

**CURRICULUM VITAE**  
**RALPH A. GAMBARDELLA, M.D.**

PERSONAL

Business Address	6801 Park Terrace Drive Los Angeles, CA 90045
Business Telephone	(310) 665 – 7258
Date of Birth	October 21, 1951
Place of Birth	New Haven, Connecticut

EDUCATION

1966 – 1969	Hamden High School
1969 – 1973	Bowdoin College B.A. Degree – Summa Cum Laude
1973 – 1977	University of Southern California School of Medicine M.D. Degree

INTERNSHIP

1977 – 1978	Tufts – New England Medical Center, Dept. of General Surgery
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RESIDENCY IN ORTHOPAEDIC SURGERY

1978 – 1982	University of Southern California School of Medicine
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FELLOWSHIP IN SPORTS MEDICINE

July 1982 – June 1983	Kerlan Jobe Orthopaedic Clinic
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PRIVATE PRACTICE

Orthopaedic Associates of  
Manhasset, NY 1983 – 1985

Kerlan – Jobe Orthopaedic Clinic  
1985 – Present

BOARD EXAMINATION

1978 National Board of Medical Examiners  
Cert. #180617

7/19/85 Board Certified  
American Board of Orthopaedic Surgery

MEDICAL LICENSES

State of California	G36984	1978
State of New York	153289	1983
New York State Worker Comp Qualified Medical Evaluator	229353 905494	1994
State of California		

SOCIETIES

1. American Academy of Orthopaedic Surgeons
2. American Orthopaedic Society for Sports Medicine
3. Arthroscopy Association Of North America
4. American Association of Major League Baseball Physicians
5. California Orthopaedic Association
6. International Cartilage Repair Society

HONORS AND AWARDS

1. Summa Cum Laude with Bachelor of Arts Degree
2. Delta Kappa Epsilon International Man of the Year, 1973
3. George A. Herron Memorial Award, 1977
4. Merck Book Award, 1977
5. Loman Club Award, 1981

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APPOINTMENTS AND POSITIONS

1. Chairman of The Board, Kerlan Jobe Orthopaedic Clinic, 1995 – Present  
President, Kerlan Jobe Orthopaedic Clinic, 2000 – Present.
2. Clinical Associate Professor of Orthopaedics, University of Southern California School of Medicine, Dept. of Orthopaedics, 1985 – Present.
3. Orthopaedic Consultant, LA Dodgers, 1985 – Present.
4. Orthopaedic Consultant, University of Southern California, Department of Athletics, 1990 – 2000.
5. Orthopaedic Consultant, Loyola Marymount University Athletics, 1982 – 1983, 1985 – Present.
6. AOSSM Council of Delegates, California Representative
7. Association of Major League Baseball Team Physicians, Secretary, 1996 – 1999.
8. Association of Major League Baseball Team Physicians, President 2001-2003.
9. Board of Directors, American Association of Ambulatory Surgery Centers, 1995 – 1998.
10. Director, Pediatric Orthopaedic Sports Program, Orthopaedic Hospital, Los Angeles, CA 1994 – 2005.
11. Orthopaedic Consultant, United States Merchant Marine Academy Football, 1983 – 1985.
12. Board of Consulting Reviewers, Arthroscopy: The Journal of Arthroscopic and Related Surgery, 1992 – 1996.
13. Board of Medical Advisors, Innovative Devices, Boston, MA, 1995 – 2000.
14. Medical Advisory Board, Arthrocare Corporation, Sunnyvale, CA, 2000 - Present.
15. Medial Advisory Board, Osteobiologics, 2005 – 2006.

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APPOINTMENTS AND POSITIONS (Continued)

16. Medical Advisory Board, Sport Trac, Hand-Eye Coordination System, 1995 - Present.
17. University of Southern California School of Medicine, Class Agent, 1995-Present.
18. University of Southern California, Ambassador, 1996 – Present.
19. Salerno Collegium, Board of Directors, 1992 – 1999.
20. Editorial Board, The American Journal of Medicine & Sports, 1999 – Present.
21. AAOS, Sports Medicine Evaluation Subcommittee, 1994-2000.
22. Merck, Medical Advisory Board, 2002- 2004, 2006 - Present.
23. Editorial Board, Techniques in Shoulder and Elbow Surgery, 2001 – Present.
24. National Speaker Genzyme Corporation

HOSPITAL AFFILIATIONS

1. Centinela Hospital Medical Center, Inglewood, CA, 1985 - 2008  
Chairman, Department of Orthopaedics, 1991 - 1993  
Committee Member, Medical Executive Committee, 1991 - 1993
2. U.S.C. University Hospital, Los Angeles, CA 1990 - 2006
3. Marina Del Rey Hospital, Marina Del Rey, CA 2008 - Present
4. White Memorial Hospital, Los Angeles, CA, 2009 - Present
5. Kerlan-Jobe Surgery Center, Los Angeles, CA 1985 - Present

RESEARCH

1. Arthroscopic Shoulder Stabilization with Anchor Devices

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RESEARCH (continued)

2. CAT Scanning and the Diagnosis and Treatment of Patellofemoral Disorders
3. Osteochondral Graft Techniques (CR-Plug, IRB Study)
4. Biodegradable Meniscal Implants
5. Animal Research Articular Cartilage Repair
6. Viscosupplementation
7. Cartilage Scaffold Procedures (CAIS)
8. Radiofrequency and Cartilage (MILE Trial Study)

PUBLICATIONS

1. "The Replacement of Anterior Cruciate Ligaments with Heterologous Implants." Orthopaedic Transactions: Volume 6, Number 1, Spring 1982
2. "Bone Reaction to Implant Prosthetic Glutaraldehyde Treated Bovine Ligament". Current Advances in Sketegonesis: Development,
3. "Biominalizations, Mediators and Metabolic Bone Disease" (Selected Procedures of the 5<sup>th</sup> International Workshop of Calcified Tissues, Slavkin, pp. 235 – 239. Excerpta Medica, 1982.
4. "Knife Blade in the Knee Joint, A Complication of Arthroscopic Surgery." The American Journal of Sports Medicine: Volume 11, Number 4, July/August, 1983.
5. "Clinical Recognition of Tibial Compartment Syndromes." Internal Medicine for the Specialist: Volume 5, Number 11, October 1984.
6. "Arthroscopic Management of the Osteoarthritic Knee." Techniques in Orthopaedics: Volume 2, Number 2, July, 1987.
7. "Elbow Rehabilitation." Medicine & Sports: Volume 1, Number IV, July/August 1999.

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PUBLICATIONS (continued)

8. "Technical Pitfalls of Patelofemoral Surgery" Management of Surgical Complications: Volume 18, Number 4, October, 1999.
9. "Use of Injections for Osteoarthritis in Joints and Sports Activity" Clinics in Sports Medicine: Volume 24, Issue 1, January 2005.
10. "Treatment Options for Osteoarthritis", Orthopaedics, Volume 28, Number 2, February 2005.
11. "RF Based Ablation of Chondral Lesions." Roundtable Discussion, Arthrocare Corporation: Volume XXXIV, Number 8S, August, 2005.
12. "Poster Exhibition" AOSSM, Quebec City, 2005.
13. "Arthroscopic Treatment of Posterolateral Elbow Impingement From Lateral Synovial Plicae in Throwing Athletics and Golfers" American Journal Sports Medicine: Volume 34, March 2006.
14. "Musculocutaneous Nerve Injury in Major League Baseball Pitchers" The American Journal of Sports Medicine, Volume 35 Number 6, June 2007.
15. "Revision Surgery for Failed Elbow Medial Collateral Ligament Reconstruction" American Journal Sports Medicine: Volume 36, June 2008.
16. "Revision Anterior Cruciate Ligament Reconstruction Using a Unique Bioabsorbable Interference Screw for Malpositioned Tunnels" The American Journal of Orthopaedics, August, 2008.
17. "Superficial radial nerve injury after avulsion fracture of the brachioradialis muscle origin in a professional lacrosse player: A case report" Journal of Shoulder and Elbow Surgery. February, 2009.
18. "Superficial Radial Nerve Injury after Avulsion Fracture of the Brachioradialis Muscle Origin in a Professional LaCrosse Player: A case report" Journal of Shoulder and Elbow Surgery: Volume 18, Issue 6. November, 2009.

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TEXTBOOK PUBLICATIONS

1. "Shoulder Injuries in Throwing Athletes." Chapter 4: The Upper Extremity in Sports Medicine, C.V. Mosby Co., 1990
2. "Arthroscopic Treatment of Degenerative Joint Disease." Chapter 55: Knee Surgery, Williams and Wilkins.
3. "Disorders of the Scapula and Clavicle." Chapter 7: Operative Techniques in Upper Extremity Sports Injuries, C.V. Mosby Co.
4. "Shoulder Injuries in Throwing Athletes", Chapter 4: The Upper Extremity in Sports Medicine, Second Edition, C.V. Mosby Co.
5. "Medial Tendon Injury," The Athletes Elbow, Ed: J. Andrews M.D., D. Altchek M.D.
6. "Arthroscopic Treatment of Degenerative Joint Disease of the Knee", Chapter 14: Techniques in Knee Surgery, Lippincott, Williams & Wilkins.
7. "Osteoarthritis" Clinics in Sports Medicine, Volume 24, Number 1: Use of Injections for Osteoarthritis in Joints and Sports Activity: J. Snibbe and R. Gambardella 1583-93.
8. "Classification of Articular Cartilage Injury and Repair" Section II, Chapter 7, Cartilage Injury in the Athlete, Raffy Mirzayan foreward by Lars Peterson.

INSTRUCTIONAL COURSES AND PRESENTATIONS

1. "The Replacement of Anterior Cruciate Ligament with Heterologous Implants." Western Orthopaedic Association 45<sup>th</sup> Annual Meeting, Portland, Oregon, October 1981.
2. "The Elderly and Their Unique Problems: Orthopaedic Conditions." Family Practice Conference, Centinela Hospital, Los Angeles, CA, November 1982.

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INSTRUCTIONAL COURSES AND PRESENTATIONS (Continued)

3. "Current Concepts in Sports Medicine." 4<sup>th</sup> Annual Symposium, Centinela Hospital Medical Center, Los Angeles, CA, April 1983.
4. "The Replacement of Anterior Cruciate Ligaments with Xenograft Implants." Orthopaedic Research Society Annual Meeting, Atlanta, GA, February 1984.
6. "The Baseball Team Trainer." Symposium, LA, CA, January 1987.
7. "Women in Sports" Symposium, LA, CA, July 1987.
8. Perrier-Rebok Strength and Conditioning Symposium, Torrance, CA, March 1988.
9. "The Elbow in the Athlete." AAOS Course, Manhattan Beach, CA, 1988.
10. Chairman, Orthopaedic Section, American College of Surgeons California Chapter Meeting, Palm Springs, CA, January 1989.
11. "Overview of Athletic Injuries." Primary Care: 15<sup>th</sup> Annual Review Course, Los Angeles, CA, February 1989.
12. "Patellofemoral Disorders." Grand Rounds, U.C. Irvine Department of Orthopaedics, July 1989.
13. "Shoulder Injuries in the Throwing Athlete." Grand Rounds, U.C. Irvine Department of Orthopaedics, July 1990.
14. (A) "Patellofemoral Disorders"  
(B) "Arthroscopic Stabilization with Suretac"  
Update in Sports Medicine, Manhattan Beach, CA, May 1991.
15. "Arthritic Drugs: Metabolism and Management in the Elderly." Symposium, Los Angeles, CA, October 1991.
16. "Ski Injuries" Grand Rounds, MI, St. Margaret Memorial Hospital, Pittsburgh, PA, November 1992.



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INSTRUCTIONAL COURSES AND PRESENTATIONS (Continued)

17. "Rotator Cuff Injuries" The Thirteenth Annual Sports Medicine Team Concept Conference, Newport Beach, CA, December 3-5, 1992.
18. "Elbow Disorders in the Throwing Athlete" 5<sup>th</sup> Annual Sports Medicine Symposium, Manhasset, NY, April 17, 1993.
19. (A) "The Surgical Management of Impingement Syndromes and Rotator Cuff Diseases in Throwing Athletes"  
(B) "The Surgical Management of Glenohumeral Instability in Throwing Athletes"  
(C) "The Surgical Management of Elbow Problems in Throwing Athletes" 55<sup>th</sup> Annual Assembly of the Academy of Physical Medicine and Rehabilitation, Miami Beach, FL, October 31 – November 4, 1993.
20. "Rotator Cuff Injuries and Shoulder Instability" Kaiser Permanente 1994 Physical Medicine Symposium: Sports Medicine and Overuse Syndromes, Dana Point, CA, April 23-24, 1994.
21. (A) "Acute Luxation in Sportsmen"  
(B) "Recidivist Luxation in Sportsmen"  
(C) "Instability of the Shoulder in Sportsmen"  
International Course in Shoulder Pathology, Barcelona, Spain, January 27-29, 1995.
22. (A) "Open Shoulder Reconstruction of Anterior Instability in the Throwing Athlete"  
(B) "External and Internal Impingement with Diagnosis and Treatment Options"  
(C) "Patho Physiology and Biomechanics in Rotator Cuff Disease"  
American Orthopedic Society for Sports Medicine, Current Concepts in Sports Injuries, Hawaii, April 7-9, 1995.
23. (A) "Mechanics of the Elbow in Tennis Injuries"  
(B) "Reconstructive Elbow Surgery in the Overhand Athlete"  
First International Conference on Medicine & Tennis, Paris, France, June 2-3, 1995.
24. "COR Osteochondral Grafting Technique" Metcalf Knee & Shoulder Course, Sunvalley, Idaho, January 13-16, 1997.

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INSTRUCTIONAL COURSES AND PRESENTATIONS (Continued)

25. "Clinical Exam of the Shoulder" Kerlan Jobe and the LA Dodgers, Double Header Sports Medicine Baseball Seminar, Vero Beach, FL, February 1-5, 1997.
26. "Moderator, Shoulder Session, 16<sup>th</sup> Annual ANNA Meeting, San Diego, CA, April 23-26, 1997.
27. "Arthroscopic Osteochondral Transfer" AAOS Learning Center, Rosemont, IL, May 10, 1997.
28. "Patellofemoral Joint Injuries & Syndromes" Grand Rounds, University of Southern California, Department of Orthopaedics, June 6, 1997.
29. "The Athlete's Shoulder" American Society of Hand Therapists, San Diego, CA, September 18, 1997.
30. "COR Osteochondral Grafting Technique" Winter Baseball Meeting- Association of Major League Baseball Team Physicians, New Orleans, IL, December 13-14, 1997.
31. (A) "Injury Patterns in Throwing Athletes"  
(B) "Rehabilitation of the Unstable Shoulder"  
(C) "Injuries to the Long Head of the Biceps In Throwers: Diagnosis, Conservative Treatment" The Athlete's Shoulder, 1998 AOSSM Marquee Course, Orlando, FL, January 30, - February 1, 1998.
32. "COR: Technique & Results" Innovations in the Treatment of Lower Extremity Sports-Related Injuries, Northern California Chapter, Western Orthopaedic Assoc. Santa Cruz, CA, April 24 – 26, 1998.
33. "COR Osteochondral Grafting Technique" Knee Ligament Symposium, California Orthopaedic Association, Lake Tahoe, NV, May 15-16, 1998.
34. (A) "New Techniques in Hamstring Fixation"  
(B) "Cartilage Transplantation Techniques"  
Boston University School of Medicine Department of Orthopaedic Surgery, Evaluation and Treatment of the Injured Athlete: Sports Medicine Update 1998. Nantucket, Massachusetts, July 27 – 31, 1998.

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INSTRUCTIONAL COURSES AND PRESENTATIONS (Continued)

35. "Osteochondral Grafting: A Multicenter Review of Clinical Results" 2<sup>nd</sup> Symposium International Cartilage Repair Society, Boston Marriott Wharf, Boston, Massachusetts, November 16-18, 1998.
36. "Visco-Enhancing Agents, Objective: Analyze the indication of the effects of the visco-enhancing agents in the aging athlete." Winter Baseball Meeting – Association of Major League Baseball Team Physicians, Nashville, TN, December 12 –13, 1998.
37. "New Meniscal Repair Techniques" Arthroscopy and Reconstructive Surgery 1999, Sun Valley Idaho, January 9 –16, 1999.
38. (A) Meniscal Repair: Current Techniques"  
(B) "Cartilage Transplantation Techniques"  
(C) "Multi-Center Study of Cartilage Transplantation"  
(D) " Injury Patterns in Throwers"
39. The 15<sup>th</sup> International Jerusalem Symposium On Sports Medicine, The Israel Society of Sports Medicine. Jerusalem Renaissance Hotel, Jerusalem, Israel, March 23 –25, 1999.
40. "Osteochondral Grafting: A Multicenter Review of Clinical Results" 18<sup>th</sup> Annual Meeting AANA, Vancouver, BC, Canada, April 15-16, 1999.  
(A) "Shoulder Instability"  
(B) "Shoulder Examination and Diagnosis"  
Kaiser Permanente "Physical Medicine Symposium 1999" Ritz Carlton Laguna Niguel, CA, August 28, 1999.
41. "Meniscal Repair" New England Baptist Bone and Joint Meeting. Boston, MA, September 23-25, 1999.
42. "Subacromial Syndrome In Young Athletes" Sports Medicine and Traumatology Symposium, Barcelona, Spain, October 28-30,1999.
43. "Cartilage Transplantation Techniques" Kerlan Jobe Orthopaedic Clinic, Workers' Compensation Symposium, Regency Club, West Los Angeles, CA, November 4, 1999.
44. "Capsular Shrinkage Surgery" The Major League Baseball Team Physicians Association, Winter Baseball Meeting, Anaheim, CA, December 10-11, 1999.

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INSTRUCTIONAL COURSES AND PRESENTATIONS (Continued)

45. "Articular Cartilage Repair- The New Millenium" Seventh Annual Masters Series Techniques In Arthritis Surgery, Ritz-Carlton Huntington Hotel, Pasadena, CA, April 14-15, 2000.
46. "Autogenous Osteochondral Grafting" A Multicenter Review of Clinical Results" AAOS 67<sup>th</sup> Annual Meeting, Orlando, Florida, March 15-19, 2000.
47. (A) "Multicenter Articular Cartilage Study"  
(B) "Techniques of Using Radio Frequency Engery on Articular Cartilage"  
(C) "A Clinical Review of Shoulder Capsulorrhaphy"  
Arthrocare Symposium, Napa Valley, CA, May 6, 2000.
48. "Biology of Articular Cartilage" Kerlan Jobe Foundation Meeting. Newport Beach, CA, June 6-10, 2000.
49. "Advances in The Management of Sports Injuries" Merck Speaking Engagement, University Club, San Diego, CA, July 6, 2000.
50. "Ligament Reconstruction" New England Baptist Hospital Athletic Knee Course 2000" Boston, MA, September 22 & 23, 2000.
51. "Articular Cartilage, The New Millenium", Ground Rounds, Good Samaritan Hospital, Spokane, WA, October 30 & 31. 2000.
52. "Osteochondral Transplantation" Mitek Knee Workshop, Carlsbad, CA, November 10-11, 2000.
53. "Osteochondral Transplantation Using the Mitek COR System" 19<sup>th</sup> Annual AANA Fall Course, Palm Desert, CA, November 16-17, 2000.
54. "Articular Cartilage New Techniques" Merck Speaking Engagement, Magic Castle, Hollywood, CA, December 2, 2000.
55. (A) "Osteochondral Grafts, Techniques and Outcomes"  
(B) "Use of Radiofrequency Energy in Articular Cartilage Injuries"  
Articular Cartilage Repair and Management, Carlsbad, CA, December 8-10, 2000.

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INSTRUCTIONAL COURSES AND PRESENTATIONS (Continued)

56. (A) "Pre-Clinical & Clinical Experience with Articular Cartilage Treatments"  
(B) UPDATE: "Cartilage Resurfacing: Where Are We Today?"  
Instructional Course Lectures 68<sup>th</sup> Annual Meeting, American Academy of Orthopaedic Surgeons, San Francisco, CA, March 1, 2001.
57. "Overview of the Medical Management of Osteoarthritis", Merck Speaking Engagement, Canoga Park, CA, March 23, 2001.
58. "Articular Cartilage Update", Merck Speaking Engagement, Whistler, Canada, March 31, 2001.
59. "Traveling the Road to Rates", California Orthopaedic Association, Las Vegas, NV, May 25-27, 2001.
60. "Medical Management of Osteoarthritis", Merck Speaking Engagement, Tustin, CA, May 31, 2001.
62. (A) "Radio-Frequency in Orthopaedics"  
(B) "Treatment Algorithm for Articular Cartilage Defects"  
16<sup>th</sup> Annual Combined Orthopaedic Spring Symposium, Honolulu, Hawaii, April 27-28, 2001.
63. "Osteochondral Grafts (OCGs): COR, Basic Science, Clinical Applications and Results" University of California, San Francisco Sports Medicine Department, San Francisco, CA, June 9, 2001.
64. (A) "Articular Cartilage Repair Update"  
(B) "Concepts and Treatment in Shoulder Instability"  
Stryker OrthoPacific Meeting, Queenstown, New Zealand, June 30-July 5, 2001.
65. "Pathophysiology, Diagnosis and Treatment of the Thrower's Elbow"  
Kerlan-Jobe Orthopaedic Foundation Meeting, Del Mar, CA, September 7 - 9, 2001.
66. "Thermal Treatment, Osteochondral Autograft Transplantation" Sports Medicine Symposium, San Francisco, CA, September 25, 2001.
66. "Articular Cartilage New Techniques" Arthritis and Pain Management Meeting, Salt Lake City, UT, September 29, 2001.

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INSTRUCTIONAL COURSES AND PRESENTATIONS (Continued)

68. “Advances in the Management of Sports Injuries”, Merck Speaking Engagement, Visalia, CA, October 11, 2001.
69. “Pharmacological and Surgical Approaches to Orthopaedic Injuries”, Merck Speaking Engagement, Riverside, CA, November 7, 2001.
70. “New Advances in Radiofrequency Energy for Articular Cartilage Debridement” Arthrocare Symposium, Houston TX, January 14, 2002.
71. “Articular Cartilage Update”, VSB Company Directed Educational Program, Monterey, CA, March 13, 2002.
72. “Osteochondral Graft, Articular Cartilage Update and Visco-supplementation”, WOA Presentation, Orange, CA, April 17, 2002.
73. “Medical and Orthopaedic Management of Osteoarthritis”, Wyeth Speaking Engagement, Walnut Creek, CA, May 15, 2002.
74. “Treatment of Articular Cartilage – Bio Solutions for Knee Pain”, Genzyme BioSurgery and HealthSouth Speaking Engagement, Los Angeles, CA, June 13, 2002.
75. “Osteochondral Graft Update”, Genzyme Speaking Engagement, Del Mar, CA, June 26, 2002.
76. “Assessment and Management of the Patient with Acute Pain”, Merck Speaking Engagement, North Hollywood, CA, July 11, 2002.
77. “Viscosupplementation” Vail Cartilage Symposium, Vail, CO, August 16-17, 2002.
78. “Managing Surgical Pain following Orthopaedic Surgery”, Merck Peer Discussion Group, Long Beach, CA, August 28, 2002.
79. “Surgical Procedures in the Management of Inflammation Diseases”, Merck Speaking Engagement, Honolulu, HI, October 24, 2002.
80. “Managing Surgical Pain after Orthopaedic Surgery”, Merck Speaking Engagement, Hilo, HI, October 24, 2002.

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INSTRUCTIONAL COURSES AND PRESENTATIONS (Continued)

81. “Managing Patients with Osteoarthritis”, Merck Speaking Engagement, Hilo, HI, October 25, 2002.
82. “Managing Surgical Pain following Orthopaedic Surgery”, Merck Speaking Engagement, Honolulu, HI, October 25, 2002.
83. “Managing of Acute Pain in Adults”, Merck Speaking Engagement, Woodland Hills, CA, November 7, 2002.
84. “Managing Surgical Pain following Orthopaedic Surgery”, Merck Speaking Engagement, Seattle WA, November 14, 2002.
84. “Managing Surgical Pain following Orthopaedic Surgery”, Merck Speaking Engagement, Seattle, WA, November 14, 2002.
85. “Managing Surgical Pain following Orthopaedic Surgery”, Merck Speaking Engagement, Hollywood, CA, November 26, 2002.
86. “Managing Surgical Pain following Orthopaedic Surgery”, Merck Peer Discussion, Beverly Hills, CA, January 8, 2003.
87. “Managing the Challenging Patient with Osteoarthritis”, Merck Peer Discussion, Bozeman, MT, February 25, 2003.
88. “Managing of Acute Pain in Adults”, Merck Speaking Engagement, Whitefish, MT, February 25, 2003.
89. “Managing Surgical Pain following Orthopaedic Surgery”, Merck Speaking Engagement, La Jolla, CA, April 30, 2003.
90. “Managing Surgical Pain following Orthopaedic Surgery”, Merck Peer Discussion Group, Long Beach, CA, May 29, 2003.
91. “Managing Surgical Pain following Orthopaedic Surgery”, Merck Speaking Engagement, Anchorage, AK, June 10, 2003.
92. “Managing Surgical Pain following Orthopaedic Surgery”, Merck Speaking Engagement, Fairbanks, AK, June 11, 2003.
93. “Managing Surgical Pain following Orthopaedic Surgery”, Merck Peer Discussion Group, Long Beach, CA, July 16, 2003.
94. “Analgesia in Sports Medicine”, Merck Speaking Engagement, Shanghai, China, September 25, 2003.

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INSTRUCTIONAL COURSES AND PRESENTATIONS (Continued)

96. “Practical Experience: Post-injection Protocol”, Synvisc Frontier Council Meeting, Dallas TX, February 6-8, 2004.
97. “Managing Surgical Pain following Orthopaedic Surgery”, Merck Speaking Engagement, San Diego, CA, February 25, 2004.
98. “Pain Management in Sports Medicine”, Merck Speaking Engagement, Bogotá, Columbia, March 13th, 2004.
99. “Pain Management in Sports Medicine”, Merck Speaking Engagement, San Jose, Costa Rica, March 15th, 2004.
100. “Pain Management in Ambulatory Surgery”, Merck Speaking Engagement, Vina Del Mar, Chile, March 19th, 2004.
101. “Pain Management of Sports Practice”, Merck Speaking Engagement, Curitiba, Brazil, May 11th, 2004.
102. “Pain Management of Sports Practice”, Merck Speaking Engagement, Brasilia, Brazil, May 12th, 2004.
103. “Pain Management of Sports Practice”, Merck Speaking Engagement, San Paulo, Brazil, May 13th, 2004.
104. “Surgical Procedures in the Management of Osteoarthritis and Rheumatoid Arthritis, Merck Speaking Engagement, Jacksonville, FL, May 26, 2004.
105. “Surgical Procedures in the Management of Osteoarthritis and Rheumatoid Arthritis”, Merck Peer Discussion Group, Wall, NJ, June 17<sup>th</sup>, 2004.
106. “Sports Injuries: Controlling Pain and Inflammation”, Asia Pacific Orthopaedic Associations, Kuala Lumpur, Malaysia, September 7<sup>th</sup>, 2004.
107. “Mini-Incision Surgical Procedures: Perspectives on Postsurgical Outcomes”, Merck Speaking Engagement, Portland, OR, September 14, 2004.
108. “Updated Use of Bipolar Radiofrequency Devices for Treating Articular Cartilage and Tendinopathy”, AANA Fall Course, Palm Desert, CA, December 4, 2004.
109. “Management of Osteoarthritis of the Knee with Synvisc Therapy”, Genzyme Speaking Engagement, Palo Alto, CA, February 21, 2005.



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INSTRUCTIONAL COURSES AND PRESENTATIONS (Continued)

110. "Oral Therapy for Osteoarthritis Pain", Synvisc Frontier Council Meeting", Coconut Groove, FL, March 11-13, 2005.
111. "Back in the Game", Uniformed Services Academy of Family Physicians, Snowbird, UT, April 16-21, 2005.
112. "Pain Management of Sports Lesions", Sao Paulo, Brazil, May 11-13, 2005.
113. "Viscosupplementation", Vail Cartilage Symposium, Vail, CO, August 4-6, 2005.
114. "Autologous Chondrocyte Implantation: The Next Generation, Rio de Janeiro, Brazil, June 9-11, 2005.
115. "Anterior Cruciate Ligament Reconstruction: New Techniques for Hamstrings", Rio de Janeiro, Brazil, June 9-11, 2005.
116. "Patellofemoral Surgery", Rio de Janeiro, Brazil, June 9-11, 2005.
117. "Chondral Lesions Algorithm", Rio de Janeiro, Brazil, June 9-11, 2005.
118. "Posterior Cruciate Ligament Injuries", Rio de Janeiro, June 9-11, 2005.
119. "Osteochondral Autograft Transplantation", AOSSM Surgical Skills Course, Rosemont, IL, August 26-28, 2005.
120. "Cartilage Repair", Genzyme Speaking Engagement, Saratoga, CA, September 20, 2005.
121. "Radiofrequency in Cartilage Repair", Management of Cartilage Injury in the Athlete, Las Vegas, NV, October 15, 2005.
122. "Management of Osteoarthritis of the Knee with Synvisc Therapy", Genzyme Orthopaedic Professional Speakers Programs, Bellvue, WA, November 8, 2005.
123. "Management of Osteoarthritis of the Knee with Synvisc Therapy", Genzyme Speaking Engagement, Walnut Creek, CA, February 21, 2006.
124. "Management of Osteoarthritis of the Knee with Synvisc Therapy", Genzyme Speaking Engagement, Seattle, WA, May 6, 2006.

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INSTRUCTIONAL COURSES AND PRESENTATIONS (Continued)

125. "Management of Osteoarthritis of the Knee with Synvisc Therapy", Genzyme Speaking Engagement, Manhattan Beach, CA, May 30, 2006.
126. "Radiofrequency in the Treatment of Cartilage Injuries", Genzyme Speaking Engagement, Denver, CO, June 12, 2006.
127. "Management of Osteoarthritis of the Knee with Synvisc Therapy", Genzyme Speaking Engagement, Boston, MA, July 16, 2006.
128. "Ulnar Collateral Ligament Elbow Reconstruction", OBI Lecture, Fresno, CA, July 20, 2006.
129. "Prevention of Throwing Injuries in Young People", Stryker Course, Sao Paulo, Brazil, September 15, 2006.
130. "Articular Cartilage Repair: New Horizons", Stryker Course, Sao Paulo, Paulo, Brazil, September 16, 2006.
131. "Management of the Aging Athlete", Stryker Course, Sao Paulo, Brazil, September 16, 2006.
132. "Use of Radiofrequency in Cartilage Injury", Arthrocare Cartilage Course, Las Vegas, NV, October 21, 2006.
133. "Management of Articular Cartilage Injuries", Genzyme Speaking Engagement, Walnut Creek, CA, January 23, 2007.
134. "Current Concepts in the Management of Osteoarthritis of the Knee", Genzyme Speaking Engagement, Fresno, CA, March 20, 2007.
135. "Current Concepts in the Treatment of Cartilage and OA Management", Genzyme Presentation, West Hollywood, CA, April 23, 2007.
136. "Current Concepts in the Treatment of Cartilage and OA Management", Genzyme Presentation, Claremont, CA, May 30, 2007.
137. "Articular Cartilage Repair: New Horizons", Ground Rounds at UCI Medical Center, Irvine, CA, June 28th, 2007.
138. "Radiofrequency and Articular Cartilage Osteochondral Graft", Articular Cartilage Fellows Course, Carlsbad, CA, December 8, 2007.

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INSTRUCTIONAL COURSES AND PRESENTATIONS (Continued)

139. "Reimbursement and Improving Financial Performance", Articular Cartilage Fellows Course, Carlsbad, CA, December 8, 2007.
140. "Current Concepts in the Management of Osteoarthritis of the Knee", Genzyme Speaking Program, Denver, CO, December 12, 2007.
141. "Current Concepts in the Management of Osteoarthritis of the Knee", Genzyme Speaking Engagement, Jackson Hole, WY, March 26, 2008.
142. "Management of Osteoarthritis of the knee with Synvisc Therapy", Genzyme Speaking Engagement, Corona Del Mar, CA, May 16<sup>th</sup>, 2008.
143. "Management of Osteoarthritis of the knee with Synvisc Therapy", Genzyme Speaking Engagement, Westwood, CA, June 26, 2008.
144. "Management of Osteoarthritis of the knee with Synvisc Therapy", Genzyme Speaking Engagement, Springfield, MD, November 2, 2008.
145. "Management of Osteoarthritis with Viscosupplementation", Genzyme Speaking Engagement, Stamford, CT, March 23, 2009.
146. "Synvisc I and Treatment of Osteoarthritis of the knee", Genzyme Speaking Engagement, Detroit, MI, April 17, 2009.
147. "Current Concepts in the Management of Osteoarthritis of the knee", Genzyme Speaking Engagement, Santa Ana, CA, April 21, 2009.
148. "Management of Osteoarthritis, Articular Cartilage Repair/Update" Genzyme Speaking Engagement, North Carolina, June 3, 2009.
149. "Advanced Concepts in ACI", Genzyme Speaking Engagement, Boston MA, June 12, 2009.
150. "Management of Osteoarthritis", Articular Cartilage Repair/Update, Genzyme Speaking Engagement, Columbus, OH, September 23, 2009.
151. "Synvisc I Treatment of Osteoarthritis", Genzyme Speaking Engagement, Stockton, CA, November 10, 2009.
152. "ONE Gets it Done: Benefits of a Single Injection Protocol", Genzyme Speaking Engagement, Modesto, CA, December 16, 2009.
153. "Radiofrequency Applications in Arthroscopic Surgery", 2010 National Sales Meeting, Arthrocare Corporation, Phoenix, AZ, February 18, 2010.

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INSTRUCTIONAL COURSES AND PRESENTATIONS (Continued)

154. “Synvisc I Treatment in Osteoarthritis”, Genzyme Speaking Engagement, Phoenix, AZ, April 14, 2010.
155. “On the Frontlines of Osteoarthritis (OA) Knee Pain”, Genzyme Speaking Engagement, Toronto, Canada, April 22, 2010.
156. “Synvisc I Treatment in Osteoarthritis”, Genzyme Speaking Engagement, Omaha, Nebraska, April 28, 2010.
157. “Synvisc I Treatment in Osteoarthritis”, Genzyme Speaking Engagement, San Diego, CA, August 11, 2010.
158. “Synvisc I Treatment in Osteoarthritis”, Genzyme Speaking Engagement, Boulder, CO, August 18, 2010.
159. “Cartilage Injuries – Evidence Based Algorithm for Treatment”, Current Concepts in the Management of the Competitive Athlete Conference, Los Angeles, CA, October 3<sup>rd</sup>, 2010.
160. “Viscosupplementation in Athletics”, 2011 Baseball Medicine Conference, Fort Worth, TX, January 8, 2011.
161. “Synvisc 1 Treatment in Osteoarthritis”, Genzyme Speaking Engagement, Palo Alto, CA, June 9, 2011.
162. “Synvisc 1 Treatment in Osteoarthritis”, Genzyme Speaking Engagement, Omaha, NE, June 15, 2011.
163. “Synvisc 1 Treatment in Osteoarthritis” Genzyme Speaking Engagement, Sacramento, CA, December 20, 2011.

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