

AOSSM Research Award Winners

O'DONOGHUE SPORTS INJURY AWARD

2015

"Utilization of ACL Injury Biomechanical and Neuromuscular Risk Profile Analysis to Determine the Effectiveness of Neuromuscular Training: A Prospective Cohort Double Blind Randomized Controlled Trial" " by Timothy E. Hewett, PhD, Kevin R. Ford, PhD, Yingying Xu, MS, Jane C. Khoury, PhD, Gregory D. Myer, PhD

2014

"Revision Anterior Cruciate Ligament Reconstruction Graft Choice Impact on Outcome in the MARS Cohort" by Rick W. Wright, MD, Laura J. Huston, MS, Amanda K. Haas, MA, Kurt P. Spindler, MD, Sam K. Nwosu, MS, on behalf of MARS group

2013

"Long-Term Outcomes After Ulnar Collateral Ligament Reconstruction in Competitive Baseball Players: Follow-Up with a Minimum of 10 Years" by Daryl C. Osbahr, MD, E. Lyle Cain, Jr., MD, B. Todd Raines, MA, ATC, Dave Fortenbaugh, PhD, Jeffrey R. Dugas, MD, James R. Andrews, MD

2012

"The Association Between Serum Biomarkers of Cartilage Turnover and Subsequent Anterior Cruciate Ligament Rupture" by LTC Steven J. Svoboda, MD, LTC, Brett D. Owens, MD, Travis M. Harvey, PhD, Patrick M. Tarwater, PhD, William F. Brechue, PhD, Kenneth L. Cameron, PhD, MPH, ATC

2011

"In Vivo Analysis of the Isolated Posterior Cruciate Ligament-Deficient Knee During Functional Activities" by Kanu Goyal, MD, Scott Tashman, PhD, Joon Wang, MD, Kang Li, PhD, Albert Lin, MD, Xudong Zhang, PhD, and Christopher D. Harner, MD

2010

"When Do Rotator Cuff Repairs Fail? Serial Ultrasound Examination After Arthroscopic Repair of Large and Massive Rotator Cuff Tears" by Bruce S. Miller, MD, MS, Brian K. Downie, PA-C, MS, Robert B. Kohen, MD, Theresa G. Kijek, BS, Bryson P. Lesniak, MD, Jon A. Jacobson, MD, and James E. Carpenter, MD, University of Michigan, Ann Arbor, MI

2009

"Tibiofemoral and Patellofemoral Kinematics Following Reconstruction of an Isolated Posterior Cruciate Ligament Injury: In Vivo Analysis During Physiologic Loading" by Thomas J. Gill, MD, Samuel K. Van de Velde, MD, David W. Wing, MD, Luke S. Oh, MD, and Guoan Li, PhD

2008

“The Effects of Augmented Feedback With and Without Strength Training on Lower Extremity Biomechanics” by Daniel Herman, MD, PhD, James Onate, ATC, PhD, Paul Weinholt, PhD, Kevin Guskiewicz, ATC, PhD, William Garrett, MD, PhD, Bing Yu, PhD, and Darin Padua, ATC, PhD

2007

“Timing of Surgery for Anterior Cruciate Ligament Injuries: A Prospective, Randomized Clinical Trial of Early versus Delayed Reconstructions” by Craig R. Bottoni, MD, Travis R. Liddell, MD, Timothy J. Trainor, MD, and Kenneth K. Lindell, MD

2006

“A Randomized Clinical Trial Comparing Open to Mini-Open Rotator Cuff Repair for Full-Thickness Rotator Cuff Tears: Disease-Specific Quality of Life Outcome at 2-Years Follow-Up” by Nicholas G. Mohtadi MD, MSc, FRCSC, Robert M. Hollinshead MD, FRCSC, Treny M. Sasyniuk MSc, Jennifer A. Fletcher MD, FRCSC, Denise S Chan MBT, and Feng X. Li MD, PhD

2005

“Rehabilitation of the Knee Following Anterior Cruciate Ligament Reconstruction with a Bone-Patellar Tendon-Bone Autograft: A Prospective, Randomized, Double-Blind Comparison of Accelerated Versus Delayed Programs” by Bruce D. Beynnon, PhD, Robert J. Johnson, MD, Bjarne Brattbakk, MS, PT, Joseph A. Abate III, MD, Braden C. Fleming, PhD, and Claude E. Nichols, MD

2004

“Biomechanical Measures of Neuromuscular Control and Valgus Loading of the Knee Predict ACL Injury Risk in Female Athletes: A Prospective Study” by Timothy E. Hewett, PhD, Greg D. Myer, MS, CSCS, and Kevin R. Ford, MS

2003

“The Effect of ACL Reconstruction on the Risk of Knee Re-Injury: An Outcome Study of 6,576 Cases” by Warren R. Dunn, MD, MPH, Stephen Lyman, PhD, Andrew Lincoln, ScD, MS, Paul Amoroso, MD, MPH, Thomas L. Wickiewicz, MD, and Robert G. Marx, MD, MSc, FRCSC

2002

“Risk Factors Associated with Non-Contact ACL Injury: A Prospective Four-Year Evaluation of 859 West Point Cadets” by John M. Uhorchak, MD, Charles R. Scoville, PT, Glenn Williams PT, ATC, Robert A. Arciero, MD, Patrick St. Pierre, MD, and Dean C. Taylor, MD

2001

“A Biomechanical Comparison of Tibial Inlay vs. Tibial Tunnel Posterior Cruciate Ligament Reconstruction Techniques: Graft Pretension and Knee Laxity” by David R. McAllister, MD, Keith L. Markolf, PhD, Daniel A. Oakes, MD, Charles R. Young, BS, and Justin McWilliams, BS

2000

“Tissue Engineered Rotator Cuff Tendon Using Swine Small Intestinal Submucosa: Histological and Mechanical Evaluation in Dogs” by Loic M. Dejardin, DVM, MS, Steven P. Arnoczky, DVM, and Roger C. Haut, PhD

1999

“A Prospective Study of First Time Ankle Sprains” by Per A. Renstrom, MD, PhD, Bruce Beynnon, PhD, Benjamin Uh, MD, Howard Barker, MD, Larry Haugh, PhD

1998

“The Effect of Ciprofloxacin Upon Achilles Tendon, Paratendon, and Shoulder Capsule Fibroblast Metabolism” by Riley J. Williams, MD, Eric Attia, BS, Thomas L. Wickiewicz, MD, Jo A. Hannafin, MD, PhD

1997

“Growth Factors Can Improve MCL Healing In Vivo” by Kevin A. Hildebrand, MD, Savio L-Y. Woo, PhD, David W. Smith, BS, Christina R. Allen, MD, Masataka Deie, MD, PhD, Brian J. Taylor, MS, Christopher C. Schmidt, MD

1996

“The Strain Behavior of the ACL During Squatting and Active Flexion-Extension: A Comparison of Open and Closed Kinetic Chain Exercises” by Bruce D. Beynnon, PhD, Robert J. Johnson, MD, Braden C. Fleming, MS, Charles J. Stankewich, MS, Per A. Renstrom, MD, PhD, Claude E. Nichols, III, MD

1995

“Measurement of Functional Outcome of Anterior Cruciate Ligament Reconstruction Surgery. An Analysis of Rating Scales” by Rowland B. Mayor, MD

1994

“The Popliteofibular Ligament: The ‘Missing Link’ in Posterolateral Rotatory Stability of the Human Knee” by Michael J. Maynard, MD, Xianghua Deng, MD, Thomas L. Wickiewicz, MD and Russell F. Warren, MD

1993

“Fate of the ACL Injured Patient: A Prospective Outcome Study” by Dale M. Daniel, MD, Mary Lou Stone, RPT, Barbara E. Dobson, LVN, Donald C. Fithian, MD, David Rossman, MD and Kenton R. Kaufman, PhD

1992

“Neuromuscular Performance in Normal and Anterior Cruciate Ligament Deficient Lower Extremities” by Edward M. Wojtys, MD and Laura J. Huston, MS

1991

“Static Capsuloligamentous Restraints to Superior-Inferior Translation of the Glenohumeral Joint” by Jon J.P. Warner, MD, Xianghua H. Deng, MD and Russell F. Warren, MD

1990

“The Effects of Increased Tension on Healing Medial Collateral Ligaments” by Mark A. Gomez, PhD, Savio L-Y. Woo, PhD, David Amiel, Dip. Ing., Frederick Harwood, BS, Linda Kitabayashi, HT and John R. Matyas, PhD

1989

“The Efficacy of a Prophylactic Knee Brace to Reduce Knee Injuries in Football: A Prospective, Randomized Study at West Point” by Michael Sitler, EdD, LTC Jack Ryan, MD, LTC William Hopkinson, MD, MAJ James Wheeler, MD, James Santomier, PhD, and LTC Rickey Kolb, PhD

1988

“The Region of Most Isometric Femoral Attachments: Part I - Posterior Cruciate Ligament; Part II - Anterior Cruciate Ligament” by Edward S. Grood, PhD, Mohamed S. Hefzy, PhD, Frank R. Noyes, MD and Thomas N. Lindenfeld, MD

CABAUD MEMORIAL AWARD

2015

“Transcriptome Signatures of Meniscal Tears and Articular Cartilage from Knees Undergoing Arthroscopic Partial Meniscectomy May Relate to Early Osteoarthritis” by Robert H. Brophy, MD, Linda J. Sandell, PhD, Rick W. Wright, MD, M. Farooq Rai, PhD

2014

"Does Limited Internal Femoral Rotation Increase Peak Anterior Cruciate Ligament Strain During a Simulated Pivot Landing?" by Mélanie L. Beaulieu, MSc, Youkeun K. Oh, PhD, Asheesh Bedi, MD, James A. Ashton-Miller, PhD, Edward M. Wojtys, MD

2013

"Use of a Bioactive Scaffold to Stimulate Healing Also Minimizes Post-traumatic Osteoarthritis After Surgery" by Martha M. Murray, MD, Braden C. Fleming, PhD

2012

“The Effect of Mechanical Loading on Tendon to Bone Healing” by Carolyn M. Hettrich, MD, MPH, Selom Gasinu, Brandon S. Beamer, Mark Stasiak, Patrick Birmingham, Alice Fox, Xiang-Hua Deng, Olivia Ying, Scott A Rodeo, MD

2011

“The Effect of Axial Tibial Rotation and Varus or Valgus Loading on ACL Strain During a Simulated Jump Landing” by Youkeun K. Oh, PhD, David B. Lipps, MS, James A. Ashton-Miller, PhD, and Edward M. Wojtys, MD

2010

“A Comparison of Single and Double Bundle ACL Reconstructions on Pivot Shift Kinematics in ACL and Meniscus Deficient Knees” by Volker Musahl, MD, Asheesh Bedi, MD, Musa Citak, MD, Padhraig F. O’Loughlin, MD, Daniel Choi, MS, and Andrew D. Pearle, MD

2009

“Collagen-Platelet Composites Improve the Biomechanical Properties of Healing ACL Grafts in a Porcine Model” by Braden C. Fleming, PhD, Kurt P. Spindler, MD, Matthew Palmer, BS, Elise Magarian, BS, and Martha M. Murray, MD

2008

“Patellar Tendon Strain is Increased at the Site of the Jumper’s Knee Lesion During Knee Flexion and Tendon Loading: Results and Preliminary Testing of a Computational Model” by Michael Lavagnino, PhD, Steven P. Arnoczky, DVM, Niell Elvin, PhD, and Julie Dodds, MD

2007

“Clinical, Mechanical and Histopathological Evaluation of a Bioengineered Long-Term Bioresorbable Silk Fibroin Graft in a One Year Goat Study for Development .of a Functional Autologous Anterior Cruciate Ligament” by Rebecca L. Horan, PhD, John C. Richmond, MD, Paul P. Weitzel, MD, David J. Horan, MS, Enrico Mortarino, BS, Nicola DeAngelis, MD, Ivan Toponarski, MS, Jia Huang, PhD, Jason Prudom, BS, Heather Boepple, BS, and Gregory H. Altman PhD

2006

“Chondrocyte Viability in Osteoarticular Allografts: Are We Overestimating Chondrocyte Viability?” by Annunziato Amendola, MD, James Martin, PhD, and Andrew Lightfoot, BA

2005

“Fresh Osteochondral Allograft vs. Autograft: 12 Month Results in Isolated Canine Knee Defects” by Eric C. McCarty, MD, Ed Glenn, MD, Saul Julia, MA, Kurt Spindler, MD, Hollis Potter, MD, Stephanie Ho, MD, and Jeff Gordon, MS

2004

“Lyophilization Does Not Inactivate Infectious Retrovirus in Systemically Infected Bone and Tendon Allografts” by Matthew J. Crawford, DO, PhD, Cheryl Swenson, DVM, PhD, Steven Arnoczky, DVM, Jeremy O’Shea, and Herbert Ross, DO

2003

“Biomechanical Analysis of a Combined Double-Bundle Posterior Cruciate Ligament and Posterolateral Corner Reconstruction” by LCDR Jon K. Sekiya, MD, MC, USNR, Marcus Haemmerle, MPT, ATC, Kathrynne J. Stabile, MS, Tracy M. Vogrin, MS, and Christopher D. Harner MD

2002

“Hemorrhagic Medial Collateral Ligament Healing in a Mouse Model” by Rick W. Wright, MD, Manish Parikh, BS, Tracy Allen, MD, Michael D. Brodt, MS, Matthew J. Silva, PhD, and Mitchell D. Botney, MD

2001

“Interspecies Variation in the Fibroblast Distribution of the Anterior Cruciate Ligament” by Martha Meaney Murray, MD, Saul Juliao, and Kurt P. Spindler, MD

2000

“The Use of Anti-Fibrosis Agent to Achieve a Complete Muscle Recovery Following Sports Related Muscle Injuries” by Kazumasa Fukushima, MD, Johnny Huard, PhD, Neil Badlani, BS, Arvydas Usas, MD, Felix Riano, MD, and Freddie H. Fu, MD

1999

“Biomechanical Analysis of a Double Bundle Posterior Cruciate Ligament Reconstruction” by Christopher D. Harner, MD, Akihiro Kanamori, MD, Marsie A. Janaushek, BS, Masayoshi Yagi, MD, Tracy Vogrin, MS, and Savio L-Y Woo, PhD

1998

“Does Nitric Oxide Explain the Differential Healing Capacity of the Anterior Cruciate, Posterior Cruciate and Medial Collateral Ligaments?” by Christopher H. Evans, PhD, DSc, M. Cao, MD, M. Stefanovic-Racic, MD, PhD, H.I. Georgescu, BS, and Freddie.H. Fu, MD

1997

“Female Sex Hormones Influence the Cellular Metabolism of the Female Human Anterior Cruciate Ligament” by Stephen H. Liu, MD, Warren D. Yu, MD, Vahe Panossian, BS, Josh Hatch, MD, and Gerald A. M. Finerman, MD

1996

“The Effects of Lifelong Exercise on Canine Articular Cartilage” by Peter Newton, MD, Van C. Mow, PhD, Joseph Buckwalter, MD, and John P. Albright, MD

1995

“Biologic Remodeling Following ACL Reconstruction Using A Collegen Matrix Derived from Demineralized Bone: An Experimental Study in Goat Model” by Douglas W. Jackson, MD

1994

“The Effect of Femoral Tunnel Position and Graft Tensioning Technique on Laxity of the Posterior Cruciate Ligament Reconstructed Knee” by William C. Burns, II, MD, Louis F. Draganich, PhD, Michael Pyevich, BS, and Bruce Reider, MD

1993

“A Muscle Contusion Injury Model: Biomechanics, Physiology and Histology” by Joseph J. Crisco III, PhD, Peter Jokll, MD, Gregory T. Heinen, MD, Marc D. Connell, MD and Manohar M. Panjabi, PhD

1992

“A Comparison of Patellar Tendon Autograft and Allograft Used for Anterior Cruciate Ligament Reconstruction in the Goat Model” by Douglas W. Jackson, MD, Edward S. Grood, MD, Jack D. Goldstein, MD, Mark A. Rosen, MD, Peter R. Kurzweil, MD, John F. Cummings, MS, and Timothy M. Simon, MS

1991

“Cryopreserved Anterior Cruciate Ligament Allografts: Biomechanical, Clinical, and Histologic Findings in a Canine Model” by John S. Kirkpatrick, MD, Richard R. Glisson, BS, Anthony V. Seaber, and Frank H. Bassett III, MD

1990

“Meniscal Regeneration Using Co-Polymeric Collagen Scaffolds” by Kevin R. Stone, MD, William G. Rodkey, DVM, J. Richard Steadman, MD, Richard J. Webber, PhD, and LuAnn McKinney, DVM

1989

“Biological and Histological Observations On The Dog Patellar Tendon After Removal Of Its Central One-Third” by Robert T. Burks, MD, Roger C. Haut, PhD, and Ronald L. Lancaster, BS

1988

“The Biochemical and Histological Effects of Artificial Ligament Wear Particles: In vitro and in vivo Studies” by Eric J. Olson, MD, James D. Kang, MD, Freddie H. Fu, MD, Helga I. Georgescu, Gregg C. Mason, MD and Christopher H. Evans, PhD

EXCELLENCE IN RESEARCH AWARD

2015

“Neuromuscular Performance Varies with Baseline Neurocognition: Implications for Anterior Cruciate Ligament Injury Risk and Prevention” by Daniel C. Herman, MD, PhD, Jeffrey T. Barth, PhD

2014

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

2013

"Development and Validation of a Pediatric Sports Activity Rating Scale" by Peter D. Fabricant, MD, MPH, Alex Robles, BS, Timothy Downey-Zayas, BS, Huong T. Do, MA, Robert G. Marx, MD, MSc, Roger F. Widmann, MD, Daniel W. Green, MD, MS

2012

“A Comparison of Tissue Engineered Scaffold-less Bone-Ligament-Bone Constructs and Patellar Tendon Autografts Used for Anterior Cruciate Ligament Replacement in Sheep” by Jinjin Ma, MS, Michael J. Smietana, MS, Ilea T. Swinehart, BS, Tatiana Y. Kostrominova, PhD, Deneen M. Wellik, PhD, Edward M. Wojtys, MD, Lisa M. Larkin, PhD, and Ellen M. Arruda, PhD

2011

“Surgical Treatment of Femoroacetabular Impingement (FAI) Improves Hip Kinematics: A Computer-Assisted Model” by Asheesh Bedi, MD, Mark Dolan, MD, Iftach Hetsroni, MD, Erin Magennis, MSc, Joseph Lipman, MSE, Robert Buly, MD, and Bryan T. Kelly, MD, Hospital for Special Surgery, New York, New York

2010

“The Effect of Acetabular Labral Tears on Hip Stability and Labral Strain in a Joint Compression Model” by Matthew V. Smith, MD, Hemang B. Panchal, MBBS, MPH, Ramon A. Ruberte Thiele, MS, and Jon K. Sekiya, MD

2009

“An In Vitro Analysis of an Anatomic Medial Knee Reconstruction” by Benjamin R. Coobs, MD, Coen A. Wijdicks, MSc, Bryan M. Armitage, MD, Stanislav I. Spiridonov, BS, Benjamin D. Westerhaus, Steiner Johansen, MD, Lars Engebretsen, MD, PhD, and Robert F. LaPrade, MD, PhD

2008

“Defining Safe Rehabilitation For Ulnar Collateral Ligament Reconstruction of the Elbow: A Biomechanical Study” by Geoffrey A. Bernas, MD, Ramon A. Ruberte Thiele, MS, Karen A. Kinnaman, BS, Richard E. Hughes, PhD, Bruce S. Miller, MD, and James E. Carpenter, MD

2007

“High Tibial Osteotomy for Unloading Osteochondral Defects in the Medial Compartment of the Knee” by Curtis Mina MD, William E. Garrett Jr. MD, PhD, Richard Glisson BS, Ricardo Pietrobon MD, PhD, and Laurence D. Higgins MD

2006

“The Effect of Varying Hamstring Tension on ACL Strain During Knee Flexion Caused by Axial Impact Loading of the Lower Extremity In Vitro” by Thomas J. Withrow, PhD, Laura J. Huston, MS, Edward M. Wojtys, MD, and James A. Ashton-Miller, PhD

2005

“Arthroscopic Versus Open Shoulder Stabilization for Recurrent Anterior Instability: A Prospective Randomized Clinical Trial with Preoperative and Postoperative Magnetic Resonance Arthrograms” by Craig R. Bottoni MD, LTC, MC, Eric L. Smith MD, MAJ, MC, Mark J. Berkowitz MD, MAJ, MC, Robert B. Towle PT, ATC, CMD, USN, and Josef H. Moore PT, ATC, LTC, SP

2004

“Traditional Non-Steroidal Anti-Inflammatory Medications and Cyclooxygenase-2 Inhibitors Impair Rotator Cuff Tendon-to-Bone Healing” by David B. Cohen, MD, Sumito Kawamura, MD, John R. Ehteshami, MD, and Scott A. Rodeo, MD

2003

“The Effects of Medialization and Anteromedialization of the Tibial Tubercle on Patellofemoral Mechanics and Kinematics” by Arun J. Ramappa, MD, Maria Apreleva, PhD, Fraser R. Harrold, BS, Peter J. Fitzgibbons, BA, David R. Wilson, DPhil, and Thomas J. Gill, MD

2002

“Importance of Tibial Slope for Stability of the PCL-Deficient Knee” by J. Robert Giffin, MD, Tracy M. Vogrin, MS, Kathryne J. Stabile, MS, Thore Zantop, Savio L-Y. Woo, PhD, DSc, and Christopher D. Harner, MD

2001

“A Biomechanical Comparison of Tibial Inlay vs. Tibial Tunnel Posterior Cruciate Ligament Reconstruction Techniques: Graft Pretension and Knee Laxity” by David R. McAllister, MD, Keith L. Markolf, PhD, Daniel A. Oakes, MD, Charles R. Young, BS, and Justin McWilliams, BS

2000

“Biomechanical Properties and Vasculature of an Anterior Cruciate Ligament Graft Can Be Predicted by Contrast Enhanced Magnetic Resonance Imaging – A Two Year Study in Sheep” by Andreas Weiler, MD, Gunnar Peters, CM, Jurgen Maurer, MD, Frank N. Unterhauser, and Norbert P. Sudkamp, MD

1999

“The Proliferative Response of Isolated Human Tendon Fibroblasts to Cyclic Biaxial Mechanical Strain” by Johannes Zeichen, MD, Martijn van Griensven, MSc, and Ulrich Bosch, MD

1998

“Tendon to Bone Healing of a Semitendinous Tendon Graft Used for ACL Reconstruction in Sheep” by Vipool Goradia, MD, Mark C. Rochat, DVM, William A. Grana, MD, Michael D. Rohrer, DDS, and Hari S. Prasad, BS, MDT

1997

“Continuous Motion Kinematics in the Loaded Human Cadaveric Knee: The Effect of Constraint, Axis, and Cruciate Ligament Transection and the Determination of the Instant Center of Motion” by Marlene DeMaio, MD, LtCmdr, MC, USN, David P. Adkison, MD, and Young W. Kwon, PhD

1996

“Neuromuscular Performance Characteristics of Elite Female Athletes” by Laura J. Huston, MS, and Edward M. Wojtys, MD

1995

“Increased Performance, Decreased Landing Forces, and Increased Hamstrings Power in Young Female Athletes with Jump Training” by Timothy E. Hewett, PhD

1994

“The Human Posterior Cruciate Ligament: An Interdisciplinary Study” by Christopher D. Harner, MD, John W. Xerogeanes, MD, Glen A. Livesay, MS, Gregory J. Carlin, BS, Brian A. Smith, MD, Takeshi Kusayama, MD, Shinji Kashiwaguchi, MD and Savio L-Y. Woo, PhD

1993

“Deterioration of Mechanical Properties of Autograft in Controlled Stress-Shielded Augmentation Procedures: An Experimental Study” by Tokifumi Majima, MD, Kazunori Yasuda, MD, Noritaka Yamamoto, PhD, Kiyoshi Kaneda, MD, and Kozaburo Hayashi, PhD.

1992

“The Effects of a Single Corticosteroid Treatment on the Biomechanical, Biochemical and Histological Properties of a Transected Rabbit Medial Collateral Ligament” by Michael E. Wiggins, MD, William Walsh, PhD, Paul Fadale, MD, Harvey Saskaen, MD, Hans Barrach, MD, and Michael G. Ehrlich, MD

1991

“Meniscal Transplantation Using Fresh and Cryopreserved Allografts- An Experimental Study in Goats” by Douglas W. Jackson, MD, Timothy Simon, MD, Cahir A. McDevitt, PhD, Steven P. Arnoczky, DVM, E. Allan Atwell, MD, and Nicholas J. Silvino, MD

1990

“The Effect of a Meniscus Prosthesis on Knee Biomechanics and Cartilage - An Experimental Study in Rabbits” by Karola G. Sommerlath, MD and Jan Gillquist, MD, PhD (Basic Science)

“Tensile Properties of the Human Femur-Anterior Cruciate Ligament - Tibia Complex: The Effects of Specimen Age and Orientation” by Savio L-Y. Woo, PhD, J. Marcus Hollis, PhD, Douglas J. Adams, MS, Roger M. Lyon, MD, and Shinro Takai, MD (Clinical Science)

“Allograft ACL Reconstruction in a Sheep Model: The Effect of Synthetic Augmentation” by Annuziatio Amendola, MD and Peter Fowler, MD, FRCS(C) (Clinical Science)

“Graft Force-Setting Technique in Reconstruction of the Anterior Cruciate Ligament” by William D. Lew, MS, Jack L. Lewis, PhD, Lars Engebretsen, MD, and Robert E. Hunter, MD (Young Investigator)

1989

“Dynamic Joint Forces during Knee Isokinetic Exercise” by Kenton R. Kaufman, PhD, Kai-Nan An, PhD, William J. Litchy, MD, Bernard F. Morrey, MD, and Edmund Y. S. Chao, PhD (Rehabilitation)

“Viscoelastic Properties of Muscle-Tendon Units: The Biomechanical Effects of Stretching” by Dean C. Taylor, MD, James D. Dalton, Jr., BS, Anthony V. Seaber, and William E. Garrett, Jr., MD, PhD (Basic Science)

“The Characterization of Rotator Cuff Muscle Forces and Their Effect on Glenohumeral Joint Stability: A Biomechanical Study” by Daniel J. McKernan, MD, Thomas A. Mutschler, MD, M. James Rudert, MS, Alan H. Klein, MD, Gregory Victorino, MS, Christopher D. Harner, MD, and Freddie H. Fu, MD (Young Investigator)

“A Three Phase Analysis of the Prevention of Recreational Softball Injuries” by David H. Janda, MD, Edward M. Wojtys, MD, Fred M. Hankin, MD and Robert N. Hensinger, MD (Epidemiology)

1988

“Proprioception in the Anterior Cruciate Deficient Knee” by Robert L. Barrack, LCDR, MC, USNR, Harry B. Skinner, MD, PhD, and Steven L. Buckley, LCDR, MC, USNR (Clinical Study)

“Meniscal Repair in the Canine Model” by Gregory R. Palutsis, MD, John P. Albright, MD, and Robert K. Martin, PhD (Basic Science)

“Dynamic Electromyographic Analysis of Anterior Cruciate Deficient Legs With and Without Bracing During Cutting” by Thomas Branch, MD, Robert Hunter, MD, and Max Donath, PhD (Young Investigator)

NCAA RESEARCH AWARD (Discontinued)

2011

“Previous Knee Surgery is a Risk Factor for Knee Articular Cartilage Lesions Among College Football Athletes at the NFL Combine” by Robert H. Brophy, MD, Jeffrey J. Nepple, MD, Matthew J. Matava, MD, and Rick W. Wright, MD

2010

“Biomechanical Measures During Landing and Postural Stability Predict Second Anterior Cruciate Ligament Injury After ACL Reconstruction and Return to Sport” by Mark V. Paterno, PT, MS, SCS, ATC, Laura C. Schmitt, PT, PhD, Kevin R. Ford, PhD, Mitchell J. Rauh, PT, PhD, MPH, FACSM, Gregory D. Myer, MS, CSCS, Bin Huang, PhD, and Timothy E. Hewett, PhD, FACSM

2009

“A Randomized Controlled Trial to Prevent Noncontact Anterior Cruciate Ligament Injury in Female Collegiate Soccer Players” by Julie Gilchrist MD, Bert R. Mandelbaum MD, Heidi Melancon, MPH, George W. Ryan, PhD, Holly J. Silvers MPT, Letha Y. Griffin MD, PhD, Diane S. Watanabe MA, ATC, Randall W. Dick MS, and Jiri Dvorak MD

2008

*Not Given

2007

“The Epidemiology of Shoulder Instability in a Young, Athletic Population” by Brett Owens, MD, Michele Duffey, MS, Bradley Nelson, MD, Thomas DeBerardino, MD, Dean Taylor, MD, and Sally Mountcastle, PhD

2006

“A Prospective Study of Risk Factors for First Time Inversion Ankle Ligament Trauma” by Bruce D. Beynnon, PhD, Pamela M. Vacek, PhD, Joseph A. Abate III, MD, Darlene Murphy, MS, ATC, and David Paller, MS