Increased Posterior Tibial Slope and its Association with ACL Rupture in the Pediatric Population</td>
<td>Michael P. O'Malley MS, MD, Matthew David Milewski MD, Matthew Solomito BSBE, Andrew Ewerteman, Carl W. Nissen MD</td>
<td>University of Connecticut Health Center, Farmington, CT, Connecticut Children's Medical Center, Farmington, CT</td>
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<td>7</td>
<td>Incidence of Culture-Positive Propionibacterium Acnes in Shoulder Arthroscopy</td>
<td>Paul M. Sethi MD, James R. Sabetta MD, Samantha J. Stuek, Storm V. Horine, Katherine B. Vadadsi MD, R. Timothy Greene MD, James G. Cunningham MD, Seth R. Miller MD</td>
<td>Orthopaedic &amp; Neurosurgery Specialists, Greenwich, CT, Greenwich Hospital, Greenwich, CT</td>
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<td>8</td>
<td>Surgical Trends in the Treatment of Superior Labrum Anterior and Posterior (SLAP) Lesions of the Shoulder. Analysis of Data from the American Board of Orthopaedic Surgery Certification Examination Database</td>
<td>Brendan Mackinno-Patterson MD, Robert A. Creighton MD, Jeffrey T. Spang MD, Ganesh V. Kamath MD</td>
<td>University of North Carolina, Chapel Hill, NC</td>
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<tr>
<td>9</td>
<td>The Hill-Sachs Lesion: Volumetric Modeling Using Three-Dimensional Computed Tomography Reconstructions</td>
<td>Andrew Bernhardson MD, Matthew T. Provencer MD</td>
<td>Naval Medical Center San Diego, Coronado, CA, Massachusetts General Hospital, Boston, MA</td>
</tr>
<tr>
<td>10</td>
<td>Isolated Pectoralis Minor Release for Scapular Dyskinesis</td>
<td>Matthew T. Provencer MD, Petar Golijanin BS, Daniel Gross MD, Kevin J. Campbell BS, Tistia Gaston PA, Shawn Anthony MD, MBA</td>
<td>Massachusetts General Hospital, Boston, MA, Steadman-Philippon Research Institute, Vail, CO</td>
</tr>
<tr>
<td>11</td>
<td>Incidence, Mechanisms, and Severity of Game-Related High School Football Injuries Across Artificial Turf Systems of Various Infill Weight</td>
<td>Michael Clinton Meyers PhD</td>
<td>Idaho State University, Pocatello, ID</td>
</tr>
</tbody>
</table>
13 A Prospective Multi-Center Clinical Trial to Compare Efficiency, Accuracy and Safety of the VisionScope Imaging System Compared to MRI and Diagnostic Arthroscopy
John W. Xerogeanes MD, Marc R. Safran MD, Bryan Huber MD, Bert R. Mandelbaum MD, William Robertson MD, Ralph A. Gambardella MD
1Emory Orthopaedic Center, Atlanta, GA
2Stanford University, Palo Alto, CA
3Mansfield Orthopaedics, Morrisville, VT
4Santa Monica Orthopaedic and Sports Medicine, Santa Monica, CA
5University of Texas, Southwestern Medical Center, Richardson, TX
6Kerlan-Jobe Orthopaedic Clinic, Los Angeles, CA

14 Comparison of Glenohumeral Contact Pressures and Contact Areas After Posterior Glenoid Reconstruction with Iliac Crest or Distal Tibia Osteochondral Allograft
1Rush University Medical Center, Chicago, IL
2Catholic University, Rome, Italy
3Massachusetts General Hospital, Boston, MA

15 Biomechanical Comparison of Arthroscopic Single- and Double-Point Repair Techniques for Acute Bony Bankart Lesions
Ulrich Spiegl MD, Jason Smith, Jocelyn Todd, Garrett A. Coatney, Coen A. Wijdicks PhD, Peter J. Millett MD, MSc
1Steadman Phillippon Research Institute, Vail, CO

16 Muscle Injury Induced at the Time of Acute and Chronic Rotator Cuff Repair
Max Davis BA, Patrick L. Stafford BS, Matthew Jergenson, Asheesh Bedi MD, Christopher Mendias PhD, ATC
1University of Michigan, Ann Arbor, MI

17 Complications from a Distal Bicep Repair: A Meta-Analysis of a Single Incision versus Double Incision Surgical Technique
Nader Toossi MD, Nirav Hasmukh Amin MD, Douglas L. Cernyik MD, Morgan H. Jones MD
1Drexel University, Philadelphia, PA
2Cleveland Clinic, Cleveland, OH

18 The Minimal Clinical Important Difference (MCID) and Patient Acceptable Symptomatic State (PASS) for the Modified Harris Hip Score and Hip Outcome Score among Patients Undergoing Surgical Treatment for Femoroacetabular Impingement
Jaskarndip Chahal MD, FRCSC, Geoffrey S. Van Thiel MD, MBA, Richard C. Mather MD, Simon Lee MPH, Michael J. Salata MD, Shane Jay Nho MD, MS
1Toronto Western Hospital, Toronto, ON, Canada
2Rockford Orthopedic Associates, Rockford, IL
3Duke University, Durham, NC
4Rush University Medical Center, Chicago, IL
5University Hospital, Shaker Heights, OH

19 Validation of the Microsoft Kinect as a Portable and Inexpensive Screening Tool for Identifying ACL Injury Risk
Aaron D. Gray MD, Jeff M. Marks, Erik E. Stone, Michael C. Butler, Marjorie Skubic PhD, Seth L. Sherman MD
1University of Missouri, Columbia, MO

20 Non-Anatomical Anterior Cruciate Ligament Remnants Do Not Contribute Dynamic Knee Stability: Quantitative Measurement of the Pivot Shift Test
Kanto Nagai MD, Ryosuke Kuroda MD, PhD, Daishuke Araki MD, PhD, Yuichiro Nishizawa MD, Takehiko Matsushita MD, PhD, Yuichi Hoshino MD, PhD, Tomoyuki Matsumoto MD, PhD, Koji Takayama MD, PhD, Kouki Nagamune PhD, Masahiro Kurozaka MD, PhD
1Kobe University, Kobe, Japan
2Kobe Kaisei Hospital, Kobe, Japan
3University of Fukui, Fukui, Japan

21 Mechanoreceptor Re-Innervation following Allograft versus Autograft Anterior Cruciate Ligament Reconstruction
Jason L. Dragoo MD, Roberto Valladares, Simon W. Young MBChB
1Stanford University, Palo Alto, CA
23 The Protective Effect of Kevlar® Socks Against Hockey Skate Blade Injuries: A Biomechanical Study
Aaron Nauth MD,1 Mina Aziz MD,2 Matthew Tsuji MD,1 Daniel B. Whelan MD,2 John S. Theodoropoulos MD, FRSCC,3 Rad Zdero PhD2
1University of Toronto, Toronto, ON, Canada
2St. Michael’s Hospital, Toronto, ON, Canada
3Mount Sinai Hospital, Toronto, ON, Canada

24 Effect of Surgical Technique on Growth-Plate Violation in Simulated Adolescent ACL Reconstruction
Michael C. Kachmar1, Stephen J. Piazza PhD1, Dov A. Bader MD2
1Penn State University, University Park, PA
2Penn State Orthopaedics & Sports Medicine, State College, PA

25 ACL-RSI and KOOS Measures Predict Normal Knee Function after ACL-SPORTS Training
Kathleen White PT, DPT1, Joseph Zeni PT, PhD1, Lynn Snyder-Mackler PhD1
1University of Delaware, Newark, DE

26 Kinematics and Contact Stress Analysis of Pediatric Anterior Cruciate Ligament Reconstructions: Do the All-Epiphyseal and Complete Transphyseal Reconstructions Restore Anterior and Rotational Stability?
Moira McCarthy MD1, Hamid Jahandar BS1, Peter D. Fabricant MD, MPH1, Kyle Stone MS1, James Boorman-Taggart BS1, Daniel W. Green MD1, Carl Imhauser PhD1, Frank A. Cordasco MD, MS1
1Hospital for Special Surgery, New York, NY

27 Donor-Site Recovery After Anterior Cruciate Ligament Reconstruction with Contralateral Autogenous Patellar-tendon Graft
K. Donald Shelbourne MD1, Matthew B. Beck MD1
1Shelbourne Knee Center, Indianapolis, IN

28 Asymmetric Knee Kinematics and Kinetics After ACL Reconstruction in Adolescent Athletes
Matthew D. Milewski MD1, Sylvia Ounpuu MSc1, Carl W. Nissen MD1, Erin J. Garibay MS1, Nicholas Gianpetruzzi DPT1, Danielle Suprenant DPT1, Jessica R. Woods BSBE1
1Connecticut Children’s Medical Center, Farmington, CT

29 Smoking Increases the Risk of Early Meniscus Repair Failure
Ryan Blackwell1, Laura Schmitt PhD, PT2, David C. Flanigan MD1, Robert A. Magnusson MD1
1The Ohio State University, Columbus, OH
2Cincinnati Children’s Hospital Medical Center, Cincinnati, OH

30 Prospective Evaluation of Meniscal Allograft Transplantation Revision: A Minimum of 2-Year Follow-up
Peter Nissen Chalmers MD1, Adam Blair Yanke MD1, Rachel M. Frank MD1, Brian J. Cole MD, MBA1
1Rush University Medical Center, Chicago, IL

31 A Multi-Center Reliability Test of a Novel Osteochondritis Dissecans Radiographic Feature Classification System
Eric J. Wall MD1, John Polousky MD2, Kevin G. Shea MD3, James L. Carey MD4, Theodore J. Ganley MD5, Nathan L. Grimm BS5, John Jacobs6, Eric W. Edmonds MD7, Emily A. Eismann MS7, Gregory D. Myer PhD, CSCS7
1Cincinnati Children’s Hospital Medical Center, Cincinnati, OH
2Rocky Mountain Youth Sports Medicine Institute, Centennial, CO
3Penn Orthopaedics, Cincinnati, OH
4Intermountain Orthopaedics, Boise, ID
5Intermountain Orthopaedics, Centennial, CO
6University of Utah, Salt Lake City, UT
7Rady Children’s Specialists San Diego, San Diego, CA

32 Prospective Comparative Study of ACL Reconstruction Between Using Hamstring Autograft and Soft Tissue Allograft
Eun Kyoo Song1, Jong Keun Seon MD1, Hasung Kim1
1Chonnam National University Hwasun Hospital, Hwasun, Republic of Korea
Instructional Courses Now Available on Sunday Morning 6:45am – 8:15am
IC 101
CASE-BASED Anatomic Anterior Cruciate Ligament Reconstruction: Current Concepts and Case-Based Approaches
Freddie H. Fu MD, Allen F. Anderson MD, Charles H. Brown MD, Constance R. Chu MD
Anterior cruciate ligament (ACL) injuries are one of the most common sports injuries for which surgery is performed. Facilitating optimal outcomes after ACL reconstruction is a topic of intense interest among orthopaedic surgeons and researchers alike. This instructional course will feature both didactic and interactive, case-based discussion sections. For the first half of the course, participants will hear lectures on the critical evaluation of outcomes after ACL reconstruction, the anatomic concept and operative techniques for ACL reconstruction, and objective methods for evaluating graft healing after ACL reconstruction and early recognition of osteoarthritis using magnetic resonance imaging and optical coherence tomography, among other methods. The second part of the course will feature an interactive and evidence-based discussion of cases pertaining to ACL reconstruction. Participants will be encouraged to interact with the faculty and share their own experiences in practice.

Objectives:
At the completion of this course, participants should be able to:
- Gain an understanding of how to critically evaluate outcomes after ACL reconstruction
- Understand the anatomic concept and operative techniques for ACL reconstruction
- Understand biology of graft healing and methods to assess ACL reconstruction, as well as early recognition of osteoarthritis
- Develop or improve clinical thought processes for ACL cases

AOSSM gratefully acknowledges Smith & Nephew for the educational grant in support of this instructional course.

IC 102
Shoulder Instability
James E. Carpenter MD, Matthew T. Provencher MD, Dean C. Taylor MD, Brett D. Owens MD
Through the use of illustrative cases demonstrating each of the objectives below, the faculty will expand upon the importance of a comprehensive evaluation both clinically and radiographically to arrive at the correct diagnosis. While there is debate about the management of subtle and moderate bone loss, an in-depth analysis of outcomes will be presented with particular emphasis on failed instability operations. The audience will be engaged in the decision-making process as the cases and lectures unfold to demonstrate where critical factors may influence the operative and non-operative decision-making process.

Objectives:
Upon completion of this course, participants should be able to:
- Develop a logical, evidence-based algorithm to evaluate patients with acute and chronic shoulder instability
- Understand the appropriate clinical and radiographic evaluations necessary to formulate a strategic treatment plan
- Identify critical clinical and radiographic factors that influence treatment of shoulder instability, including, but not limited to, glenoid and humeral bone loss, proprioceptive factors, and the role of the scapula in shoulder instability

AOSSM gratefully acknowledges Flexion for the educational grant in support of this instructional course.

IC 103
CASE-BASED The Sport-Specific Evaluation of Hip Pain – Scope or Stay Away?
Christopher M. Larson MD, Bryan T. Kelly MD, Asheesh Bedi MD, John C. Clohisy MD
This course will provide a case-based, sports-specific review of the surgical treatment of hip pain in the contact, overhead, running, pivoting, and dancing athlete. With the significant advances in arthroscopic hip surgery in recent years, the technical complexity and limits of the intra-articular and extra-articular hip pathology that can be treated have expanded. This growth, however, has been accompanied by parallel challenges of accurate diagnosis and appropriate indications for the treatment of mechanical hip pathology in the athlete. Unique preoperative, intraoperative, and rehabilitation considerations will be discussed for the in-season and post-season athlete. The treatment of symptomatic extra-articular pathology and compensatory injuries of the spine, pelvis, and peri-articular musculature in athletes with hip disorders will also be reviewed. Contraindications to arthroscopic surgical treatment and its limitations will also be discussed.

Objectives:
Upon completion of this course, participants should be able to:
- Understand the sport-specific patterns of hip injuries and principles of surgical treatment for hip pathology in the contact, overhead, running, pivoting, and dancing athlete
- Understand the unique preoperative diagnostic and intraoperative technical considerations in the treatment of hip pain in the athlete with sport-specific demands
- Recognize symptomatic extra-articular impingement and compensatory injuries of the peri-articular musculature in athletes with symptomatic hip impingement and understand the current and evolving treatment options
- Understand the current limitations and relative contra-indications to arthroscopic surgical treatment and the role for open surgical treatment of prearthritic hip pathology in the athlete

AOSSM gratefully acknowledges Smith & Nephew for the educational grant in support of this instructional course.

IC registrants – including those who register on-site – can login at www.sportsmed.org to view course materials in their MyAOSSM tab.
All 26 instructional course handouts are also available for just $150! Visit www.sportsmed.org or the Registration Desk for details.
**IC 104**  
**Management of Extensor Mechanism Injuries**  
Lutul D. Farrow MD, Richard D. Parker MD, Theodore F. Schlegel MD,  
Scott G. Kaar MD

This course will address the most common injuries affecting the knee extensor mechanism. The speakers will address the biology of quadriceps and patellar tendinopathy. Various techniques for both non-operative and operative treatment of extensor mechanism tendinopathy will be presented with a special emphasis on the competitive athlete. Surgical management of acute quadriceps and patellar tendon disruptions will be discussed. Surgical algorithms and treatment options for management of both chronic extensor mechanism disruption and failed repair will be presented. Complex reconstruction techniques for these injuries will be discussed. A comprehensive review of fixation options for patella fractures will also be covered. Post-surgical rehabilitation protocols and return to play criteria will be presented. Several cases will be presented to illustrate the thought process involved in management of extensor mechanism injuries.

**Objectives:**
Upon completion of this course, participants should be able to:
- Discuss both current and emerging techniques and treatment rationale for the management of quadriceps and patellar tendinopathy
- Discuss the variable treatment options available for repair of extensor mechanism disruptions
- Analyze the different surgical options utilized to address different types of patellar fractures
- Understand the treatment algorithm for both chronic and revision extensor mechanism disruptions

**IC 105**  
**Adolescent Knee: ACL, Tibial Spine, Meniscus, and Patellofemoral**  
Mininder S. Kocher MD, MPH, Matthew J. Matava MD,  
Theodore J. Ganley MD, Kevin G. Shea MD

The purpose of this course is to equip the clinician with contemporary algorithms that can be utilized to treat the common knee injuries encountered in growing athletes. This course will examine the pathoanatomy, diagnosis, and treatment of commonly encountered conditions, including ACL injury, patellar instability, osteochondritis dissecans, and meniscal pathology unique to this immature population of athletes.

**Objectives:**
Upon completion of this course, participants should be able to:
- Understand traditional treatment concepts, as well as the basis for emerging trends in the treatment of ACL injury, patellar instability, osteochondritis dissecans, and meniscal pathology in growing athletes
- Recognize the pathoanatomy of these conditions and the basis for emerging surgical algorithms
- Implement treatment strategies in one’s practice that are consistent with contemporary treatment protocols

**IC 106**  
**Osteoarthritis**  
John C. Richmond MD, Dennis C. Crawford MD, Annunziato Amendola MD,  
Thomas M. DeBerardino MD

This instructional course will review the treatment of the athlete with osteoarthritis of the knee from non-operative care to complex surgeries, including osteotomies and uni-compartmental arthroplasties. The course will also look forward to potential new treatments including the implantable “knee spring.”

**Objectives:**
Upon completion of this course, participants should be able to:
- Incorporate into his/her practice an evidence-based treatment algorithm for the non-operative care of OA of the knee
- Understand the role and technique of osteotomy and uni-compartmental arthroplasty in the management of osteoarthritis of the knee in athletes
- Understand the development cycle for new technologies in the treatment of osteoarthritis of the knee

**IC 107**  
**Elbow Injuries in the Throwing Athlete**  
Christopher S. Ahmad MD, Michael G. Cicotti MD, Jeffrey R. Dugas MD,  
Felix H. Savoie III, MD

This course will address elbow ligament injuries common to the throwing athletes. Emphasis will be placed on biomechanics of injury, diagnosis, and treatment. New surgical MCL reconstruction techniques will be presented, including the docking and hybrid fixation techniques. Associated injuries, including valgus extension overload and olecranon stress fractures will be covered. Complex issues such as avulsion injuries in young athletes and complications of MCL reconstruction, including evaluation and management of pain during the MCL reconstruction rehabilitation process, will be covered. Several simple and challenging cases will be presented to the faculty to illustrate and provide practical information to attendees.

**Objectives:**
Upon completion of this course, participants should be able to:
- Understand the unique biomechanics affecting elbow ligament injuries in throwing athletes
- Accurately recognize and diagnose elbow MCL injuries, valgus extension overload, and olecranon stress fractures
- Understand standard MCL reconstruction techniques
- Understand new MCL reconstruction techniques
- Diagnose and treat olecranon stress fractures
- Diagnose and treat MCL injuries in youth athletes
- Diagnose and manage complications associated with MCL reconstruction

AOSSM gratefully acknowledges Smith & Nephew for the educational grant in support of this instructional course.
IC 201  Room 602 – 603

CASE-BASED Revision ACL – Why and How?
David R. Diduch MD, Gehron Treme MD, Asheesh Bedi MD, Claude T. Moorman III, MD

A failed ACL reconstruction is an emotional problem for both patients and surgeons, with major consequences for competitive athletes. Using a case-based approach, we will cover the common reasons ACL reconstructions fail and how to best perform revision ACL surgery.

Objectives:
Upon completion of the course, participants should be able to:
• Determine the cause of ACL graft failure
• Identify revision strategies and understand techniques that optimize success
• Understand expected outcomes to counsel patients

IC 202  Room 611 – 612

Rotator Cuff Controversies
William N. Levine MD, Christopher S. Ahmad MD, Augustus D. Mazzocca MD, MS, Brian J. Cole MD, MBA

Controversial issues surrounding rotator cuff tears will be addressed during this course. The speakers will address the biology of cuff healing past, present, and future, including the role of PRP, stem cells and scaffolding, when not to operate, when to operate, and the options comparing techniques such as single versus double row along with outcomes. The work up with history, physical exam, and imaging will help the participant appreciate their influence on cuff problem decision making. Case presentations will address controversies related to the biceps, decompression, SLAPs, dislocations, and include cost issues. The AAOS guidelines for cuff problems will be included.

Objectives:
Upon completion of this course, participants should be able to:
• Understand an approach to dealing with these controversial issues, when and who to fix with which technique
• Appreciate the cost implications and the outcome expectations
• Appreciate where we are headed with cuff problems in the future

IC 203  Room 604

Foot and Ankle Injuries
John Jasko MD, Kevin Willits MD, Annunziato Amendola MD, Robert C. Schenck MD

Surveillance data from high school, college, and professional sports reveal injuries of the foot and ankle are the most common injuries occurring during practice and competition. While often categorized as “just a sprain,” these injuries can often cause significant limitations of performance and rank second only to knee injuries as cause of missed games or matches.

The goal of this course is to dissect common injuries of the foot and ankle frequently encountered by the sports medicine physician. We will discuss the mechanism of injury, diagnosis, treatment, and return-to-play guidelines of turf toe, 5th metatarsal fracture, Achilles tendon injury, ankle sprains, and syndesmosis injuries. We will outline the relevant anatomy, surgical and nonsurgical treatment options, current data, and controversies.

Objectives:
Upon completion of this course, participants will be better able to:
• Diagnose and treat foot and ankle injuries
• Counsel players, coaches on implications for return to play and performance

IC 204  Room 606

CASE-BASED Patellofemoral Dislocation: A Case-Based Approach to the Most Commonly Asked Questions
Christian Lattermann MD, David DeJour MD, Daniel W. Green MD, Elizabeth A. Arendt MD

This instructional course is designed to be a case-based discussion of the most common clinical problems encountered with patients after traumatic dislocation of the patella. Specifically, non-operative versus operative treatment in first time and chronic patella dislocation will be addressed. Additionally, we will present a critical review of the literature regarding risk factors for non-operative and operative treatment failure and approaches to failed patellofemoral surgery. Specific problems in the young patient population with open growth plates will be reviewed.

Objectives:
Upon completion of this course, participants should be able to:
• Understand the current state of the art for the treatment of traumatic and non-traumatic patella dislocations based upon an evidence-based approach
• Understand different techniques, including MPFL reconstruction and distal realignment procedures, and current treatment algorithms
• Comfortably and efficiently evaluate and consider current factors to identify patients at high risk for re-dislocation and the expected results of current treatment algorithms in children and adolescents as well as adults
• Recognize the approaches to identify previous surgical failure and possible treatment strategies

AOSSM gratefully acknowledges Breg for the educational grant in support of this instructional course.
IC 205
The Growing Pitcher’s Arm: What Aren’t We Doing Right?
Joseph H. Guettler MD, Felix H. Savoie III, MD, Jeffrey R. Dugas MD

Accepted guidelines aimed at preventing shoulder and elbow injuries in youth and high school pitchers have been implemented in most baseball leagues across the United States. Despite these measures, the incidence of arm injuries in young pitchers continues to rise, as does the need for surgical intervention. This instructional course will review the unique anatomy and pathophysiology of shoulder and elbow injuries in this young population, as well as contemporary treatment algorithms that are based on the latest research and literature. Injury prevention strategies based on AOSSM’s latest research, as well as effective in-season and off-season training regimens, will also be highlighted.

Objectives:
Upon completion of this course, participants should be able to:
• Understand the special issues relating to growing throwers, as well as the latest evolving concepts in injury prevention
• Recognize the unique anatomy and pathophysiology of shoulder and elbow injuries in growing pitchers
• Diagnose these injuries and be familiar with the latest conservative and operative treatment algorithms
• Be familiar with effective in-season and off-season training regimens aimed at reducing injuries

IC 206
2014: What Drugs Are Your Athletes Using?
Edward R. McDevitt MD, John A. Lombardo MD, John Paul H. Rue MD

Since the ancient Greek Olympics athletes have turned to drugs to improve their performance. Many of these drugs have significant dangers that are ignored by athletes seeking a competitive advantage. Through the ages athletes have turned to substances such as alcohol, amphetamines and marijuana for fun or relaxation. Today there is a plethora of legal and illegal substances being used by your athletes.

Objectives:
Upon completion of this course, participants should be able to:
• Discuss the history of athletic drug use from the first Olympics to present day
• Identify “legal” drugs that are easily available to athletes at their local mall or the Internet
• Recognize dangerous drugs such as Molly, Spice and designer synthetic marijuana
• Develop guidelines on how to discuss drug use with their team, since their athletes might be using some of these substances, most unproven and many dangerous

IC 207
CASE-BASED MRI-Arthroscopy Correlation
Marc R. Safran MD, Garry Gold MD, Hollis G. Potter MD, Russell F. Warren MD, Stephen F. Brockmeier MD

This course presents the basics of MRI and arthroscopy of each major joint, using illustrative cases to compare MRI and arthroscopic images and correlate them. The course is structured anatomically, focusing on the shoulder, knee, hip, and elbow, with emphasis on potential “pitfalls” and MRI interpretation “pearls.” It employs an educational model that is predictive in nature and encourages audience interaction, supported by a format that is largely case-based. For each case that is introduced, faculty present the specific MRI findings, with the focus on providing the surgeon a “road map” for what he or she will need to look for during arthroscopy. Course attendees are asked to evaluate the range of possible diagnoses and how they are aligned to the two physician populations—orthopaedists and radiologists. Concluding discussion focuses on the arthroscopic findings and an evaluation as to how they correlate to the findings predicated on the reading of the MRI.

Objectives:
Upon completion of this course, participants should be able to:
• Recognize MRI findings of common injuries and conditions of the knee, shoulder, hip, and elbow
• Optimize their utilization of MRI imaging to improve patient outcomes
• Identify essential knowledge and tools to enhance communication between the orthopaedist and radiologist populations

IC 208
Social Media 101: Why You Should Join the Conversation and How to Get Started
C. David Geier Jr, MD, J. Martin Leland MD, Kevin M. Marberry MD

This instructional course, a collaboration of the AOSSM Public Relations and Technology Committees, intends to educate orthopaedic surgeons and other sports medicine providers about social media. Orthopaedic surgeons will discuss how it can be incorporated into an effective marketing strategy and how it can be used to educate athletes, coaches, and parents. We will also introduce the most popular social media sites, especially Twitter and Facebook, and demonstrate the basics to get started.

Objectives:
Upon completion of this course, participants should be able to:
• Understand how social media can be effective for educating the public about sports injuries and treatments
• Understand how social media can be effective for marketing a sports medicine practice
• Understand the basics of Twitter and Facebook, the key components of each, and how they can be incorporated into a social media strategy
• Discover technology, applications, and software that can help physicians communicate with the public and their patients
**IC 301**  
**CASE-BASED** An Evidence-Based Approach to Complex and Multi-Ligamentous Injuries of the Knee: MCL, PCL, PLC  
Robert F. LaPrade MD, PhD, Bruce A. Levy MD, Scott C. Faucett MD, Nicholas I. Kennedy BS  
This case-based course will provide an evidence-based overview of the evaluation and management of complex and multi-ligament injuries of the knee, specifically of the medial collateral ligament (MCL), posterior cruciate ligament (PCL), and posterolateral corner (PLC). Emphasis will be placed on current and relevant basic science, anatomy, biomechanics, clinical evaluation, complications, imaging, and objective and subjective clinical outcomes. Additionally, lecturers will compare and contrast indications and contraindications for repair and reconstruction using the most up-to-date surgical techniques, including the indications for primary repairs or anatomic reconstructions of the superficial MCL, PCL, and PLC. Case presentations will highlight the latest controversies in multi-ligament injuries. Attendees will receive essential practical information that will be immediately transferrable to clinical practice.  
**Objectives:**  
Upon completion of this course, participants should be able to:  
- Understand current and relevant concepts in MCL, PCL, and PLC anatomy and biomechanics  
- Determine the extent of an acute or chronic multi-ligament injury of the knee using appropriate clinical and radiographic evaluations to form a strategic treatment plan  
- Recognize the indications and contraindications for and understand the techniques of surgical repair and reconstruction of complex ligamentous injuries to the knee and identify factors that may influence treatment outcomes  

AOSSM gratefully acknowledges [Smith & Nephew](https://www.smithnephew.com) for the educational grant in support of this instructional course.

**IC 302**  
**CASE-BASED** Clavicle/AC Joint  
Nikhil N. Verma MD, Augustus D. Mazzocca MD, MS, Carl J. Basamania MD  
This course will review current trends and controversies in the management of acute clavicle fractures, as well as acute and chronic injuries to the AC joint. Indications for operative intervention, particularly in the overhead versus contact/collision sport athlete, will be emphasized. Discussion of evolving operative techniques will facilitate better understanding of repair and reconstructive alternatives in the athlete, both for return to play and the controversy of hardware removal for sport participation. The format of this instructional course will be via case-based presentations complemented by didactic instruction.  
**Objectives:**  
Upon completion of this course, participants should be able to:  
- Recognize indications and become aware of surgical techniques for fixation of different types of clavicle fractures in athletes  
- Understand the management considerations involved in repairing the acute AC joint injury in the pediatric, recreational, and elite athlete  
- Appreciate the clinical decision-making involved in chronic AC joint injury management  

AOSSM gratefully acknowledges [Smith & Nephew](https://www.smithnephew.com) for the educational grant in support of this instructional course.

**IC 303**  
**Hand and Wrist: Injuries in the Athlete: What the Team Physician Needs to Know**  
Timothy R. McAdams MD, Thomas R. Hunt III, MD, Steven S. Shin MD  
Common hand and wrist injury clinical cases will be presented by faculty. We will include injuries encountered by the general sports medicine team physician. Decisions regarding return to play and when to refer to a hand specialist will be discussed. Clinical cases will be reviewed by the speakers, all of whom are currently involved in the care of professional athletes.  
**Objectives:**  
Upon completion of this course, participants should be able to:  
- Understand the anatomy and pathophysiology of common hand and wrist injuries in the athlete  
- Make decisions concerning when to refer a hand or wrist case to a specialist or to manage the case him/herself  
- Make educated return-to-play decisions in the best interest of the athlete

**IC 304**  
**Meniscus Injuries: From Soup to Nuts**  
Darren L. Johnson MD, Mark D. Miller MD, Matthew J. Matava MD  
The purpose of this instructional course is to review the treatment of all meniscal injuries and their presentation and diagnosis, including physical exam and MRI, as well as the best treatment evidence. This will be done in a case-based format. Surgical techniques of meniscal excision, meniscal body, and root repair, including all-inside suturing, outside-in suturing, and inside-out suturing, will be highlighted via video. In addition, meniscal repair enhancement techniques using fibrin clot, PRP, and other strategies will be discussed. Rehabilitation of these surgeries and return-to-play issues after meniscal repair will be discussed. Patients in need of a meniscal allograft reconstruction will also be highlighted. The course concludes with discussion regarding return to level one sports after meniscal allograft reconstruction.  
**Objectives:**  
Upon completion of this course, participants should be able to:  
- Diagnose and plan a treatment for all meniscus injuries  
- Understand different alternative techniques for meniscal excision  
- Plan for meniscal repair using different techniques, including meniscal root repair, all-inside meniscal suturing, outside-in meniscal suture, and inside-out meniscal suturing  
- Recognize rehabilitation plans with return to play after meniscal repair  
- Understand which patients will benefit most from meniscal allograft reconstruction  

AOSSM gratefully acknowledges [Smith & Nephew](https://www.smithnephew.com) for the educational grant in support of this instructional course.
**IC 305**  
**CASE-BASED** Diagnosis and Management of Juvenile Osteochondritis (OCD)  
Carl W. Nissen MD, Allen R. Anderson MD, Theodore J. Ganley MD, Mark V. Paterno PhD, PT

This course will utilize a case-based approach to explain the current steps in the diagnosis, treatment, and rehabilitation of juvenile OCDs in the knee and elbow of young athletes. The treatment of OCDs in skeletally immature athletes is evolving due to an increase in the understanding of the condition and the prognostic factors associated with its presentation and etiology. The ROCK (Research on Osteochondritis Dissecans of the Knee) has developed several validated and reliable classification systems to assist in the care of these lesions – these will be presented as a part of the course.

**Objectives:**
Upon completion of this course, participants should be able to:
- Understand the steps necessary in diagnosing OCDs of the knee and elbow in the skeletally immature
- Understand the current classification systems that exist for the care and management of OCDs of the knee
- Understand the current knowledge as it relates to the care and rehabilitation of OCDs in the knee and elbow

**IC 306**  
Game Day Management of Primary Care Issues  
James Kinderknecht MD, Andrew Nichols MD, Marc Goolsby MD

This course will review several of the medical conditions encountered when caring for athletes at an event. Topics will include evaluation and management of traumatic brain injuries, heat related/environmental issues, muscle cramps, and other common medical conditions. Also, this course will provide information regarding nutritional guidelines for athletes on game day.

**Objectives:**
Upon completion of this course, participants should be able to:
- Evaluate and manage traumatic brain injuries and determine appropriate return to play
- Recognize and manage heat related illness
- Evaluate and manage exercise induced asthma
- Provide nutritional guidelines for athletes

**IC 307**  
**CASE-BASED** Articular Cartilage: The Four Most Common Types of Cartilage Damage You See in Practice – When and How to Treat Them  
Andreas H. Gomoll MD, Brian J. Cole MD, MBA, Jack Farr II, MD, Christian Lattermann MD

This course will discuss cartilage disease based on common patient presentations, including OCD, patellofemoral pain, post-meniscectomy pain, and incidental defects found during arthroscopy. We will focus on patient selection and indications, leaving ample time for discussion. Traditionally, many instructional courses on cartilage repair have emphasized techniques over patient selection and indications. The faculty members have all been involved in cartilage instructional courses over the years and feel that a new approach might be beneficial. We will discuss cartilage repair starting with four broad groups of typical patients seen in the office that might have cartilage defects that require intervention. Within each group, we will present 2–3 case examples ranging from early stage to more advanced disease. Most surgeons at this time are quite familiar with the techniques, and therefore only a brief overview will be provided, leaving an opportunity to discuss the more challenging aspects of patient selection and indications for surgery.

**Objectives:**
Upon completion of this course, participants should be able to:
- Correctly identify the most common causes for cartilage-related knee symptoms
- Identify surgical candidates and select the appropriate treatment option

**IC 308**  
**CASE-BASED** Ethics in Sports Medicine  
Warren R. Dunn MD, MPH, C. Griffin Trotter MD, PhD, Stephen C. Weber MD, Christopher J. Wahl MD

This course will address a number of unique ethical challenges encountered with the care of the injured athlete. This IC will use a case-based format to illustrate various ethical issues in sports medicine dealing with informed consent, return-to-play decisions, confidentiality, autonomy, and physician advertising, among others. Participants will develop an approach to these controversial areas based on the principles of medical ethics.

**Objectives:**
Upon completion of this instructional course, learners should be able to:
- Understand the general principles of medical ethics and methods to incorporate these principles into a sports medicine practice
- Illustrate several unique clinical situations relevant to the practice of sports medicine that necessitate various ethical considerations
IC 401  
**CASE-BASED** Sports Medicine: Hero and Goat

Mark D. Miller MD, Darren L. Johnson MD, Matthew T. Provencher MD, Stephen F. Brockmeier MD

Through a series of actual knee and shoulder cases, the faculty will present their best and worst cases for a variety of procedures. Emphasis will be placed on what went right and what went wrong and “lessons learned” in the process. Two faculty will present knee cases and the other two faculty will present shoulder cases in an alternating format. Time permitting, the following cases will be presented:

- Knee: ACL Reconstruction
- Shoulder: Instability
- Knee: Multiple Ligament Injury
- Shoulder: Rotator Cuff Tear
- Knee: Articular Cartilage Defect
- Shoulder: Acromioclavicular Injuries

**Objectives:**
Upon completion of this course, participants should be able to:

- Discuss possible complications associated with knee ligament reconstruction and identify how to avoid and/or address them
- Discuss possible complications associated with the surgical treatment of shoulder instability and identify how to avoid and/or address them
- Discuss possible complications associated with knee articular cartilage treatment and identify how to avoid and/or address them
- Discuss possible complications associated with shoulder rotator cuff tears and identify how to avoid and/or address them

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IC 402  
**Dilemmas of the Throwing Shoulder**

John M. Tokish MD, Charles A. Thigpen PhD, PT, ATC, James R. Andrews MD, Richard K. N. Ryu MD

This instructional course will discuss the various pathologies in the throwing shoulder. These include the role of retroversion and soft tissue aspects, along with physical examination signs and treatments that relate to the dilemma.

**Objectives:**
Upon completion of this course, participants should be able to:

- Understand the various pathologies that present in the throwing shoulder
- Understand physical examination and diagnostic features of the throwing shoulder
- Understand treatment of the throwing shoulder

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IC 403  
**CASE-BASED** The Active Hip – From Hip Dysplasia to FAI and In-Between: An Approach to Open and Arthroscopic Management

Omer Y. Mei-Dan MD, Cecilia Pascual-Garrido MD, Marc J. Philippon MD, Victor M. Ilizaliturri MD, Rafael J. Sierra MD

This course presents the emerging techniques and current controversies in the management of the young active hip, from hip dysplasia to FAI and the various pathologies in between. With the rapid growth of hip arthroscopy and the attractiveness of less invasive surgery, some young adult patients with hip dysplasia may be candidates for hip arthroscopy and other minimally invasive procedures. However, indications are very selective and should follow comprehensive clinical and radiographic evaluation and well-established treatment strategy, as poor outcomes with rapidly progressive arthritis may occur. Isolated PAO for hip dysplasia has yielded successful outcomes in the past, but mostly in less active patient populations compared to those who currently present to hip preservation sports centers. These patients typically have activity-related pain, with intra-articular pathology and/or FAI, thus emphasizing again that hip arthroscopy is a viable supplement tool in many of these cases. The course will discuss the role of arthroscopy in hip dysplasia alone or in association with FAI. Indications for PAO or femur de-rotational osteotomy, with or without hip arthroscopy, will be reviewed. Emphasis will be given to cutting-edge techniques addressing cartilage damage in the young active hip.

**Objectives:**
Upon completion of this course, participants should be able to:

- Recognize the typical presentation of a patient with hip dysplasia as determined by radiological measurements, specifically those verified on CT
- Understand the principals of surgical treatment used to address hip dysplasia
- Evaluate the current limitations and relative contraindications to arthroscopic hip surgery and the role of open surgical treatment of hip dysplasia
- Understand an approach that is utilized in evaluating patients with concurrent hip dysplasia and FAI, including preoperative planning and surgical treatment options (pelvic osteotomies, femur de-rotational osteotomies)

AOSSM gratefully acknowledges *Smith & Nephew* for the educational grant in support of this instructional course.
The Thomas A. Brady Award is given annually to an orthopaedic surgeon who has been dedicated to excellence in sports medicine at the local level, with local athletes, since 1999.

Dr. Brady is the father of sports medicine in central Indianapolis. He began his work in sports medicine in 1944, working as team physician for the Third Air Force Football Team. In 1968, he presented a plan to the Indiana State Medical Association to organize a sports medicine committee. The plan was approved and Dr. Brady served as the first chairman. In the 1980s, he set up a walk-in clinic in the basement of Methodist Hospital to treat high school athletes. On Friday nights he would attend two or three football games, traveling around the city to make sure that these athletes had good medical care.

Upon his retirement in the late 1980s, Dr. Brady was orthopaedic consultant to 16 public, 5 catholic and 1 private high school in Indianapolis, as well as the athletic teams at DePauw University and Indiana Central College.

Dr. Brady passed away in 2011.

The Hugheston Award is given annually for the most outstanding paper appearing in The American Journal of Sports Medicine (AJSM) in the prior year to the award. Jack C. Hugheston MD, the founder of AJSM, is one of the pioneers in sports medicine. Early on he recognized the need for immediate diagnosis and surgical correction of ligamentous injuries about the knee in order to achieve optimum results. He performed numerous cadaver and clinical studies to develop the concept of anatomical repair of injured structures in the knee and developed a classification system based upon his clinical observations and studies.

Dr. Hugheston served as President of AOSSM from 1974–75, Editor of AJSM from 1972–1990, and Chairman of AJSM from 1990–2001. He also received the Mr. Sports Medicine Award from AOSSM in 1976.

Dr. Hugheston was instrumental in organizing other physicians throughout the country to form AOSSM. In the late 1970s he developed what became AJSM, which evolved into the pre-eminent journal for orthopaedic sports medicine in the world. For these two achievements alone he will be forever recognized as one of those having a true dedication to the field of sports medicine.

The Cabaud Memorial Award is given annually to the best manuscript submitted that pertains to hard or soft tissue biology, in vitro research, laboratory or "bench-type" research, or in vivo animal research.

This award was established in 1986 to honor the life and contributions of Henry Edward ("Ed") Cabaud III, MD. Dr. Cabaud graduated from the University of Southern California School of Medicine, after which he served as a US Army Battalion Surgeon in Germany. He received the Outstanding Resident Award from Letterman Army Medical Center and later joined the staff at Letterman Army Institute of Research. In 1984 he was awarded the US Armed Forces Meritorious Service Medal for research. He also received the Merck Sharp & Dohme Award for research on the repair and replacement of ligaments and tendons with prosthetic devices. He became an Associate Professor of Orthopaedics at the University of California at San Francisco, a Fellow of the American Academy of Orthopaedic Surgeons and was a member of AOSSM.

Dr. Cabaud died of cancer in 1985 at the age of 40. He was known as a gifted surgeon, brilliant researcher, and devoted family member. He had a legion of accomplishments for one so young and touched the lives of many through his varied activities.

The Cabaud Memorial Award is given annually to the best manuscript submitted that pertains to hard or soft tissue biology, in vitro research, laboratory or “bench-type” research, or in vivo animal research.
Don H. O’Donoghue MD has been called the Father of Sports Medicine in the United States. His early work on knee injuries led to the development of the subspecialty and started the interest in the care of athletes.

Dr. O’Donoghue was born in Iowa in 1901 and received his medical degree from the University of Iowa. He was the first orthopaedic resident at the University of Oklahoma in 1929 and stayed on to work as a pediatric orthopaedist in his early years. Dr. O’Donoghue was Professor and Chairman of the Department of Orthopaedics at the University of Oklahoma, a position he held until 1974. In 1962, he published the first book in the United States on sports medicine, with three subsequent printings into the 1980s.

Dr. O’Donoghue chaired the American Academy of Orthopaedic Surgeons’ Committee on Sports Medicine. In 1972, he and 25 other orthopaedists formed AOSSM, and Dr. O’Donoghue became its first president. His legacy is the foresight he had to recognize the importance of a specific approach to define athletic injuries by careful, systematic evaluation and then to treat them by anatomic repair or reconstruction. His pioneering work in the anatomy and biology laboratories led him to an understanding of the healing properties of ligaments and the mechanics of the knee. Dr. O’Donoghue theorized that anatomic repair of the ligamentous injury might give better results than non-surgical treatments and he recognized the importance of this area of orthopaedic knowledge.

The O’Donoghue Sports Injury Research Award is given annually to the best overall paper that deals with clinical-based research or human in vivo research.

**GEORGE D. ROVERE AWARD**

**2014 Recipient**

Freddie H. Fu MD

The Rovere Award is given annually to an individual AOSSM member to recognize his or her contribution to sports medicine education over the years and is selected by the AOSSM Education Committee.

It commemorates George D. Rovere MD, Chair of the AOSSM Education Committee, who died in 1988. As Education Chair, Dr. Rovere inaugurated the Society’s Instructional Course program, introduced at the 1985 AOSSM Annual Meeting and was a leader in the AOSSM Conference on Strength Training and the Prepubescent thunderbirds ice hockey team, as well as numerous area high school teams.

*Bolded names indicate fellow or resident award recipient.*
EXCELLENCE IN RESEARCH AWARD

2014 Recipient
Posterior Cruciate Ligament Graft Fixation Angles: Biomechanical Evaluation for Single- and Double-Bundle Reconstruction
Nicholas I. Kennedy BS, Mary T. Goldsmith MSc, Scott C. Faucett MD, MSc, Garrett A. Coatney, Lars Engebretsen MD, PhD, Coen A. Wijdicks PhD

This award is given to the best paper submitted in any category to the Awards Committee with a primary author under the age of 40 at the time of the Annual Meeting. The award consists of $2,000 honorarium, award certificate, presentation of the paper at the AOSSM Annual Meeting, and consideration of publication in The American Journal of Sports Medicine.

SYSTEMATIC REVIEW AWARD

2014 Recipient
Transfemoral Versus Independent Drilling Techniques for Anterior Cruciate Ligament Reconstruction: A Systematic Review, Meta-analysis, and Meta-regression
Jonathan C. Riboh MD, Vic Hasselblad PhD, Jonathan A. Godin MD, Richard C. Mather III, MD

The Systematic Review award is given to the best systematic review paper submitted to the journal during a calendar year. All systematic review papers are considered, and the award is determined by the editors of The American Journal of Sports Medicine. This award was established to encourage submission of high-quality systematic review papers, which add to the current knowledge of sports medicine.

The Systematic Review Award is given to the author(s) of a paper chosen by a panel of AJSM editors and reviewers and receives $5,000 and a plaque.

HERODICUS AWARD

2014 Recipient
Meniscal Repair with Concurrent Anterior Cruciate Ligament Reconstruction: Operative Success and Patient Outcomes at 6-Year Follow-up
Robert W. Westermann MD, Rick W. Wright MD, Laura J. Withrow MS, Brian R. Wolf MD, MS on behalf of MOON Knee Group

The Herodicus Award is given annually by the Herodicus Society. It is awarded to the best resident paper accepted for the AOSSM Annual Meeting Program.

HALL OF FAME AWARDS

2014 Recipients
Steven P. Arnoczky DVM, Bruce Reider MD, Timothy N. Taft MD

In 2001, AOSSM established the Hall of Fame to honor members of the orthopaedic sports medicine community who have contributed significantly to the specialty and set themselves apart. Being inducted into the Hall of Fame is one of the highest honors given to a Society member. Nominations for the Hall of Fame are submitted by AOSSM members and then selected by the Hall of Fame committee. Recipients receive an award plaque, special presentation at the AOSSM Annual Meeting and picture on the AOSSM Hall of Fame display at the Annual Meeting.

*Bolded names indicate fellow or resident award recipient.
**Social Activities**

**Thursday, July 10, 2014**

*Ride the Duck Tour of Seattle*

10:00am – 11:30am

If you registered and have a ticket for the tour, it departs directly from the Sheraton and will drop off guests at their hotel or any location of choice in downtown Seattle on your return. You must have your ticket provided in your registration packet in order to board the cruise. No refunds are available upon cancellation.

**Welcome Reception**

6:30pm – 8:00pm

Join us outdoors on the Plaza outside Level 4 of the Washington State Convention Center for this year’s Welcome Reception. Everyone and their families are welcome to attend.

**Saturday, July 12, 2014**

* A Night at the Seattle Aquarium

6:00pm – 9:30pm

Come spend the evening at one of the most unique and best-kept waterfront secrets in Seattle – The Seattle Aquarium. AOSSM will have private and complete access to the entire aquarium, including mammal feedings, the famous Under Water Dome with a 400,000-gallon fish tank, otter and seal shows, and a chance to get up close and personal with the many fascinating creatures that dwell in the tide pools of Washington State’s outer coast and Puget Sound’s inland sea. In addition, we will have a steel drum band for entertainment on the outside patio.

A buffet dinner and bar will be available throughout the evening. The aquarium is approximately a 15-minute ride from the Sheraton and the buses will depart the Sheraton and Grand Hyatt at 5:45pm. Please bring your tickets included in your registration packet for entrance to the aquarium. Additional tickets may be available at the AOSSM Registration Desk.

AOSSM gratefully acknowledges [JO Global](https://www.joglobal.com) for their support of the Annual Meeting.
FDA STATEMENT

Some drugs or medical devices demonstrated at the Annual Meeting have not been cleared by the US Food and Drug Administration (FDA) or have been cleared by the FDA for specific purposes only. 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.

AOSSM policy provides that “off label” uses of a drug or medical device may be described in AOSSM’s CME activities so long as the “off label” use of the drug or medical device is also specifically disclosed (ie, it must be 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.

AOSSM Raffle Drawing

(For Attendees Only)
Remember to enter this year’s Raffle drawing, to be held Thursday, Friday and Saturday in the Exhibit Hall. Prizes include $250 Amex gift cards and Seattle themed gifts.
The products displayed in the technical exhibits area and the uses suggested by the manufacturer do not represent an endorsement nor imply that the products have been evaluated or approved by AOSSM. For your convenience, the technical exhibiting companies are listed alphabetically and the product/services they offer are identified by the following codes:

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Join Us Next Year in Orlando
July 9 – 12, 2015
Early Bird Exhibitor Registration Deadline is November 14, 2014
Join your colleagues for a 90-minute, lunch-time, learning session where you can become more familiar with the latest products, services, and newest findings. Complimentary registration for the Industry Symposia Sessions is available at the AOSSM Registration Desk. Lunch is also provided and pre-registration is encouraged. The afternoon shoulder scientific session resumes at 2:00pm.

The following symposia are not presented, endorsed, or otherwise sanctioned by the American Orthopedic Society for Sports Medicine and NO CME CREDIT WILL BE AWARDED for participation. The view and techniques presented are not necessarily those of AOSSM or its members. AOSSM assumes no responsibility or liability for the use or misuse of any information, materials, or techniques described, and it makes no warranty, guarantee, or representation as to the absolute validity or sufficiency of any information provided.

**IS306 Osiris Therapeutics, Inc.** Room 306

**Cartilage Restoration with Cartiform® Cryopreserved Allograft Cartilage**

C. Thomas Vangsness Jr, MD, Jack Farr MD, Philip Davidson MD, Alla Danilkovitch PhD

A novel, viable cartilage allograft for the treatment of focal articular cartilage defects will be introduced. Dr. Danilkovitch will outline the Cartiform product concept and scientific evidence for clinical success.

The surgeon panel will:
- Discuss the scientific basis and technologies for cartilage restoration
- Outline the expansion of the treatment algorithm for articular lesions using Cartiform
- Present a surgical technique for Cartiform implantation
- Review a series of cases using Cartiform

A panel discussion will follow the presentations, along with Q&A from the audience.

**IS307 Smith & Nephew, Inc.** Room 307

**Understanding the Elements of a Pre-Surgical Plan and its Importance to a Hip Labral Repair and Femoroacetabular Impingement (FAI)**

Asheesh Bedi MD
Christopher M. Larson MD

This is an interactive didactic session analyzing individual cases and the importance of pre-surgical planning. We will highlight sport specific evaluation of hip impingement and improving the accuracy of arthroscopic FAI correction.

**IS308 Zimmer** Room 308

**Early Intervention Solutions for Joint Preservation**

David N.M. Caborn MD

Novel Strategies for the Treatment of Articular Cartilage Injuries featuring Gel-One® Cross-linked Hyaluronate and DeNovo NT® Natural Tissue Graft Joint Preservation featuring Subchondroplasty™

- Principles of Procedure
- Patient Selection
- Surgical Technique
- Clinical Results & Case Discussion

**IS309 Pivot Medical/Stryker** Room 309

**Hip Preservation Strategies**

Shane Nho MD, MS, Jason Snibbe MD, Struan Coleman MD, James Genuario MD

Pivot Medical invites you to participate in a special hip preservation symposium. Listen to our distinguished surgeon panel and gain valuable peer to peer insights into current topics surrounding hip preservation including:

- Different portal placement approaches for access
- Labral management concepts
- Capsule management strategies

**IS310 Arthrex, Inc.** Room 310

**Minimally Invasive ACL Reconstruction using Quadriceps Tendon or Single Semitendinosis GraftLink Technique**

John W. Xerogeanes MD
Thomas M. DeBerardino MD, COL (Ret.)

Drs. Xerogeanes and DeBerardino will discuss the least invasive ACL reconstruction featuring unique graft options, including quadriceps tendon or single semitendinosis. Minimally invasive hamstring and quadriceps harvest techniques and instruments will be featured, as well as anatomic socket creation with FlipCutter and adjustable cortical fixation with ACL TightRope. Technique rationale, surgical pearls and improved patient outcomes will be discussed. New all-inside meniscal repair with SpeedCinch will also be presented.
Thirty-minute theater sessions will provide you with up-to-date information from industry about the products, equipment, and services they offer via demonstrations or presentations in the Exhibit Hall.

A complete listing of the Industry Theater Sessions is also available in the Exhibitor Directory, and on meeting signage.

**Preregistration is NOT Necessary**

### THURSDAY

**Zetroz**
10:30am – 11:00am  
**Theater A**

**Long Duration Ultrasound Treatments to Augment Recovery in Musculoskeletal Injuries**

Ultrasound therapy has been used to treat musculoskeletal conditions for 50 years. A limiting factor in the therapeutic benefit of ultrasound has been the logistic complications associated with receiving treatment. Recently, a decade of animal model data and clinical research have inspired advancements in ultrasound device design and given rise to a new generation of portable, wearable, long duration ultrasound devices that are making daily ultrasound treatments practical and accessible. The vanguard of this generation is **sam**, an ultrasound device that is easy to use, yet has strong therapeutic benefit. This talk will review the science and technology behind sam, its revolutionary features, and discuss ongoing research on the applications of long duration ultrasound.

### FRIDAY

**Ceterix Orthopaedics**
8:00am – 8:30am  
**Theater A**

**Case Discussion: Complex Meniscus Tears Made Simple**
Asghar Husain MD, Scott C. Faucett MD

The Ceterix NovoStitch™ suture passer allows physicians to pass a vertical stitch through the meniscus from the tibial side to the femoral side, creating a circumferential compression stitch. Join a case discussion about complex, radial, horizontal or meniscal root tears.

**Össur Americas**
9:00am – 9:30am  
**Theater B**

**Functional Healing of Cartilage Repairs Featuring the Rebound Cartilage**
Adam William Anz MD

Innovative functional healing concepts will be presented specific to cartilage procedures with the introduction of new treatment protocols designed to improve patient outcomes.

### FRIDAY (cont.)

**Modernizing Medicine**
10:30am – 11:00am  
**Theater A**

**EMRs: What’s the Right Solution for You and Your Practice?**
Jason Weisstein MD, MPH, FACS (EMA Orthopedics Team Lead)

Templates, platforms, compliance automation, and structured data... all considerations when choosing the right EMR for you and your practice. Join Jason Weisstein MD, MPH, FACS (EMA Orthopedics Team Lead) as he discusses important points when selecting the best EMR for you.

**Smith & Nephew, Inc.**
11:00am – 11:30am  
**Theater B**

**Innovations in the Knee:**
Anatomic Principals for treating the ACL and MCL
Darren L. Johnson MD

Anatomic Principals for treating the PCL and PLC
Robert F. LaPrade MD, PhD

**myoscience**
11:30am – 12:00pm  
**Theater A**

**Introducing a Revolutionary Approach to Pain Management...iovera™ Health**
Speaker: TBD

Using the body’s natural response to immediately relieve pain without the use of drugs or other systemic therapies, the iovera™ treatment precisely targets nerves, temporarily interrupting pain signaling pathways. Treated nerves are temporarily stopped from signaling, providing pain relief until the nerves regenerate.

**ConMed Linvatec**
12:00pm – 12:30pm  
**Theater B**

**Periarticular Endoscopic Hip Surgery**
Victor M. Ilizaliturri Jr, MD

Dr. Ilizaliturri will discuss indications for safe, endoscopic access in the periartricular hip space, as well as the latest surgical techniques to address these hip disorders.
AUGUST 8–10, 2014
FAIRMONT CHICAGO MILLENNIUM PARK
CHICAGO, ILLINOIS

Course Highlights
- Three-day course with world-class faculty
- Comprehensive sports medicine review for Subspecialty Certification
- In-depth review of key sports medicine topics
- Post-meeting online access to all PowerPoints, videos and faculty commentary

Advance Registration Closes
July 25, 2014
Visit www.sportsmed.org today for more information.

Attendees receive online access to AOSSM's Self Assessment 2014 as part of their course registration—a $165 value!

The American Orthopaedic Society for Sports Medicine
AAOS
American Academy of Orthopaedic Surgeons

AOSSM gratefully acknowledges Arthrex® for an educational grant in support of the AOSSM and AAOS Review Course.
**AOSSM Stats**

**How dynamic is the sports medicine profession?**
- Nearly 30% of orthopaedic residents go into sports medicine fellowships annually.
- AOSSM membership has more than doubled since 2002 from 1,426 to 3,319 in 2014.
- Six of the ten most frequently performed orthopaedic procedures are sports medicine related, including:
  - Arthroscopic medial or lateral meniscectomy
  - Arthroscopic sub acromial decompression
  - Arthroscopic shaving of knee cartilage
  - Arthroscopic rotator cuff repair
  - Arthroscopic meniscectomy medial and lateral
  - Arthroscopic repair/reconstruction ACL

**Who are the AOSSM Members?**
- 80% are team physicians.
- 68% of members’ practices are devoted to sports medicine.
- The majority cover an average of five teams annually.

**What impact has AOSSM had on sports medicine research?**
- Since 2005, AOSSM has provided $2.5 million in clinical and basic science grants to 40 both promising and established researchers from around the world.
- Average amount of an AOSSM research grant is $66,000.
- AOSSM has provided nearly $750,000 to develop sports research initiatives such as grant development workshops and mentoring programs to advance the profession and enhance patient care.
AOSSM proudly thanks the following individuals for their 2013 designated support through OREF. These important contributions will help to fund the AOSSM Research Mentoring Program and Young Investigator Grants, both of which lead to clinical advancements and enhanced patient care.

**Designated Donors**

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July 7 – 10, 2016
The Broadmoor
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AOSSM Annual Meeting 2017
July 20 – 23, 2017
Metro Toronto Convention Centre
Toronto, Canada

Other Upcoming Meetings

2014
AOSSM & AAOS
Sports Medicine Review Course for Subspecialty Certification
August 8 – 10, 2014
Fairmont Chicago Millenium Park,
Chicago, IL

2015
AOSSM 2015 Specialty Day
March 28, 2015
Las Vegas, NV

Surgical Skills: Hip
April 10 – 12, 2015
Rosemont, IL

AOSSM 2015 Specialty Day
August 8 – 10, 2015
Fairmont Chicago Millenium Park,
Chicago, IL

NHL
August 28 – 30, 2015

Surgical Skills: Shoulder
October 23 – 25, 2015
Rosemont, IL

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