

THOMAS R. CARTER, M.D.

Board Certified Orthopedic Surgeon with Fellowship Training in Sports Medicine

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EDUCATION AND PROFESSIONAL TRAINING

- 1989 University of Western Ontario, Ontario, Canada
Sports Medicine Fellowship – Director Peter Fowler, MD
- 1988 Jackson Hole Orthopaedics, Jackson, WY
Sports Medicine Fellowship – Director John Feagin, MD
- 1984-1988 Ohio State University, Columbus, OH
Orthopedic Residency
- 1983-1984 Ohio State University, Columbus, OH
Medical & Surgical Internship
- 1983 University of Pittsburgh, Pittsburgh, PA
Doctor of Medicine
Graduated - *Class Marshal*
 - *Vice President of Senior Class*
- 1979 Allegheny College, Meadville, PA
Bachelor of Science Degree in Biology
Minor: **Chemistry**
Graduated: *Honors in Biology*

Team Physician Affiliations Professional and College level

- 2000-Present Phoenix Suns (NBA), Phoenix, AZ
Head Team Physician
- 2017 Grand Canyon University, Phoenix, AZ
Head Orthopedic Sports Team Physician
- 2000-2007 Harlem Globetrotters, Phoenix, AZ
Head Team Physician
- 2000-Present Phoenix Mercury (WNBA), Phoenix, AZ
Orthopaedic Consultant
- 1991-2005 Arizona State University, Tempe AZ

Head of Orthopedic Surgery/Orthopedic Surgeon Sports Team Physician

2004-2013	<u>Anaheim Angels (MLB)</u> , Phoenix, AZ Orthopaedic Consultant
2000-Present	<u>Eastern Arizona College</u> , Thatcher, AZ Orthopaedic Consultant
1996-2000	<u>Phoenix Coyotes (NHL)</u> , Phoenix, AZ Orthopaedic Consultant
1990-1991	<u>Phoenix Roadrunner Professional Hockey Team</u> , Phoenix, AZ Orthopaedic Consultant
1990	<u>Phoenix Condor Professional Soccer Team</u> , Phoenix, AZ Head Team Physician
1989	<u>London Tiger Baseball</u> , Ontario, CA <u>Detroit Tigers AA Minor League Team</u> Orthopaedic Consultant

LICENSES/CERTIFICATES

- American Board of Orthopedic Surgery Certification
- State Medical Licensure Arizona

PROFESSIONAL SOCIETY MEMBERSHIPS

- American Academy of Orthopedic Surgeons
- Arthroscopic Association of North America
- American Orthopedic Society for Sports Medicine
- Anterior Cruciate Ligament Study Group
- Herodicus Society
- Arizona Orthopedic Society
- Maricopa County Medical Society

HONORS, AWARDS, AFFILIATIONS

2016	NBA HEAD TEAM PHYSICIAN AWARD 2015-2016 SEASON
2013-2017	<u>Arthroscopy Association of North America (AANA)</u> Board of Directors
2015	Copernicus Committee Task Force-ACL Reconstruction

2014	Finance Committee Member
2007-2014	Education Committee Member
2010, 2011, 2013	Course Co-Director of Chicago Learning Center Advances in Knee Surgery: Cartilage Focus
2012	Co-Director of Knee Laboratory, Fall Annual Course
2009	Director, Knee Model Laboratory Fall AANA Course
2005, 2006, 2009, 2012, 2013, 2014, 2016	Master Instructor of Knee Arthroscopy, Fall AANA Course
2008	Traveling Fellowship Host
2003-2005	Vice-Chairman, Electronic Media and Data Committee
2002	Chairman, Data Retrieval/Analysis Committee
2000-2001	Vice-Chairman, Data Retrieval/Analysis Committee
2009	<u>American Academy of Orthopedic Surgeons (AAOS)</u> Course Director: Chicago Learning Center The Comprehensive Management of Articular Cartilage Injuries
2007	<u>American Orthopedic Society for Sports Medicine (AOSSM)</u> European Traveling Fellowship Host
2000-2004	Sports Medicine Evaluation Committee
1997-2000	State Delegate
2007-Present	<u>Herodicus Society</u> Member
2013-2014	Executive Committee
2013-2014	Nominating Committee Chairman
2011-2012	<u>National Academy of Sports Medicine</u> Board Member
1998-Present	<u>Midwestern University – Arizona College of Osteopathic Medicine</u> Clinical Assistant Professor
1996-1999	<u>Arizona Medical Association, Phoenix, AZ</u> House of Delegates, Maricopa County

Inventor of commercially available devices

U.S. Patent Oct. 24, 2006 Carter et al: #US 7,124,762 B2:
Dovetail Meniscal Allograft Technique and System

-Pivot Post: leg holder for knee arthroscopy
(patent pending)

Publications in Peer Reviewed Journals/Books

In press: Meniscal allograft in Scott ed.

In press: Microfracture of OCD in Azar ed.

Getwood A, LaPrade RF, **Carter TR, et IMREF Group.** *International Meniscus reconstruction experts forum (IMERF) 2015 Consensus Statement on the Practice of Meniscal Allograft Transplantation. Am J Sports Med 2017;45:1195-1205.*

Carter T, Rabago M: *Allograft ACL Reconstruction in Patients Under 25 Years of Age.* Journal of Knee Surgery 2016;29:322-328.

Carter T: *Arthroscopically Assisted Meniscal Transplantation.* In Sgaglione N, Lubowitz J, and Provencher M (eds): *The Knee: AANA Advanced Arthroscopic Surgical Techniques.* Thorofare NJ: SLACK 2016.

Carter T: American Academy of Orthopedic Surgeons: *Appropriate Use Criteria for the Management of Osteochondritis Dissecans the Femoral Condyle* <http://www.aaos.org/ocdauc.aspx> 2015

Stevens C, **Carter T:** *Dovetail Technique.* in Getwood A et al. *Meniscal Allograft Transplantation: A Comprehensive Review.* London England: DJO Publications 2015.

Carter T, Rabago M: *Allograft ACL Reconstruction in Patients Under 25 Years of Age.* Arthroscopy 2014;30:e9.

Carter T: *Allograft Meniscus Transplantation: Dovetail Technique.* in Cole B and Sekiya J (eds): *Surgical Techniques of the Shoulder, Elbow, and Knee in Sports Medicine.* Philadelphia PA: Elsevier 2014.

Carter T: Economopoulos K: *Meniscal Allograft Shrinkage.* Journal of Knee Surgery 2013;26:167-172.

Carter T, Rabago M: *Meniscal Allograft Transplantation: 10 Year*

Follow-up. Arthroscopy 2012;28 suppl 1:e17-18.

Chhabra A, Economopoulos K, **Carter T**: *Meniscal Allografts*. in Scott: WN(ed): *Surgery of the Knee* 5th ed. Philadelphia, PA: Elsevier 2011.

Carter T: *Meniscus Repair: Outside-In Technique*. in: *Advanced Reconstruction: Knee*. Rosemont, IL: American Academy of Orthopedic Surgeons 2011.

Carter T: *Allograft Osteochondral Transplantation*. in: Ryu R(ed): *AANA Advanced Knee Arthroscopy*. Philadelphia, PA: Elsevier 2010.

Carter T: *Meniscal Allograft: Double Bone Plug Technique*. *Advanced Reconstruction: Knee. Meniscal Repair and Replacement*. (video). American Academy of Orthopedic Surgeons 2010.

Arnoczky SP, Cook JL, **Carter T**, Turner AS. *Translational models for studying meniscal repair and replacement: what they can and cannot tell us*. *Tissue Eng Part B Rev* 2010;16:31-39.

Lederman E, Nugent M, **Carter T**, Chhabra A: *Glenohumeral Joint Pathology Associated with High-Grade Acromioclavicular Joint Separations*. *Arthroscopy* 2010; 26:e10.

Smith, DB, **Carter, T**, Johnson, DH: *High Failure Rate for Electrothermal Shrinkage of the Lax Anterior Cruciate Ligament: A Multicenter Follow-up Past 2 years*. *Arthroscopy* 2008; 24(6):637-641.

Carter T: *Allograft Meniscus Transplantation: Dovetail Technique* in: Cole BJ, Sekiya JK(eds): *Surgical Techniques of the Shoulder, Elbow and Knee in Sports Medicine*. Philadelphia, PA: Saunders Publishers 2008; 471-480.

Carter T: *Meniscus Repair in 2007*. *Techniques in Knee Surgery* 2007; 6:233-241.

Davidson, PA, **Carter T**: *Osteochondral Allograft Transplantation*. *Op Tech Sports Med* 2007; 15:367-375.

Carter T: *ACL Tightening by Thermal Energy*. *Sports Medicine and Arthroscopy Review* 2005; 13(4): 198-201.

Carter T: *Meniscal Transplantation: Double Bone Plug Technique* in Cushner FD, Scott WN, Scuderi GR(eds): *Surgical Techniques for the Knee*. New York, NY: Thieme 2005; 136-140.

Carter T: *Meniscal Allograft Transplantation*. *Orthopedic Knowledge Online*. Rosemont, IL: American Academy of Orthopedic Surgeons 2005.

Carter T: *Osteochondral Allografts*. *Techniques in Knee Surgery* 2005; 4(1):2-11.

Carter T, Edinger SK: *Osteochondral Autografts for Femoral Condylar Defects*. Arthroscopy 2004;28 suppl 1:e26-e27.

Carter T: *Osteochondral Allograft Transplantation*. Sports Medicine and Arthroscopy Review 2003; 11(4):264-271.

Carter T: *Osteochondral Autogenous Transfer*. in: Cole B(ed): *Surgical Techniques in Orthopaedics: Cartilage Restoration of the Knee*. Rosemont, IL: American Academy of Orthopedic Surgeons 2003.

Carter T: *Osteochondral Allografts*. in: Callaghan J, Rosenberg A, Rubash H, Simonian P, Wickiewicz T(eds): *The Adult Knee*. Philadelphia, PA: Lippencott, Williams, & Wilkins 2003; 917-928.

McGuire D, Shelton W, **Carter T**: *Complex Knee Reconstruction: Osteotomies, Ligament Reconstruction, Transplants, and Cartilage Treatment Options*. Arthroscopy 2002 November Supplement; 18(9):90-103.

Carter T: *Anterior Cruciate Ligament Thermal Shrinkage*. Clinics in Sports Medicine 2002; 21(4):693-700.

Cole B, **Carter T**, Rodeo S: *Allograft Meniscal Transplantation*. Journal of Bone and Joint Surgery July 2002; 84-A(7):1236-1250.

Carter T: Bailie D, Edinger S: *Radiofrequency Electrothermal Shrinkage of the Anterior Cruciate Ligament*. American Journal of Sports Medicine 2002; 30(2): 221-226.

Sgaglione N, Miniaci A, Gillogly S, **Carter T**: *Update on Advanced Surgical Techniques in the Treatment of Traumatic Focal Articular Cartilage Lesions in the Knee*. Arthroscopy 2002 February Supplement; 18(2):9-32.

Carter T: *Meniscal Allograft: Keyhole Technique*. Oper Tech Sports Med 2002; 10:144-149.

Carter T: *Meniscal and Articular Cartilage Injuries*. in: Koval K(ed): *Orthopedic Knowledge Update 7*. Rosemont, IL: American Academy of Orthopedic Surgeons 2002.

Carter T: *Allograft Meniscus Transplantation*. In: Rosenberg A, Mabrey J, Woolson S (eds): *Cartilage Restoration: Alternative Techniques for the Management of Articular Disease*. Rosemont, IL: American Academy of Orthopedic Surgeons 2000.

Bobic V, Morgan C, **Carter T**: *Osteochondral Autologous Graft Transfer*. Operative Techniques in Sports Medicine 2000; 9(2):168-178.

Carter T: *Meniscal Allograft Transplantation*. In: Hewitt C, Black K(eds): *Composite Tissue Transplantation*. Austin, TX: RG Landes 1999.

Carter T: *Meniscal Allograft Reconstruction*. Sports Medicine & Arthroscopy Review 1999; 7(1):51-62.

Carter T: Edinger S: *Isokinetic Evaluation of ACL Reconstruction: Hamstring vs. Patellar Tendon*. Arthroscopy 1999; 15(2): 169-172.

Carter T, Fowler, PJ: *Functional Postoperative Treatment of Achilles Tendon Repair*. in: Torg J, Shepard R (eds): Current Therapy in Sports Medicine. St. Louis, MO: Mosby 1994.

Carter T: *Functional Postoperative Treatment of Achilles Tendon Repair*. American Journal of Sports Medicine 1992; 20(4): 459-462.

Carter T: *Osteoid Osteoma of the Hip: An Alternate Method of Excision*. Orthopedic Review 1990; 19(10): 903-905.

Carter T, Lambert K: *Pubic Diastasis with Longitudinal Fracture of the Sacral Body*. Journal of Trauma 1990; 30(5): 627-629.

Presentations – International, National and State Meetings

Meniscal Allograft Surgical Technique. AANA Articular Cartilage Apex Course, Rosemont, IL Aug 18-20, 2017.

Meniscus Transplant: Surgical Technique Video Presentation. AOSSM Annual Meeting. Toronto, Canada July 19-23, 2017.

Clinical Case Panel: Meniscus and Patellofemoral. 36th AANA Annual Meeting. Denver, CO May 18-20, 2017.

ACL Reconstruction with Tibialis Tendon Allograft: Does the Donor Age Make a Difference? E-poster 36th AANA Annual Meeting. Denver, CO May 18-20, 2017.

Meniscal Transplantation in a 23-Year-Old: How to Make It Work! Pearls and Pitfalls. Orthopaedic Summit Evolving Techniques. Las Vegas, NV December 7-10, 2016.

Allograft ACL: It's Good for All Ages. Orthopaedic Summit Evolving Techniques. Las Vegas, NV December 7-10, 2016.

Meniscal Transplants: When, Why, and by Whom? 35th AANA Annual Fall Meeting Las Vegas, NV November 10-12, 2016.

Meniscal Transplantation: When to Do It, My Preferred Technique, and Results. Innovative Techniques: the knee course 2016 Las Vegas NV October 22-24, 2016.

The Meniscus. 56th Annual AOA Postgraduate Seminar. Phoenix, AZ. April 8-10, 2016.

Meniscal Transplantation in a 23-Year-Old: How to Make It Work. Pearls and Pitfalls. *AAOS Articular Cartilage Restoration: The Modern Frontier. Chicago, IL March 31-April 2, 2016.*

ACL Reconstruction with Tibialis Tendon Allograft: Does the Donor Age Make a Difference? *ACL Study Group. Are, Sweden. March 13-17, 2016.*

ACL Allograft is Just as Good as an Option: Even in a Young Patient. *AANA Specialty Day at AAOS Annual Meeting, Orlando, FL March 5, 2016.*

A Biomechanical and In Vivo Evaluation of a Novel Cryopreserved Viable Meniscal Allograft *at AAOS Annual Meeting, Orlando, FL March 2-5, 2016.*

Osteochondral Transplantation: When and Why? *34th AANA Annual Fall Meeting. Dallas, TX Nov 12-14, 2015.*

Meniscal Transplant: Indications, Osteotomies, My Technique and Results. *Innovative Techniques of the knee course 2015. Las Vegas, NV September 17-18, 2015.*

Practical Pearls Spotlight- ACL Femoral Socket: Getting it in the Right Place in 2015 *34th AANA Annual Meeting. Los Angeles, CA. April 23-25, 2015.*

Clinical Case Panel: Articular Cartilage 2015 from MF to Biologics. *34th AANA Annual Meeting. Los Angeles, CA. April 23-25, 2015.*

ACL Allograft Works: What's the Fuss About? *AOSSM Specialty Day at AAOS Annual Meeting Las Vegas NV. March 28, 2015*

Lateral Meniscus Transplantation: Tips and Tricks. *Orthopaedic Summit 2014: Evolving Techniques in Sports Medicine and Arthroscopic Surgery Las Vegas NV. Dec. 4-6, 2014*

Allograft ACL Reconstruction Pros vs Cons. *33rd AANA Annual Fall Meeting. Palm Desert CA. Nov. 6-8, 2014.*

Knee: Microfracture. Live Lower Extremity Surgical Demonstrations Workshop. *AOSSM Annual Meeting July 10-13, 2014.*

Allograft ACL Reconstruction in Patients Under 25 Years of Age. *33rd AANA Annual Meeting Hollywood FL. May 1-3, 2014.*

New Horizons in Meniscal Preservation. Instructional Course Lecture. *33rd AANA Annual Meeting Hollywood FL. May 1-3, 2014.*

Articular Cartilage Defects: Treatment Algorithm Overview. *AANA Specialty Day at AAOS Annual Meeting. New Orleans LA. March 15, 2014.*

Meniscus Transplantation-15 Years Later- You Can Do It with Good Results. *3rd Annual Emerging Techniques in Orthopedics. Las Vegas*

NV. December 5-7, 2013.

Meniscal Root Tears: Evidence based treatment and my preferred method of treatment. *32nd AANA Annual Fall Course Las Vegas NV November 7-9, 2013*

Meniscal Allografts: Indications and techniques AANA Masters Experience-Advances In Knee Surgery: Cartilage Course. *Chicago IL October 18-20, 2013.*

Non-Biological Treatment of Patellofemoral Chondral Pathology AANA Masters Experience-Advances in Knee Surgery: Cartilage Course. *Chicago IL October 18-20, 2013*

Meniscal Issues in 2013: Preservation, Scaffolds, and Reconstruction. Instructional Course Lecture. *AANA 32nd Annual Meeting, San Antonio, TX April 25-27, 2013.*

Meniscus Tears: From Resection to Regeneration. Instructional Course Lecture. *AANA 31st Annual Meeting, Orlando World Center Marriott, Orlando, FL May 17-19, 2012.*

Meniscal Allograft Transplantation: 10 Year Follow-up. *AANA 31st Annual Meeting, Orlando World Center Marriott, Orlando, FL May 17-19, 2012.*

Update on Treatment of Primary/Small Lesions: AANA Advances in Knee Surgery, *Chicago, IL October 28-30, 2011.*

Meniscal Allografts: Indications and Techniques: AANA Advances in Knee Surgery. *Cartilage Focus-Learning Center Course, Chicago, IL October 28-30, 2011.*

Long Term Outcome of Arthroscopic Meniscectomy. *Dutch Arthroscopy Society Annual Meeting, Amsterdam, Holland April 1, 2011.*

Meniscal Repair. *Dutch Arthroscopy Society Annual Meeting, Amsterdam, Holland April 1, 2011.*

Meniscal Allograft Shrinkage-MRI Evaluation E-Poster. *8th Biennial ISAKOS Congress, Rio de Janeiro, Brazil May 15-19, 2011.*

Meniscal Allograft Transplantation: 10 Year Follow-up. *AAOS Annual Meeting, San Diego, CA February 15-19, 2011.*

Mini-Debate: How to handle a symptomatic 2cm sq full thickness articular cartilage defect in a young athlete that has failed previous reparative procedures. Osteochondral Allografts. *AANA 28th Annual Fall Course, Palm Desert, CA November 19-21, 2009.*

Treatment of Articular Cartilage Lesions Beyond the Knee. Instructional Course Lecture. *AOSSM 2009 Annual Meeting, Keystone, CO July 9-12, 2009.*

Issues in Knee Arthroscopy: A case based approach. Instructional Course Lecture. *AANA 28th Annual Meeting, San Diego, CA April 30-May 3, 2009.*

Results of Meniscal Transplantation: What we have learned. The Comprehensive Management of Articular Cartilage Injuries. *AAOS Learning Center, Rosemont, IL April 3-4, 2009.*

Revision Articular Cartilage Biosurgery: Current Concepts. *AANA Specialty Day, AAOS Annual Meeting, Las Vegas, NV Feb 28, 2009.*

The Masters Experience in Advances in Knee Surgery Cartilage Focus- Meniscal Allografts: Indications and Techniques. Master Instructor. *AANA Learning Center, Chicago IL Sept 5-7, 2008.*

Osteochondral Allografts. Instructional Course Lecture. *AOSSM Annual Meeting, Orlando, FL July 10-13, 2008.*

Complex Issues in Knee Arthroscopy: Effective Approaches to Revision ACL Surgery, Articular Cartilage Resurfacing and Osteotomy. Instructional Course Lecture. *AANA 27th Annual Meeting, Washington, D.C. April 24-27, 2008.*

Evolution in the Management of Articular Cartilage Injury: Fact, Fiction, and Science. Instructional Course Lecture. *AANA 27th Annual Meeting, Washington, D.C. April 24-27, 2008.*

Osteochondral Allografts: State of the Art 2007. *AOSSM Allograft Workshop, Calgary, Alberta July 11, 2007.*

Allografts and Patches Osteochondral/Meniscal Allografts. Instructional Course Lecture. *AOSSM 2007, Calgary, Alberta July 12-15, 2007.*

AAOS Cartilage Restoration of the Knee: Meniscus Allograft: Slot Technique. *Chicago, IL June 8-9, 2007.*

Complex Knee Cases: How to Avoid Problems and Manage Complications. Instructional Course Lecture. *AANA 26th Annual Meeting, San Francisco, CA April 26-29, 2007.*

Evolution in the Management of Articular Cartilage Injury: Fact, Fiction, and Science. Instructional Course Lecture. *AANA 26th Annual Meeting, San Francisco, CA April 26-29, 2007.*

Allograft Meniscus Transplantation: Indications, Surgical Techniques, and Results. Instructional Course Lecture. *AAOS Annual Meeting, San Diego, CA February 14-18, 2007.*

Osteochondral Autografts and Allograft. *AAOS Annual Meeting, San Diego, CA 2007, AOSSM Specialty Day, February 17, 2007.*

Osteochondral Allograft Pearls – “Technique Spotlight.” *Arthroscopy Association of North America Specialty Day, Chicago, IL March 25, 2006.*

Allograft Meniscus Transplantation: Indications, Surgical Techniques, and Results. Instructional Course Lecture. *73rd Annual Meeting American Academy of Orthopedic Surgeons, Chicago, IL March 22-26, 2006.*

Osteochondral Allografts: Tissue Sparing Treatment of Degenerative Joint Disease. *2nd Annual Discovery Forum, Houston, TX October 6-8, 2005.*

Autologous Osteochondral Graft Transfer – Indications, Technique and Results: OATS Technique. *Surgical Alternatives to Total Knee Arthroplasty American Academy of Orthopaedic Surgeons, Rosemont, IL, July 29-31, 2005.*

Meniscal Transplantation. *6th Annual AAOS/AOSSM Sports Medicine Course, The Athlete in 2005, Steamboat Springs, CO March 9-13, 2005.*

Osteochondral Transfer: Autograft vs. Allograft. *Sports Medicine Course: The Athlete in 2005 6th Annual AAOS/AOSSM, Steamboat Springs, CO March 9-13, 2005.*

Allograft Meniscus Transplantation: Surgical Techniques and Rehabilitation. *AAOS Instructional Course Lecture #124, American Academy of Orthopaedic Surgeons 72nd Annual Meeting, Washington, D.C. February 23-27, 2005.*

PCL Reconstruction: Single vs. Double Femoral Tunnel. *Winter Course Arthroscopy Association of North America, Whistler, BC, Canada January 8-11, 2005.*

Treatment of Large Chondral Defects: Articular Cartilage Implantation/Allografts. *Winter Course Arthroscopy Association of North America, Whistler, BC, Canada January 8-11, 2005.*

Meniscal Allografts: Where Do They Fit in Our Treatment Plan. *Winter Course Arthroscopy Association of North America, Whistler, BC, Canada January 8-11, 2005.*

Osteochondral Allograft Update: Graft Safety and Technical Advancements. *Fall Course Arthroscopy Association of North America 23rd, Palm Desert, CA December 2-5, 2004.*

Meniscal Transplantation: Indications, Technique, Results. *Surgical Treatment Options for Knee Injuries and Disorders, American Academy of Orthopaedic Surgeons Rosemont, IL April 30-May 2, 2004.*

ACL Reconstruction Intraoperative Complications and Salvage: *Surgical Treatment Options for the Knee Injuries and Disorders, American Academy of Orthopaedic Surgeons Rosemont, IL April 30-May2, 2004.*

New Frontiers in the Treatment of Articular Cartilage Injuries of the Shoulder, Knee and Ankle: Instructional Course Lecture. *23rd AANA Spring Meeting, Orlando, FL April 22-25, 2004.*

Osteochondral Autografts (OATS) for Femoral Condylar Defect: Five Year+ Follow-up. *23rd Annual AANA Spring Meeting, Orlando, FL April 22-25, 2004.*

Meniscal Transplantation. *5th Annual AAOS/AOSSM Sports Medicine Course, Jacksonville, FL April 1-4, 2004.*

Osteochondral Transfer: Autograft vs. Allograft. *5th Annual AAOS/AOSSM Sports Medicine Course, Jacksonville, FL April 1-4, 2004.*

Meniscal Allografts: Surgical Techniques and Rehabilitation. Instructional Course Lecture. *71st Annual AAOS Meeting, San Francisco, CA March 10-14, 2004.*

Treatment of Articular Cartilage Injuries. *Injury Prevention and Treatment Techniques. Annual Baseball Team Medicine Conference, Phoenix, AZ January 2003.*

Osteochondral Autograft Transplantations (OATS). *21st Annual Fall Course of the Arthroscopy Association of North America, Palm Desert, CA November 2002.*

Osteochondral Allograft Transplantations (OATS). *Vail Cartilage Symposium-Steadman Hawkins Sports Medicine Foundation, Vail, CO August 2002.*

Complex Knee Reconstruction: Osteotomies, Ligament Reconstruction, Transplants and Cartilage Treatment Options. *Instructional Course Arthroscopy Association of North America 21st Annual Meeting, Washington, D.C. April 2002.*

New Frontiers in the Evaluation and Treatment of Articular Cartilage Injuries. Instructional Course. *Arthroscopy Association of North America 21st Annual Meeting, Washington, D.C. April 2002.*

Meniscal Allografts: Surgical Techniques and Rehabilitation. Instructional Course. *American Academy of Orthopedic Surgeons 69th Annual Meeting, Dallas, TX February 2002.*

Comprehensive Approaches to Articular Cartilage Repair and Management – Meniscal Allograft: Options and Outcomes. *National Cartilage Course for Sports Medicine Fellows, Carlsbad, CA December 2001.*

Articular Cartilage Surgery Update – Allografts: Pros and Cons. *20th Annual Fall Course of the Arthroscopy Association of North America, San Antonio, TX November 2001.*

Radiofrequency Electrothermal Shrinkage of the Anterior Cruciate Ligament. *Arizona Orthopaedic Society Annual State Meeting, Wickenburg, AZ October 2001.*

Current Indications and Treatment for Meniscal Allografts. *American Academy of Orthopedic Surgeons Summer Institute, San Diego, CA September 2001.*

Advanced Techniques in the Treatment of Articular Cartilage Injuries – Osteochondral Allografts. *20th Annual Meeting of the Arthroscopy Association of North America, Seattle, WA April 2001.*

Allograft Meniscus Transplantation: Indications, Surgical Techniques, and Results. Instructional Course. *American Academy of Orthopedic Surgeons 68th Annual Meeting, San Francisco, CA March 2001.*

Osteoarticular Cartilage Resurfacing with Allograft. *19th Annual Fall Course of the Arthroscopy Association of North America, Palm Desert, CA November 2000.*

Radiofrequency Electrothermal Shrinkage of Anterior Cruciate Ligaments. *26th Annual Meeting of the American Orthopaedic Society for Sports Medicine, Sun Valley, ID June 2000.*

Articular Cartilage Treatment in the Year 2000. *Sports Medicine 2000, Pittsburgh, PA March 2000.*

Osteoarticular Allograft Resurfacing for Femoral Condyle Lesions Using Large Allograft Osteochondral Plugs. *18th Annual Fall Course of the Arthroscopy Association of North America, San Diego, CA November 1999.*

Treatment of Articular Cartilage Injuries. Microfracture and Oats: *American Academy of Orthopedic Surgeons, Summer Institute, Seattle, WA September 1999.*

MRI Evaluation of Knee Chondromalacia. *Western Orthopedic Society Annual Meeting, San Diego, CA August 1999.*

Treatment of Osteochondral Injuries. *American Academy of Orthopedic Surgeons Summer Institute, Chicago, IL September 1998.*

Meniscal Allograft Transplantation. *American Academy of Orthopedic Surgeons Summer Institute, Chicago, IL September 1998.*

Autogenous Osteochondral Transplantation. *Northern California Chapter, Western Orthopedic Association Spring Meeting, Santa Cruz April 1998.*

Meniscal Allograft Transplantations. *Orthopedic Associations of English-Speaking World 10th Combined Meeting, Auckland, New Zealand February 1998.*

Meniscal Allograft Transplantation. *Meniscal & Articular Cartilage Symposium, Keystone, CO January 1998.*

The Current State of Meniscal Allograft Transplantation. *Kaiser Orthopedic Update 1997, Maui, HI July 1997.*

Meniscal Allograft Transplantation. *American Orthopedic Society for Sports Medicine Annual Meeting, Sun Valley, ID June 1997.*

Isokinetic Evaluation of Anterior Cruciate Ligament Reconstruction – Patella vs. Hamstring Tendon. *American Arthroscopic Association of North America Annual Meeting, San Diego, CA April 1997.*

Lateral Release of the Knee-Holmum Laser vs. Electrocautery. *American Academy of Orthopedic Surgeons Annual Meeting – Sports Medicine Specialty Day, Toronto, Canada February 1997.*

Functional Postoperative Treatment of Achilles Tendon Repair – An Update. *Western Orthopedic Society Annual Meeting, Santa Fe, NM October 1995.*

Human Meniscal Allograft Transplantation. *American Orthopedic Society for Sports Medicine Annual Meeting, Toronto, Canada July 1995.*

Human Meniscal Allograft Transplantation. *Arizona Orthopedic Society State Annual Meeting, Phoenix, AZ June 1993.*

Functional Postoperative Treatment of Achilles Tendon Repair. *Canadian Orthopedic Association Annual Meeting, Calgary, Canada June 1991.*

Functional Postoperative Treatment of Achilles Tendon Repair. *American Orthopedic Society for Sports Medicine Annual Meeting, Sun Valley, ID July 1990.*

Carbon Fiber Implants in Osteochondral Defects of the Knee: An Experimental Rabbit Model. *Canadian Orthopaedic Residence Association Annual Meeting, Edmonton, Canada May 1990.*

Flexible Silastic Arthroplasty in Digital Replantation. *Ohio Orthopaedic Society Meeting, Cleveland, OH April 1988.*

Controlling Force & Position in the Evaluation of Talar Tilt & Anterior Drawer Stress Radiography. *American Orthopedic Association Residents Conference, Los Angeles, CA May 1986.*

A Postoperative Diagnostic Study of Acute Ankle Sprain – A Correlation of Clinical Exam to Grade of Sprain. *American Orthopedic Association Residents' Conference, Los Angeles, CA May 1986.*

Women in Sports. *National Education Teaching Symposium for High School & College Coaches, University of Washington, Seattle, WA January 1983.*