

**KEVIN ROBERT STONE, M.D.**

The Stone Clinic

Orthopaedic Surgery, Sports Medicine and Rehabilitation

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*Orthopaedic Surgeon (private practice) 1988 -*

The Stone Clinic

San Francisco, CA

*Founder and Chairman 1996 -*

Stone Research Foundation

San Francisco, CA

*Attending Staff 1988 -*

California Pacific Medical Center

San Francisco, CA

*Attending Staff 2006 -*

San Francisco Surgery Center

San Francisco, CA

*Provisional Staff 2011 –*

St. Helena Hospital

St. Helena, CA

*Founding Scientist & Chairman 1996 - 2008*

*CEO 1996 - 2008*

CrossCart, Inc.

San Francisco, CA

*Chairman 1999 -*

*CEO 1999 - 2003*

Joint Juice, Inc.

San Francisco, CA

*Founder and CEO – 2006 –*

Rescue Reel, LLC

*Scientist 1989 -2004*

Medical Research Institute of San Francisco at California Pacific Medical Center

San Francisco, CA

*Co-Founder and Founding Scientist 1984 - 1994*  
ReGen Biologics, Inc.  
San Francisco, CA

## **CERTIFICATIONS**

*Qualified Medical Examiner 1994 - 2000*  
*American Board of Orthopaedic Surgery*  
Re-Certified January 2012  
Re-Certified July 2001  
Board Certified July 1991

## **FELLOWSHIPS**

*Fellow in Knee Surgery and Sports Medicine 1986 - 1987*  
Under J. Richard Steadman, M.D.

*Visiting Research Fellow 1986*  
Hospital for Special Surgery Laboratory of Comparative Anatomy, NY  
Under Steven P. Arnoczky, D.V.M.

## **RESIDENCY**

*Resident 1983 - 1986*  
Combined Orthopaedic Residency Program  
Harvard University

*Resident 1982 - 1983*  
Department of Surgery  
Stanford University Hospital

*Intern 1981 - 1982*  
Department of Medicine  
Boston's Beth Israel Hospital

## **EDUCATION**

*The University of North Carolina School of Medicine 1977 - 1981*  
Earned M.D. with honors in medicine and surgery clerkships. Received honors in orthopaedics, general surgery, cardiology, anesthesiology, and dermatology sub-specialty electives. President of the third year Medical Class of 1981.

*Harvard College 1973 - 1977*  
Earned A.B. degree, Cum Laude, with Biology concentration. Captain of the House Crew Rowing in the Royal Henley Regatta, Henley, England. Member, Harvard Polo Club. Rowed heavyweight crew.

## **RESEARCH**

### **CrossCart, Inc.**

Xenograft ligament cartilage, bone, and tendon transplantation.  
FDA-Approved ACL Replacement Study 2003 - 2005

### **Stone Research Foundation**

Glucosamine and Athletic Performance 2007 - 2009  
Articular Cartilage Thin Shell Graft Study 2007 -  
Percutaneous Repair of the Achilles Tendon 2007 -  
Biologic Joint Repair: Subjective Outcomes 2007 -  
Paste Graft Characterization Study 2007 - 2011  
Meniscus Sizing Study 2004 - 2005  
Salvage and Repair of Osteochondritis Dissecans with Articular Cartilage Paste Grafting 2002 -  
Meniscal Allograft Replacement Study 1997 -  
Open Wedge Osteotomy Study 1997 - 2003  
Epidemiology of Baker's Cysts 1995  
Collagen Meniscus Implant Study 1993 - 2010  
Articular Cartilage Paste Grafting to Traumatic and Arthritic Knee Joint Defects 1991 -  
MRI Study of ACL Allograft Maturation – 2008 -

### **California Pacific Medical Center Research Institute 1994**

Intervertebral disc nucleus replacement using a collagen scaffold.

### **Hospital for Joint Diseases 1993**

Collaborative research, prosthetic intervertebral disc biomechanics.

### **University of Iowa, Bone Healing Laboratory 1993**

Collaborative research on suture anchor design and testing with Drs. Joy Baker and James Nepola.

### **University of Iowa, Bone Healing Laboratory 1993**

Collaborative research on intervertebral disc replacement in the canine spine with Drs. Joy Baker, Vijay Goel, and James Weinstein.

### **University of Michigan and University of Pittsburgh, Cleveland Clinic 1993**

Collaborative research on histology, biomechanics and biochemistry of a collagen meniscal implant for meniscal cartilage regeneration with Drs. Steven Arnoczky, Savio Woo, and Cahir McDevitt.

### **California Advanced Imaging 1992**

3-D MRI volume sizing of meniscal cartilage with Dr. David Stoller.

### **Medical Research Institute of San Francisco 1992**

Soft tissue augmentation.

**ReGen Biologics, The Stone Clinic, Medical Research Institute of San Francisco 1989 -1995**

FDA-approved human feasibility study of a collagen meniscus implant.

7-Year Follow-Up of Collagen Meniscus Implantation 2001 -

**Letterman Army Institute of Research 1987 - 1991**

Meniscal cartilage regeneration. Intervertebral Disc Replacement.

**Hospital for Special Surgery 1986**

Meniscal cartilage biology. Meniscal transplantation and techniques of preservation.

**Harvard Combined Orthopaedic Residency 1984 - 1986**

Oxygenation patterns and vascular anatomy of intra-articular structures.

**Harvard School of Public Health 1976 - 1977**

Carbon monoxide induced arteriosclerosis under J. Spengler.

**Harvard Medical School 1974 - 1976**

High altitude human physiology under Dr. Ross McFarland.

**AWARDS**

**Becker's Orthopedic & Spine Review**

70 of the Best Knee Surgeons in America

December 2010

**Doctor of Humane Letters - Honoris Causa**

Pacific Graduate School of Psychology

June 2003

**Clear Choice Award 2002**

"Carbonated Beverage Category"

Innovative Glass Packaging Design - Joint Juice Bottle Design

Glass Packaging Institute

**Cabaud Award 1990**

"Meniscal Regeneration Using Co-Polymeric Collagen Scaffolds."

The American Orthopaedic Society for Sports Medicine

**The Individual Orthopaedic Instruction Top Videotape of 1990**

"Anterior Cruciate Ligament and Knee Rehabilitation."

American Academy of Orthopaedic Surgeons

**The Albert Trillat Young Investigator's Award 1989**

"Replacement of the Meniscus: Original Investigation in Meniscal Regeneration and a Review."

International Society of the Knee

## **Resident's Essay Award 1987**

"Ligament and Tendon Oxygenation Measurements Using Polarographic Oxygen Sensors."  
Arthroscopy Association of North America

## **APPOINTMENTS**

espnW at ESPN - *Advisory Panel* – 2010 -  
Jeep King of the Mountain Ski Tour, *Head Physician* 2007-08  
Honda Ski Tour, *Head Physician* 2006-07  
Arthritis Foundation, *Member, Medical & Scientific Committee* 2002 - 2010  
Alonzo King's Lines Ballet, *Company Physician* 1998 -  
The Marin Ballet, *Company Physician* 1998 -  
Lawrence Pech Dance Company, *Company Physician* 1996 - 2005  
Old Blues Rugby, *Team Physician* 1996  
Berkeley Women's Rugby, *Team Physician* 1995  
Smuin Ballet, *Company Physician* 1994 -  
Sutter Street Surgery Center, *Secretary, Executive Committee* 1994 - 1995  
United States Olympic Training Center, *Orthopaedic Surgeon Volunteer* 1994  
Sutter Street Surgery Center, *Quality Assurance Committee* 1993 - 1994  
United States Modern Pentathlon, *Physician* 1990  
Professional Ski Tour, *Physician* 1989 - 1996  
International Winter Special Olympics, *Physician* 1989  
United States Ski Team, *Orthopaedic Surgeon* 1988 - 2000  
National Institutes of Health, *SBIR Grant Review Board* 1987

## **GRANTS**

"Pig Articular Cartilage as Xenograft." (NIH-SBIR) Award # 1R43 AR45321-01, 1998.

"Evaluation of a Resorbable Collagen Template for Meniscal Regeneration." Small Business Innovative Research Grant (NIH-SBIR), 1994-1995.

"Intervertebral Disc Replacements in Goats." Letterman Army Institute of Research, Research Support, 1990.

"Studies of the Effect of TGF-B on Meniscal Fibrochondrocytes Grown in Co-polymeric Collagen Based Scaffolds." Letterman Army Institute of Research, Research Support, 1989 - 1992.

"Prosthetic Meniscal Replacement in the Canine Stifle." Medical Research Institute of San Francisco. New Scientist Support, 1989 - 1992.

"Replacement of Meniscal Cartilage with a Biosynthetic Scaffold in Dogs." Letterman Army Institute of Research. Research Support, 1988 - 1992.

"Electrical Muscle Stimulation for the Prevention of Post-Operative Upper Leg Atrophy." EMPI Research Grant, 1987.

"Replacement of Meniscal Cartilage with a Biosynthetic Scaffold in Pigs." Letterman Army Institute of Research. Research Support, 1987.

## **PATENTS**

"Substantially Non-Immunogenic Injectable Collagen." US Patent 7,064,187 B2. Issued June 20, 2006.

"Substantially Non-Immunogenic Injectable Collagen." US Patent Application Publication. US 2004/0192603 A1. Issued September 30, 2004.

"Proteoglycan-Reduced Soft Tissue Xenografts." US Patent 6,455,309. Issued September 24, 2002.

"Soft Tissue Xenografts." US Patent 6,758,865 B1. Issued July 6, 2004.

"Cartilage Enhancing Food Supplements and Methods of Preparing the Same." US Patent 6,432,929. Issued August 13, 2002.

"Anterior Cruciate Ligament Xenografts." US Patent 6,402,783. Issued June 11, 2002.

"Food Supplement Containing A Cartilage Supplement." US Patent 6,391,864. Issued May 21, 2002.

"Method of Preparing Xenograft Heart Valves." US Patent 6,383,732. Issued May 7, 2002.

"Proteoglycan-Reduced Soft Tissue Xenografts." US Patent 6,267,786. Issued July 31, 2001.

"Aldehyde and Glycosidase-Treated Soft and Bone Tissue Xenografts." US Patent 6,231,608. Issued May 15, 2001.

"Anterior Cruciate Ligament Xenografts." US Patent # 6,210,440. Issued April 3, 2001.

"Suture Anchor Assembly." US Patent 6,139,565. Issued October 31, 2000.

"Method and Paste for Articular Cartilage Transplantation." US Patent # 6,110,209. Issued August 29, 2000.

"Anterior Cruciate Ligament Xenografts." US Patent # 6,110,206. Issued August 29, 2000.

"Meniscal Heterografts." US Patent # 6,093,204. Issued July 25, 2000.

"Anterior Cruciate Ligament Heterograft." US Patent # 6,063,120. Issued May 16, 2000.

"Articular Cartilage Xenographs." US Patent # 6,049,025. Issued April 11, 2000.

"Meniscal Xenografts." US Patent # 6,046,379. Issued April 4, 2000.

"Meniscal Augmentation Device." US Patent # 6,042,610. Issued March 28, 2000.

"Osteotomy Wedge Device, Kit and Methods for Realignment of a Varus Angulated Knee." US Patent # 6,008,433. Issued December 28, 1999.

"Meniscal Xenografts." US Patent # 5,984,858. Issued November 16, 1999.

"Method and Paste for Articular Cartilage Transplantation." US Patent # 5,964,805. Issued October 12, 1999.

"Articular Cartilage Surface Shaping Apparatus and Method." US Patent # 5,964,752. Issued October 12, 1999.

"Articular Cartilage Xenografts." US Patent # 5,944,755. Issued August 31, 1999.

"Articular Cartilage Heterografts." US Patent # 5,922,027. Issued July 13, 1999.

"Articular Cartilage Transplant Instrument Set." US Patent # 5,921,987. Issued July 13, 1999.

"Substantially Native Meniscal Cartilage Heterografts." US Patent # 5,913,900. Issued June 22, 1999.

"Anterior Cruciate Ligament Heterograft." US Patent # 5,902,338. Issued May 11, 1999.

"Technique for Osteocartilaginous Transplantation in a Mammalian Joint." US Patent # 5,881,733. Issued March 16, 1999.

"Meniscal Heterografts." US Patent # 5,865,849. Issued February 2, 1999.

"Suture Anchor Assembly." US Patent # 5,824,011. Issued October 20, 1998.

"Articular Cartilage Heterografts." US Patent # 5,782,915. Issued July 21, 1998.

"Meniscal Augmentation Device." US Patent # 5,735,903. Issued April 7, 1998.

"Anterior Cruciate Ligament Repair Method." US Patent # 5,702,422. Issued December 30, 1997.

"Meniscal Augmentation Device." US Patent # 5,681,353. Issued October 28, 1997.

"Prosthetic Articular Cartilage." US Patent # 5,624,463. Issued April 29, 1997.

"Arthrometer with Gravity Switches and Adjustable Limit Signaling." US Patent # 5,586,559. Issued December 24, 1996.

"Suture Anchor Assembly." US Patent # 5,443,482. Issued August 22, 1995.

"Arthrometer with Gravity Switches and Adjustable Limit Signaling." US Patent # 5,394,888. Issued March 7, 1995.

"Suture Anchor Assembly." US Patent # 5,370,662. Issued December 6, 1994.

"Prosthetic Articular Cartilage." US Patent # 5,306,311. Issued April 26, 1994.

"Prosthetic Ligaments." US Patent # 5,263,984. Issued November 23, 1993.

"Method for Making a Prosthetic Intervertebral Disc." US Patent # 5,258,043. Issued November 2, 1993.

"Apparatus and Method for Measuring Range of Motion of an Articulated Joint." US Patent # 5,253,655. Issued October 19, 1993.

"Prosthetic Meniscus." US Patent # 5,158,574. Issued October 27, 1992.

"Prosthetic Meniscus." US Patent # 5,116,374. Issued May 26, 1992.

"Prosthetic Intervertebral Disc." US Patent # 5,108,438. Issued April 28, 1992.

"Prosthetic Meniscus." US Patent # 5,007,934. Issued April 16, 1991.

"Prosthetic Meniscus." US Patent # 4,880,429. Issued November 14, 1989.

## **PUBLICATIONS**

"Long-term survival of concurrent meniscus allograft transplantation and articular cartilage repair: A Prospective Two- To 12-Year Follow-Up Report." J Bone Joint Surg Br 92-B(7): 941-948. Stone K.R., Adelson W.S., Pelsis J.R., Walgenbach A.W., Turek T.J. 2010.

"Meniscus reconstruction: the new field of rebuilding meniscus cartilage." Stone KR, Pelsis JR, Adelson, WS, Walgenbach, AW. Knee Surgery, Arthroscopy, Sport Traumatology, 7(3): 9 – 18, 2010.

"Meniscal Sizing Based on Gender, Height, and Weight." Stone KR, Freyer A, Turek T, Walgenbach AW. Arthroscopy: The Journal of Arthroscopic and Related Surgery. May 2007;23(5):503-8.

"Anterior Cruciate Ligament Reconstruction with a Porcine Xenograft: A Serologic, Histologic, and Biomechanical Study in Primates." Stone KR, Walgenbach AW, Turek TJ, Somers DL, Wicomb W, Galili U. Arthroscopy: The Journal of Arthroscopic and Related Surgery. April 2007;23:411-419.

"Replacement of Human Anterior Cruciate Ligaments with Pig Ligaments: A Model for Anti-Non-Gal Antibody Response in Long-Term Xenotransplantation." Stone KR, Abdel-Motal UM, Walgenbach AW, Turek TJ, Galili U. Transplantation. January 2007;83:211-219.

"Articular Cartilage Paste Grafting: Use in Primary Lesions and Failed Chondroplasty." Stone KR, Walgenbach AW, Keller LE, Freyer A. Basic Science, Clinical Repair and Reconstruction of Articular Cartilage Defects: Current Status and Prospects, 2006.

"Lessons Learned From Our First 100 Meniscus Allograft Transplants in Arthritic Knees." Stone KR, Walgenbach AW, Freyer A. *Musculoskeletal Tissue Regeneration: Biological Materials and Methods*, Humana Press, In press.

"Salvage of Failed Knee Chondroplasty Using Articular Cartilage Paste Grafting." Stone KR, Walgenbach AW, Keller LE, Smetana B. *Postsurgical Orthopedic Sports Rehabilitation - Knee and Shoulder*, Manske RC, 2006.

"Meniscus Allograft Survival in Patients with Moderate to Severe Unicompartmental Arthritis: A 2- to 7-Year Follow-up." Stone KR, Walgenbach AW, Turek TJ, Freyer A, Hill M. *Arthroscopy: The Journal of Arthroscopic and Related Surgery*, Vol 22, No 5 (May), 2006: pp 469-478.

"Articular Cartilage Paste Grafting to Full-Thickness Articular Cartilage Knee Joint Lesions: A 2- to 12-Year Follow-up." Stone KR, Walgenbach AW, Freyer A, Turek TJ, Speer DP. *Arthroscopy: The Journal of Arthroscopic and Related Surgery*, Vol 22, No 3 (March), 2006: pp 291-299.

"Articular Cartilage Paste Grafting." Stone, KR, Walgenbach, AW. *Surgical Techniques for the Knee*, Cushner, FD, Scott, WN, Scuderi, GR, 2005.

"Natural Anti-Inflammatories: Dealing with Arthritic Pain-Drugs vs Diet" Stone KR, Freyer A. *Orthopedic Technology Review*, July 2005.

"Comprehensive Sports Injury Management." Taylor J, Stone KR, Mullin M, Ellenbecker T, Walgenbach A. Second Edition, 2003.

"Meniscal Allografting: The Three-Tunnel Technique." Stone KR, Walgenbach AW. *Arthroscopy: The Journal of Arthroscopic and Related Surgery*, April 2003.

"Articular Cartilage Repair—The Paste Graft Technique." Stone KR. *Surgery of the Knee-Third Edition*, Insall JN, Scott WN, 2001.

"Meniscus Regeneration by Collagen Meniscus Scaffolding." Stone KR. *Surgery of the Knee-Third Edition*, Insall JN, Scott WN, 2001.

"New Techniques for Cartilage Repair and Replacement." Stone KR, Mullin MJ. *Knee Ligament Rehabilitation*, Ellenbecker TS, June 2000.

"Kinematic MRI: Evaluation of the Effect of Bracing on Patellar Positions: Qualitative Assessment Using an Extremity MR System." Shellock FG, Mullin MJ, Stone KR, Coleman M, Crues JV. *Journal of Athletic Training*, February 2000.

"Extremity MR System: Subjective Perceptions of MRI Examinations." Shellock FG, Stone KR, Resnick D, Peterfy CG, Crues JV. *Signals, SMRT*, January 2000.

"Determination of Chondral Lesions Using a 0.2 Tesla Extremity MR System: Diagnostic Findings Compared to Arthroscopy." Shellock FG, Walgenbach A, Stone K, Crues JV. *Radiology*, 214:P07H, 2000.

"Current and Future Directions for Meniscus Repair and Replacement." Stone KR. *Clinical Orthopaedics*, 367:S273-280, October 1999.

"Development and Clinical Application of Kinematic MRI of the Patellofemoral Joint Using An Extremity MR System." Shellock FG, Stone KR, Crues JV. *Medicine and Science in Sports and Exercise*, 31:788-791, 1999.

"Evaluation of the Knee Using an Extremity MRI System: Diagnostic Findings Compared to Arthroscopy." Shellock FG, Stone K, Crues JV. *Medicine and Science in Sports and Exercise*, 30:S123, 1998.

"Articular Cartilage Paste Grafting: Surgical Techniques and Initial Results." Stone KR, Walgenbach AW. *Journal of Sports Traumatology and Related Research*, Vol. 20, No. 2, 1998.

"Porcine Cartilage Transplants in Cynomolgus Monkey: III. Transplantation of Alpha Galactosidase Treated Porcine Cartilage." Stone KR, Ayala G, Goldstein J, Hurst R, Walgenbach AW, Galili U. *Transplantation*, Vol. 65, No. 12, pg. 1577-1583, June 27, 1998.

"Regeneration of Meniscal Cartilage With Use of a Collagen Scaffold." Stone KR, Steadman JR, Rodkey WG, Li ST. *Journal of Bone and Joint Surgery*, Vol. 79-A, No. 12, December 1997.

"Porcine and Bovine Cartilage Transplants in Cynomolgus Monkey: II. Changes in Anti-Gal Response During Chronic Rejection." Galili U, LaTemple DC, Walgenbach AW, Stone KR. *Transplantation*, Vol. 63, No. 5, pg. 646-651, March 15, 1997.

"Porcine and Bovine Cartilage Transplants In Cynomolgus Monkey: I. A Model for Chronic Xenograft Rejection." Stone KR, Walgenbach AW, Abrams JT, Nelson J, Gillett N, Galili U. *Transplantation*, Vol. 63, No. 5, pg. 640-645, March 15, 1997.

"Surgical Technique and Results for Articular Cartilage Transplantation to Traumatic and Arthritic Defects in the Knee Joint." Stone KR, Walgenbach AW. *Operative Techniques in Orthopaedics*, Vol. 7, No. 4, pg. 305-311, October 1997.

"Arthroscopic Meniscal Scaffolding and Meniscal Reconstruction Using the Collagen Meniscus Implant." Stone KR, Steadman JR, Rodkey WG, Li, ST. *Reconstruction of The Knee Joint*, (Eds.):105-106, 1997.

"Meniscus Replacement." Stone KR. *Clinics in Sports Medicine*, Vol. 15, No 3, pg. 557-571, July 1996.

"Autogenous Replacement of the Meniscus Cartilage: Analysis of Results and Mechanisms of Failure." Stone KR, Rodkey WG, McKinney LA, Webber RJ, Steadman JR. *Journal of Arthroscopy & Related Surgery*, Vol. 2, No. 4, August 1995.

"Evaluation of a New Hemostatic Agent in Experimental Splenic Laceration." Horton JW, Garcia NM, Stone KR. *Archives of Surgery*, Vol. 130, pg. 161-164, February 1995.

"3-D MRI Volume Sizing of Knee Meniscus Cartilage." Stone KR, Stoller DW, Irving SG, Elmquist C, Gildengorin G. *Arthroscopy: The Journal of Arthroscopic and Related Surgery*, 10 (6):641-644, 1994.

"Replacement of the Irreparably Injured Meniscus." Rodkey WG, Stone KR, Steadman JR. *Sports Medicine and Arthroscopy Review*, Vol. 1, No. 2, pg. 168-176, 1993.

"Surgical Technique of Meniscal Replacement." Stone KR. *Arthroscopy: The Journal of Arthroscopic & Related Surgery*, Vol 9, pg. 234-237, April 1993.

"Prosthetic Meniscal Replacement." Rodkey WG, Stone KR, Steadman JR. *Biology and Biomechanics of the Traumatized Synovial Joint: The Knee as a Model*, pg. 161-164, February 1993.

"Rigenerazione Meniscale Indotta da Scaffolds di Collagene Co-polimerico." Stone KR, Rodkey WG, Webber RJ, McKinney L, Steadman JR. *Artroscopia & Ginocchio*, Vol 1/n. 1: 85-105, 1993.

"Development of a Prosthetic Meniscal Replacement." Stone KR, Rodkey WG, Webber RJ, McKinney L, Steadman JR. *Knee Meniscus: Basic and Clinical Foundations*. Mow, VC, ed. New York: Raven Press, 165-173, 1992.

"Meniscal Regeneration With a Co-polymeric Collagen Scaffold." Stone KR, Rodkey WG, Webber RJ, McKinney L, Steadman JR. *The American Journal of Sports Medicine*, Vol. 20, No. 2: 104-111, 1992.

"Strengthening and Skiing on the Aging Knee." Stone KR, Potts CR. *The Professional Skier*, Winter One 1991 - 92.

"The Excruciating Cruciate." Stone KR, Potts CR. *Men's Fitness*, January 1992.

"Changes in Knee Stability After Bone-Patellar Tendon-Bone Graft Anterior Cruciate Ligament Reconstruction and Iliotibial Band Tenodesis." Paschal SO, Stone KR, Steadman JR. *The American Journal of Knee Surgery*, 4(4):173-185, Fall 1991.

"Future Directions: Collagen Based Prostheses for Meniscal Regeneration." Stone KR, Rodkey WG, Steadman JR, Webber RJ, McKinney, L. In *symposium Newest Knowledge of the Knee Joint Meniscus, Clinical Orthopaedics and Related Research*, Volume 252, pg.129-135, March 1990.

"The Ankle Joint: Ankle Ligament Injuries." Stone KR, Potts C. *The Professional Skier*, 3:14, Winter 1990.

"The Knee Joint Meniscus Cartilage: Injury and Prevention." Stone KR. *The Professional Skier*, 1: 54-56, Winter 1989.

"The Knee Joint Anterior Cruciate Ligament: Injury and Prevention." Stone KR. *The Professional Skier*, 3: 48-49, Winter 1989.

"Understanding the Knee Joint Meniscus." Stone KR. *Pacific Med Views*, 6(3): 2-3, Fall 1989.

"Understanding the Meniscus." Stone KR. American Ski Coach, September 1987.

"Ligament and Tendon Oxygenation Measurements Using Polarographic Oxygen Sensors." Stone KR, Bowman HF, Boland A, Steadman JR. Arthroscopy: The Journal of Arthroscopic and Related Surgery, 3(3):187-195, 1987.

"The Pre-Sports Physical: Only the First Step." Micheli LJ, Stone KR. The Journal of Musculoskeletal Medicine, May 1984.

"Primary Hepatocellular Carcinoma Following Non-A, Non-B Post-Transfusion Hepatitis." Resnick RH, Stone KR, Antonioli D. Digestive Diseases and Sciences, Vol. 28, No. 10, October 1983.

"High Carbon Monoxide Levels Measured in Enclosed Skating Rinks." Spengler JD, Stone KR, Lilley FW. J. Air Pollution Control Assoc., Vol. 28, No. 8, p. 776-779, August 1978.

### **INSTRUCTIONAL VIDEOTAPES**

"The Three Tunnel Technique of Meniscal Allografting." November 1999. Presented at ISAKOS, Montreaux, Switzerland, 2001.

"Articular Cartilage Paste Grafting, 2-7 year follow-up." November 1999.

"Anterior Cruciate Ligament and Knee Rehabilitation for the 1990's." American Academy of Orthopaedic Surgeons Videotape Library 1992.

"Anterior Cruciate Ligament and Knee Rehabilitation." American Academy of Orthopaedic Surgeons Videotape Library 1990.

CNN Edge of Discovery - Rescue Reel, December 2010.

### **ABSTRACTS AND PRESENTATIONS**

"Biologics: You 2.0." Stone, KR. Harvard Supper Series, San Francisco CA, November 15, 2011.

"Biologic Joint Replacement: The Future of Joint Replacement Surgery Using Stem Cells Paste Grafting, Meniscus Allografts, Shell Grafting and Allo and Xenograft Ligaments." Stone KR. 9th Annual Orthopedic, Spine and Pain Management-Driven ASC Conference - Ambulatory Surgery Center Association, Chicago IL, June 10, 2011.

"Xenograft Transplantation," Stone, KR. 8th Biennial ISAKOS Congress, Rio de Janeiro, Brazil, May 18, 2011.

"Meniscus Transplantation." Stone, KR. Biennial ISAKOS Congress, Rio de Janeiro, Brazil, May 14, 2011.

“Patient Case Study.” Stone KR, California Pacific Medical Center Grand Rounds, San Francisco, CA, April 8, 2011.

“Biology trumps Bionics: The Future of Biologic Joint Replacement.” Stone KR. Commonwealth Club of California, San Francisco CA, March, 16, 2011.

“Rescue Reel” – TED Conference, Long Beach CA, March 1, 2011.

“Biofuture of Joint Replacement” – TED Conference, Long Beach CA, February 10, 2010.

“Biology trumps Bionics: The Future of Biologic Joint Replacement.” Stone, KR. National American Osteopathic Association Conference, San Francisco California, October 25, 2010.

“Long-Term Survival of Concurrent Meniscus Allograft Transplantation and Articular Cartilage Repair: A Prospective 2- to 12-Year Follow-Up Evaluation.” Stone KR, Adelson WS, Pelsis JR, Walgenbach A, Turek TJ. 9th World Congress of the International Cartilage Repair Society, Barcelona Spain, September 27, 2010.

“Collagen Meniscus Implant - Meniscus Reconstruction.” Stone KR, California Pacific Medical Center Grand Rounds, San Francisco, CA, April 23, 2010.

“Long-Term Survival of Concurrent Meniscus Allograft Transplantation and Articular Cartilage Repair.” Stone KR, Walgenbach AW, Adelson WS, Pelsis JR, Turek TJ. 2010 AAOS Annual Meeting, New Orleans LA, March 12, 2010.

“Long-Term Survival of Concurrent Meniscus Allograft Transplantation & Articular Cartilage Repair: A Prospective 2 – 12 Year Follow Up Evaluation.” Stone KR, Walgenbach AW, Adelson WS, Pelsis JR, Meniscus Transplantation Study Group Annual Meeting, New Orleans, LA, March 11 2010.

“Back to the Future: Use of Xenografts.” Stone KR, Turek TJ, ACL Study Group, Phuket, Thailand, February 2010.

“Long-Term Survival of Concurrent Meniscus Allograft Transplantation & Articular Cartilage Repair: A Prospective 2 – 12 Year Follow Up Evaluation.” Stone KR, Walgenbach AW, Adelson WS, Pelsis JR, ACL Study Group, Phuket, Thailand, February 2010.

“Rehabilitation - Meniscus Allograft Transplantation.” Stone KR, Keller L, Switzerland, January 15 2010.

“Meniscus Allograft – State of the Art.” Stone KR, Walgenbach AW, Adelson WS, Pelsis JR, Switzerland, January 15 2010.

“Salvage of Large OCD Lesions: Articular Cartilage Paste Grafting.” Stone KR, California Pacific Medical Center Grand Rounds, San Francisco CA, February 13, 2009.

"Cartilage and Xenografts." Stone KR, Turek, TJ. 8th World Congress of the International Cartilage

Repair Society, Miami FL, May 24, 2009.

"How Important is Meniscus Transplant in the Treatment of Knee Arthritis?" Stone KR. VIII Congress of the Portuguese Association of Arthroscopy and Sports Traumatology, Oeiras, Portugal, September 27, 2007.

"Treatment of ACL Ruptures with Xenografts. Where Are We Today?" Stone KR, Walgenbach AW, Turek TJ. Congress of the Portuguese Association of Arthroscopy and Sports Traumatology, Oeiras, Portugal, September 27, 2007.

"Biological Knee Reconstruction: A Technique in its Infancy." Stone KR, Walgenbach AW, Freyer A, Turek TJ. Mayo Clinic Sports Medicine Grand Rounds, June 15, 2007.

"Articular Cartilage Paste Grafting with Meniscus Transplantation." Stone KR. AAOS Cartilage Restoration of the Knee #311, Rosemont IL, June 8, 2007.

"Immunological Considerations in Orthopaedic Xenografting." Stone KR, Walgenbach AW, Turek TJ, Galili U. ISAKOS 6th Biennial Congress, Florence Italy, May 27, 2007.

"Achilles Tendon: Open versus Percutaneous Repair." Stone KR. Orthopaedic Grand Rounds, California Pacific Medical Center (CPMC), San Francisco, CA, April 13, 2007.

"From Allograft to Biologic Joint Replacement." Meniscus Transplantation Study Group, American Academy of Orthopaedic Surgeons, San Diego CA, February 15, 2007.

"Meniscus Allograft Survival in the Arthritic Knee." Stone KR, Walgenbach AW, Freyer A, Turek TJ. International Association for Joint Reconstruction, Munich Germany, October 6, 2006.

"Articular Cartilage Paste Grafting." Stone KR, Walgenbach AW, Freyer A, Turek TJ. International Association for Joint Reconstruction, Munich Germany, October 6, 2006.

"Meniscal Repair and Transplantation." Stone KR, Walgenbach AW, Freyer A, Turek TJ. International Association for Joint Reconstruction, Munich Germany, October 6, 2006.

"Biological Knee Reconstruction: A Technique in its Infancy." Stone KR, Walgenbach AW, Freyer A, Turek TJ. 2<sup>nd</sup> Annual Orthopaedic Surgery Education Day, California Pacific Medical Center (CPMC), San Francisco, CA, September 29, 2006.

"IM Fixation of Mid 1/3<sup>rd</sup> Clavicle Fractures." Stone, KR. Orthopaedic Grand Rounds, California Pacific Medical Center (CPMC), San Francisco, CA, August 18, 2006.

"Xenograft Ligament Transplantation: Development of a Porcine Xenograft for ACL Reconstruction." Stone KR, Turek TJ. XXIV Congreso de la Asociacion Espanola de Artroscopia, Leon, Spain, May 12, 2006.

"Meniscus Repair." Stone KR, Walgenbach AW, Freyer A, Turek TJ. XXIV Congreso de la Asociacion Espanola de Artroscopia, Leon, Spain, May 11, 2006.

"Meniscus Allograft: State of the Art." Stone KR, Walgenbach AW, Turek T, Freyer A. XXIV Congreso de la Asociacion Espanola de Artroscopia, Leon, Spain, May 10, 2006.

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"Comparison of Patients Receiving Autografts, Allografts, and Xenografts: Preliminary MRI Findings." Crues JV, Nguyen G, Winkler B, Stone KR, Turek TJ. ACL Study Group, Kona, Hawaii, March 28, 2006.

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"Immunological Considerations in Orthopaedic Xenografting: The Path to the Xeno Meniscus." Stone KR, Walgenbach AW, Turek TJ, Galili U. Basic Biology of the Meniscus Discussion Group, Orthopaedic Research Society, Chicago, Illinois, March 22, 2006.

"Can a Meniscus Allograft Survive in the Arthritic Knee?" Stone KR, Walgenbach AW, Turek TJ, Freyer A. Orthopaedic Research Society, Chicago, Illinois, March 19, 2006.

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"Biological Knee Reconstruction – A Technique in its Infancy." Stone KR. Brown University Grand Rounds and Basic Science Conference, Providence, Rhode Island, June 1, 2005.

"Can A Meniscus Allograft Survive in the Arthritic Knee?" Stone KR, Walgenbach AW, Hill MD, Turek TJ, Freyer A. Arthroscopy Association of North America 24<sup>th</sup> Annual Meeting, Vancouver, British Columbia, Canada, May 14, 2005.

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"Meniscus Sizing Based on Height and Weight" Stone KR, Turek TJ, Freyer A. Meniscus Transplantation Study Group, American Academy of Orthopaedic Surgeons, Washington, DC, February 24, 2005.

"Biologic Knee Reconstruction including Articular Cartilage Paste Grafting and Meniscus Transplantation." Stone KR. John Hopkins 3<sup>rd</sup> Annual Joint Preserving Treatment of the Hip and Knee, Ocean City, Maryland, October 8, 2004.

"Meniscus Allograft Survival in Patients with Moderate to Severe Arthritis: 2-5 Year Follow-up." Stone KR, Walgenbach AW, Speer DP, Hill MD. Western Orthopaedic Association, San Francisco, California, September 30, 2004.

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"Meniscal Allografts in Patients with Severe Arthrosis." Stone KR. Meniscus Transplantation Study Group, New Orleans, Louisiana, February 6, 2003.

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"Biological Knee Replacement with Articular Cartilage Paste Graft, Meniscal Allograft and Opening Wedge Osteotomy." Stone KR, Walgenbach AW. Australian Knee Society Annual Scientific Meeting, Hobart, Australia, October 8 - 13, 2000.

"Xenograft ACL Device Development." Stone KR, Walgenbach AW, Turek TJ, Wicomb W, Galili U. Australian Knee Society Annual Scientific Meeting, Hobart, Australia, October 8 - 13, 2000.

"Xenograft Ligament Reconstruction." Stone KR, Walgenbach AW. ACL Study Group, Rhodes, Greece, May 20 - 26, 2000.

"Articular Cartilage Paste Grafting to Arthritic and Traumatic Knee Joint Lesions: Two to Seven Year Follow-Up." International Society of Arthroscopy, Knee Surgery, and Orthopaedic Sports Medicine Biennial Congress, Washington, DC, May 29 - June 2, 1999.

"Treatment of Severely Damaged Articular Surface with Articular Cartilage Paste Graft, Meniscal Allograft, and Opening Wedge Osteotomy." Arthroscopy Association of America 18<sup>th</sup> Annual Meeting, Vancouver, British Columbia, Canada, April 15 - 18, 1999.

"Surgical Technique and Initial Results for Articular Cartilage Transplantation to Traumatic and Arthritic Defects in The Knee Joint." Stone KR, Walgenbach AW. European Society of Sports Traumatology, Knee Surgery and Arthroscopy, Nice, France, April 30, 1998.

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"Surgical Technique and Initial Results for Articular Cartilage Transplantation to Traumatic and Arthritic Defects in the Knee Joint." Stone KR, Walgenbach AW. ACL Study Group, Beaver Creek, Vail, Colorado, March 31, 1998.

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"Surgical Technique and Initial Results for Articular Cartilage Transplantation to Traumatic and Arthritic Defects in the Knee Joint." Stone KR, Walgenbach AW. Orthopaedic Research Society 44<sup>th</sup> Annual Meeting, New Orleans, Louisiana, March 17, 1998.

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"Meniscus Regeneration Using A Collagen Scaffold: Analysis of Preliminary Data." Stone KR, Steadman JR, Rodkey WG, Li S. American Academy of Orthopaedic Surgeons, February 1997.

"Articular Cartilage Transplantation to Traumatic and Arthritic Defects in the Knee. Surgical Technique and Results." Stone KR, Walgenbach AW. California Orthopaedic Association Annual Meeting, April 1996.

"Collagen As A Biomaterial: An Application In Knee Meniscal Fibrocartilage Regeneration." Li S, Yuen D, Li P, Rodkey WG, Stone KR. The 20th Annual Meeting of Society for Biomaterials, Boston, Massachusetts, April 1994.

"Feasibility Study of a Collagen Meniscal Implant: Surgical Technique and Patient Selection." Stone KR. Steadman Hawkins Sports Medicine Foundation, December 1993.

"3-D MRI Sizing of the Meniscus Cartilage and Kinematic MRI Evaluation of Prosthetic Meniscal Motion." Stone KR, Stoller DW, Denny M, Elmquist C, Irving S. Combined Congress of the International Arthroscopy Association and the International Society of the Knee, Copenhagen, Denmark, June 29, 1993.

"Surgical Technique of Meniscal Replacement." Stone KR, Rosenberg TD. Arthroscopy Association of North America Annual Meeting, Palm Desert, California, April 1993.

"3-D MRI Sizing of the Meniscus Cartilage and Kinematic MRI Evaluation of Prosthetic Meniscal Motion." Stone KR, Stoller DW, Denny M, Elmquist C, Irving S. California Orthopaedic Association Annual Meeting, Sacramento, California, May 1992.

"Collagen Based Meniscal Scaffold: One Year Evaluation in the Canine Stifle." Stone KR, Rodkey WG, Steadman JR, Webber RG, McKinney L. European Society for Artificial Organs, Bologna, Italy, September 1990.

"Prosthetic Meniscal Replacement in Dogs Using Resorbable Co-Polymeric Collagen Prosthesis." Stone KR, Rodkey WG, Steadman JR, Webber RG, McKinney L. Societe Internationale de Chirurgie Orthopedique et de Traumatologie, 18th World Congress, Montreal, Canada, September 1990.

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"Prosthetic Meniscal Replacement." Stone KR, Rodkey WG, Steadman JR, Webber RG, McKinney L. ACL Study Group, Engelberg, Switzerland, March 1990.

"Prosthetic Meniscal Replacement in Dogs Using Resorbable Co-polymeric Collagen Prostheses." Stone KR, Rodkey WG, Steadman JR, Webber RG, McKinney L. Transactions of the 57th Annual Meeting of the American Academy of Orthopaedic Surgeons, New Orleans, Louisiana, February 1990.

"High Turnover Osteopenia with Mineralizing Defect in a Patient with Stress Fractures." Kolb FO, Stone KR. Transactions of the 4th Annual Meeting of the Adult Bone and Mineral Working Group, September 9, 1989.

"In Vitro Studies of Meniscal Regeneration Using Co-polymeric Collagen Prostheses." Stone KR, Webber R, Steadman JR, Rodkey WG. Arthroscopy: The Journal of Arthroscopic and Related Surgery, 5(2): 153, 1989.

"Cellular Repopulation of Deep-Frozen Meniscal Autographs - An Experimental Study." Arnoczky SP, O'Brien SJ, DiCarlo EF, Warren RF, Stone KR. Orthopaedic Transactions, 12(2): 431, Summer 1988.

## **POSTER SESSIONS**

"The use of articular cartilage paste graft in massive articular cartilage defects of the femoral condyle." Stone KR, Pelsis JP, Crues JV, Dang D, Adelson W, Freyer A, Turek TJ. Arthroscopy Association of North America (AANA), San Francisco CA, April 14 – 16; 2011.

"The use of articular cartilage paste graft in massive articular cartilage defects of the femoral condyle." Stone KR, Crues JV, Dang D, Pelsis J, Adelson W, Freyer A, Turek TJ. 57th Annual Meeting of the Orthopaedic Research Society (ORS), Long Beach California, January 13 – 16, 2011.

"Human Articular Cartilage Paste Graft from OA and Chondral Defect Joints Generates Tissue Engineered Cartilage Constructs In Vitro." Ratcliffe A, Ratcliffe J, Turek TJ, Adelson W, Stone KR. 57th Annual Meeting of the Orthopaedic Research Society (ORS), Long Beach California, January 13 – 16, 2011.

"Long-term survival of concurrent meniscus allograft transplantation and articular cartilage repair: A prospective 2 – 12 year follow-up evaluation." Stone KR, Adelson W, Pelsis J, Walgenbach A, Turek, TJ. International Symposium on Ligaments & Tendons – XI, Irvine California, January 12, 2011.

"Long-Term Survival of Concurrent Meniscus Allograft Transplantation and Articular Cartilage Repair" Stone KR, Walgenbach AW, Adelson WS, Pelsis JR, Turek TJ. 2010 American Academy of Orthopaedic Surgery (AAOS) Annual Meeting, New Orleans Louisiana, March 9 – 14, 2010.

"Salvage and Repair of Osteochondritis Dissecans with Articular Cartilage Paste Grafting." Stone KR, Freyer A, Turek T, Walgenbach A. International Cartilage Repair Society (ICRS), Warsaw, Poland, September 2007.

"Porcine Xenografts as Functional Scaffolds for ACL Reconstruction." Stone KR, Walgenbach AW, Turek TJ, Galili U. International Symposium on Tendon and Ligaments – VI, Chicago, Illinois, March 18, 2006.

"Immunological Considerations in Orthopaedic Xenografting." Stone KR, Walgenbach AW, Turek TJ. Orthopaedic Research Society, Chicago, Illinois, March 2006.

"Porcine Patellar Tendon Grafts for Anterior Cruciate Ligament Reconstruction." Stone KR, Walgenbach AW, Turek TJ, Somers D, Wicomb W, Galili U. The International Society of Arthroscopy, Knee Surgery and Orthopaedic Sports Medicine, Montreaux, Switzerland, May 2001.

"Surgical Technique of Meniscal Allografting in the Arthritic Knee." Stone KR, Walgenbach AW. The International Society of Arthroscopy, Knee Surgery and Orthopaedic Sports Medicine, Montreaux, Switzerland, May 2001.

"Articular Cartilage Paste Grafting: Two- to Nine-Year Follow-Up." Stone KR, Walgenbach, AW. The International Society of Arthroscopy, Knee Surgery and Orthopaedic Sports Medicine, Montreaux, Switzerland, May 2001.

"Xenograft Implantation of Porcine Patellar Tendon: A Histological, Serological, and Bio-Mechanical Study." Stone KR, Walgenbach AW, Turek TJ, Hansen T, Galili U. Orthopaedic Research Society, February 2001.

"Surgical Technique of Meniscal Allografting in the Arthritic Knee." 9<sup>th</sup> Congress European Society of Sports Traumatology, Knee Surgery and Arthroscopy, London, England, September 2000.

"Articular Cartilage Paste Grafting to Arthritic and Traumatic Knee Joint Lesions: Two to Seven Year Follow-Up." Stone KR, Walgenbach AW. Western Orthopaedic Association 63<sup>rd</sup> Annual Meeting, Coronado Island, San Diego, California, July 30 - August 3, 1999.

"Articular Cartilage Paste Grafting to Arthritic and Traumatic Knee Joint Lesions: Two to Seven Year Follow-Up." Stone KR, Walgenbach AW. Society for Biomaterials Annual Meeting, Providence, Rhode Island, April 1999.

"Articular Cartilage Paste Grafting to Arthritic and Traumatic Joint Lesions: Two to Seven Year Follow Up." Stone KR, Walgenbach AW. International Cartilage Repair Symposium, Boston, Massachusetts, November 1998.

"Treatment of The Severely Damaged Articular Surface with Articular Cartilage Paste Graft, Meniscal Allograft, and Opening Wedge Osteotomy." Stone KR, Walgenbach AW, Carrouche C. International Cartilage Repair Symposium, Boston, Massachusetts, November 1998.

"Treatment of Failed Knee Joint Chondroplasties." Stone KR, Walgenbach AW, Carrouche C. International Cartilage Repair Symposium, Boston, Massachusetts, November 1998.

"Collagen Meniscus Implant in Humans." Stone KR, Steadman JR, Rodkey WG, Li S. California Pacific Medical Center, San Francisco, California, October 1995.

"3-D MRI Volume Sizing of the Meniscus Cartilage." Stone KR, Stoller DW, Irving SG, Elmquist C, Gildengorin G. California Pacific Medical Center, San Francisco, California, November 1993.

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"Collagen Based Meniscal Scaffolds: One Year Evaluation in the Canine Stifle." Stone KR, Rodkey WG, Webber RJ, McKinney L, Steadman JR. First World Congress of Biomechanics, La Jolla, California, August 1990.

"Cellular Repopulation of Deep Frozen Meniscal Autografts: An Experimental Study in Dogs." Arnoczky SP, O'Brien SJ, DiCarlo EF, Warren RF, Stone KR. Orthopaedic Research Society, Atlanta, Georgia, 1988.

## **MEMBERSHIPS**

International Society of Arthroscopy, Knee Surgery, and Orthopaedic Sports Medicine.

American Academy of Orthopaedic Surgeons

Anterior Cruciate Ligament Study Group

Orthopaedic Research Society

Meniscus Transplantation Study Group

European Society of Knee Surgery and Arthroscopy

American College of Sports Medicine

International Cartilage Repair Society

Arthritis Foundation

Western Orthopaedic Association

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