Saturday, March 5, 2016
Orange County Convention
Center, West Building
Room W311
7:25 am – 4:35 pm

American Shoulder and Elbow Surgeons

Accreditation
This activity has been planned and implemented in accordance with the accreditation requirements and policies of the Accreditation Council for Continuing Medical Education (ACCME) through the joint providership of the American Academy of Orthopaedic Surgeons and the American Shoulder and Elbow Surgeons. The American Academy of Orthopaedic Surgeons is accredited by the ACCME to provide continuing medical education for physicians.

The American Academy of Orthopaedic Surgeons designates this live activity for a maximum of 7.25 AMA PRA Category 1 Credits™. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

Educational Objectives
• Review basic science and orthopaedic problems relative to the shoulder and elbow.
• Examine the indications, techniques and results of various surgical procedures.
• Describe the management of common orthopaedic problems relative to the shoulder and elbow.
• Permit expert panelists to put into perspective new technologies.

Presenters are listed in bold.

Leesa M. Galatz, MD, Program Co-Chair
Peter B. MacDonald, MD, Program Co-Chair

Preliminary Program - Faculty and presentations are subject to change.
7:25 am Welcome and Opening Remarks
William J. Mallon, MD, President

Session I: Basic Science

Moderators: Asheesh Bedi, MD, and David L. Glaser, MD

Paper 1
7:30 am – 7:35 am
Ibuprofen Impairs Capsulolabral Healing in a Rat Model of Anterior Glenohumeral Instability
Jonathan D. Packer, MD, Arya Varthi, MD, David Zhu, BS, Frances G. Javier, BS, Jennifer V. Garver, MD, Steven M. Tommasini, PhD, Theodore A. Blaine, MD

Paper 2
7:35 am – 7:40 am
Reduced Muscle Degeneration and Decreased Fatty Infiltration after Rotator Cuff Tear in a PARP-1 Knock-Out Mouse Model
Michael Küntzler, MD, Katja Nuss, DVM, Agnieszka Karol, DVM, Michael Schär, MD, Michael Hottiger, DVM, Brigitte von Rechenberg, DVM, Matthias A. Zumstein, MD

Paper 3
7:40 am – 7:45 am
Humeral Component Version in Reverse Shoulder Arthroplasty Affects Impingement in Activities of Daily Living
Xiang Chen, MS, Andreas Kontaxis, MSc, PhD, Daniel Choi, MS, Julien Berhouet, MD, Timothy M. Wright, PhD, David M. Dines, MD, Edward V. Craig, MD, Russel F. Warren, MD, Lawrence V. Gulotta, MD

Paper 4
7:45 am – 7:50 am
Image-Based 3D Morphometric Analysis of the Clavicle Intramedullary Canal
Peter Simon, PhD, Jazmine Aira, BS, Geoffrey P. Stone, MD, Sergio Gutierrez, PhD, Brandon Santoni, PhD, Mark A. Frankle, MD

7:50 am – 8:00 am Discussion

Session II: Arthroplasty

Moderators: Mark A. Mighell, MD, and Thomas R. Duquin, MD

8:00 am – 8:10 am How-To Video I: Arthroscopic AC Stabilization
Peter J. Millett, MD, MSc

Paper 5
8:10 am – 8:15 am Outpatient Total Shoulder Arthroplasty in the Ambulatory Surgery Center Environment Is a Safe Alternative to the Inpatient Hospital Setting: A Matched Cohort Study
Tyler J. Brodin, MD, Ryan P. Mulligan, MD, Frederick M. Azar, MD, Thomas (Quin) Throckmorton, MD

Paper 6
8:15 am – 8:20 am Tranexamic Acid Decreases Blood Loss in Total Shoulder Arthroplasty and Reverse Total Shoulder Arthroplasty
Jeffrey T. Abildgaard, MD, Ryan McElmore, PhD, Steven J. Hattrup, MD
### Session III: Rotator Cuff and Miscellaneous

**Moderators:** John E. (Jed) Kuhn, MD, and Jon J.P. Warner, MD

<table>
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<tr>
<th>Paper 9</th>
<th>8:40 am – 8:45 am</th>
<th>Accountable Care Organizations and the Effect of Public Disclosure of Surgeon's Operating Room Costs</th>
<th>Luke S. Austin, MD, Nicholas J. Lombardi, BS, Alvin C. Ong, MD, Fotios P. Tjoumakaris, MD</th>
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<tbody>
<tr>
<td>Paper 10</td>
<td>8:45 am – 8:50 am</td>
<td>The Effect of Neck-Shaft Angle, Glenosphere Size, and Cup Depth on Contact Mechanics in Reverse Shoulder Arthroplasty</td>
<td>G. Daniel G. Langohr, MASc, Ryan Willing, PhD, John B. Medley, PhD, James A. Johnson, PhD, George S. Athwal, MD, FRCSC</td>
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<tr>
<td>Paper 11</td>
<td>8:50 am – 8:55 am</td>
<td>Reoperation Rate Following Isolated Arthroscopic Rotator Cuff Repair</td>
<td>Siddharth A. Mahure, MD, Brent Mollon, MD, FRCSC, Steven D. Shamab, BA, Joseph D. Zuckerman, MD, Young W. Kwon, MD, PhD, Andrew S. Rokito, MD</td>
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<tr>
<td>Paper 12</td>
<td>8:55 am – 9:00 am</td>
<td>The Role of Vitamin D Deficiency in Rotator Cuff Integrity: Does It Affect Post-Operative Healing?</td>
<td>Ryan M. Degen, MD, MSc, FRCS, Danyal H. Nawabi, MD, FRCS (Orth), Julia Gromis, BA, Heather M. Kawalick, BA, Edward V. Craig, MD, Frank A. Cordasco, MD, Scott A. Rodeo, MD, Russell F. Warren, MD, Lawrence V. Gulotta, MD</td>
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### Session IV: Elbow

**Moderators:** April D. Armstrong, MD, and Ryan T. Bicknell, MD, MSc, FRCSC

| Paper 13 | 10:10 am – 10:15 am | Correlation of the CT, MRI, and Intraoperative Findings of Elbow Osteochondritis Dissecans (OCD) | Ezekiel E. Shotts, MD, Mark S. Collins, MD, Jeffrey R. Bond, MD, Shaun W. O’Driscoll, PhD, MD |
| Paper 14 | 10:15 am – 10:20 am | Arthroscopic vs. Open Lateral Release for the Treatment of Lateral Epicondylitis: A Prospective Randomized Controlled Trial | Peter B. MacDonald, MD, FRCSC, Tod Clark, MD, FRCSC, Sheila McRae, MSc, PhD, Jeff Leiter, MSc, PhD, Jamie Dubberley, MD, FRCSC |
| Paper 15 | 10:20 am – 10:25 am | Factors that Determine Supination Strength Following Distal Biceps Repair | Christopher C. Schmidt, MD, Brandon T. Brown, MS, Lars M. Quick, MD, Rafal Stachowicz, MD, Carmen Latona, MD, Mark C. Miller, PhD |
The Use of Indomethacin in the Prevention of Postoperative Radioulnar Synostosis after Distal Biceps Repair
Callista Costopoulos, DO, Joseph A. Abboud, MD, Matthew L. Ramsey, MD, Charles L. Getz, MD, Daniel Sholder, BS, John P. Taras, BS, Daniel Huttman, MD, Mark D. Lazarus, MD

Discussion

Symposium II: My Top 10 Tips for Getting It Perfect
Moderator: Jeffrey S. Abrams, MD

Reducing a Displaced Proximal Humerus Fracture
Bradford O. Parsons, MD

Repairing a Massive Cuff Tear
Stephen S. Burkhart, MD

Exposing a Glenoid in Preparation for an Arthroplasty
Robert H. Bell, MD

Discussion

NEER AWARD PRESENTATION
William J. Mallon, MD, President

Session V: Instability
Moderators: Surena Namdari, MD, MSc, and J. Michael Wiater, MD

Remplissage of an Off-Track Hill-Sachs Lesion is Necessary to Restore Biomechanical Glenohumeral Joint Stability in a Bipolar Bone Loss Model
Robert U. Hartzler, MD, MS, Christopher N.H. Bui, MD, Woong K. Jeong, MD, Masaki Akeda, MD, Alex Peterson, BA, Michelle McGarry, MS, Patrick J. Denard, MD, Stephen S. Burkhart, MD, Thay Q. Lee, PhD

Clinical Outcomes Following Revision Anterior Shoulder Stabilization: Arthroscopic Revision Stabilization vs. Latarjet
Rachel M. Frank, MD, Christopher R. Mellano, MD, Jason J. Shin, MD, Terrence F. Feldheim, BS, Randy Mascarenhas, MD, Adam B. Yanke, MD, Bernard R. Bach, Jr., MD, Brian J. Cole, MD, MBA, Gregory P. Nicholson, MD, Anthony A. Romeo, MD, Nikhil N. Verma, MD

Paper 19
11:40 am – 11:45 am
Clinical and Radiographic Outcomes of Distal Tibia Allograft Reconstruction for Glenoid Bone Defects in Recurrent Anterior Shoulder Instability
Rachel M. Frank, MD, Petar Golijanin, BS, Brian J. Cole, MD, MBA, Nikhil N. Verma, MD, Anthony A. Romeo, MD, Matthew T. Provencer, MD

Paper 20
11:45 am – 11:50 am
Predictors for Surgery in Shoulder Instability: A Retrospective Cohort Study using the FEDS System
George F. Lebus, MD, Martin B. Raynor, MD, Samuel K. Nwosu, MS, Emily Wagstrom, MD, Sunil S. Jani, MD, MS, James L. Carey, MD, MPH, Carolyn M. Hettrich, MD, MPH, Charles L. Cox, MD, MPH, John E. (Jed) Kahn, MD

11:50 am – 12:00 pm
Discussion

12:00 pm – 1:00 pm
Lunch

Session VI: Arthroplasty
Moderators: Dean G. Sotereanos, MD, and Edwin E. Spencer, Jr., MD

Determining the Minimal Clinically Important Difference (MCID) for the ASES, SST and VAS Pain after Total Shoulder Arthroplasty (TSA)
Robert Z. Tashjian, MD, Jay D. Keener, MD, Jared McAllister, MD, Gregory Ebersole, BS, Erin K. Granger, MPH, Wei Chen, PhD, MS, Man Hung, PhD, Aaron M. Chamberlain, MD

Reverse Shoulder Arthroplasty in Patients with Impaired Lower Extremities
Adam L. Kemp, BS, Thomas W. Wright, MD

A Finite Element Analysis of Augmented Glenoid Components
Nikolas K. Knowles, MSc, G. Daniel G. Langohr, MSc, George S. Athwal, MD, FRCSC, Louis M. Ferreira, PhD

Comparison of Reverse Total Shoulder Arthroplasty Outcomes with and without Repair of the Subscapularis
Richard J. Friedman, MD, FRCSC, Pierre-Henri Flurin, MD, Thomas W. Wright, MD, Joseph D. Zuckerman, MD, Christopher Roche, MSc, MBA

12:00 pm – 1:00 pm
Lunch

Discussion
1:30 pm – 1:40 pm  How-To Video II: Medial Collateral Ligament Reconstruction of the Elbow: 2 Techniques  
Christopher S. Abmad, MD, and Neal S. ElAttrache, MD

Session VII: Rotator Cuff

Moderators: Charles M. Jobin, MD, and Jay D. Keener, MD

Paper 25  
1:40 pm – 1:45 pm  Identification of a Familial Predisposition for and a Genetic Variant Associated with Rotator Cuff Repair Healing  
Robert Z. Tashjian, MD, Erin K. Granger, MPH, Yue Zhang, PhD, Craig C. Teerlink, PhD, Lisa A. Cannon-Albright, PhD

Paper 26  
1:45 pm – 1:50 pm  Sleep Disturbance Following Rotator Cuff Repair: A Prospective 2-Year Investigation  
Luke S. Austin, MD, Fotios P. Tjoumakaris, MD, Bradford S. Tucker, MD, Alex C. Ong, MD, Nicholas J. Lombardi, BS, Matthew D. Pepe, MD

Paper 27  
1:50 pm – 1:55 pm  Correlation of Clinical Outcomes of Retear and Tear Progression after Arthroscopic Rotator Cuff Repair  
Sang-Jin Shin, MD, PhD, Juyeob Lee, MD, Young-Won Koh, MD

Paper 28  
1:55 pm – 2:00 pm  Initiation of Rotator Cuff Tears: MRI Study of 245 Shoulders  
Seung Gyoon Kang, MD, Seung Yeop Song, MD, Keun Min Park, MD, Jae Chul Yoo, MD

2:00 pm – 2:10 pm  Discussion

Session VIII: Miscellaneous/Trauma

Moderators: T. Bradley Edwards, MD, and Charles L. Getz, MD

Paper 29  
2:10 pm – 2:15 pm  Metal Allergy in Shoulder Arthroplasty Patients  
Jia-Wei Kevin Ko, MD, Thema A. Nicholson, MS, C. Edward Hoflir, MD, Gerald R. Williams, Jr., MD, Charles L. Getz, MD

Paper 30  
2:15 pm – 2:20 pm  Periprosthetic Shoulder Infection: One-Stage Better Than Two-Stage?  
Geoffrey P. Stone, MD, Rachel Clark, BA, CCRC, Kathleen C. O’Brien, BS, Lisa Vaccaro, BS, Richard S. Tannenbaum, BS, Benjamin J. Cotrell, BS, Adam Lorenzetti, MD, Brent Stephens, MD, Peter Simon, PhD, Derek Pupello, MBA, Mark A. Frankle, MD

Paper 31  
2:20 pm – 2:25 pm  The Timing of Elective Shoulder Surgery after Intra-articular Shoulder Injection Affects Postoperative Infection Risk  
Brian C. Werner, MD, Jordan M. Cancienne, MD, Justin W. Griffin, MD, M. Tyrrell Burns, MD, F. Winston Guethsme, MD, Stephen P. Brockmeier, MD

Paper 32  
2:25 pm – 2:30 pm  The Incidence of Subsequent Shoulder Surgery Following Isolated Arthroscopic Superior Labrum Anterior and Posterior (SLAP) Repairs  
Brent Mollon, MD, FRCSC, Siddharth A. Mahure, MD, Kelsey L. Ensor, MD, Joseph D. Zuckerman, MD, Young W. Kwon, MD, PhD, Andrew S. Rokito, MD

Paper 33  
2:30 pm – 2:35 pm  Liposomal Bupivacaine vs. Interscalene Nerve Block for Pain Control after Shoulder Arthroplasty: A Retrospective Cohort Analysis  
Umasuthan Srikumaran, MD, MBA, Catherine Hannan, BS, Matthew Albrecht, MHS, Edward G. McFarland, MD, Bashir A. Zikria, MD, MSc, Steve A. Petersen, MD

2:35 pm – 2:45 pm  Discussion

2:45 pm – 3:15 pm  Symposium III: Emerging Technologies in Arthroplasty

Moderator: Thomas (Quin) Throckmorton, MD

2:45 pm  Alternative Bearing Surfaces in the Shoulder  
Matthew L. Ramsey, MD

2:55 pm  Computer Based Surgical Planning  
Joseph P. Iannotti, MD, PhD

3:05 pm  Patient Specific Instrumentation  
Gilles Waleh, MD

3:15 pm – 3:30 pm  Break

American Shoulder and Elbow Surgeons
### Session IX: Basic Science 2

**Moderators:** Lawrence V. Gulotta, MD, and James E. Carpenter, MD

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<tr>
<th>Paper 34</th>
<th>3:30 pm – 3:35 pm</th>
<th>Effect of Hypercholesterolemia on Fatty Infiltration and Rotator Cuff Healing in a Chronic Rotator Cuff Tear Model of Rabbit</th>
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<tr>
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<td>Joo Han Oh, MD, PhD, Seok Won Chung, MD, HaeBong Park, MD, Jieun Kwon, MD, Ghee Young Choe, MD</td>
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<tr>
<th>Paper 35</th>
<th>3:35 pm – 3:40 pm</th>
<th>2D/3D Image Registration to Determine Host Bone Coverage of Glenoid Side Reverse Shoulder Implants</th>
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<td></td>
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<td>Andres F. Cabezas, BS, MS, Peter Simon, PhD, Adam Lorenzetti, MD, Kristi Krebes, BS, Brandon G. Santoni, PhD, Geoffrey P. Stone, MD, Rachel E. Clark, BA, CCRC, Mark A. Frankle, MD</td>
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<tr>
<th>Paper 36</th>
<th>3:40 pm – 3:45 pm</th>
<th>Histological Quantification of Chronic Human Rotator Cuff Muscle Degeneration</th>
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<td></td>
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<td>Anshuman Singh, MD, Michael C. Gibbons, MS, Oke A. Anakwenze, MD, Timothy Cheng, MD, Hassan Azimi, MD, Simon Schenk, PhD, Samuel R. Ward, PT, PhD</td>
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| 3:45 pm – 3:55 pm | Discussion |

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### Symposium IV: New Frontiers in Elbow Pathology Pushing the Boundaries

**Moderator:** Matthew L. Ramsey, MD

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<tr>
<th>3:55 pm</th>
<th>Lateral Epicondylitis: Stick to the Tried and True vs. New Technology</th>
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<tr>
<td>4:05 pm</td>
<td>Radial Head Replacement- Have We Come Any Closer to the Real Thing</td>
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<td>4:15 pm</td>
<td>Elbow Replacement: Expanding the Indications</td>
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<tr>
<td>4:25 pm</td>
<td>Panel Discussion</td>
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| 4:35 pm | Adjourn |