

Curriculum Vitae

Name: **Sam Akhavan, MD**
Orthopaedic Sports Medicine
Allegheny Orthopaedic Associates
Allegheny General Hospital
www.steelcitysportsdoc.com

BIBLIOGRAPHY

PUBLISHED FULL-LENGTH PAPERS

1. Lubowitz JH, **Akhavan S**, Waterman BR, Aalami-Harandi A, Konicek J.
Technique for creating the anterior cruciate ligament femoral socket: optimizing femoral footprint anatomic restoration using outside-in drilling. *Arthroscopy*, 29(3): 522-8, 2013
2. Smucker J, **Akhavan S** and Furey C
Understanding Bony Safety Zones in the Posterior Iliac Crest: an Anatomic Study of the Hamann-Todd Collection. *Spine*, 35(7): 725-9, 2010
3. Matava MJ, Muller MS, Clinton CM, Rodeo SA, **Akhavan S**, Parker RD
Complications of Anterior Cruciate Ligament Reconstruction.
Instructional Course Lectures, 58: 355-75, 2009
4. Emery SE, **Akhavan S**, Miller P, Furey CG, Yoo JU, Rowbottom JR, Bohlman HH
Steroids and Risk Factors for Airway Compromise in Multilevel Corpectomy Patients: a Prospective, Randomized, Double Blind Study. *Spine*, 34(3): 229-32, 2009
5. **Akhavan S**, Goldberg VM
Clinical Outcome of a Fibermetal Stem: Minimum 5-Year Follow-up. *Clinical Orthopaedics and Related Research*, 465: 106-111, December 2007
6. Victoroff BN, **Akhavan S**
The Labroplasty Procedure for Anterior Shoulder Stabilization. *Techniques in Shoulder and Elbow Surgery*, 7(4):182-185, December 2006
7. **Akhavan S**, Mathiessen MM, Schulte L, Penoyar T, Kraay MJ, Rimnac CM, Goldberg VM.
Clinical Results and Histologic Findings of a Low-Modulus Femoral Stem: Results at six-year follow-up. *Journal of Bone and Joint Surgery*, 88(6): 1308-14, 2006
8. **Akhavan S**, Kayacan R, Varadarajan R, Penoyar T, Davy D, Rimnac CM.
The Effect of R-ratio on Fatigue Crack Propagation in Human Cortical Bone. In "Proceedings of the 11th Annual Conference on Fracture", 2005

BOOK CHAPTERS

1. **Akhavan S**, Parker RD “Natural History of the PCL” in: Bonnin M, Amendola NA, Bellemans J, Macdonal, SJ, Menetrey J (eds). *The Knee Joint- Surgical Treatments and Strategies*. Springer, 2011
2. **Akhavan S**, Parker RD “Reconstruction of the PCL-Tibial Onlay Technique” In: Lieberman JR, Berry DJ, Azar FM. *Advanced Reconstruction- The Knee*. Rosemont, IL; American Academy of Orthopaedic Surgeons, 2010
3. **Akhavan S**, Miniaci A. “Humeral Head Resurfacing: Indications, Technique and Results”. In: Dines D, Williams G and Laurencin C (eds) *Arthritis and Arthroplasty: The Shoulder*. Amsterdam, Netherlands, Elsevier, 2009
4. Provencher MT, Dewing CB, **Akhavan S**, Miniaci A, McNickle AG, Yanke AB, Cole BJ. “Cartilage Repair and Replacement: From OATS to Allograft”. In: Brown T, Cui Q, Mihalko W, Saleh K (eds) *Arthritis and Arthroplasty: The Knee*. Amsterdam, Netherlands, Elsevier, 2009
5. **Akhavan S**, Shaffer JW. “Fractures of the Humeral Shaft”. In: Ziran BH and Smith WE (eds). *Fractures of the Upper Extremity*. New York, NY; Marcel Dekker, 2004.
6. Robbins M, **Akhavan S**. “Radiology Module”. In: Pearl ML et al (eds). *The Athlete’s Shoulder, Volume 2*. Rosemont, IL; American Academy of Orthopaedic Surgeons, 2004
7. Goldberg VM, **Akhavan S**. “Biology of Bone Grafts”. In: Lieberman JR and Friedlander GE (eds). *Bone Regeneration and Repair- Biology and Clinical Indications*. Totowa, NJ; Humana Press, 2005
8. Goldberg VM, **Akhavan S**. “Biology of Bone Grafts”. In: Lieberman JR, Mankin HJ, Goldberg VM (eds). *Bone Graft and Bone Graft Substitutes (Monograph)* Rosemont, IL; American Academy of Orthopaedic Surgeons, 2006

NATIONAL AND INTERNATIONAL PRESENTATIONS

BY INVITATION

1. Akhavan S “Management of Surgical Instability in the Contact Athlete”
USA Rugby Sports Medicine Symposium, Las Vegas, NV February 2013
2. Akhavan S “Surgical Management of Shoulder Instability”
Nuts & Bolts 4th Annual Conference, Naples, FL October 2012
3. Akhavan S “Cartilage injuries – Modern Treatment in 2012”
Nuts & Bolts 4th Annual Conference, Naples, FL October 2012

NATIONAL AND INTERNATIONAL PRESENTATIONS

BY INVITATION (CONTINUED)

4. Akhavan S “Oculomotor testing for diagnosis of Concussions”
USA rugby Sports Medicine Symposium, Las Vegas, NV Feb 2012
5. Akhavan S “Cartilage injuries – Modern Treatment in 2011”
Nuts & Bolts 3rd Annual Conference, Naples, FL October 2011
6. Akhavan S “Surgical Management of Shoulder Instability”
Nuts & Bolts 3rd Annual Conference, Naples, FL October 2011
7. Akhavan S “The Thrower’s Shoulder”
Nuts & Bolts 3rd Annual Conference, Naples, FL October 2011
8. Akhavan S “Cartilage injuries- Modern Treatment in 2010”
Nuts & Bolts 2nd Annual Conference, Naples, FL October 2010
9. Akhavan S “Surgical Management of Shoulder Instability”
Nuts & Bolts 2nd Annual Conference, Naples, FL October 2010
10. Akhavan S “The Thrower’s Elbow”
Nuts & Bolts 2nd Annual Conference, Naples, FL October 2010
11. Akhavan S “Cartilage injuries- Modern Treatment in 2009”
Nuts & Bolts 1st Annual Conference, Naples, FL October 2009
12. Akhavan S “Surgical Management of Shoulder Instability”
Nuts & Bolts 1st Annual Conference, Naples, FL October 2009
13. Akhavan S “The Thrower’s Elbow”
Nuts & Bolts 1st Annual Conference, Naples, FL October 2009
14. Akhavan S “Cartilage Injuries and Rehabilitation”
Slippery Rock Guest Lecture Series, Slippery Rock University PA 2009
15. Akhavan S “The Meniscus”
Cleveland Clinic Foundation Sports Medicine Conference, Cleveland OH 2007
16. Akhavan S “The Meniscus”
Cleveland Clinic Foundation; Resident Academic Day, Cleveland, OH 2007
17. Akhavan S “The Posterior Cruciate Ligament”
Cleveland Clinic Foundation Sports Medicine Conference, Cleveland, OH 2007

NATIONAL AND INTERNATIONAL PRESENTATIONS

BY INVITATION (CONTINUED)

18. Akhavan S “Cervical Spine and Brachial Plexus Injuries in Sports Medicine”
Cleveland Clinic Foundation Sports Medicine Conference, Cleveland, OH 2007
19. Akhavan S “Foot and Ankle Injuries in Sports Medicine”
Cleveland Clinic Foundation Sports Medicine Conference, Cleveland, OH 2007
20. Akhavan S “Pediatric Sports Medicine Injuries”
Cleveland Clinic Foundation Sports Medicine Conference, Cleveland, OH 2008
21. Akhavan S “Elbow Injuries in the Throwing Athlete”
Cleveland Clinic Foundation Sports Medicine Conference, Cleveland, OH 2008

PEER REVIEWED CONFERENCES

1. Nye D, Waterman, B, **Akhavan S** “Biomechanical and Clinical Results of an Arthroscopic, Knotless Intra-articular Biceps Tenodesis Technique. (Podium) AAOS Annual meeting 2013, Chicago IL
2. Nye D, Waterman, B, **Akhavan S** “Biomechanical and Clinical Results of an Arthroscopic, Knotless Intra-articular Biceps Tenodesis Technique. (Eposter) AANA Annual meeting 2013, San Antonio, TX
3. Miller, MC; Muriuki, MG; Akhavan, S; Vaccariello, M, DeMeo, PJ; “Evidence that the Medial Ulnar Collateral Ligament Should be Repaired with Minimal Tension”, Transactions of the Orthopaedic Research Society Annual Mtg., 2012.
4. Muriuki, MG; Schimoler., PJ; Campbell, BC; Vaccariello, MA; Snell, E; Akhavan, A; DeMeo, PJ; Miller, MC; “The Medial Ulnar Collateral Ligament Carries No Load During Passive Flexion-Extension”, American Society of Biomechanics Annual Meeting, 2012.
5. Gandara,L, **Akhavan, S**, Demeo, P “Effect of jump Training on Correction of Neuromuscular and Strength Deficits For ACL Injury Prevention” (Poster) ACSM Annual Meeting 2011
6. Morgan Jones, Fenning S, **Akhavan S**, Miniaci . “Impact Cartilage Injury in a Rabbit Model” (Poster) Orthopaedic Research Society 55th Annual Meeting. Las Vegas, NV 2009
7. **Akhavan S**, Fenning S, Jones M, Miniaci A “Development of a Cartilage Impact Model in Rabbits” Cleveland Clinic Foundation Sports Medicine Conference. Cleveland, OH 2009
8. **Akhavan S**, Marcus RE, Stevenson R, Rowbottom JR, Getty PJ “Preoperative Medical Consultation in Hip Fracture Patients: Are Complications Reduced?” Association of Bone and Joint Surgeons 59th Annual meeting. Lexington, Kentucky 2007

PEER REVIEWED CONFERENCE (CONTINUED)

9. **Akhavan S**, Goodfellow DB “Avoiding Sensory Nerve Damage During Patellar Tendon Harvest- a Two-Incision Technique” Arthroscopy Association of North America Annual Meeting. San Francisco, California 2007
10. **Akhavan S**, Stevenson R, Rowbottom JR, Marcus RE, Getty PJ “Preoperative Medical Consultation in Hip Fracture Patients: Are Complications Reduced?” American Academy of Orthopaedic Surgery 74th Annual Meeting. San Diego, California 2007
11. **Akhavan S**, Kraay MJ “Conical Trabecular Metal Augments and “Impaction Grafting” for Massive Tibial Bone Deficiencies: An Innovative Technique for Complex Revision Total Knee Arthroplasty” Third Annual Joint Arthroplasty Young Investigator’s Conference, San Diego, California 2007
12. Goldberg VM, **Akhavan S** “Clinical Results and Histological Findings of a Low-Modulus Composite Stem” V International Course of Arthroplasties, Barcelona, Spain 2006
13. Goldberg VM, **Akhavan S** “The Incidence of Thigh Pain and Clinical Outcomes of a Tapered Femoral Stem” The Hip Society Interim Meeting, Iowa City, Iowa 2006.
14. **Akhavan S**, Kayacan R, Varadarajan R, Penoyar T, Davy D, Rimnac CM. “The Effect of R-ratio on Fatigue Crack Propagation in Human Cortical Bone.” 11th Annual Conference on Fracture. Turin, Italy 2005.
15. Goldberg VM, **Akhavan S**, Mathiessen MM, Schulte L, Penoyar T, Kraay M, Rimnac CM “A Low Modulus Composite: Mixing and Matching” Current Concepts Course. Orlando, Florida 2004.
16. Emery SE, **Akhavan S**, Furey CG, Rowbottom JR, Bohlman HH “Steroids and Risk Factors for Cervical Corpectomy Patients: A Randomized, Prospective Study” (Poster) American Orthopaedic Association. Boston, Massachusetts 2004.
17. **Akhavan S**, Patel M, Trokkan, S, Yoo JU, Marcus RE, Patterson BM, Vallier HA. “Lateral Neutralization versus Posterior Antigliding Plating of Closed Distal Fibula Fractures- Results and Outcomes” (Poster) American Academy of Orthopaedic Surgery 71st Annual Meeting. San Francisco, California 2004.
18. Smucker J, **Akhavan S**, Mahajan V, Yoo JU, Furey CG “Anatomy of the Posterior Iliac Crest- A Study from the Hayman-Todd Collection” (Poster) American Academy of Orthopaedic Surgery 71st Annual Meeting. San Francisco, California 2004.
19. **Akhavan S**, Mathiessen MM, Schulte L, Penoyar T, Kraay M, Rimnac CM, Goldberg VM. “Clinical and Histologic Results of a Reduced Stiffness Stem” Orthopaedic Research Society 50th Annual Meeting. San Francisco, California 2004.

PEER REVIEWED CONFERENCES (CONTINUED)

20. Emery SE, **Akhavan S**, Furey CG, Rowbottom JR, Bohlman HH “Steroids and Risk Factors for Cervical Corpectomy Patients: A Randomized, Prospective Study” (Poster) Cervical Spine Research Society. Scottsdale, Arizona 2003
21. Emery SE, **Akhavan S**, Furey CG, Rowbottom JR, Bohlman HH “Steroids and Risk Factors for Cervical Corpectomy Patients: A Randomized, Prospective Study” (Poster) North American Spine Society. San Diego, California 2003
22. **Akhavan S**, Patel M, Trokkan, S, Yoo JU, Marcus RE, Patterson BM, Vallier HA. “Lateral Neutralization versus Posterior Antigliding Plating of Closed Distal Fibula Fractures- Results and Outcomes” Orthopaedic Trauma Association. Salt Lake City, Utah 2003.
23. **Akhavan S**, Patel M, Trokkan, S, Yoo JU, Marcus RE, Patterson BM, Vallier HA. “Lateral Neutralization versus Posterior Antigliding Plating of Closed Distal Fibula Fractures- Results and outcomes” American Orthopaedic Foot and Ankle Society. Hilton Head, South Carolina 2003.

REGIONAL AND LOCAL PRESENTATIONS

1. “Biomechanics of the ACL”
Course: Surgery for Engineers, Carnegie Mellon University, April 2013
2. “Management of ACL tears”
Orthopaedic Update 2013
Nemacolin Woodlands, Farmington, PA April 2013
3. “Management of Simple and Complex Shoulder Instability
Orthopaedic Update 2013
Nemacolin Woodlands, Farmington, PA April 2013
4. “Patellar Dislocation”
Pennsylvania Orthopaedic Society,
Pittsburgh PA October 2012
5. “Sports Medicine for the Primary Care Physician”
Conference Director Pittsburgh, PA November 2012
6. “New Therapies in the Diagnosis and Evaluation of Concussions”
Sports Medicine for the Primary Care Physician November 2012
7. “Management of Cartilage Injuries”
Orthopaedic Update 2012
Nemacolin Woodlands, Farmington PA April 2012

REGIONAL AND LOCAL PRESENTATIONS (CONTINUED)

8. Sports Medicine for the Primary Care Physician”
Conference Director Pittsburgh, PA August 2011
9. “Biomechanics of the ACL”
Course: Surgery for Engineers, Carnegie Mellon University, April 2012
10. “Physical Examination of the Knee” Akhavan, S
Sports Medicine for the Primary Care Physician
Pittsburgh, PA August 2011
11. “Labral Injuries and Shoulder Instability” Akhavan, S
Sports Medicine for the Primary Care Physician
Pittsburgh, PA August 2011
12. “Biomechanics of the ACL”
Course: Surgery for Engineers, Carnegie Mellon University, November 2011
13. “Sports Medicine for the Primary Care Physician- A Complete Conference”
Conference Director. Pittsburgh, PA August 2010
13. “Physical Examination of the Knee”, **Akhavan S**
Sports Medicine for the Primary Care Physician- A Complete Conference
Pittsburgh, PA August 2010
14. “Labral Injuries and Shoulder Instability”, **Akhavan S**
Sports Medicine for the Primary Care Physician- A Complete Conference
Pittsburgh, PA August 2010
15. “Concussion Diagnosis using a Neurovestibular Reflex Testing”, **Akhavan S**
“What You Need to Know about Sports Medicine- A Complete Conference”
Pittsburgh, PA August 2010
16. “Sports Medicine for the Primary Care Physician”
Conference Director, Pittsburgh, PA September 2009
17. “Physical Examination of the Knee”, **Akhavan S**
“*Sports Medicine for the Primary Care Physician*”
Pittsburgh, PA October 2009
18. “Labral Injuries and Shoulder Instability”, **Akhavan S**
“*Sports Medicine for the Primary Care Physician*”
Pittsburgh, PA August 2010

REGIONAL AND LOCAL PRESENTATIONS (CONTINUED)

19. **Akhavan S**, Kayacan R, Varadarajan R, Penoyar T, Davy D, Rimnac CM.
“The Kinetics of Human Cortical Bone- The Effect of Load Tension on Fatigue Crack Propagation”
Cleveland Orthopaedic Society, Barry Friedman Lectureship. Cleveland, Ohio 2003.
20. Patel M, **Akhavan S**, Trokkan, S, Yoo JU, Marcus RE, Patterson BM, Vallier HA. “Lateral Neutralization versus Posterior Antigliding Plating of Closed Distal Fibula Fractures- Results and Outcomes”
Ohio Orthopaedic Society Resident Research Competition. Canton, Ohio 2003
21. **Akhavan S**, Emery SE, Furey CG, Rowbottom JR, Bohlman HH
“Steroids for Multilevel Cervical Corpectomy- Do They Reduce Upper Airway Edema?”
Cleveland Orthopaedic Society, Resident Research Competition. Cleveland, Ohio 2004
22. **Akhavan S**, Mathiessen MM, Schulte L, Penoyar T, Kraay M, Rimnac CM, Goldberg VM.
“Clinical and Histologic Results of a Reduced Stiffness Stem”
Cleveland Orthopaedic Society, Barry Friedman Lectureship. Cleveland, Ohio 2004.