

CURRICULUM VITAE

Frank Robert Noyes, M.D.

Updated: 5/27/21

CLINICAL ADDRESS

Cincinnati Sportsmedicine and Orthopaedic Center
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ACADEMIC ADDRESS

Cincinnati Sportsmedicine Research and Education Foundation
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Websites: www.cincinnati-sportsmed.com
www.sportsmetrics.net
<http://www.noyeskneeinstitute.com>

EDUCATION

Undergraduate: University of Utah, 1962
Degree: A.B., Philosophy

Medical School: George Washington University Medical School, 1966
Degree: M.D., Honors: cum laude

Internship: University of Michigan Medical Center, 1966 – 1967

Assistant Resident: University of Michigan Medical Center, 1967 – 1968

Residency: University of Michigan Medical Center, Division of Orthopaedic Surgery, 1968 – 1971

PRESENT EMPLOYMENT

Cincinnati SportsMedicine and Orthopaedic Center/Mercy Health
Cincinnati, Ohio, 2014 – present, Director of Orthopaedic Research Jewish Hospital
GME

CEO, Founder, Cincinnati SportsMedicine and Orthopaedic Center,
Cincinnati, Ohio, 1981 - 2013

President and Medical Director, Noyes Knee Institute, Cincinnati, Ohio,
1986 – present
Chairman, Cincinnati Sports Medicine and Orthopedic Center Sports Medicine and
Arthroscopy Fellowship, 1979-2020, Graduation of 168 fellows in University, Medical
Centers, and private practice positions.

CURRENT FACULTY APPOINTMENTS, University of Cincinnati, Cincinnati, Ohio

Professor of Orthopaedic Surgery, Emeritus, University of Cincinnati College of
Medicine, Feb. 1, 2017 - present

PREVIOUS UNITED STATES AIR FORCE APPOINTMENT

Lieutenant Colonel: Joint Assignment – Medical Center Staff, Orthopaedic Surgeon and
Aerospace Medical Research, 1971 – 1975

PREVIOUS FACULTY APPOINTMENTS, Wright State University, Dayton, Ohio

Laboratory Senior Research Associate, Division of Biodynamics and Bionics,
Wright-Patterson Air Force Base, 1971 – 1975

Adjunct Associate Professor, College of Medicine, Department of Physiology, 1973 –
1975

PREVIOUS FACULTY APPOINTMENT, Ohio State University, Columbus, Ohio

Adjunct Clinical Professor, Department of Veterinary Medicine, 1975-1981

PREVIOUS FACULTY APPOINTMENTS, University of Cincinnati, Cincinnati, Ohio

Assistant Professor, Department of Orthopaedic Surgery, 1975 – 1977

Director, Sports Medicine Institute, 1975 – 1981

Director, Orthopaedic Research, 1975 – 1981

Co-Director, Orthopaedic Biomechanics and Sports Medicine Laboratory, 1975 – 1981

Adjunct Professor of Biomechanics, Department of Engineering Analysis, College of
Engineering, 1975 – 1981

Associate Professor, Orthopaedic Surgery, 1977 – 1979

Professor, Department of Orthopaedic Surgery, 1980 – 1981

Adjunct Professor, Department of Health, Physical Education and Nutrition, 1980 – 1981

Adjunct Professor, Department of Biomedical Engineering, University of Cincinnati
College of Medicine and College of Engineering, 1981 - 2006

Volunteer Professor, Department of Orthopaedic Surgery, 1981 - 2011

PRIOR TEAM PHYSICIAN COMMITMENTS

University of Cincinnati (all athletic teams), 1975 – 1983

Cincinnati Bengals, 2000 – 2001

Cincinnati Riverhawks, 2001 - 2003

Orthopaedic Consultant, Cincinnati Gymnastics Academy, 1991 – 2009

Cincinnati Sizzle, 2005 - 2010

BOARD CERTIFICATION

American Board of Orthopaedic Surgery, September 22, 1972

BOARD EXAMINER

American Board of Orthopaedic Surgeons, 1978 – 1985

HOSPITAL APPOINTMENTS, Cincinnati, Ohio

Jewish Hospitals

Bethesda Hospital

University of Cincinnati

HOSPITAL COMMITTEE APPOINTMENTS, Cincinnati, Ohio

Mercy Health Orthopaedic Executive Committee member, 2014-present

Deaconess Hospital: Director of Operations, Operating Room 1981-1985

PREVIOUS CONSULTANT APPOINTMENTS

Food & Drug Administration- Panel Member, Internal Prosthesis Devices, Subcommittee
of Orthopaedic Device Classification Panel, 1976 – 1979

United States Air Force, Aerospace Medical Research, Laboratory, Division of
Biodynamics and Bionics, Wright Patterson AFB, Dayton, Ohio, 1976 – 1978

CURRENT SOCIETY MEMBERSHIPS

Academy of Medicine of Cincinnati
Alpha Omega Alpha Honor Medical Society
American, British and Canadian Club
American Academy of Orthopedic Surgeons
American College of Sports Medicine
American Medical Association
American Orthopaedic Association
American Orthopaedic Society for Sports Medicine
Arthroscopy Association of North America
Association of Bone and Joint Surgeons
Cincinnati Orthopaedic Society
European Society of Sports Traumatology and Knee Surgery and Arthroscopy
Herodicus Society
International Society of Arthroscopy, Knee Surgery and Orthopaedic Sports Medicine
Michigan Orthopaedic Alumni Society
Mid- America Orthopaedic Association
Ohio Orthopaedic Society
Ohio State Medical Association
Orthopaedic Research Society

ACADEMIC AWARDS AND CAREER HONORS

Director, Advances of the Knee, Shoulder and Sports Medicine Annual Conference, with the leading academic orthopedics, physical therapists and trainers, a national and international major conference of 38 years duration, educating a combined group of MD-PT-ATC teams.

Listed in the 50 Most-Cited Articles in ACL Research, 2015

Dr. Noyes' work was cited in the publication by *Voleti et al* in *Orthopedics*, 2015 as some of the most popular scientific contributions to ACL research. Three of Dr. Noyes' studies made the list and he was the only individual lead author with this many investigations.

Listed in the 100 Most-Cited Publications in Orthopaedic Knee Research, 2014

Dr. Noyes' work was cited in the publication of *Ahmad et al* in the *Journal of Bone and Joint Surgery*, November 2014, that determined the 100 most-cited publications in all orthopaedic research. Dr. Noyes was an author on 6 of the 100 studies (that were cited 2,676 times). Only one other author had more multiple authorships.

Listed in the 25 Most-Cited Publications in Arthroscopic Surgery, 2012

Dr. Noyes received the prestigious honor in the field of arthroscopic surgery and orthopaedics as one of the most frequently cited orthopaedic and sports medicine surgeons in the world. *Cassar Gheiti et al* in *Arthroscopy; The Journal of Arthroscopic and Related Research*, April 2012 determined the published studies in the U.S, Europe, Asia and Australia that were most frequently cited and referenced by other authors.

Board Member and President, Herodicus Society, 2012-2018

Founded in 1975, the Herodicus Society is considered the premier group of American,

Canadian, and European sports medicine physicians. Membership is awarded to surgeons who have provided leadership, clinical expertise, teaching and conducted research considered vital in advancing our understanding of the field of sports medicine.

Dr. Ernst Jokl Sports Medicine Award, 2010

Presented by the United States Sports Academy

This annual award is presented to an individual whose contributions through practice and scholarly activity lead to the growth and development of sport medicine. The recipient must exhibit a mastery of sports medicine through practice and research, is well known in the sports medicine field, and practices ethical behavior in pursuit of knowledge.

AOSSM Hall of Fame, 2008

Presented by the American Orthopaedic Society for Sports Medicine

This honor has been presented to only 43 members of the national and international orthopaedic sports medicine community who have contributed significantly to the specialty and who are nominated by their peers.

OREF Clinical Research Award, 2004

Presented jointly by the Orthopaedic Research and Education Foundation and the American Academy of Orthopaedic Surgeons.

This award recognizes the most distinguished clinical research project related directly to musculoskeletal disease or injury in the entire field of orthopaedics.

John Kennedy Memorial Lectureship, 2004

The honor of presenting this distinguished lectureship is given annually by the President of the American Orthopaedic Society of Sports Medicine to one physician to recognize an outstanding career as orthopaedic surgeon, educator, and researcher.

Dedication of the Frank R. Noyes, M.D. Tissue Engineering and Biomechanics Laboratory, 2003

On November 5, 2003, the University of Cincinnati's Colleges of Engineering and Medicine and Biomedical Engineering Department hosted the dedication ceremony of the Frank R. Noyes, M.D. Tissue Engineering and Biomechanics Laboratory.

George D. Rovere Award of Excellence, 1997

Presented by the American Orthopaedic Society for Sports Medicine.

This award recognizes one physician annually as the distinguished educator of the year in the subspecialty of sports medicine

Excellence in Research Award, 1997

Presented by the American Orthopaedic Society for Sports Medicine.

Award of Excellence, 1989

Presented by the University of Cincinnati.

The highest honor given by the University of Cincinnati, this award was provided to Dr. Noyes in recognition of his accomplishments as a physician, educator and scientist for work that earned international acclaim due to fundamental thinking, clarity of expression

and continued leadership.

Dr Noyes was the co-founder along with Edward S Grood of the Bioengineering School within the Department of Engineering, now recognized as a Department with BS, MA, PhD students

O'Donoghue Award, 1988

Presented by the American Orthopaedic Society of Sports Medicine.

This award is the highest honor given for outstanding clinical and laboratory efforts applicable to the understanding, care, and prevention of sports injuries.

Kappa Delta Award, 1977

Presented by the American Academy of Orthopaedic Surgeons.

This is the highest award presented annually for outstanding research in the entire field of orthopedics

Detroit Academy of Orthopaedic Surgeons, First Prize For Research

Detroit, Michigan, 1969, 1971

Horwitz Surgery Prize, Outstanding Student Graduating Class

George Washington Medical School, 1966

Scholarship Award

George Washington Medical School, 1965

Mosby Award, Scholastic Excellence

George Washington Medical School, 1965

U.S.P.H.S., Research Recipient Award

George Washington Medical School, 1963, 1964

U.S.P.H.S., Fellowship for Epidemiology Research

University of California, Berkley, California, 1962

OTHER AWARDS AND PERSONAL HONORS

Selected as one of the Best Doctors in America

1992 – 2020

Selected on one of the 25 Best Knee Surgeons in the United States by Becker's

Orthopedic & Spine Review, 2010

Runner's World All-Star Team, 1984

7th Annual Memorial Jacques Jenny Lecturer, 1980.

7th Annual Veterinary Orthopaedic Society Meeting. February 23-29, 1980

American Orthopaedic Association – Traveling Fellow to Great Britain, 1979

American British Canadian, Orthopaedic Exchange Fellowship of the American

Orthopaedic Association.

Cincinnati Public High School Athletic League: "Sportsman of the Year", 1978-1979

AMA's Physician Recognition Award

The Department of Continuing Medical Education, 1971, 1975, 1976, 1977

EDITORIAL BOARD APPOINTMENTS

Journal of Orthopaedic and Sports Physical Therapy, Member Editorial Board, 1979

Journal of Orthopaedic Research, Associate Editor, 1982

Medicine and Science in Sports and Exercise, Editorial Board Member, 1982

Sports Medicine, Honorary Editorial Board, 1983-2013

Clinical Orthopaedics and Related Research, Associate Editor, 1985

Orthopaedic and Sports Medicine News, Arthroplasty Board, 1990

Journal of Orthopaedic Science, Journal of the Japanese Orthopaedic Association

Editorial Advisory Board, 1997

Orthopaedics, Sports Medicine Section Editor, 1986

Knee Surgery, Sports Traumatology, Arthroscopy, 1999 – 2003

Techniques in Knee Surgery, 2002 – 2012

Sports Health, Editorial Board 2009 - present

CURRENT EDITORIAL REVIEW APPOINTMENTS

American Journal of Sports Medicine

Clinical Orthopaedics and Related Research

Journal of Orthopaedics and Sports Physical Therapy

Arthroscopy

PAST NATIONAL COMMITTEE APPOINTMENTS

Wright Patterson Air Force Base, Research Review Committee, Panel Member:

1971 - 1974, Chairman: 1974 – 1975

American Academy of Orthopaedic Surgeons, Committee on Biomedical Engineering,

Member: 1977

American Academy of Orthopaedic Surgeons, Committee on Sports Medicine, Member:

1977

National Research Council Committee on Hearing, Bioacoustics & Biomechanics,

Member: 1977

Holmes Hospital/University of Cincinnati Medical Center, Utilization Review Committee,

Member: 1977 – 1978

American Orthopaedic Society for Sports Medicine, Committee on Research and Education, Member: 1978 – 1981, Chairman, Biomechanics Section: 1978 – 1981, Chairman, Curriculum Development Fellowship Education 1981

United States Olympic Committee, Research Committee, Member: 1980 – 1989

American Academy of Orthopaedic Surgeons, Board of Directors: 1980 – 1981

University of Cincinnati Medical Center, Department of Orthopaedic Surgery, Promotions Committee, Chairman: 1980 – 1981

American Academy of Orthopaedic Surgeons, Committee on the Knee, Member: 1981-1986

American Orthopaedic Society for Sport Medicine, Research Committee, Chairman: 1981 – 1988

Cincinnati Public School- Board of Education, Committee on Medical Education, Member: 1982 – 1986

United States Olympic Committee, Biomechanics Advisory Panel, Member: 1984

National Institutes of Health, Advisory Panel, Member: 1984-1987

Sports Medicine Advisory Committee, United States Soccer Federation, Chairman: 1987 – 1989

National Arthritis Advisory Board of the National Institute of Health, Board Member: January 1987 – April 1, 1991

Director, Quality Management Committee, Cincinnati Regional Orthopaedic Sports Medicine Association, 1995 – 1998

American Orthopaedic Society for Sports Medicine, Fellowship Directors Society, Member: 1990 – present

USA Gymnastics Professional, Member: 1997 – present

UnitedHealth Networks Musculoskeletal Scientific Advisory Board Member, March 2004 – present

MAJOR NATIONAL AND INTERNATIONAL PRESENTATIONS

1. Visiting Professor, Massachusetts General Hospital, Department of Orthopaedic

- Surgery, March 29, 1980.
2. Visiting Professor, Samuel Higby Camp Lectureship in Biomechanics, University of Michigan Medical Center, Division of Orthopaedic Surgery, Ann Arbor, Michigan, April 11-12, 1980.
 3. Visiting Professor, University of Pennsylvania, Department of Orthopaedic Surgery – Bioengineering for the Olympic Surgeon, June 6-7, 1980.
 4. Visiting Professor, University of Rochester Medical Center, Department of Orthopaedic Surgery, Rochester, New York, October 16-17, 1980.
 5. Visiting Professor, Institute of Sports Medicine and Athletic Trauma, Lenox Hill Hospital, New York, New York, March 16, 1981.
 6. Visiting Professor, Methodist Hospital, Department of Orthopaedic Surgery, Louisville, Kentucky, July 27, 1981.
 7. Visiting Professor, Jefferson Orthopaedic Society, Jefferson Medical College of Thomas Jefferson University, Philadelphia, Pennsylvania, November 19-20, 1981.
 8. Visiting Professor, Wright State University, Dayton, Ohio, March 23, 1982.
 9. Invited Faculty, Dayton Surgical Society, Dayton, Ohio, March 23, 1982.
 10. Visiting Professor, The University of Chicago, Department of Surgery, Section of Orthopaedics: Howard Hatcher Visiting Professor, Chicago, Illinois, May 13-15, 1982.
 11. Invited Faculty, Chicago Orthopaedic Society, Chicago, Illinois, May 14, 1982.
 12. Visiting Professor, The University of Iowa, Iowa Orthopaedic Alumni Association, Iowa City, Iowa, October 14-15, 1982.
 13. Visiting Professor, The University of Minnesota, Department of Orthopedic Surgery, Minneapolis, Minnesota, April 12-13, 1983.
 14. Visiting Professor, Northwestern University, Chicago, Illinois, May 1-2, 1987.
 15. Visiting Professor, University of Minnesota, July 8, 1987.
 16. Visiting Professor, University of Utah, Salt Lake City, Utah, September 9, 1989.
 17. Visiting Professor, University of Hospital, London, Ontario, October 17-18, 1981.
 18. Invited Faculty, St. Louis Arthroscopy Association, St. Louis, Missouri, November 5, 1991.
 19. Visiting Professor, John Hopkins University, Baltimore, Maryland, December 5-7, 1991.
 20. Visiting Professor, Ohio State University, Columbus, Ohio, May 8, 1992.
 21. Invited Faculty, National Association of Orthopaedics Nurses, Cincinnati, Ohio, May 20, 1992.
 22. Invited Faculty, Indianapolis Orthopaedic Club, Indianapolis, Indiana, September 16, 1992.
 23. Presidential Invited Faculty, Basel International Knee Congress, Basel, Switzerland, September 22-26 1992.
 24. Invited Faculty, 66th Annual Meeting of Japanese Orthopaedic Association, Kobe, Japan, April 8-11, 1993.
 25. Presidential Invited Faculty, Brazilian Meeting of Knee Surgery, Sao Paulo, Brazil, November 18-20, 1993.
 26. Invited Faculty, 1994 Injuries Baseball Course, American Sports Medicine Institute, Birmingham, Alabama, January 20-23, 1994.
 27. Invited Faculty, Cincinnati Chapter OR Nurses, Cincinnati, Ohio, June 14, 1994.
 28. Invited Faculty, John Hopkins, Advances in Orthopaedic Biomechanics and Their Clinical Applications Symposium, Baltimore, Maryland, October 27-30, 1994.
 29. Presidential Invited Faculty, French Orthopaedics Society Annual Congress, Paris, France, November 8-11, 1994.
 30. Invited Faculty, AAOS Comprehensive Course, Steamboat Springs, Colorado, January

- 5-8, 1995.
31. Invited Faculty, Robert Metcalf, M.D. Memorial Course, Sun Valley Idaho, January 18-21, 1995.
 32. Invited Faculty, Sports Medicine 2000, Stockholm, Sweden, June 6-8, 1995.
 33. Presidential Invited Faculty, Knee Surgery Course, Rio de Janeiro, Brazil, April 18-21, 1996.
 34. Invited Faculty, Australian Orthopaedic Association COE Meeting, Hamilton Island, Australia, July 17-20, 1996.
 35. Presidential Invited Faculty, 2nd Basel International Knee Congress and Instructional Course Basel, Switzerland, September 25-28, 1996.
 36. Invited Faculty, AAOS Comprehensive Course: The Athletic Perspective on Treatment, Controversies and Problem Solving, Steamboat Springs, Colorado, March 18-22, 1997.
 37. Invited Faculty, Comprehensive Knee Surgery for Sports Trauma Techniques the Well-Armed Surgeon Should Know, Lake Buena Vista, Florida April 4-6, 1997.
 38. Visiting Professor, University of Kentucky, Lexington, Kentucky, June 13-14, 1997.
 39. Invited Faculty, Distinguished Lecture Series, American Sports Medicine Institute, Birmingham, Alabama, November 3, 1997.
 40. Presidential Invited Faculty, 5th GCC Orthopaedic Congress, Saudi Arabian Orthopaedic Society, Jeddah, Saudi Arabia, December 6-9, 1997.
 41. Invited Faculty, AAOS Comprehensive Course: The Athletic Perspective to Treatment, Controversies and Problem Solving, Marco Island, Florida, February 5-8, 1998.
 42. Invited Faculty, AAOS and AOSSM Comprehensive Course: The Athletic Perspective to Treatment, Controversies and Problem Solving, Steamboat Springs, Colorado, March 3-7, 1999.
 43. Invited Faculty, Comprehensive Knee Surgery for Sports Trauma, Rosemont, Illinois, October 28-30, 1999.
 44. Invited Faculty, MR Conference, Cincinnati, Ohio, October 15-17, 1999.
 45. Invited Faculty, Barcelona Sports Medicine and Traumatology, Barcelona, Spain, October 28-30, 1999.
 46. Invited Faculty, Arthroscopy and Reconstructive Surgery 2000: The Robert W. Metcalf, M.D. Memorial, Scottsdale, Arizona, January 11-15, 2000.
 47. Invited Faculty, AAOS and AOSSM Comprehensive Course: The Athletic Perspective to Treatment, Controversies and Problem Solving, Phoenix, Arizona, February 3-6, 2000.
 48. Invited Faculty, University of Pittsburgh Panther Symposium, Pittsburgh, Pennsylvania, May 3-6, 2000.
 49. Visiting Professor, University of Pittsburgh, Pittsburgh, Pennsylvania, October 2-4, 2000.
 50. Invited Faculty, AAOS and AOSSM Comprehensive Course: The Athletic Perspective to Treatment, Controversies and Problem Solving, Lake Tahoe, Nevada, Feb. 31-March 4, 2001.
 51. Instructional Course Lecture: Posterolateral Reconstructions, 69th Annual Meeting of the American Academy of Orthopaedic Surgeons, Feb. 15, 2002.
 52. Instructional Course Lecture: Biomechanics and Function of the PCL for Reconstruction, 69th Annual Meeting of the American Academy of Orthopaedic Surgeons, Feb. 15, 2002.
 53. Instructional Course Lecture: ACL Injury: Pathophysiology and Current Therapeutic Principles, 69th Annual Meeting of the American Academy of Orthopaedic Surgeons, Feb. 15, 2002.
 54. ACL Reconstruction in Skeletally Immature Patients, AAOS and AOSSM Comprehensive Course: The Athletic Perspective to Treatment, Controversies and

- Problem Solving, Phoenix, Arizona, February 28, 2002.
55. High Tibial Osteotomy, AAOS and AOSSM Comprehensive Course: The Athletic Perspective to Treatment, Controversies and Problem Solving, Phoenix, Arizona, March 2, 2002.
 56. PCL Reconstruction: One vs. Two Tunnel Techniques. AAOS and AOSSM Comprehensive Course: The Athletic Perspective to Treatment, Controversies and Problem Solving, Phoenix, Arizona, February 28, 2002.
 57. Current Concepts: Salvage Procedures for the Post-Meniscectomy Athlete Meniscus Allograft, 2002 Annual Meeting of the American Orthopaedic Society for Sports Medicine, July 3, 2002.
 58. Preservation of Knee Meniscus Function: Avascular and Complex Meniscus Repair and Transplantation, Badgley Day, University of Michigan, Oct. 11, 2002.
 59. Instructional Course Lecture: Posterior Cruciate Ligament: Surgical Treatment, Combined Instabilities, 70th Annual Meeting of the American Academy of Orthopaedic Surgeons, Feb. 7, 2003.
 60. Instructional Course Lecture: Meniscus Allografts: Indications, Techniques, Results, 70th Annual Meeting of the American Academy of Orthopaedic Surgeons, Feb. 6, 2003.
 61. Instructional Course Lecture: ACL Injury: Pathophysiology and Current Therapeutic Principles, 70th Annual Meeting of the American Academy of Orthopaedic Surgeons, Feb. 6, 2003.
 62. Posterior Cruciate Ligament Double-Bundle Quadriceps Tendon-Patellar Bone Reconstruction: Prospective Clinical Outcome Study on Arthroscopic and Tibial Inlay Techniques. Scientific paper, 70th Annual Meeting of the American Academy of Orthopaedic Surgeons, Feb. 6, 2003.
 63. Role of Meniscus Allografts Alone and Combined with ACL Reconstruction or Osteochondral Autograft Transfer Procedures. Scientific Paper, Specialty Day Meeting of the AOSSM, Feb. 8, 2003.
 64. ACL Reconstruction with Open Physes. AAOS Frontiers in Sports Medicine: The Athlete in 2003, March 14, 2003.
 65. Revision ACL Reconstruction. AAOS Frontiers in Sports Medicine: The Athlete in 2003, March 14, 2003.
 66. PCL Reconstruction – Transtibial Hole versus Tibial Inlay. AAOS Frontiers in Sports Medicine: The Athlete in 2003, March 16, 2003.
 67. Posterior Cruciate Ligament Double Bundle Quadriceps Tendon Patellar Bone Reconstruction: Prospective Clinical Study on Arthroscopic and Tibial Inlay Techniques. 2003 Ohio Orthopaedic Society Annual Meeting, May 9th, 2003, Cincinnati, Oh.
 68. Instructional Course: PCL Injuries: Revision Surgical Considerations. AOSSM 29th Annual Meeting, July 21, 2003, San Diego, CA.
 69. OREF Clinical Research Award Paper; Factors Affecting the Treatment of Anterior Cruciate Ligament-Deficient Knees with Lower Limb Malalignment and Associated Ligamentous Instabilities: A Correlated Clinical, Biomechanical and Dynamic Gait Analysis, 71st Annual Meeting of the American Academy of Orthopaedic Surgeons, March 9, 2004, San Francisco, CA.
 70. Instructional Course Lecture: Posterior Cruciate Ligament: Surgical Treatment, Combined Instabilities, 71st Annual Meeting of the American Academy of Orthopaedic Surgeons, March. 10, 2004, San Francisco, CA.
 71. Instructional Course Lecture: Meniscus Allografts: Indications, Techniques, Results, 71st Annual Meeting of the American Academy of Orthopaedic Surgeons, March 11, 2004, San Francisco, CA.

72. Meniscus Transplantation: MRI Analysis Under Loaded Conditions and Clinical Results. Scientific paper, 71st Annual Meeting of the American Academy of Orthopaedic Surgeons, March 12, 2004.
73. Instructional Course Lecture: ACL Injury: Pathophysiology and Current Therapeutic Principles, 71st Annual Meeting of the American Academy of Orthopaedic Surgeons, March 12, 2004.
74. Symposium: Cruciate Reconstruction and Osteotomy, Specialty Day Meeting of the AOSSM, March 13, 2004.
75. Scientific paper: PCL Revision with Double-Bundle Quadriceps Tendon Autograft: Analysis of Failure Mechanisms, Specialty Day Meeting of the AOSSM, March 13, 2004.
76. John C. Kennedy Memorial Lectureship: Why is it so Hard to do What's Right? Lessons in Sports Medicine Body Building. Specialty Day Meeting of the AOSSM, March 13, 2004.
77. Single vs. Double Bundle PCL Reconstruction. 5th Annual AAOS/AOSSM Sports Medicine Course: The Athlete in 2004, April 1, 2004.
78. ACL Reconstruction with Allograft. 5th Annual AAOS/AOSSM Sports Medicine Course: The Athlete in 2004, April 2, 2004.
79. Revision ACL Reconstruction. 5th Annual AAOS/AOSSM Sports Medicine Course: The Athlete in 2004, April 2, 2004.
80. Indications and Evaluation of Alignment for HTO. 5th Annual AAOS/AOSSM Sports Medicine Course: The Athlete in 2004, April 2, 2004.
81. Lateral Closing Wedge HTO. 5th Annual AAOS/AOSSM Sports Medicine Course: The Athlete in 2004, April 2, 2004.
82. 15-Year Experience with Repair of Complex Meniscus Ruptures Extending into the Avascular Zone. 8th International Conference on Orthopaedics, Biomechanics, Sports Rehabilitation, Perugia-Italy, November 19, 2004.
83. Clinical Outcome of Meniscus Transplantation in Symptomatic Patients Under 50 After Meniscectomy. 8th International Conference on Orthopaedics, Biomechanics, Sports Rehabilitation, Perugia-Italy, November 19, 2004.
84. Double and Triple Varus Knees. 8th International Conference on Orthopaedics, Biomechanics, Sports Rehabilitation, Perugia-Italy, November 20, 2004.
85. Sportsmetrics: A National Knee Injury Prevention Program for the Female Athlete. 8th International Conference on Orthopaedics, Biomechanics, Sports Rehabilitation, Perugia-Italy, November 21, 2004.
86. Does Graft Irradiation Weaken Allografts and Clinical Results Compared to Autografts. Soft Tissue Allografts in Orthopaedics: Science and Application, Atlanta, January 15, 2005.
87. Difficulties in Implementing Prevention Programs. AOSSM ACL Injury and Injury Prevention Program. Atlanta, January 14, 2005.
88. Results of Meniscus Allografts. Soft Tissue Allografts in Orthopaedics: Science and Application, Atlanta, January 15, 2005.
89. Treatment of Medial Knee Laxities with ACL Surgery. Arthroscopic Surgery 2005, Robert Metcalf, M.D. Memorial, Tucson, January 22, 2005.
90. Managing Posterolateral Corner Instability. Arthroscopic Surgery 2005, Robert Metcalf, M.D. Memorial, Tucson, January 22, 2005.
91. Indications and Technique for PCL Reconstruction. Arthroscopic Surgery 2005, Robert Metcalf, M.D. Memorial, Tucson, January 22, 2005.
92. Closing Wedge Osteotomy. Arthroscopic Surgery 2005, Robert Metcalf, M.D. Memorial, Tucson, January 22, 2005.

93. When to Repair and When to Resect Meniscus Tears. Arthroscopic Surgery 2005, Robert Metcalf, M.D. Memorial, Tucson, January 22, 2005.
94. Technique and Indications for Proximal Distal Patellar Realignment. Arthroscopic Surgery 2005, Robert Metcalf, M.D. Memorial, Tucson, January 23, 2005.
95. Instructional Course Lecture: Meniscus Function: Repair and Restoration. 72nd Annual Meeting of the American Academy of Orthopaedic Surgeons, February 23, 2005, Washington, DC.
96. Instructional Course Lecture: ACL Injury: Pathophysiology and Current Therapeutic Principles. 72nd Annual Meeting of the American Academy of Orthopaedic Surgeons, February 24, 2005, Washington, DC.
97. Instructional Course Lecture: PCL, Combined Instabilities. 72nd Annual Meeting of the American Academy of Orthopaedic Surgeons, February 25, 2005, Washington, DC.
98. ACL Reconstruction With Allograft. 18th Annual AAOS/AOSSM Sports Medicine Course: The Athlete in 2005, Steamboat Springs, March 12, 2005.
99. Revision ACL Reconstruction. 18th Annual AAOS/AOSSM Sports Medicine Course: The Athlete in 2005, Steamboat Springs, March 12, 2005.
100. Single vs. Double Bundle PCL Reconstruction. 18th Annual AAOS/AOSSM Sports Medicine Course: The Athlete in 2005, Steamboat Springs, March 12, 2005.
101. Indications and Evaluation of Alignment for HTO. 18th Annual AAOS/AOSSM Sports Medicine Course: The Athlete in 2005, Steamboat Springs, March 13, 2005.
102. Lateral Closing Wedge HTO. 18th Annual AAOS/AOSSM Sports Medicine Course: The Athlete in 2005, Steamboat Springs, March 13, 2005.
103. Failed PCL Surgery. 5th Biennial ISAKOS Congress, Hollywood, Florida, April 5, 2005.
104. Mechanisms of Injury and Injury Prevention. 7th Annual Sports Medicine Course: The Athlete in 2006, Tucson, February 7, 2006.
105. PCL Double Bundle. 7th Annual Sports Medicine Course: The Athlete in 2006, Tucson, February 7, 2006.
106. Posterolateral Techniques and Results. 7th Annual Sports Medicine Course: The Athlete in 2006, Tucson, February 8, 2006.
107. Patellar Instability. 7th Annual Sports Medicine Course: The Athlete in 2006, Tucson, February 8, 2006.
108. Treatment of Instability in the Arthritic Knee. 73rd Annual Meeting of the American Academy of Orthopaedic Surgeons, March 22, 2006, Chicago, IL.
109. Instructional Course: Meniscus Function: Repair and Reconstruction: Complex and Avascular Meniscus Repairs. 73rd Annual Meeting of the American Academy of Orthopaedic Surgeons, March 23, 2006, Chicago, IL.
110. Instructional Course: Meniscus Function: Repair and Reconstruction: Meniscus Transplantation. 73rd Annual Meeting of the American Academy of Orthopaedic Surgeons, March 23, 2006, Chicago, IL.
111. Instructional Course: Treatment of PCL and Posterolateral Instability: Anatomy and Biomechanics. 73rd Annual Meeting of the American Academy of Orthopaedic Surgeons, March 24, 2006, Chicago, IL.
112. Instructional Course: Treatment of PCL and Posterolateral Instability: Cincinnati Experience in Treating Acute and Chronic PCL and Posterolateral Complex Injuries. 73rd Annual Meeting of the American Academy of Orthopaedic Surgeons, March 24, 2006, Chicago, IL.
113. Anterior Cruciate Ligament Insufficiency and the Varus Knee – Osteotomy Considerations and Timing. Specialty Day, Arthroscopy Association of North America, March 25th, 2006, Chicago, IL.

114. Meniscus Repairs in the Avascular Zone. Arthroscopic Surgery 2007, Robert Metcalf Memorial, Jan. 22, 2007, Scottsdale, AZ.
115. Why I Do Meniscus Transplants and Where They Work. Arthroscopic Surgery 2007, Robert Metcalf Memorial, Jan. 22, 2007, Scottsdale, AZ.
116. Issues with Single and Double Bundle PCL Reconstruction. Arthroscopic Surgery 2007, Robert Metcalf Memorial, Jan. 22, 2007, Scottsdale, AZ.
117. When to Add Osteotomy for Ligament Injury and Reconstruction. Arthroscopic Surgery 2007, Robert Metcalf Memorial, Jan. 22, 2007, Scottsdale, AZ.
118. Instructional Course: Meniscus Function: Repair and Reconstruction: Complex and Avascular Meniscus Repairs. 74th Annual Meeting of the American Academy of Orthopaedic Surgeons, February 16, 2007, San Diego, CA.
119. Instructional Course: Meniscus Function: Repair and Reconstruction: Meniscus Transplantation. 74th Annual Meeting of the American Academy of Orthopaedic Surgeons, February 16, 2007, San Diego, CA.
120. Mechanisms of Injury and Injury Prevention. 8th Annual AAOS/AOSSM Sports Medicine Course: From the Slopes to the Sidelines, Steamboat Springs, CO, March 17, 2007.
121. PCL Reconstruction: Tibial Inlay and All-Inside Two-Strand. 8th Annual AAOS/AOSSM Sports Medicine Course: From the Slopes to the Sidelines, Steamboat Springs, CO, March 17, 2007.
122. Current Concepts in the Treatment of Posterolateral Instability. 8th Annual AAOS/AOSSM Sports Medicine Course: From the Slopes to the Sidelines, Steamboat Springs, CO, March 17, 2007.
123. Patellofemoral Malalignment. 8th Annual AAOS/AOSSM Sports Medicine Course: From the Slopes to the Sidelines, Steamboat Springs, CO, March 17, 2007.
124. Double-bundle PCL Reconstruction. Cleveland Clinic Knee Summit, April 11, 2007.
125. Revision PCL Reconstruction: Considerations and Techniques. Cleveland Clinic Knee Summit, April 11, 2007.
126. ACL Revision Reconstruction. Annual Meeting of the American Orthopaedic Society for Sports Medicine, Calgary, Alberta, Canada, July 14th, 2007.
127. PCL Issues: Natural History, When to Operate, Techniques Available. Arthroscopic Surgery 2008, Robert Metcalf Memorial, Feb. 5, 2008, Scottsdale, AZ.
128. Chronic Patellar Instability: Treatment Options. 9th Annual AAOS/AOSSM Sports Medicine Course, Feb. 7th, 2008.
129. ACL Revision: Tips and Pearls. 9th Annual AAOS/AOSSM Sports Medicine Course, Feb. 8th, 2008.
130. Endoscopic PCL Reconstruction. 9th Annual AAOS/AOSSM Sports Medicine Course, Feb. 8th, 2008.
131. Instructional Course: Advanced Applications of MRI in Sports Medicine/Orthopaedics. 75th Annual Meeting of the American Academy of Orthopaedic Surgeons, March 5, 2008, San Francisco, CA.
132. Instructional Course: Complex Knee Ligament Instabilities and Revisions: A Case Series Approach. 75th Annual Meeting of the American Academy of Orthopaedic Surgeons, March 6, 2008, San Francisco, CA.
133. Correcting Malalignment: Optimizing Your Surgical Approach to Proximal Tibial Osteotomies. AANA Specialty Day meeting, March 8, 2008, San Francisco, CA.
134. The Fred Shapiro, M.D. Visiting Professor, Rush University Medical Center Thesis Day, Simple and Complex Knee Problems and ACL and PCL Revision: Necessity for Combined Procedures, June 20, 2008.
135. Meniscal Allograft Transplantation – Is It Still Investigational? Annual AOSSM Meeting,

- July 12, 2008, Orlando, FL.
136. The Diagnosis and Management of Arthrofibrosis After Knee Ligament Reconstruction; Management From the Surgeon's Perspective. Aug. 28th, 2008. Advanced Knee Surgery Course, Sao Paulo, Brazil.
 137. Role of Tibial and Femoral Osteotomy for Correcting Limb Malalignment Prior to Ligament Surgery. Aug. 28th, 2008. Advanced Knee Surgery Course, Sao Paulo, Brazil.
 138. The Importance of Repairing Avascular and Complex Meniscus Tears and Techniques Required for Success. Aug. 28th, 2008. Advanced Knee Surgery Course, Sao Paulo, Brazil.
 139. Posterolateral Ruptures: Diagnosis and Operative Procedures to Restore Stability. Aug. 28th, 2008. Advanced Knee Surgery Course, Sao Paulo, Brazil.
 140. ACL Single and Double Reconstruction: Anatomy, Biomechanics, Surgical Techniques. Aug. 29th, 2008. Advanced Knee Surgery Course, Sao Paulo, Brazil.
 141. Diagnosis and Treatment of Acute and Chronic PCL Ruptures Using Endoscopic and Tibial Inlay Surgical Approaches. Aug. 29th, 2008. Advanced Knee Surgery Course, Sao Paulo, Brazil.
 142. Instructional Course: Meniscus Repair and Transplantation: Update on Surgical Techniques and Clinical Outcomes. Moderator and presenter. 76th Annual Meeting of the American Academy of Orthopaedic Surgeons, February 25, 2009, Las Vegas, NV.
 143. Instructional Course: Technical Aspects of ACL Reconstruction for the General Orthopaedic Surgeon: Use of Patellar Tendon in ACL Reconstruction. 76th Annual Meeting of the American Academy of Orthopaedic Surgeons, February 27, 2009, Las Vegas, NV.
 144. Instructional Course: Technical Aspects of ACL Reconstruction for the General Orthopaedic Surgeon: Correct Graft Placement: How to Avoid a Vertical Graft. 76th Annual Meeting of the American Academy of Orthopaedic Surgeons, February 27, 2009, Las Vegas, NV.
 145. Instructional Course: Complex Knee Ligament Instabilities and Revisions: A Case Series Approach. Moderator and presenter. 76th Annual Meeting of the American Academy of Orthopaedic Surgeons, February 25, 2009, Las Vegas, NV.
 146. How to Approach the Biologically Challenged Complex Meniscus Tear. AANA Specialty day meeting. February 28, 2009, Las Vegas, NV.
 147. Correct Graft Placement: Where Should ACL Grafts be Placed? AOSSM Annual Meeting, July 9, 2009, Keystone, CO.
 148. Long-Term Assessment of Femoral-Fibular Posterolateral Reconstruction. 77th Annual Meeting of the American Academy of Orthopaedic Surgeons, March 11, 2010, New Orleans, LA.
 149. Instructional Course: Technical Aspects of ACL Reconstruction for the General Orthopaedic Surgeon: Use of Patellar Tendon in ACL Reconstruction. 77th Annual Meeting of the American Academy of Orthopaedic Surgeons, March 11, 2010, New Orleans, LA.
 150. Instructional Course: Technical Aspects of ACL Reconstruction for the General Orthopaedic Surgeon: Correct Graft Placement: How to Avoid a Vertical Graft. 77th Annual Meeting of the American Academy of Orthopaedic Surgeons, March 11, 2010, New Orleans, LA.
 151. Instructional Course: Complex Knee Ligament Instabilities and Revisions: A Case Series Approach. Moderator and presenter. 77th Annual Meeting of the American Academy of Orthopaedic Surgeons, March 11, 2010, New Orleans, LA.
 152. Instructional Course: Meniscus Repair and Transplantation: Update on Surgical

- Techniques and Clinical Outcomes. Moderator and presenter. 77th Annual Meeting of the American Academy of Orthopaedic Surgeons, March 12, 2010, New Orleans, LA.
153. Meniscus Repair: Broadening the Indications. AANA Specialty Day Meeting, March 13, 2010, New Orleans, LA.
 154. Instructional Course: Avascular and Complex Meniscus Tears: Which Ones Are Repairable? Moderator and presenter. 78th Annual Meeting of the American Academy of Orthopaedic Surgeons, Feb. 18, 2011, San Diego, CA.
 155. Instructional Course Lecture: Use of Bone Patellar Tendons in ACL Reconstruction. 78th Annual Meeting of the American Academy of Orthopaedic Surgeons, Feb. 18, 2011, San Diego, CA.
 156. Instructional Course Lecture: What is the Ideal ACL Graft Placement: Single-strand Femoral and Tibial Sites. 78th Annual Meeting of the American Academy of Orthopaedic Surgeons, Feb. 18, 2011, San Diego, CA.
 157. Spotlight Technique Video: Complex Meniscus Repair. 2011 AANA Specialty Day Meeting, Feb. 19, 2011, San Diego, CA.
 158. High Tibial Osteotomy: Indications, Techniques and Surgical Results. Arthroscopic Surgery 2011, Robert W. Metcalf, MD & AANA Meeting, March 25, 2011, Snowbird, Utah.
 159. Opening Wedge Osteotomy is Best and My Technique. Arthroscopic Surgery 2011, Robert W. Metcalf, MD & AANA Meeting, March 25, 2011, Snowbird, Utah.
 160. Physical Examination of the Knee: A Lost Art. Arthroscopic Surgery 2011, Robert W. Metcalf, MD & AANA Meeting, March 26, 2011, Snowbird, Utah.
 161. Indications and Approach for PCL Reconstruction: Single and Double Strand Approaches. Arthroscopic Surgery 2011, Robert W. Metcalf, MD & AANA Meeting, March 26, 2011, Snowbird, Utah.
 162. Pearls on Posterolateral Reconstruction: Technical Video. Arthroscopic Surgery 2011, Robert W. Metcalf, MD & AANA Meeting, March 26, 2011, Snowbird, Utah.
 163. What is the Evidence on Being Able to Prevent ACL Injuries? Arthroscopic Surgery 2011, Robert W. Metcalf, MD & AANA Meeting, March 27, 2011, Snowbird, Utah.
 164. The ACL is not a Double-Bundle Structure and Should be Reconstructed with Single Tunnels. Arthroscopic Surgery 2011, Robert W. Metcalf, MD & AANA Meeting, March 27, 2011, Snowbird, Utah.
 165. Pearls on ACL Reconstruction: Technical Video. Arthroscopic Surgery 2011, Robert W. Metcalf, MD & AANA Meeting, March 27, 2011, Snowbird, Utah.
 166. ACL Surgery 2011: Important Factors for Success and Avoiding Failure. Visiting Professor, Grand Rounds, Harvard University, April 21, 2011.
 167. Complex Knee Problems: Varus Malalignment and Posterolateral Instability. Visiting Professor, Thorndike Lecture, Harvard University, April 21, 2011.
 168. Instructional Course Lecture: Case-Based Surgical Management of Failed ACL Surgery. 2011 AOSSM Annual Meeting, July 8, 2011, San Diego, CA.
 169. Knee Chondrolysis After Surgery Following Intra-articular Bupivacaine Infusion: Series of 20 Knees. AAOS Annual Meeting, San Francisco, CA, Feb. 8, 2012.
 170. Repair My Meniscus: Expanded Indications for Meniscus Repair. AANA Meeting, Phoenix, AZ, Nov. 2012.
 171. Defining Success/Failure of Meniscus Transplantation. International Meniscus Reconstruction Experts Forum (IMREF), Toronto, Canada, May 10, 2013.
 172. Long-Term Meniscus Transplantation Combined With ACL Reconstruction. Advances in the Knee Pre-Conference ISAKOS, Toronto, Canada, May 11, 2013.
 173. Patellofemoral Arthroplasty vs. Cartilage Restoration in Younger Active Patients. Annual

- Meeting Herodicus Society, July 8, 2013.
174. Rapid Fire Case-Based Symposium: Meniscal Treatment, moderator. AOSSM Annual Meeting, Chicago, IL, July 13, 2013.
 175. Neuromuscular Retraining in High School Female Athletes: Effects on Athletic Performance Indices and Anterior Cruciate Ligament Injury Rates. 10th Biennial ISAKOS Congress, Lyon, France, June 2015.
 176. Anatomy of the Proximal Tibia and Its Relationship to Tibial Slope. 10th Biennial ISAKOS Congress Instructional Course Lecture, Lyon, France, June 2015.
 177. What is the Function of the Anterolateral Ligament and the Goal of an Anterolateral Reconstruction? Annual Meeting Herodicus Society, June, 2016, Lyon France
 178. High Tibial Osteotomy: Techniques and Surgical Results. AOSSM Sharpen Your Surgical Skills Course, Chicago, Sept. 24, 2016.
 179. Rehabilitation Following HTO. AOSSM Sharpen Your Surgical Skills Course, Chicago, Sept. 24, 2016.
 180. What is Normal Alignment and How Much to Correct? AOSSM Sharpen Your Surgical Skills Course, Chicago, Sept. 24, 2016.
 181. The Comprehensive Knee Exam Made Simple for Physicians. Orthopaedic Summit, Las Vegas, NE, Dec. 18, 2016.
 182. The Comprehensive Knee Exam Made Simple for Physical Therapists. Orthopaedic Summit, Las Vegas, NE, Dec. 19, 2016.
 183. What is Fact or Fiction, Surgical Decisions. Orthopaedic Summit, Las Vegas, NE, Dec. 18, 2016.
 184. Biomechanical Function of the Anterolateral Complex. Knee Consensus Meeting. UK
 185. Patellofemoral Arthroplasty in Younger Patients: Are Recreational Activities Feasible? Poster, AAOS Annual Meeting, New Orleans, March 6-10, 2018.
 186. Which Anterior Cruciate Ligament Prevention Programs Are Effective in Decreasing Injury Rates and Improving Neuromuscular Indices in Female Athletes? Poster, AAOS Annual Meeting, New Orleans, March 6-10, 2018.
 187. Patellofemoral Arthroplasty in Younger Patients: Are Recreational Activities Feasible? Poster, World Arthroplasty Congress, Rome, April 19-21, 2018.
 188. Blood Flow Restriction Therapy: A New Tool to Treatment Muscle Atrophy Post Surgery. 9th Pune Knee Rehabilitation Course, Pune, India, April 25, 2019.
 189. Use of Objective Criteria in the Clinic for Safe Return to Sports After Surgery. 9th Pune Knee Rehabilitation Course, Pune, India, April 25, 2019.
 190. Implementation of Neuromuscular Programs to Reduce ACL Injuries and Prevent Re-Occurrence of ACL Tears After Surgery. 9th Pune Knee Rehabilitation Course, Pune, India, April 25, 2019.
 191. Instructional Course Lecture: How to Repair the Meniscus. 9th Pune Knee Course, Pune, India, April 26-27, 2019.
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 196. Anatomic ACLR with BPTB is Enough. 9th Pune Knee Course, Pune, India, April 27, 2019.
 197. Keynote Address: Lower Limb Alignment: Diagnosis, Treatment and Osteotomy in ACL

- and Cartilage Deficient Knees. 9th Pune Knee Course, Pune, India, April 27, 2019.
198. Sagittal Plane Correction: Managing the Slope. 9th Pune Knee Course, Pune, India, April 27, 2019.
 199. Blood Flow Restriction Therapy Before and After Knee Surgery: An Important Addition to Your Treatment Plan. Annual Meeting of the Herodicus Society, July 6, 2019.
 200. Complexities of ACL Injury. Sports Health Symposium: Return to Play Criteria for ACL, Shoulder, and Concussion Injuries. Boston, MA, July 11, 2019.
 201. Extra-articular Reconstruction in ACL-Deficient Knees: Back to the Future? AOSSM Annual Meeting ICL, Boston, MA, July 12, 2019.
 202. Selection of ACL Graft and Surgical Techniques to Prevent Problems. 2019 Advanced Course of Knee Surgery and Sports Physiotherapy, Sao Paulo, Brazil, Sept. 26, 2019.
 203. Meniscus Repair Cases: Presentation of Cases That Show Treatment Approaches. 2019 Advanced Course of Knee Surgery and Sports Physiotherapy, Sao Paulo, Brazil, Sept. 26, 2019.
 204. Treatment of Patellofemoral Instability and Techniques for MPFL Reconstruction. 2019 Advanced Course of Knee Surgery and Sports Physiotherapy, Sao Paulo, Brazil, Sept. 26, 2019.
 205. The Importance of Diagnosing Abnormal Tibial Slope to Prevent ACL Surgery Failure. 2019 Advanced Course of Knee Surgery and Sports Physiotherapy, Sao Paulo, Brazil, Sept. 26, 2019.
 206. Treatment of Posterolateral Injuries and Surgical Techniques. 2019 Advanced Course of Knee Surgery and Sports Physiotherapy, Sao Paulo, Brazil, Sept. 27, 2019.
 207. Sportsmetrics: Neuromuscular Training to Prevent ACL Injuries. 2019 Advanced Course of Knee Surgery and Sports Physiotherapy, Sao Paulo, Brazil, Sept. 27, 2019.
 208. The Anterolateral Knee Ligament: Is a Surgical Reconstruction Necessary? 2019 Advanced Course of Knee Surgery and Sports Physiotherapy, Sao Paulo, Brazil, Sept. 27, 2019.
 209. The Importance of Blood Flow Restriction Lower Extremity Exercises for Knee Disorders. 2019 Advanced Course of Knee Surgery and Sports Physiotherapy, Sao Paulo, Brazil, Sept. 27, 2019.
 210. Why is the Return to Sports Associated With High Reinjury Rates After Knee Surgery? 2019 Advanced Course of Knee Surgery and Sports Physiotherapy, Sao Paulo, Brazil, Sept. 27, 2019.
 211. Treatment of PCL Injuries and Surgical Techniques. 2019 Advanced Course of Knee Surgery and Sports Physiotherapy, Sao Paulo, Brazil, Sept. 27, 2019.

INTERNATIONAL MEETINGS, PRESENTATIONS, COMMITTEE APPOINTMENTS (summary abstracted from CV)

1. American Orthopaedic Association Great Britain Travelling Fellowship 1979
2. Presidential Invited Faculty, Basel International Knee Congress, Basel, Switzerland, September 22-26 1992.
3. Invited Faculty, 66th Annual Meeting of Japanese Orthopaedic Association, Kobe, Japan, April 8-11, 1993.
4. Presidential Invited Faculty, Brazilian Meeting of Knee Surgery, Sao Paulo, Brazil, November 18-20, 1993.
5. Presidential Invited Faculty, French Orthopaedics Society Annual Congress, Paris, France, November 8-11, 1994.
6. Invited Faculty, Sports Medicine 2000, Stockholm, Sweden, June 6-8,

7. 1995 Presidential Invited Faculty, Knee Surgery Course, Rio de Janeiro, Brazil, April 18-21, 1996.
8. Invited Faculty, Australian Orthopaedic Association COE Meeting, Hamilton Island, Australia, July 17-20, 1996.
9. Presidential Invited Faculty, 2nd Basel International Knee Congress and Instructional Course Basel, Switzerland, September 25-28, 1996.
10. Presidential Invited Faculty, 5th GCC Orthopaedic Congress, Saudi Arabian Orthopaedic Society, Jeddah, Saudi Arabia, December 6-9, 1997.
11. Invited Faculty, Barcelona Sports Medicine and Traumatology, Barcelona, Spain, October 28-30, 1999.
12. 15-Year Experience with Repair of Complex Meniscus Ruptures Extending into the Avascular Zone. 8th International Conference on Orthopaedics, Biomechanics, Sports Rehabilitation, Perugia-Italy, November 19, 2004.
13. Clinical Outcome of Meniscus Transplantation in Symptomatic Patients Under 50 After Meniscectomy. 8th International Conference on Orthopaedics, Biomechanics, Sports Rehabilitation, Perugia-Italy, November 19, 2004.
14. Double and Triple Varus Knees. 8th International Conference on Orthopaedics, Biomechanics, Sports Rehabilitation, Perugia-Italy, November 20, 2004.
15. Sportsmetrics: A National Knee Injury Prevention Program for the Female Athlete. 8th International Conference on Orthopaedics, Biomechanics, Sports Rehabilitation, Perugia-Italy, November 21, 2004.
16. ACL Revision Reconstruction. Annual Meeting of the American Orthopaedic Society for Sports Medicine, Calgary, Alberta, Canada, July 14th, 2007.
17. The Diagnosis and Management of Arthrofibrosis After Knee Ligament Reconstruction; Management From the Surgeon's Perspective. Aug. 28th, 2008. Advanced Knee Surgery Course, Sao Paulo, Brazil.
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50. Treatment of PCL Injuries and Surgical Techniques. 2019 Advanced Course of Knee Surgery and Sports Physiotherapy, Sao Paulo, Brazil, Sept. 27, 2019.
51. International Knee Documentation Committee IKDC member: multiple year commitment

to national and international meetings over 3 years with successful IK rating instrument

PUBLICATIONS

1. Waller J, Curran R, Noyes FR: Traffic deaths - A preliminary study of urban and rural fatalities in California. *Calif Med* 101: 272-276, 1964.
2. Waller J, Curran R, Noyes FR: More rural injuries are fatal. *Calif Health* 22, 1964.
3. Noyes FR: Blood transfusions in pediatric surgery. In Grabb W (ed): Cleft Lip and Palate. Little Brown & Co., 1971.
4. Noyes FR, Smith W: Bone crises and chronic osteomyelitis in Gaucher's Disease. *Clin Orthop Rel Res* 79: 132-140, 1971.
5. Roberts VL, Noyes FR, Hubbard RP, McCabe J: Biomechanics of snowmobile spine injuries. *J Biomech* 4(6): 569-577, 1971.
6. Noyes FR, Kivi LP: Dysplasia epiphysealis hemimelica. A case simulating an intra-articular body. *Clin Orthop Rel Res* 86: 175-177, 1972.
7. Schock CC, Noyes FR, Villanueva AR: Measurement of haversian bone remodelling by means of tetracycline labeling in rib of rhesus monkeys. *Henry Ford Hosp Med J* 20: 131-144, 1972.
8. Noyes FR, McCabe JD, Fekety FR, Jr.: Acute candida arthritis. Report of a case and use of amphotericin B. *J Bone Joint Surg* 55A(1): 169-176, 1973.
9. Noyes FR, Sonstegard DA: Biomechanical function of the pes anserinus at the knee and effect of its transplantation. *J Bone Joint Surg* 55A(6): 1225-1241, 1973.
10. Noyes FR, DeLucas JL, Torvik PJ: Biomechanics of anterior cruciate ligament failure: An analysis of strain-rate sensitivity and mechanisms of failure in primates. *J Bone Joint Surg* 56A(2): 236-253, 1974.
11. Noyes FR, Torvik PJ, Hyde WB, DeLucas JL: Biomechanics of ligament failure II: An analysis of immobilization, exercise, and reconditioning effects in primates. *J Bone Joint Surg* 56A(7): 1406-1418, 1974.
12. Graves GA, Noyes FR, Villanueva AR: The influence of compositional variations on bone ingrowth of implanted porous calcium aluminate ceramics. *Bull Am Ceramic Soc*, 1974.
13. Kaufer H, Spengler DM, Noyes FR, Louis DS: Orthopaedic implications of the drug subculture. *J Trauma* 14(10): 853-867, 1974.
14. Noyes FR, Torvik PJ: Biomechanics of ligament failure: Factors affecting the strength and functional capacity of ligaments in primates. Monograph by *Aerospace Medical Research Laboratory*, Wright Patterson Air Force Base, Dayton, Ohio, 1974.
15. Graves WG, Noyes FR, Villanueva AR: The influence of compositional variations on bone ingrowth of implanted porous calcium aluminate ceramics. *J Biomed Mater Res* 9(4): 17-22, 1975.
16. Schock CC, Noyes FR, Crouch MM, Mathews CH: The effects of immobility on long bone remodeling in the rhesus monkey. *Henry Ford Hosp Med J* 23: 107-116, 1975.
17. Noyes FR, Grood ES: The strength of the anterior cruciate ligament in humans and rhesus monkeys. Age-related and species-related changes. *J Bone Joint Surg* 58A(8): 1074-1082, 1976.
18. Grood ES, Noyes FR: Cruciate ligament prosthesis: Strength, creep, and fatigue properties. *J Bone Joint Surg* 58A(8): 1083-1088, 1976.
19. Noyes FR, Grood ES, Nussbaum NS, Cooper SM: Effect of intra-articular corticosteroids on ligament properties. A biomechanical and histological study in rhesus knees. *Clin Orthop Rel Res* 123: 197-209, 1977.

20. Noyes FR: Functional properties of knee ligaments and alterations induced by immobilization: A correlative biomechanical and histological study in primates. *Clin Orthop Rel Res* 123: 210-242, 1977.
21. Butler DL, Noyes FR, Grood ES: Measurement of the biomechanical properties of ligaments. In Bahnuik G, Burstein A (eds): CRC Handbook on Engineering and Biology. pgs. 279-314, 1978.
22. Schock CC, Noyes FR, Villanueva AR: Comparison of findings of the bone stain and tetracycline labeling in monkey ribs. *J Histotech* 1: 85-88, 1978.
23. Grood ES, Noyes FR, Butler DL: Knee flail design limits: Background, experimentation and design criteria. Report No. AMRL-TR-78-58, 6570th *Aerospace Medical Research Laboratory*, Wright Patterson AFB, Dayton, Ohio, 1978.
24. Butler DL, Grood ES, Noyes FR, Zernicke RF: Biomechanics of ligaments and tendons. In Hutton R (ed): Exercise and Sports Science Review Vol 6. Franklin Institute Press, pgs. 125-181, 1978.
25. Noyes FR: Letter to the editor. *Am J Sports Med* 6: 147-149, 1978.
26. Lentz MW, Noyes FR, Neale HW: Muscle flap transposition for traumatic soft tissue defects of the lower extremity. *Clin Orthop Rel Res* 143: 200-210, 1979.
27. Lentz MW, Noyes FR: Osseous deformity from osteomyelitis variolosa: A case report. *Clin Orthop Rel Res* 143: 155-157, 1979.
28. Butler DL, Noyes FR, Grood ES: Ligamentous restraints to anterior-posterior drawer in the human knee: A biomechanical study. *J Bone Joint Surg* 62A(2): 259-270, 1980.
29. Paulos LE, Noyes FR, Malek M: A practical guide to the initial evaluation and treatment of knee ligament injuries. *J Trauma* 20(6): 498-506, 1980.
30. Noyes FR, Bassett RW, Grood ES, Butler DL: Arthroscopy in acute traumatic hemarthrosis of the knee: Incidence of anterior cruciate tears and other injuries. *J Bone Joint Surg* 62A(5): 687-695, 1980.
31. Noyes FR, Grood ES, Butler DL, Malek M: Clinical laxity tests and functional stability of the knee: Biomechanical concepts. *Clin Orthop Rel Res* 146: 84-89, 1980.
32. Noyes FR, Grood ES, Butler DL, Paulos LE: Clinical biomechanics of the knee - ligament restraints and functional stability. In Funk J (ed): AAOS Symposium on the Athlete's Knee. Surgical Repair and Reconstruction. C.V. Mosby Co, St. Louis, 1980.
33. Noyes FR: Editorial comment: Nutrient pathways in transferred patellar tendon used for anterior cruciate ligament reconstruction. *Am J Sports Med* 8: 17-18, 1980.
34. Noyes FR, Grood ES, Butler DL, Raterman L: Knee ligament tests: What do they really mean? *Phys Ther* 60(12): 1578-1581, 1980.
35. Noyes FR, Paulos L, Mooar LA, Signer B: Knee sprains and acute hemarthrosis: Misdiagnosis of anterior cruciate ligament tears. *Phys Ther* 60(12): 1596-1601, 1980.
36. Paulos LE, Rusche K, Johnson C, Noyes FR: Patellar malalignment: A treatment rationale. *Phys Ther* 60(12): 1624-1632, 1980.
37. Noyes FR: Editorial comment: Acute anterior cruciate ligament injury and augmented repair. *Am J Sports Med* 8: 400-401, 1980.
38. Bright R, D'Ambrosia R, Hawkins R, Noyes FR, Rogala E, Sim F: Report on the visit of the 1979 ABC traveling fellows to Great Britain. *J Bone Joint Surg* 62A: 853-855, 1980.
39. Grood ES, Noyes FR, Butler DL, Suntay WJ: Ligamentous and capsular restraints preventing straight medial and lateral laxity in intact human cadaver knees. *J Bone Joint Surg* 63A(8): 1257-1269, 1981.
40. Roe RJ, Grood ES, Shastri R, Gosselin CA, Noyes FR: Effect of radiation sterilization and aging on ultrahigh molecular weight polyethylene. *J Biomed Mat Res* 15(2): 209-230, 1981.

41. Paulos LE, Noyes FR, Grood ES, Butler DL: Knee rehabilitation after anterior cruciate ligament reconstruction and repair. *Am J Sports Med* 9(3): 140-149, 1981.
42. Noyes FR, Spievack ES: Extraarticular fluid dissection in tissues during arthroscopy: A report of clinical cases and a study of intraarticular and thigh pressures in cadavers. *Am J Sports Med* 10(6): 346-351, 1982.
43. Noyes FR, Mooar PA, Matthews DS, Butler DL: The symptomatic anterior cruciate-deficient knee. Part I: The long-term functional disability in athletically active individuals. *J Bone Joint Surg* 65A(2): 154-162, 1983.
44. Noyes FR, Matthews DS, Mooar PA, Grood ES: The symptomatic anterior cruciate-deficient knee. Part II: The results of rehabilitation, activity modification, and counseling on functional disability. *J Bone Joint Surg* 65A(2): 163-174, 1983.
45. Noyes FR, Butler DL, Paulos LE, Grood ES: Intra-articular cruciate reconstruction I: Perspectives on graft strength, vascularization and immediate motion after replacement. *Clin Orthop Rel Res* 172: 71-77, 1983.
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ORTHOPAEDIC VIDEO PRESENTATIONS

1. Almasri M, Noyes FR: Video review of various anterior closing wedge osteotomy techniques of the tibia. 88th Annual Meeting of the AAOS, Orthopaedic Video Theater.

ORTHOPAEDIC TEXTBOOKS

Noyes' Knee Disorders: Surgery, Rehabilitation, Clinical Outcomes.

Noyes FR (ed), Barber-Westin SD (associate ed), Saunders, Philadelphia, 2010.

1. Dettlerline A, Babb J, Noyes FR: Chapter 1: Medial and anterior knee anatomy, pp. 3-19.
2. Strickland JP, Fester EW, Noyes FR: Chapter 2: Lateral, posterior, and cruciate knee anatomy, pp. 20-43.
3. Noyes FR, Grood ES: Chapter 3: The scientific basis for examination and classification of knee ligament injuries, pp. 47-88.
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10. Barber-Westin SD, Noyes FR: Chapter 19: Decreasing the risk of anterior cruciate ligament injuries in female athletes, pp. 428-463.
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18. Noyes FR, Barber-Westin SD: Chapter 29: Meniscus transplantation: Diagnosis, operative techniques, and clinical outcomes, pp. 772-805.
19. Heckmann TP, Noyes FR, Barber-Westin SD: Chapter 30: Rehabilitation of meniscus repair and transplantation procedures, pp. 806-817.
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21. Noyes FR, Heckmann TP, Barber-Westin SD: Chapter 33: Rehabilitation after tibial and femoral osteotomy, pp. 905-914.
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