

DAVID C. AYERS, M.D.

Curriculum Vitae

May, 2008

CURRICULUM VITAE

DAVID CHRISTOPHER AYERS, M.D.

OFFICE: Department of Orthopaedic Surgery
University of Massachusetts School of Medicine
55 Lake Avenue North
Worcester, MA 01655
Tel: 508-334-9750

EDUCATION

EARLY EDUCATION

Mountain Lakes High School
Mountain Lakes, New Jersey
1970 - 1974

UNDERGRADUATE

Tufts University
Medford, Massachusetts
Bachelor of Science in Chemistry
Summa Cum Laude
1974 - 1978

MEDICAL

University of Rochester
School of Medicine and Dentistry
Rochester, New York
Doctor of Medicine
1978 - 1982

POST-DOCTORAL

INTERNSHIP

Surgical Internship
University of Rochester
Strong Memorial Hospital
July 1, 1982 - June 30, 1983
William Drucker, M.D., Professor and Chairman

RESIDENCY

Assistant Resident General Surgery
University of Rochester
Strong Memorial Hospital
July 1, 1983 - June 30, 1984
William Drucker, M.D., Professor and Chairman

Orthopaedic Surgery Resident and Chief Resident
University of Rochester
Strong Memorial Hospital
July 1, 1984 - June 30, 1987
C. McCollister Evarts, M.D., Professor and Chairman

FELLOWSHIPS

UNDERGRADUATE

Chemistry Fellowship
Tufts University
Robert Dewald, PhD, Coordinator

POST-DOCTORAL

Lord Nuffield Orthopaedic Scholar
Nuffield Orthopaedic Centre
University of Oxford
Oxford, England
Professor Robert B. Duthie, CBE, FRCS

CERTIFYING EXAMINATIONS

National Board of Medical Examiners	1983
American Board of Orthopaedic Surgery	1991
Re-certification ABOS	2000

MEDICAL LICENSURE

New York 1983
Massachusetts 2003 #217015

ACADEMIC APPOINTMENTS

Assistant Professor of Orthopaedic Surgery
State University of New York
SUNY Health Science Center at Syracuse
Syracuse, New York
Dec1988- July 1994

Director of Adult Reconstruction Division
Department of Orthopaedic Surgery
SUNY Health Science Center at Syracuse
Syracuse, New York
January1992 - 2003

Associate Professor of Orthopaedic Surgery
State University of New York
SUNY Health Science Center at Syracuse
Syracuse, New York

July 1994 - 2003

Arthur M. Pappas Professor and Chair of Orthopaedic Surgery
University of Massachusetts Medical School
Worcester, Massachusetts

March 2003 - present

HOSPITAL APPOINTMENTS

Department of Orthopaedic Surgery
University Hospital
State University of New York
Syracuse, New York

1988 - 2003

Attending Surgeon
Crouse Irving Memorial Hospital
Syracuse, New York

1988 - 2003

Chief of Orthopaedic Surgery
UMass Memorial Health Care
Worcester, Massachusetts

2003 - present

AWARDS AND HONORS

National Honor Society 1973
Mountain Lakes, N.J.

National Presidential Commendation 1974
Mountain Lakes, N.J.

Phi Beta Kappa 1977
Tufts University
Medford, Massachusetts

**Durkee Award for Excellence in Chemistry
and Chemical Research** 1978
Tufts University
Medford, Massachusetts

B.S. Summa Cum Laude 1978
Tufts University

Medford, Massachusetts

Alpha Omega Alpha 1982
University of Rochester
Rochester, New York

Lord Nuffield Orthopaedic Scholar 1988
University of Oxford
Oxford England

Sir John Charnley Award 1990
Orthopaedic Research and Education Foundation
Chicago, Illinois

North American Traveling Fellowship 1990
American Orthopaedic Association
Chicago, Illinois

PROFESSIONAL MEDICAL ORGANIZATIONS AND SOCIETIES

American Academy of Orthopaedic Surgeons

American Association of Hip and Knee Surgeons

American College of Surgeons

The Knee Society

American Medical Association

Orthopaedic Research Society

Girdlestone Orthopaedic Society

Societe Internationale de Recherche en Orthopedie et Traumatologie

American Society For Bone and Mineral Research

New York State Medical Society

Onondaga County Medical Society

Arthritis Foundation of Central New York

American Orthopaedic Association

New England Orthopaedic Society

Arthritis Foundation of Massachusetts

Massachusetts Medical Society

COMMITTEE APPOINTMENTS

NATIONAL COMMITTEES

AMERICAN ACADEMY OF ORTHOPAEDIC SURGERY

Chairman; Committee on Arthritis of the Hip and Knee	1999-present
Committee on the Knee	1993-1995
Committee on Arthritis of the Hip and Knee	1996-present
Global Fee Project	1992

American Association of Hip and Knee Surgeons:

Outcome Committee	1996 - 1999
Education Committee	1999 - present
Program Chairman Annual Meeting	2002
Executive Board	2002 - present

American Orthopedic Association

Academic Leadership Committee	2007 – present
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LOCAL COMMITTEES

University of Massachusetts Medical School – Chair, Dean Search Committee

UMass Memorial Health Care – Co-Chair, Growth Committee

Arthritis Foundation - Chairman of Medical And Scientific Committee

UMass Academic Health Center Strategic Planning
Co-Chair, Clinical Care Joint Strategic Planning Taskforce

Upstate Medical University: Clinical Research Advisory Board

University Hospital

Pharmacy and Therapeutics Committee 1992-1995

Quality Improvement Committee 1995–2003

Quality Council 1996-2003

Medical Director Orthopaedic Service Line 1996-2003
University Hospital

Orthopaedic Quality Improvement Director 1996-2003

Orthopaedic Perioperative Quality Improvement
Team 1998-2003

Funded Research Activity

Industrial Grants:

**Low Molecular Weight Heparin in the Prevention of Deep Venous
Thrombosis Following Total Hip Replacement Surgery (PI: DC Ayers)**

Kabi Pharmacia; Stockholm, Sweden
June 93 – Dec 95

Growth Factors and Orthopaedic Surgery (Co-PI: DC Ayers)

Genentech; Cambridge, Massachusetts
Nov 94 – Oct 95

**TKR Alignment and Surface Contact Areas: Phase I and Phase II (Co-PI: DC
Ayers)**

Johnson & Johnson Orthopaedics
July 94 – June 96

Computer Assisted Total Knee Replacement (Co-PI: DC Ayers)

Johnson & Johnson Orthopaedics
July 98 – June 00

Rotational Stability of Cemented Femoral Components (Co- PI: DC Ayers)

Zimmer Inc.; Bristol Meyers Squibb
Nov 99 – Oct 00

FEA and Experimental Analysis of Tapered Cemented Stems in THR (Co-PI: DC Ayers)

DePuy Orthopaedics; A Johnson and Johnson Company
Feb 00 – Jan 01

Evaluation of New Bone Cement Formulations (Co-Investigator: DC Ayers)

Osteonics Howmedica Inc, Rutherford NJ
Jan 00 – June 02

A Prospective, Randomized Study of Two Tapered Stems with the Same Geometry but Different Metal Alloys in Cementless THR (CO-PI: DC Ayers)

DePuy Orthopaedics ; A Johnson and Johnson Company
July 01 – June 02

A Prospective Randomized Study Comparing the Efficacy and Safety of Dalteparin and Warfarin in the Prevention of DVT after TKR (National PI: DC Ayers)

Pharmacia Upjohn Inc
Jan 01 – Dec 02

The Efficacy of Preoperative Procrit Injections In Inflammatory Arthritis Patients Prior to Total Joint Replacement (PI: DC Ayers)

Orthobiotech Inc.
July 97 – Dec 00

An RSA Comparison of Highly Cross-linked and Conventional Polyethylene Wear Following THR in a High Risk Patient Population (PI: DC Ayers)

Zimmer Inc.,
Jan 04 – June 09

High Flexion Total Knee Replacement (PI: DC Ayers)

Zimmer Inc.,
Jan 02 – Dec 02

National Peer Reviewed Grants:

Career Development Award (PI: DC Ayers)

Orthopaedic Research and Education Foundation
Jan 90 – Dec 91

Failure Mechanics of the Cement-Bone Interface (Co-Investigator: DC Ayers)

The Whitaker Foundation

July 94 – June 97

How Mental Status Affects Physical Outcome Following TKR (PI: DC Ayers)

Orthopaedic Research and Education Foundation

July 01 – June 03

Federal Grants:

Interface Failure in Total Joint Replacements (Co-Investigator: DC Ayers)

NIH – R29

July 96 – June 01

Fatigue Crack Morphology in Cemented Hips (Co-Investigator: DC Ayers)

NIH- R03

July 2001 – June 2003

Interface Failure in Total Joint Replacements (Co-Investigator: DC Ayers)

NIH – R01

July 2001 – June 2003

PUBLICATIONS (peer reviewed)

1. “Lipid Changes During Nephrotic Syndrome”, Ayers, D.C. and Bose, A. **College of Medicine and Dentistry of New Jersey Quarterly**, 1975.
2. “The Evaluation of Bone Perfusion Using DCAF Fluorescent Labeling and Instant Photography”, Ayers, D.C., Naim, J., Rosier, R., and Evarts, C.M.: **Surgical Forum XXXVI**: 525-526, 1985.
3. “Low Dose Radiation Therapy in the Prevention of Heterotopic Ossification in the High Risk Patient”, Evarts, C.M., Ayers, D.C., and Puzas, J.E.: **The Hip**, 70-83, 1986.
4. “The Prevention of Heterotopic Ossification in High Risk Patients by Radiation Therapy”, Ayers, D.C., Evarts, C.M., and Parkinson, J.R.: **Journal of Bone and Joint Surgery**, 68A: 1423-1430, 1986.
5. “Prostaglandins in the Inflammatory Membrane Around Hip Prostheses”, Ayers, D.C., Bromley, L., Francis, M. and Duthie, R. **Bone**, 10:151, 1989.
6. “Joint Distribution of Dialysis Amyloid”, Athanasou, N.A., Ayers, D.C., Rajiney, A.J., Oliver, D.O., and Duthie, R.B.: **British Quarterly Journal of Medicine**, 287: 205-214, 1991.

7. "The Prevention of Heterotopic Ossification in High Risk Patients By Radiation Therapy", Ayers, D.C., Pelligrini, V.D., and Evarts, C.M.: **Clinical Orthopaedics and Related Research**, 263: 78-87, 1991.
8. "Dialysis Arthropathy of the Hip", Ayers, D.C., Athanasou, N.A., Woods, C.G., and Duthie, R.D.: **Clinical Orthopaedics and Related Research**, 290: 216-224, 1993.
9. "Arthritis Surgery: A Review Article", Ayers, D.C., and Short, W.H. **Clinical and Experimental Rheumatology**, 11: 74-84, 1993.
10. "Dissociation of Bone Mineral Density from Age-Related Decreases in Insulin-Like Growth Factor-I and its Binding Proteins in the Male Rat", Benedict, M., Adiyaman, S., Ayers, D.C., Thomas, F.D., Calore, J., and Richman, R.: **The Journal of Gerontology**, 49(5): B224-30, 1994.
11. "Differential Distribution of Insulin-like Growth Factors and Their Binding Proteins Within Bone: Relationship to Bone Mineral Density", Benedict M., Ayers, D.C., Calore, J., and Richman, R: **Journal of Bone and Mineral Research**, 9(11):1803-1811, 1994.
12. "Short-Term Failure of a Unicompartamental Knee Replacement:", Reibel, G., Ayers, D.C., Werner, F., and Murray, D.G. **Journal of Arthroplasty**, 10(5): 615-622, 1995.
13. "Post-Operative Blood Salvage After Total Hip Arthroplasty", Ayers, D.C., Murray, D.G., and Duerr, D.: **Journal of Bone and Joint Surgery**, 77-A(9): 1347-1351, 1995
14. "Common Complications of Total Knee Replacement" Ayers, D.C., Dennis, D.A., Johanson, N.A. and Pelligrini, V.D. **Journal of Bone and Joint Surgery**, 79-A(2): 278- 312, 1997.
15. "Effects of Stem Length on Mechanics of the Femoral Hip Component After Cemented Revision THR", Mann, K.A., Ayers, D.C. and Damron, T.A **Journal of Orthopaedic Research**, 15(1): 62-69, 1997.
16. "Supracondylar Fracture of the Distal Femur Proximal to a Total Knee Replacement", Ayers, David **AAOS Instructional Course Lectures**. Vol 46(18): 197-203, 1997.
17. "Tensile Strength of the Cement-Bone Interface Depends on the Amount of Bone Interdigitated with PMMA Cement", Mann, K.A., Ayers, D.C., Damron, T.A. **Journal of Biomechanics** Vol 30 (4): 339-346, 1997.
18. "Polyethylene Failure and Osteolysis Following Total Knee Replacement", Ayers, David **AAOS Instructional Course Lectures**, Vol 46(19): 205-213, 1997.

19. "Modeling the Tensile Behavior of the Cement-Bone Interface Using Non-Linear Fracture Mechanics", Mann, K.A., Werner, F.W., Ayers, D.C. **Journal of Biomechanical Engineering** 119: 175-178, 1997.
20. "A Prospective Randomized Study Comparing The Safety and Efficacy of Dalteparin and Warfarin in the Prevention of DVT After THR", Pelligrini, V., Francis, C., Ayers, DC., et al: **Journal of Bone and Joint Surgery** 79A: 65: 1365-1372, 1997.
21. "Influence of Stem Geometry on Mechanics of Cemented Femoral Components With a Proximal Bond", Mann, K., Bartel, D., Ayers, D. **Journal of Orthopaedic Research** 15: 700-706, 1997.
22. "Pre-Yield and Post-Yield Shear Behavior of the Cement-Bone Interface", Mann, K., Allen, M., Ayers, D.: **Journal of Orthopaedic Research** Vol. 16: 370-378, 1998.
23. "Mechanical Strength of the Cement-Bone Interface is Greater in Shear than in Tension", Mann, K., Werner, F., Ayers, D. **Journal of Biomechanics**, 32 (11): 1251-1254, 1999.
24. "A Double-Blind Randomized Comparison of LMWH Prophylaxis Using Dalteparin in Close Proximity to Surgery Versus Warfarin in Hip Arthroplasty Patients", Hull, R., Pineo, G., Francis, C.,... Ayers, D., et al. **Archives of Internal Medicine**, 160: 2199-2207, 2000.
25. "Maximizing UHMWPE Performance in Total Knee Replacement Surgery", Ayers, DC: **AAOS Instructional Course Lectures**, Vol. 50(44); 421-431, 2001.
26. "Mixed-mode Failure Response of the Cement-Bone Interface", Mann, KA, Damron, LA, Allen, MJ, Ayers, DC. **Journal of Orthopaedic Research**, 19(6); 1153-1161, 2001.
27. "Evaluation of the Painful TKR with Radiographically Well-Fixed Components", Ayers, David C. **Journal of the American Academy of Orthopaedic Surgeons**, Invited Submission, In Print, 2003.
28. "Complications Following Total Knee Replacement", Ayers, David C. **Orthopaedic Knowledge Update VII**, Invited Submission, In Print, 2002.
29. "Physical Function After Total Knee and Hip Replacement Equals Age-Matched Norm for Patients Over 65", Ayers, D.C., Setter, K., Jain, R., Bennett, M., Murray, D., Rogers, M., and Franklin, P. **Journal of Arthroplasty**, Submitted for Publication, 2003
30. "Why Cemented Femoral Components Occasionally Fail", Ayers, D.C., Mann, K.A.. **AAOS Instructional Course Lectures**, Invited Submission Vol. 52, 2003.
31. "Morphology Of The Stem-Cement Interface In Grit-blasted Femoral Components",

Race, A., Mann, K.A., Ayers, D.C., Submitted for Publication **Journal of Bone and Joint Surgery**, 2001.

32. "Tumor Necrosis Factor Effects Bone Resorption at the Bone-Cement Interface in an Animal Model", Allen, M., Schoonmaker, Ayers D.C. Submitted for Publication **Journal of Arthroplasty** 2002.

33. "Preoperative administration of Erythropoetin in Rheumatoid Arthritis Patients Undergoing Total Joint Replacement", Ayers, D.C., VanGlynn, M., and Bertolo, G. Submitted for Publication **Journal of Arthroplasty** 2003.

34. Cement Microcracks in thin-mantle regions after in vitro fatigue loading
J. Arthroplasty 2004 Aug; 19(5):605-12.

35. "Psychological Attributes of Preoperative Total Joint Replacement Patients: Implications for Optimal Physical Outcome. Ayers DC, Franklin PD, Trief P, Ploutz-Snyder R, Freund DF. **J Arthroplasty**. 2004 Oct;19 (7 Suppl 2):125-30.

36. "Differential Effects of Emotional Health in Total Hip and Total Knee Replacement Functional Outcome." Franklin PD, Ayers DC, Ploutz-Snyder R, Kelly M. Submitted, May 2005.

37. "The Relative Contributions of Emotional and Physical Health to Total Knee Replacement Outcomes. Ayers DC, Franklin PD, Ploutz-Snyder R, Boisvert C., Trief P. Accepted, **Clin Orth Rel Res**, Fall 2005.

38. Total knee replacement outcome and co-existing physical and emotional illness. **Clin Orthop Relat Res**. 2005 – Nov; 440:157-61

39. The effect of valgus/varus malalignment on load distribution in total knee replacements. **Biomech** 2005 Feb; 38(2):349-55.

BOOK CHAPTERS

1. Ayers, D.C., and Murray D.G.: Complications in the treatment of fractures and dislocations; general considerations. In: **Complications In Orthopaedic Surgery** Editor: Charles Epps Jr. Fourth Edition, J.B. Lippincott, Philadelphia, PA. 1993.

2. Ayers, D.C.: Polyethylene Failure and Osteolysis Following Total Knee Replacement. **Instructional Course Lectures**. 47, American Academy of Orthopaedic Surgeons, Port City Press, Inc., Baltimore, MD. 1997.

3. Ayers, D.C.: Supracondylar Fractures Following Total Knee Replacement. **Instructional Course Lectures** 47, American Academy of Orthopaedic Surgeons, Port City Press, Inc., Baltimore, MD. 1997.

4. Ayers, D.C.: Blood Utilization Techniques in Total Hip Replacement Surgery. **The Oxford Textbook of Orthopaedics**, Oxford Press, Oxford, England, 2001.
5. Ayers, D.C.,: Maximizing UHMWPE Performance in Total Knee Replacement. **Instructional Course Lectures 50**, American Academy of Orthopaedic Surgeons, Port City Press, Inc., Baltimore, MD. 2001
6. Ayers, D.C.: Evaluation of the Failed Total Knee Replacement. In: **Primary and Revision Total Knee Replacement**. Editors: Callaghan, Rosenberg, and Rubash. J.B.Lippincott, Philadelphia, PA. 2002.
7. Ayers, D.C.: Complications Following Total Knee Replacement. In: **AAOS Orthopaedic Knowledge Update VII**

PUBLISHED ABSTRACTS FROM PRESENTATIONS TO NATIONAL AND INTERNATIONAL MEETINGS

1. "The Evaluation of Bone Perfusion Using Florescent Labeling and Instant Photography"
American Orthopaedic Association National Residents Conference
New Orleans, Louisiana 1985
2. "The Evaluation of Femoral Head Perfusion using DCAF and Instant Photography"
American College of Surgeons, 71st Clinical Congress
Chicago, Illinois 1985
3. "The Prevention of Heterotopic Ossification in High Risk Patients by Radiation Therapy"
American Orthopaedic Association National Residents Conference
Los Angeles, California 1986
4. "The Documentation of Femoral Head Perfusion Following Femoral Neck Fracture Using DCAF and Instant Photography"
Orthopaedic Research Society, 32nd Annual Meeting
New Orleans, Louisiana 1986
5. "The Prevention of Heterotopic Ossification in High Risk Patients by Radiation Therapy Following Total Hip Arthroplasty"
American Academy of Orthopaedic Surgeons
San Francisco, California 1987
6. "The Prevention of Heterotopic Ossification in High Risk Patients by Radiation Therapy Following Total Hip Arthroplasty"
American Orthopaedic Association Centennial Meeting
Washington, D.C. 1987

7. "Prostaglandin Concentrations in the Inflammatory Membrane Around Aseptically Loose Total Hip Replacements"

Bone and Tooth Society

Cardiff, Wales 1988

8. "Prostaglandin Concentrations in the Inflammatory Membrane Around Aseptically Loose Total Hip Replacements"

Orthopaedic Research Society

Las Vegas, Nevada 1989

9. "The Use of Computer Assisted Digitization in the Assessment of the Position of Total Hip Replacements"

American Academy of Orthopaedic Surgeons

New Orleans, Louisiana 1990

10. "Prostaglandins and Aseptic Loosening of Hip Replacements"

Societe Internationale de Churogie Ortopedie et Traumatologie

Montreal, Canada 1990

11. "Contact Surface Areas in Cruciate Sparring Total Knee Replacements"

Combined Meeting of the American , Canadian, and Japanese Orthopaedic Research Societies

Banff, Canada 1991

12. "Long-Term Results of the Variable Axis Total Knee Replacement"

American Academy of Orthopaedic Surgeons

Washington, D.C. 1992

13. "Contact Surface Areas in Total Knee Replacements"

Orthopaedic Research Society

Washington, D.C. 1992

14. "Contact Surface Areas in Condylar Knee Designs"

American Academy of Orthopaedic Surgeons

Washington, D.C. 1992

15. "Postoperative Blood Salvage and Reinfusion of Filtered Unwashed Blood after Total Hip Replacement Surgery"

American Academy of Orthopaedic Surgeons

San Francisco, California 1993

16. "Cytokines and Endosteal Bone Resorption In Cemented Total Hip Replacements"

Orthopaedic Research Society

San Francisco, California 1993

17. "Surface Contact Areas and Wear Debris in Total Knee Replacements"
Instructional Course for Orthopaedic Surgeons in Joint Replacement
Vail, Colorado 1993
18. "Postoperative Blood Salvage in Hip and Knee Replacement Surgery"
American Association of Hip and Knee Arthritis Surgery
Dallas, Texas 1993
19. "Postoperative Blood Salvage Following Knee Replacement"
American Academy of Orthopaedic Surgeons
New Orleans, Louisiana 1994
20. "Cytokines and Bone Resorption in Hip Replacements"
Fifth International Meeting on Cytokines and Cells in Bone and Cartilage
Davos, Switzerland 1994
21. "Mechanical Failure After Total Knee Replacement"
"Preoperative Evaluation Before Total Knee Replacement"
"Non-Operative Treatment of Knee Arthritis"
AAOS Course : Comprehensive Treatment of the Adult Knee
San Diego, California 1995
22. "Prostaglandin and Cytokine Concentrations in Aseptically Loose Total Hip Replacements"
American Academy of Orthopaedic Surgeons
Orlando, Florida 1995
23. "Loosening of the Femoral Hip Component After Cemented Revision: Effects of Stem Length and Stem-Cement Bonding"
American Academy of Orthopaedic Surgeons
Orlando, Florida 1995
24. "Biologic Contributions to Failure of Implant Fixation"
Visiting Professor
University Hospital, University of Western Ontario
London, Ontario 1995
25. "Osteolysis Following Total Knee Replacement"
Pennsylvania State Joint Replacement Course
Hershey, Pennsylvania 1995
26. "Polyethylene Wear and Osteolysis Following Total Knee Replacement"
"Supracondylar Fractures After Total Knee Replacement"
Instructional Course Moderator and Lecturer
American Academy of Orthopaedic Surgeons

Atlanta, Georgia 1996

27. "Intramedullary PGE2 Administration at The Bone-Cement Interface"

Orthopaedic Research Society

Atlanta, Georgia 1996

28. "Patello-Femoral Failure After Total Knee Replacement"

"Polyethylene Wear and Osteolysis Following Total Knee Replacement"

"Non-Operative Treatment of Knee Arthritis"

AAOS Course : Comprehensive Treatment of the Adult Knee

Boston, Massachusetts 1996

29. "Total Hip Replacement in the United States; The Current State of the Art"

International Hip Replacement Symposium

Hosted by the Japanese Hip Foundation

Yokohama City, Japan 1997

30. "Influence of Stem Geometry on Mechanics of Cemented Femoral Hip Components With a Proximal Bond"

Orthopaedic Research Society

San Francisco, California 1997

31. "Treatment of Polyethylene Wear in Total Knee Replacement With Tibial Insert Exchange"

American Academy of Orthopaedic Surgery

San Francisco, California 1977

32. "Common Complications Following Total Knee Replacement: Treatment and Prevention"

Instructional Course Lecture Moderator and Lecturer

American Academy of Orthopaedic Surgery

San Francisco, California 1997

New Orleans, Louisiana 1998

Anaheim, California 1999

33. "The Effect of Valgus/Varus Malalignment on Load Distribution in Total Knee Replacements"

Symposium of the International Society for Technology in Arthroplasty

San Diego, California 1997

34. "The Importance of Stem Surface Finish in Cemented THR"

"Long-term Results of the Tri-Lock Cementless THR"

"Optimizing UHMWPE wear in TKR"

Controversies In Total Joint Replacement

Lake George, New York 1998

35. "Optimizing UHMWPE in Total Hip Replacement and Total Knee Replacement"
Instructional Course Lecture Moderator and Lecturer
American Academy of Orthopaedic Surgery
Anaheim, California 1999
Orlando, Florida 2000
36. "Periprosthetic Fractures Following Total Knee Replacement"
AAOS Symposium; Treatment of Complications Following TKR
American Academy of Orthopaedic Surgery
Anaheim, Ca 1999
37. "Long-term Results of Tapered Cementless Femoral Components in THR"
"Polyethylene Wear and Osteolysis in TKR"
"Supracondylar Fracture Proximal to TKR; Pathophysiology and Treatment"
Current Concepts in Total Joint Replacement Surgery
Niagara Falls, Ontario, Canada 1999
38. "Womac Scores Improve Prediction of Physical Change Following TJR"
"Highlights of the Orthopaedic Research Society Related to TJR"
American Association of Hip and Knee Surgeons
Dallas, Texas 1999
39. "The Effect of Coronal Malalignment on Load Distribution
in Total Knee Replacements"
International Symposium for Technology in Arthroplasty
Chicago, Illinois 1999
40. "Coronal Mal-alignment and Surface Contact Area in TKR"
Orthopaedic Research Society
Orlando, Florida 2000
41. "Maximizing UHMWPE Performance in TKR"
Instructional Course Lecturer and Moderator
American Academy of Orthopaedic Surgeons Annual Meeting
Orlando, Fla. 2000
42. "Outcome Studies In TKR Patients; How They Can Affect Your Practice"
"Highlights of the ORS 2000 Annual Meeting Regarding Joint Replacements"
American Association Of Hip and Knee Surgeons
Dallas, Texas 2000
43. "How Outcome Studies Can Be Useful In Your Knee Replacement Practice"
Eastern Orthopaedic Association
Orlando, Fla. 2000

44. "Measurement of Contact Area During Trial Reduction Correlate With Physiologic Loading Following TKR"
American Academy of Orthopaedic Surgeons
San Francisco, CA 2001
45. "Unexpected Gaps at the Stem-Cement Interface in Textured Cemented Femoral Components."
American Association of Hip and Knee Surgeons
Dallas, Texas 2001
46. "The Effect of TNF Application at the Bone-Cement Interface in an Animal Model"
The Knee Society
San Diego, CA 2001
47. "Unicompartmental Arthritis of the Knee: Alternatives to Total Knee Replacement"
Instructional Course Lecture and Moderator
American Academy of Orthopaedic Surgeons
Dallas, Texas 2002
New Orleans, LA 2003
48. "Revision Total Knee Replacement"
Instructional Course Lecture
American Academy of Orthopaedic Surgeons
Dallas, Texas 2002
New Orleans, LA 2003
49. "Minimally Invasive Unicompartmental Knee Replacement: A Historical Perspective"
Symposium
American Academy of Orthopaedic Surgeons
Dallas, Texas 2002
50. "The Importance of Proximal Cement Mantle Thickness In Total Hip Replacement"
American Association of Hip and Knee Surgeons
Dallas, Texas 2002
51. "How Outcome Measures in TKR Surgery Can Effect Your Practices"
International Society for the Advancement of Technology in Arthroplasty
Oxford, England UK 2002
52. "Total Knee Replacement in the Young Patient"
Instructional Course Lecture
American Academy of Orthopaedic Surgeons
New Orleans, LA 2003
53. "Important Hip Topics: Osteonecrosis, Labral Tears and NSAIDS"
Moderator, AAHKS Fall Meeting

Texas, November 2004

54. "Total Knee Replacement in the Young Patient"
American Academy of Orthopaedic Surgeons Annual Meeting
Washington DC 2005

55. "How Pre-operative MCS Effects Post-Operative Outcome In Knee Replacement Surgery"
American Academy of Orthopedic Surgeons Annual Meeting
Washington, DC 2005

56. "Is There An Association Between Pre-op Emotional Health and Post-op Exercise Adherence After TKR"
American Academy of Orthopedic Surgeons Annual Meeting
Chicago, IL 2006

PRESENTATIONS TO REGIONAL AND LOCAL MEETINGS

"Intracapsular Fractures of the Proximal Femur; The Unsolved Fracture"
University of Rochester Orthopaedic Grand Rounds
Rochester, New York 1985

"Prostaglandins and Prosthetic Component Fixation"
Nuffield Orthopaedic Centre Research Seminar
Oxford, England 1988

"Prostaglandins of the E and F Series and Aseptic Loosening of Total Hip Replacements"
Case Western Reserve University Research Seminar
Cleveland, Ohio 1988

"The Role of Prosthetic Replacement in Femoral Neck Fractures"
SUNY Health Science Center AO Course– Operative treatment of Femur Fractures
Syracuse, New York 1989

"The Prevention of Heterotopic Ossification by Low Dose Radiation Therapy in the High Risk Population Following Total Hip Replacement"
Nuffield Orthopaedic Centre Grand Rounds
Oxford, England 1989

"Prostaglandins and Aseptic Loosening"
University of Rochester Alumni Day
Rochester, New York 1989

"Controversies in Joint Replacement Surgery"

Arthritis Teaching Day

Binghamton, New York 1990

"Total Knee Replacement Surgery"

SUNY Rheumatology Grand Rounds

Syracuse, New York 1990

"Total Hip Replacement Surgery"

SUNY Rheumatology Grand Rounds

Syracuse, New York 1990

"Joint Replacement Surgery"

Arthritis Teaching Day

Syracuse, New York 1990

"Revisional Hip Surgery"

Mary Imogene Bassett Hospital Symposium

Cooperstown, New York 1991

"Implant Removal Techniques"

Capital District Revision Hip Symposium

Saratoga, New York 1991

"The Biologic Response to Wear Debris"

Academic Orthopaedic Surgeons Travel Society

Palm Beach, Florida 1991

"The Biologic Response to Wear Debris"

Reconstructive Surgeons Travel Society

Chicago, Illinois 1991

"Dialysis Amyloidosis of the Musculoskeletal System"

Nephrology Grand Rounds

Syracuse, New York 1991

"Revision Joint Replacement Surgery"

Utica Orthopaedic Grand Rounds

Utica, New York 1992

"Replacement of the Proximal Femur"

AO Course: Operative Care of Fractures

Syracuse, New York 1993

"Revision Hip Surgery"

Albany Orthopaedic Teaching Seminar

Glens Falls, New York 1995

"Polyethylene Wear After Total Knee Replacement"

Rheumatology Grand Rounds

Syracuse, New York 1996

"Total Hip Replacement: Cemented or Cementless"

Rheumatology Grand Rounds

Syracuse, New York 1997

"Total Knee Replacement: Current Issues"

Rheumatology Grand Rounds

Syracuse, New York 1998

"How do I Measure Quality in TJR"

Rheumatology Grand Rounds

Syracuse, New York 1999

"The Prevention of DVT Following THR"

Utica Orthopaedic Grand Rounds

Utica, New York 1999

"The Prevention of DVT Following THR; the Evolving Role of LMWH"

Upjohn National Sales Meeting

Nashville, Tennessee 2000

"The Trilock Cementless Femoral Component; Design Concepts and Long-term Results"

Anderson Orthopaedic Learning Center

Washington, DC January and March 2000

"Tapered Cementless Stems In Total Hip Replacements"

New England Baptist Hospital Orthopaedic Grand Rounds

Boston, Mass. October 2000

"Gaps at the Stem-Cement Interface with Textured Femoral Components"

AORTA Annual Meeting

Brewster, Mass. August 2001

"Prevention of DVT following THR and TKR; the evolving role of LMWH's"

Strong Memorial Hospital; University of Rochester Orthopaedic Grand Rounds

Rochester, New York December 2002

"Total Joint Replacement"

New England Baptist Hospital: Orthopedic Grand Rounds

Boston, MA November 17, 2004

“The Department of Orthopedics and Physical Rehabilitation”

UMass Memorial Combined Grand Rounds

Worcester, MA December 17, 2004

“Is it Really Arthritis or Did I Injure Myself”

UMass Memorial Foundation Medical Research and Quality Health Care

West Palm Beach, Florida, March 1, 2005

“Total Knee Replacement 2005”

Informed Women, Healthy Women 2005 Workshop

Marlboro, MA

“Joint Replacement 2005”

Berkshire Medical Center

Pittsfield, MA May 20, 2005

“Preoperative Patient Factors Effect PostOperative Outcome in Knee Replacement Surgery” **35th Annual Arthroplasty Course**

Boston, MA September 28, 2005

“Tapered Cementless Stems “

35th Annual Arthroplasty Course

Boston, MA September 28, 2005

“Knee Arthritis: Total Knee Replacement”

Orthopedics for the Primary Care Provider

Westboro, MA October 6-7, 2005

Paper Presentation: “Is There An Association between Pre-Op Emotional Health and Post-Op Exercise Adherence after TKR”

American Association of Hip and Knee Surgeons 15th Annual Meeting

Dallas Texas November 4-6, 2005

Moderator: Session Eight: “Revision TKR”

American Association of Hip and Knee Surgeons 15th Annual Meeting

Dallas Texas November 4-6, 2005

Guest Speaker: “Arthritis Update”

Arthritis Foundation Worcester Support and Education Group

Presenter, Advances in Arthroplasty

36th Annual Arthroplasty Course

Boston, MA October 4 – 6, 2006

Moderator: Continuum of Musculoskeletal Research: from cells to society

Clinical Translational Research Retreat

Worcester, MA April 26, 2007

Pain Relief and Functional Improvement after Total Knee Replacement (TKR)

AAHKS 17TH Annual meeting

Dallas, Texas November 2-4, 2007

Total Joint Replacement Surgery: State of the Art in 2008

UMass Amherst Polymer Science & Engineering Department Spring 2008 Symposium

Amherst, MA May 15, 2008

INVITED INTERNATIONAL LECTURES

University of Western Ontario

London, Ontario

"Biologic Contributions to the Failure of Implant Fixation"

1995

International Hip Symposium.

Hosted by the Japanese Hip Society

Yokohama City, Japan

"Total Hip Replacement in the United States; The Current State of the Art"

1997

Nuffield Orthopedic Centre

Hosted by Oxford University

Oxford UK

"Total Knee Replacement in the United States, the Current State of the Art in 2007"

July, 2007

EDITORIAL REVIEW BOARD

Journal of the American Academy of Orthopaedic Surgery

Techniques in Knee Surgery

SCIENTIFIC EXHIBITS

"Wear Debris and Total Joint Replacement of the Hip and Knee"

American Academy of Orthopaedic Surgeons
Committee on Hip and Knee Arthritis
1996 & 1997

“Economic Aspects of Total Joint Replacement and DRG 209”
American Academy of Orthopaedic Surgeons
Committee on Hip and Knee Arthritis
1998 & 1999

PROGRAM CHAIRMAN

“Current Issues in Total Joint Replacement Surgery”
Sagamore Hotel, Bolton Landing, New York
October 1998

“Controversies in Total Joint Replacement of the Hip and Knee”
Niagara Falls, New York
May 1999

American Association of Hip and Knee Surgeons
Program Chairman, Annual Meeting
Dallas, Texas
November 2002