

CURRICULUM VITAE

Name: Richard Joel Friedman
Address: 2270 Ashley Crossing Drive, Suite 110, Charleston, SC 29414
Date of Birth: Proprietary information deleted.
Place of Birth: proprietary information deleted.

Education:

University of Toronto Faculty of Sciences
University of Toronto Faculty of Medicine - MD (Honors)

Post-Doctoral Training:

Intern in Surgery, The Johns Hopkins Hospital, Baltimore, Maryland
Second Year Resident in Surgery, Massachusetts General Hospital, Boston, Massachusetts
Resident in Orthopaedic Surgery, Harvard Combined Orthopaedic Residency Program, Boston, Massachusetts
Assistant in Orthopaedic Surgery, Brigham and Women's Hospital, Boston, Massachusetts

Licensure and Certification:

Diplomate of the National Board of Medical Examiners
Licentiate of the Medical Council of Canada
Massachusetts License Registration
South Carolina Medical Licensure
Certificate in Orthopaedic Surgery, Royal College of Physicians and Surgeons of Canada
Certified, American Board of Orthopaedic Surgery
Recertified, American Board of Orthopaedic Surgery

Academic Appointments:

- 1980-81 Fellow, Department of Surgery, Johns Hopkins University School of Medicine, Baltimore, Maryland
- 1981-82 Clinical Fellow in Department of Surgery, Harvard Medical School, Boston, Massachusetts
- 1982-85 Clinical Fellow in Orthopaedic Surgery, Harvard Medical School, Boston, Massachusetts
- 1986-90 Assistant Professor of Orthopaedic Surgery, Medical University of South Carolina, Charleston, South Carolina
- 1987-99 Faculty Member, College of Graduate Studies, Medical University of South Carolina, Charleston, South Carolina
- 1990-95 Associate Professor of Orthopaedic Surgery, Medical University of South Carolina, Charleston, South Carolina
- 1990-95 Adjunct Associate Professor of Bioengineering, Clemson University, Clemson, SC
- 1990-97 Research Coordinator, Bioengineering Alliance of South Carolina.
- 1990-99 Director of Orthopaedic Research, Department of Orthopaedic Surgery, Medical University of South Carolina.
- 1995-99 Professor of Orthopaedic Surgery, Medical University of South Carolina, Charleston, South Carolina
- 1995- Adjunct Professor of Bioengineering, Clemson University, Clemson, SC
- 2000- Clinical Professor of Orthopaedic Surgery, Medical University of South Carolina, Charleston, South Carolina

Hospital Appointments:

- 1983-84 Surgical Staff, Brigham and Women's Hospital, Boston, MA
- 1984-85 Surgical Staff, New England Baptist Hospital, Boston, MA
- 1986-91 Chief, Orthopaedic Section, Ralph H. Johnson Veterans Administration Hospital, Charleston, SC
- 1988-96 Consulting Staff, St. Francis Xavier Hospital, Charleston, SC

1986-99 Attending Orthopaedic Staff, Medical University Hospital.
1986-99 Attending Orthopaedic Staff, Charleston Memorial Hospital.
1990-99 Consulting Staff, Roper Hospital, Charleston, SC
1991-99 Consultant, Ralph H. Johnson Veterans Administration Hospital, Charleston, SC
1996-99 Courtesy Staff, St. Francis Hospital, Charleston, SC
2000- Courtesy Staff, Medical University Hospital, Charleston, SC
2000- Courtesy Staff, Trident Regional Medical Center, Charleston, SC
2000- Courtesy Staff, East Cooper Hospital, Charleston, SC
2000- Active Staff, Roper Hospital, Charleston, SC
2000- Active Staff, St. Francis Hospital, Charleston, SC

Academic Awards and Honors:

Ann Sheppard Memorial Scholarship
P.S.I. Foundation Summer Scholarship
Walter F. Watkins Scholarship
George Ruderfer Memorial Bursary
R.I. Harris Undergraduate Award
Crocker Foundation Bursary
Medical School Graduation – Honors Citation
Edwin French Cave Travelling Fellowship
American Orthopaedic Association North American Travelling Fellowship
1989 American Red Cross Southeastern Transplantation Services Volunteer of the Year
1990 John A. Seigling Teaching Award

- 1996 American Orthopaedic Association American British Canadian Travelling Fellowship Alternate
- 1999 Abraham Weinstein Distinguished Lecturer, Department of Orthopaedic Surgery, Long Island Jewish Hospital, New Hyde Park, New York.

Committee Assignments:

National and Regional:

- 1987 Course chairman for "Current Concepts In Shoulder Surgery", Charleston, SC May 26–30, 1987.
- 1988-90 Member, American Red Cross Southeastern Transplantation Committee.
- 1988- Reviewer, Clinical Orthopaedics and Related Research.
- 1989- Campaign Chairman – South Carolina, Orthopaedic Research and Education Foundation, and Member, Committee for the Future of Orthopaedic Surgery.
- 1990 Member, Local Arrangements Committee, Society For Biomaterials 16th Annual Meeting, Charleston, SC, May 20–23, 1990.
- 1990 Course Chairman for Third Annual Southeastern Residents Research Conference, Charleston, SC, May 18–19, 1990.
- 1990-94 Course Chairman for "Current Concepts in Orthopaedic Biomaterials and Implant Fixation", an Instructional Course at the Annual Meeting of the American Academy of Orthopaedic Surgeons.
- 1991- Reviewer, Journal of Shoulder and Elbow Surgery.
- 1992 Secretary, Committee on Biomedical Engineering, American Academy of Orthopaedic Surgeons.
- 1993-98 Member, Committee on Biomedical Engineering, American Academy of Orthopaedic Surgeons.
- 1992- Member, Committee on CPT Coding, American Academy of Orthopaedic Surgeons.
- 1992-93 Member, Program Committee for 9th Open Meeting, American Shoulder and Elbow Surgeons.
- 1992-93 Member, Finance Committee, American Shoulder and Elbow Surgeons.

- 1993-97 Member, Committee on Evaluations, American Academy of Orthopaedic Surgeons.
- 1993-98 Member, Research Committee, American Shoulder and Elbow Surgeons.
- 1993 Course chairman for "Current Concepts In Shoulder Surgery", Charleston, SC June 2-5, 1993.
- 1993- Consultant Reviewer, Journal of Bone and Joint Surgery.
- 1993- Consultant Reviewer, Journal of the Academy of Family Practice.
- 1993 Host and Program Coordinator, American Orthopaedic Association North American Travelling Fellowship, Charleston, SC, October 22-24, 1993.
- 1993 Chairman, 1993 Neer Award Committee, American Shoulder and Elbow Surgeons.
- 1994-96 Member, Neer Award Committee, American Shoulder and Elbow Surgeons.
- 1994- Chairman, CPT Committee, American Shoulder and Elbow Surgeons.
- 1995- Reviewer, Journal of Orthopaedic Research.
- 1995-98 Member, Task Force on Shoulder Education in the 21st Century, American Shoulder and Elbow Surgeons
- 1996- Member, Publications Committee, American Shoulder and Elbow Surgeons
- 1996- Reviewer, Journal of the American Academy of Dermatology
- 1996 Course Chairman for "Strategic Approaches to Shoulder Instability, Fractures and Reconstruction", American Academy of Orthopaedic Surgeons, Chicago, IL, April 19-21, 1996.
- 1996-97 Member, AAOS-FDA-OSMA Committee for Total Shoulder Arthroplasty Reclassification
- 1997- Consultant, Orthopaedic Device Review Panel, Food and Drug Administration
- 1997 Co-Chairman, Arthritis Foundation/OREF Joint Parade, Charleston, SC
- 1998 Course Chairman for "Current Techniques in Open and Arthroscopic Shoulder Surgery", American Academy of Orthopaedic Surgeons, Rosemont, IL, November 13-15, 1998.
- 1999 Member, Steering Committee, RPR Lovenox Consultants Meeting, Phoenix, AZ, February 11-14, 1999.

- 2000 Co-Chairman, Lovenox Orthopaedic Consultants Summit, Ft. Myers, FL, February 4-6, 2000.
- 2000 Chairman, Symposium on Update on Thrombosis: Management of the Surgical Patient, Orlando, FL, March 16, 2000.
- 2001 Co-Chairman, Lovenox Orthopaedic Consultants Summit, Amelia Island, FL, March 30-April 1, 2001.
- 2001-2002 Member, North American Hip and Knee Registry Steering Committee.
- 2001- Member, International Hip and Knee Registry Steering Committee
- 2001 Chairman, Aventis Closed Consultants Meeting, Scottsdale, AZ, November 15-18, 2001.
- 2001 Chairman, Optimizing Management in Orthopaedic Surgery: Issues and Controversies, Orlando, FL, December 14, 2001.
- 2001- Member, Council for Leadership on Thrombosis Awareness and Management.
- 2002 Co-Chairman, Orthopaedic Review Symposium, Vail, Co, January 3-5, 2002.
- 2002 Co-Chairman, Balancing Benefit and Risk in Orthopaedic Thromboprophylaxis. Dallas, Tx, February 15, 2002.
- 2002 Chairman, Lovenox Area Consultant Forum 2002, Charlotte, NC June 21, 2002.
- 2002 Co-Chairman, Thromboprophylaxis With Low Molecular Weight Heparin: The Real World Answer to the Surgeon's Needs. San Diego, CA, August 27, 2002.
- 2002 Member, John J. Fahey Memorial NATF Committee, American Orthopaedic Association
- 2003 Chairman, Balancing Benefit and Risk in Orthopaedic Thromboprophylaxis. New Orleans, LA, February 6, 2003

Medical University of South Carolina:

- 1986-99 Member, Institutional Review Board for Human Research.
- 1990-97 Member, Ethics Committee.
- 1991-95 Member, Continuing Education Committee.

Hospital:

- 1986-90 Member, Pharmacy and Therapeutics Committee.
- 1987-93 Member, Utilization Review Committee.
- 1988 Chairman, Post Surgery Recovery Task Force Committee.
- 1989 Member, Search Committee for Director of Procurement.
- 1994-96 Member, Operating Room Committee.
- 1995-97 Member, Operating Room Multidisciplinary Committee

Professional Societies:

- 1982- Fellow, Massachusetts Medical Society
- 1985-93 Member, American Medical Association
- 1986- Member, South Carolina Medical Association
- 1986- Member, Charleston County Medical Society
- 1986- Member, Society For Biomaterials
- 1986-91 Member, Association of V.A. Orthopaedic Surgeons
- 1986- Fellow, Royal College of Physicians and Surgeons of Canada, FRCS(C)
- 1987- Member, Southern Orthopaedic Association
- 1987- Member, Southern Medical Association
- 1987- Clinical Member, American College of Rheumatology
- 1988- Member, Orthopaedic Research Society
- 1988- Member, Canadian Orthopaedic Association
- 1988- Fellow, South Carolina Orthopaedic Association
- 1989- Fellow, American College of Surgeons
- 1990- Fellow, American Academy of Orthopaedic Surgeons

- 1990-94 Associate Member, American Shoulder and Elbow Surgeons
- 1991- Active Member, Eastern Orthopaedic Association
- 1991- Member, European Rheumatoid Arthritis Surgical Society
- 1992- Member, Association of Bone and Joint Surgeons
- 1993- Member, European Society for Surgery of the Shoulder and Elbow
- 1994- Active Member, American Shoulder and Elbow Surgeons
- 1998- Member, American Orthopaedic Association
- 1998- Member, Academic Orthopaedic Society
- 2002- Member, Arthroscopy Association of North America

Grants:

1. ---and Friedman, R.J.: Immunoregulation By Natural Killer Like Cells In Rheumatoid Arthritis. 1987.
2. Friedman, R.J.: Effects of Growth-Promoting Factors on Bone Healing. 1988.
3. Friedman, R.J.: Comparison of RD Heparin vs. Warfarin For the Prevention of Deep Vein Thrombosis Following Total Joint Replacement. 1989.
4. Friedman, R.J.: Hydroxyapatite Coated Titanium vs. Chrome Cobalt Implants. 1989.
5. Friedman, R.J.: An In-Vivo Evaluation of Plasma-Sprayed Cobalt- Chromium on Cobalt-Chromium Alloy and Arc Deposited CP Titanium on Titanium Alloy Roughened Surface Metaphyseal Plugs in the Rabbit Model: A Characterization Study. 1991.
6. Friedman, R.J.: Growth Factors and Healing of Rat Tibia Fractures. 1992.
7. Friedman, R.J., Latour R.A., Black, J. et al: Fiber Reinforced Polymer Femoral Components for Hip Arthroplasty. Veterans Administration Rehabilitation Research and Development, 1992.
8. Friedman, R.J.: Bioabsorbable Screw Fixation in the Dog Femur. 1992.
9. Friedman, R.J.: Effects of Serum Proteins on Bacterial Adhesion and Biofilm Formation to Orthopaedic Biomaterials. 1992.
10. Friedman, R.J.: Growth Factors and Porous Ingrowth in the Rabbit Femur. 1992.

11. Friedman, R.J.: Healing of a Segmental Defect Using Bone Growth Factors in the Rabbit Radius. 1993.
12. Friedman, R.J.: An In-Vivo Evaluation of Textured Surface Finishes and Bone Ingrowth into Titanium Metaphyseal Plugs in the Rabbit Femur. 1993.
13. Friedman, R.J.: Double Blind Dose Ranging Comparison of the Safety and Efficacy of Subcutaneous Normiflo versus Warfarin for the Prevention of Deep Vein Thrombosis in Patients Undergoing Knee Replacement Surgery. 1993.
14. Friedman, R.J.: Regulation of Biomaterial Surfaces to Prevent Prosthetic Infection. 1993.
15. Friedman, R.J.: Randomized Comparison of Lovenox vs Coumadin Following Hip Replacement. 1994.
16. Friedman, R.J.: An In-Vivo Evaluation of Two Hydroxylapatite Surfaces on Ti Alloy Using Metaphyseal Plugs in the Rabbit Femur: A Characterization Study. 1994.
17. Friedman, R.J.: Implant Fixation and Bone Ingrowth in Inflammatory Arthritis. 1994.
18. Friedman, R.J.: Safety and Efficacy of Epoetin Alfa in Subjects Undergoing Major Orthopaedic Surgery. 1994.
19. --and Friedman, R.J.: Autogenic Chondrocyte-Seeded and Growth Factor Impregnated Composite Graft. 1994.
20. Friedman, R.J.: In Vitro Study of Bone Apposition to Orthopaedic Biomaterials. 1995.
21. Friedman, R.J.: Clinical Trial Comparing the Efficacy and Safety of Prolonged Outpatient Enoxaparin and Placebo in Prevention of DVT in Hip and Knee Replacement. 1995.
22. Friedman, R.J.: Efficacy and Safety of Epoetin Alpha Administered Perioperatively versus Autologous Predeposit to Reduce the Risk of Allogenic Transfusion in Subjects Undergoing Major, Elective, Orthopaedic Surgery. 1996.
23. Friedman, R.J.: Evaluation Of Bone Ingrowth To Three Implant Surfaces In A Rabbit Model, 1996.
24. Friedman, R.J.: Double Blind Comparison Of Efficacy And Safety Of Extended Outpatient Treatment With Subcutaneous Normiflo Versus Placebo For The Prevention Of Venous Thromboembolism In Patients After Hip Or Knee Replacement Surgery. 1997.

25. Friedman, R.J.: A Single-Blind, Randomised, Parallel-Group, Multicentre Study To Assess The Safety And Efficacy Of Hemaseel HMN As An Adjunct To Haemostasis In Total Knee Replacement Surgery. 1997.
26. Friedman, R.J.: A Multicenter, Randomized, Parallel, Double-Blind, Dose Ranging Study of Subcutaneous SR 90107A/ORG 31540 with an Assessor-Blind, Comparative Control Group of Subcutaneous LMWH in the Prevention of Deep Vein Thrombosis After Elective Total Hip Replacement. 1997.
27. Friedman, R.J.: Evaluation of Bone Ingrowth Into Two Implant Surfaces in A Canine Transcortical Plug Model. 1997.
28. Friedman, R.J.: Evaluation of Bone Ingrowth Into Two Implant Surfaces in a Rabbit Model. 1997.
29. Friedman, R.J.: Ceramic on Ceramic Total Hip Arthroplasty. 1998.
30. Friedman, R.J.: Efficacy and Safety of Epoetin Alpha to Reduce the Risk of Allogenic Transfusion in Subjects Undergoing Spine Surgery. 1998.
31. Friedman, R.J.: Safety and Efficacy of Orally Administered Heparin With A Novel Carrier System in the Prevention of Major Venous Thromboembolic Events Following Elective Total Hip Arthroplasty. 1998.
32. Friedman, R.J.: Safety and Efficacy of Hameseel as an Adjunct to Haemostasis in Total Knee Replacement Surgery. 1999.
33. Friedman, R.J.: Multicenter, Randomized, Double-Blind Comparison of Subcutaneous SR90107A/ORG31540 With Enoxaparin in the Prevention of Deep Vein Thrombosis and Symptomatic Pulmonary Embolism After After Elective Hip Replacement or Revision. 1999.
34. Friedman, R.J.: Dose Finding, Safety And Pharmacokinetics Of H376/95 Given Postoperatively As Prophylaxis For Thromboembolic Complications After Total Knee Replacement. 1999.
35. Clinical Evaluation of Perioperative Hemoglobin and the Relationship to Postoperative Vigor in Patients Undergoing Total Joint Arthroplasty. 2000.
36. The Effect of Procrit on Hemoglobin and Hematocrit and the Relationship to Postoperative Function, Vigor and Strength in Patients Undergoing Primary Total Joint Arthroplasty: A Randomized, Parallel Group, Open-Label Trial. 2000.
37. A Randomized, Double-Blind, Comparative Study of H376/95 and Enoxaparin for the Prevention of Venous Thromboembolism Following Total Hip Arthroplasty. 2000.
38. A Randomized, Double-Blind, Comparative Study of H376/95 and Warfarin for the Prevention of Venous Thromboembolism Following Total Knee Arthroplasty. 2000.

39. A Randomized, Double-Blind, Multicenter Study Comparing the Safety and Efficacy of Two Dosing Regimens of Oral Emisphere SNAC/Heparin with Subcutaneous Enoxaparin Sodium for the Prevention of Venous Thromboembolic Events Following Elective Total Hip Replacement Surgery. 2000.
40. Optimization of H376/95 Compared to warfarin for the Prevention of Venous Thromboembolism Following Total Knee Arthroplasty. 2001.
41. Phase II Dose response Study of DPC 906 For the Prevention of Deep Vein Thrombosis in Knee Replacement Surgery. 2001.
42. Thromboprophylaxis With Low Molecular weight Heparin Versus Warfarin in Patients Undergoing Primary Total Knee Arthroplasty. 2001.

Major Research Interests:

- (1) Shoulder and Elbow
- (2) Bone Healing and Ingrowth
- (3) Total Joint Replacement
- (4) Biomaterials
- (5) Tissue Engineering

Teaching Experience:

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| 1985 | Organized seminars, conferences, and Grand Rounds for Department of Orthopaedic Surgery, Brigham and Women's Hospital, Boston, MA. |
| 1986–95 | Didactic sessions in Orthopaedic Surgery for Core Clerkship in Surgery, and PT/OT students. |
| 1986–96 | Lectures and organized medical student education, Department of Orthopaedic Surgery, MUSC. |
| 1987–99 | MUSC Director, Clemson University Bioengineering Student Internships, Bioengineering Alliance of South Carolina. |
| 1987-99 | Lecturer, Department of Anatomy |

1. Friedman, R.J.: Prosthetic Valve Endocarditis. *University of Toronto Med. J.*, 56:117–120, 1979.
2. Friedman, R.J.: Outcome of Fractured Hips in the Elderly. *University of Toronto Med. J.*, 56:160-165, 1979.
3. Friedman, R.J.: Current Status of Total Knee Arthroplasty. *Postgrad. Med.*, 70 (2):207–214, 1981.
4. Friedman, R.J., and Smith R.J.: Radial Nerve Laceration Twenty–Six Years After Screw Fixation of a Humeral Fracture. *J. Bone Joint Surg.* 66A:959, 1984.
5. Friedman, R.J., and Jupiter, J.B.: Vascular Injuries and Closed Extremity Fractures in Children. *Clin. Orthop.*, 188:112,1984.
6. Friedman, R.J., and Micheli, L.J.: Acquired Spondylolisthesis Following Scoliosis Surgery: A Case Report. *Clin. Orthop.*, 190: 132,
7. Friedman, R.J., and Gumley, G.J.: Crepitation Simulating Gas Gangrene. A Case Report. *J. Bone Joint Surg.*,67A:646, 1985.
8. Friedman, R.J.: Nonclostridial Gas Infections (letter of reply). *J. Bone Joint Surg.*, 67A:1449, 1985.
9. Friedman, R.J., and Cochran, T.P.: Results of Anterior Transposition for Ulnar Neuropathy at the Elbow. *Surg. Neurol.*, 25:446–450, 1986.
10. Friedman, R.J., and Wyman, E.T., Jr.: Ipsilateral Hip and Femoral Shaft Fractures. *Clin. Orthop.*, 208: 188-194, 1986.
11. Friedman, R.J., and Ewald, F.C.: Arthroplasty of the Ipsilateral Shoulder and Elbow in Patients Who Have Rheumatoid Arthritis. *J. Bone Joint Surg.*, 69A: 661-666, 1987.
12. Friedman, R.J., and Cochran, T.P.: A Clinical and Electrophysiological Investigation of Anterior Transposition for Ulnar Neuropathy at the Elbow. *Arch. Orthop. Trauma Surg.*, 106:375-380, 1987.
13. Manno, E. M., and Friedman, R. J.: Total Shoulder Replacement. *Postgrad. Med.*, 82(6):95–99, 1987.
14. Cushner, F.C., and Friedman, R.J.: Osteonecrosis of the Femoral Head. *Orthop. Rev.*, 17:29-34, 1988.
15. Friedman, R.J., and Ewald, F.C.: Ipsilateral Shoulder and Elbow Replacements (letter of reply). *J. Bone Joint Surg.*, 70A:151, 1988.
16. Friedman, R.J.: Arthroplasty of the Shoulder. *Int. Med. Spec.*, 9(3):169-172, 1988.

17. Callcott, F, Gordon, L., Schabel, S., Friedman, R.J.: In-111 WBC Imaging – False Positive In A Simple Fracture. *J. Nucl. Med.*, 29:571–572, 1988.
18. Friedman, R.J.: AOA–COA 1987 North American Travelling Fellowship. *AOA News*, 20:9–14, 1988.
19. Lee, D., and Friedman, R.J.: Nonconstrained Total Elbow Replacement. *Iowa Orthop. J.*, 8:26–29, 1988.
20. Friedman, R.J. and Gordon, L.: False Positive Indium-111 WBC Scan In A Closed Clavicle Fracture. A Case Report. *J Orthop. Trauma*, 2:151–153, 1988.
21. Cushner, F., and Friedman, R.J.: Economic Impact of Total Hip Arthroplasty. *South Med. J.*, 81:1379–1381, 1988.
22. Friedman, R.J.: Infection in Total Joint Replacement From Distal Intravenous Lines. *J. Arthroplasty*, 3:69–71, 1988.
23. Friedman, R.J., and Poss, R.: Revision Total Knee Arthroplasty In Patients With OA. *Rheum. Dis. Clin. North Am.*, 14:537–544, 1988.
24. Cushner, F., and Friedman, R.J.: Humor and the Physician. *South. Med. J.*, 82:51–52, 1989.
25. Friedman, R.J., Lee, D., and Ewald, F.C.: Nonconstrained Total Elbow Replacement: Development and Results In Patients with Functional Class IV Rheumatoid Arthritis. *J. Arthrop.*, 4:31–37, 1989.
26. Friedman, R.J., and McGinty, J.B.: Arthroscopy of Total Knee Replacements. *Surg. Rounds Orthop.*, 3 (4):50–54, 1989.
27. Friedman, R.J., Thornhill, T.S., Thomas, W.H., and Sledge, C.B.: Nonconstrained Total Shoulder Replacement In Patients Who Have Rheumatoid Arthritis and Class IV Function. *J. Bone Joint Surg.*, 71A:494–498, 1989.
28. Friedman, R.J.: Displacement of an Uncemented Femoral Component Following Dislocation of a Total Hip Replacement. *J. Bone Joint Surg.*, 71A:1406–1407, 1989.
29. Moore, R.E., and Friedman, R.J.: Current Concepts in Pathophysiology and Diagnosis of Compartment Syndromes. *J. Emerg. Med.*, 7:657–662, 1989.
30. Thomas, C.B., Jr., and Friedman, R.J.: Ipsilateral Sternoclavicular Dislocation and Clavicle Fracture. *J. Orthop. Trauma*, 3:355–357, 1989.
31. Jervey, C., and Friedman, R.J.: Electrical Stimulation – Current Concepts and Indications. *Contemp. Orthop.*, 20:61–65, 1990.

32. Johnson, D.R., Friedman, R.J., McGinty, J.B., Mason, J.L., and St. Mary, E.W.: Role of Arthroscopy in the Problematic Total Knee Arthroplasty. *Arthroscopy*, 6:30–32, 1990.
33. Friedman, R.J.: Shoulder Surgery. *Curr. Opin. Rheum.*, 2:163–71, 1990.
34. Friedman, R.J., Hirst, P., Poss, R., Kelley, K.M., and Sledge, C.B: Results of Revision Total Knee Arthroplasty Performed For Aseptic Loosening. *Clin. Orthop.*, 255:235–241, 1990.
35. Friedman, R.J.: Displacement of an Uncemented Femoral Component (letter of reply). *J. Bone Joint Surg.*, 72–A:791, 1990.
36. Friedman, R.J., Graham, J. Friedrich, L.V., White, R.L., and Brundage, D. M.: Antibiotic Prophylaxis and Tourniquet Inflation in Total Knee Replacement. *Clin. Orthop.*, 260:17–23, 1990.
37. Friedman, R.J.: Biomechanics of the Shoulder Following Total Shoulder Replacement. In Post, M., Morrey B.F., and Hawkins R.J. (eds.): *Surgery of the Shoulder*, Chicago, C.V. Mosby, 1990, pp.263-266.
38. Friedrich, L.V., White, R.L., Brundage, D.M., Kays, M.B. and Friedman, R.J.: Effect of Tourniquet Inflation on Cefazolin Tissue Penetration During Total Knee Arthroplasty. *Pharmacotherapy*, 10:373-377, 1990.
39. Cushner, F., and Friedman, R.J.: Factors Affecting Blood Loss and Transfusion Rate Following Total Knee Arthroplasty. *Clin. Orthop.*, 269: 98-101, 1991.
40. Mitchell, D., Friedman, R.J., Baker, J.D. III, Cooke, J.E., Darcy, M.D., and Miller. M.C. III: Prevention of Thromboembolic Disease Following Total Knee Arthroplasty: Epidural Versus General Anaesthesia. *Clin. Orthop.*, 269: 109-112, 1991.
41. Friedman, R. J.: Advances in Biomaterials and Factors Affecting Implant Fixation. In Eilert, RE (ed): *Instructional Course Lectures*, Park Ridge, American Academy of Orthopaedic Surgeons, 1992, vol. 41, pp. 127-136.
42. Todd, J.L., and Friedman, R.J.: Prevention of Deep Sepsis in Total Knee Arthroplasty. *Comp. Orthop.*, 4:211-5, 1992.
43. Acurio, M.T., and Friedman, R.J.: Hip Arthroplasty in Patients with Sickle Cell Hemoglobinopathy. *J. Bone Joint Surg.*, 74B:367-71, 1992.
44. McPherson, E.J., and Friedman, R.J.: Arterial Thromboembolism Associated With Total Knee Replacements. *Am. J. Knee Surg.*, 5:94-98, 1992.
45. Friedman, R.J., Hawthorne, K. B., and Genez, B.: Use of Computerized Tomography in the Measurement of Glenoid Version. *J. Bone Joint Surg.*, 74-A:1032-37, 1992.

46. Friedman, R.J.: Scientific and Ethical Considerations in Human Clinical Experimentation. *South. Med. J.*, 85:917-22, 1992.
47. Tate, D.E., and Friedman, R.J.: Blood Conservation in Spine Surgery: Review of Current Technique. *Spine*, 17:1450-56, 1992.
48. Friedman, R.J., LaBerge, M., Dooley, R.L., and O'Hara, A.L.: Finite Element Modeling of the Glenoid Component: Effect of Design Parameters on Stress Distribution. *J. Shoulder Elbow Surg.*, 1:261-270, 1992.
49. Friedman, R.J.: Glenohumeral Translation Following Total Shoulder Arthroplasty. *J. Shoulder Elbow Surg.*, 1:312-316, 1992.
50. Davidson, B.L., Elliot, C.G., Lensing, A.W.A., for the RD Heparin Arthroplasty Group: Low Accuracy of Color Doppler Ultrasound in the Detection of Proximal Leg Vein Thrombosis in Asymptomatic High-Risk Patients. *Ann. Int. Med.*, 117:735-738, 1992.
51. Carlson, B.A., and Friedman, R.J.: Journal Review of "Operative Techniques in Orthopaedics". *J. Am. Med. Assoc.*, 269:1695, 1993.
52. Friedman, R. J., Black, J., Galante, J.O., Jacobs, J.J., and Skinner, H.: Current Concepts in Orthopaedic Biomaterials and Implant Fixation. *J. Bone Joint Surg.*, 75-A:1086-1109, 1993.
53. Bonutti, P.M., Norfray, J.F., Friedman, R.J., and Genez, B.M.: Kinematic MR Imaging of the Shoulder. *J. Comput. Assist. Tomo.*, 17:666-669, 1993.
54. Friedman, R.J., and Stuart, G.W.: Arthroplasty of the Shoulder and Elbow. *Curr. Opin. Orthop.*, 4:65-70, 1993.
55. Friedman, R.J.: Glenohumeral Capsulorrhaphy. In Matsen, F.E., Fu, F., and Hawkins, R.J. (eds): *The Shoulder: A Balance Of Mobility and Stability*. Rosemont, IL, American Academy of Orthopaedic Surgeons, 1993, pg. 445-458.
56. McPherson, E.J., Friedman, R.J., and Dorr, L.D.: The APR-I Experience with Hydroxyapatite. In Geesink, R.G.T. and Manley, M.T. (eds): *Hydroxylapatite Coatings in Orthopaedic Surgery*. New York, Raven Press, 1993, pg. 249-262.
57. McPherson, E.J., and Friedman, R.J.: Preoperative Considerations in Shoulder Arthroplasty. *Techniques Orthop.*, 8:143-150, 1993.
58. Friedman, R.J.: Biomechanics and Design of Shoulder Arthroplasties. In Friedman, R.J. (ed): *Arthroplasty of the Shoulder*. New York, Thieme Medical Publishers, 1994, pp. 27-40.
59. Friedman, R.J.: Total Shoulder Arthroplasty in Rheumatoid Arthritis. In Friedman, R.J. (ed): *Arthroplasty of the Shoulder*. New York, Thieme Medical Publishers, 1994, pp. 158-169.

60. Friedman, R. J., Black, J., Galante, J.O., Jacobs, J.J., and Skinner, H.: Current Concepts in Orthopaedic Biomaterials and Implant Fixation. In Bucholz, R.W. (ed): Instructional Course Lectures, Park Ridge, American Academy of Orthopaedic Surgeons, 1994, vol. 43, pp. 233-255.
61. An, Y., Friedman, R.J., Parent, T., Draughn, R.A.: Production of a Standard Closed Fracture in the Rat Tibia. *J. Orthop. Trauma*, 8:111-115, 1994.
62. Dorman, H.B., Conroy, J.M., Duc, T.A., Haynes, G.R., and Friedman, R.J.: Postoperative Analgesia Following Major Shoulder Surgery With Interscalene Brachial Plexus Blockade: Etidocaine Versus Bupivacaine. *South. Med. J.*, 87:502-505, 1994.
63. Brooks, W.C., and Friedman, R.J.: Anaesthesia in Joint Replacement Surgery. In Conroy, J. M., and Dorman, B.H. (eds): *Anaesthesia For Orthopaedic Surgery*. New York, Raven Press, 1994, pp. 183-196.
64. Friedman, R. J., Davidson, B. L., Heit, J., Kessler, C.M., Elliot, C.G., and the RD Heparin Arthroplasty Group: RD Heparin Versus Warfarin in the Prevention of Venous Thromboembolic Disease Following Total Hip or Knee Arthroplasty. *J. Bone Joint Surg.*, 76:1174-1185, 1994.
65. McPherson, E.J., Cushner, F.D., Schiff, C.F. and Friedman, R.J.: Natural History of Uncorrected Flexion Contractures Following Total Knee Arthroplasty. *J. Arthroplasty*, 9:499-502, 1994.
66. Knetsche, R.P., and Friedman, R.J.: Cement versus Non-Cement: Humerus. *Oper. Tech. Orthop. Surg.*, 4:210-217, 1994.
67. Meyer, M.R., Friedman, R.J., Schutte, H.D., and Latour, R.A.: Long-Term Durability of the Interface in FRP Composites After Exposure to Simulated Physiologic Saline Environments. *J. Biomed. Mater. Res.*, 10:1221-1231, 1994.
68. Friedman, R.J, Mackay, G.A: Degeneration Of The Shoulder Associated With Rotator Cuff Disease. *Curr. Opin. Orthop.*, 5:4-9, 1994.
69. Richards, R.R., An, K.N., Bigliani, L.U., Friedman, R.J., et. al.: A Standardized Method for the Assessment of Shoulder Function. *J. Shoulder Elbow Surg.*, 3:347-352, 1994.
70. Friedman, R. J., Black, J., Galante, J.O., Jacobs, J.J., and Skinner, H.: Orthopaedic Biomaterials and Implant Fixation (letter of reply). *J. Bone Joint Surg.*, 76-A:1897-1898, 1994.
71. Usher, B.W., and Friedman, R.J.: Steroid-Induced Osteonecrosis of the Humeral Head. *Orthopaedics*, 18:47-51, 1995.
72. Friedman, R.J.: Bioactive Ceramic Coatings. In Galante, J.O. (ed): *Total Hip Revision Surgery*. Raven Press, New York, 1995, pp. 179-188.

73. Merrill, K.D., Knetsche, R., and Friedman, R.J.: Sports Medicine. In Skinner, H.B. (ed): Current Orthopaedic Diagnosis and Treatment. Norwalk, Appleton & Lange, 1995, pp. 116-164.
74. McDowell, S.G., An, Y.H., Draughn, R.A., Friedman, R.J.: Application Of A Fluorescent Redox Dye For Enumeration Of Metabolically Active Bacteria On Albumin Coated Titanium Surfaces. Letters Appl. Micro., 21:1-4, 1995.
75. Bromberg, J.S., Baliga, P., Cofer, J.B., Rajagopalan, P.R., and Friedman, R.J.: Stress Steroids Are Not Required For Patients Receiving A Renal Allograft and Undergoing Operation. J. Am. Coll. Surg., 180:532-6, 1995.
76. Friedman, R.J., Blocker, E.R, and Morrow, D.L.: Glenohumeral Instability. J. South. Orthop. Assoc., 4:182-199, 1995.
77. Friedman, R.J., Bauer, T.W., Garg, K., Jiang, M., An, Y.H., and Draughn, R.A.: Histological and Mechanical Comparison of Hydroxyapatite Coated Cobalt-Chrome and Titanium Implants in the Rabbit Femur. J. Appl. Biomater., 6:231-35, 1995
78. Friedman, R.J.: Biomechanics of Total Shoulder Arthroplasty: A Pre and Postoperative Analysis. Sem. Arthroplasty, 6:222-32, 1995.
79. Friedman, R.J., and Knetsche, R.P.: Biomechanics of the Rotator Cuff. In Burkhead, W.Z. (ed.): Rotator Cuff Disorders. Williams and Wilkins, Media, PA, 1995, pp. 45-56.
80. Friedman, R.J., Schiff, C.F., and Bromberg, J.S.: Use Of Supplemental Steroids In Patients Having Orthopaedic Operations. J. Bone Joint Surg., 77-A:1801-1806, 1995.
81. An, Y.H., Friedman, R.J., Draughn, R.A., et al: Rapid Quantification of Staphylococci Adhered to Titanium Surfaces Using Image Analyzed Epifluorescence Microscopy. J. Microbiol. Meth., 24:29-40, 1995.
82. Zimlich, R.H., Fulbright, B.M., Friedman, R.J.: Current Status Of Anticoagulation Therapy In Total Joint Replacement. J. Am Acad. Orthop. Surg., 4:54-62, 1996.
83. Cushner, M., and Friedman, R.J.: Femoral Component Selection In Total Hip Arthroplasty. Orthop Special Edition, 2:47-49, 1996.
84. Zhang, G, Latour, R.A., Kennedy, J.M., Schutte, H.D., and Friedman, R.J.: Long term compressive property durability of CF/PEEK composite in physiological saline. Biomaterials, 17:781-789, 1996.
85. Wingate, J., Schiff, C.F., Friedman, R.J.: Osteonecrosis of the Humeral Head in Sickle Cell Disease. J South. Orthop. Assoc., 5:101-107, 1996.

86. Friedman, R.J., An Y., Ming J., Draughn R.A., Kessler L., and Bauer T.W.: Influence Of Biomaterial Surface Texture On Bone Ingrowth In The Rabbit Femur. *J. Orthop. Res.*, 14:455-464, 1996.
87. An, Y.H., and Friedman, R.J.: Prevention of Sepsis in Total Joint Arthroplasty. *J. Hosp. Infect.*, 33:93-108, 1996.
88. Goldberg, M.A., McCutchen, J.W., Jove, M., Di Cesare, P., Friedman, R.J., et. al.: A Safety and Efficacy Comparison Study of Two Dosing Regimens of Eprotin alfa in Patients Undergoing Major Orthopaedic Surgery. *Am. J. Orthop.*, 25:544-552, 1996.
89. An, Y., Friedman, R. J., Draughn, R.A., Smith, E.A., and John, J.F.: Bacterial Adhesion and Prosthetic Infection. In Wise, D.L. (ed.): *Human Biomaterials Applications*. Humana Press, Inc., Totowa, New Jersey, pp. 19-58, 1996.
90. Soballe, K., and Friedman, R. J.: Calcium Hydroxyapatite and Total Joint Arthroplasty. In Wise, D.L. (ed.): *Human Biomaterials Applications*. Humana Press, Inc., Totowa, New Jersey, pp. 137-168, 1996.
91. Burgess, D.S., White, R.L., Friedman, R.J., and Bossa, J.A.: Impact of Different Methodologies on the Estimation of Antibiotic Tissue Penetration: Determination of Cefmetazole Penetration into Bone and Soft Tissue. *J. Infec. Dis. Pharmacotherapy*, 2:15-28, 1996.
92. James, W.C., and Friedman, R.J.: Total Shoulder Arthroplasty. *J South Carolina Med. Assn.*, 92:426-431, 1996
93. An Y.H., Stuart, G.W., McDowell, S.J., McDaniel, S.E., Kang, Q., and Friedman, R.J.: Prevention of Bacterial Adherence to Implant Surfaces With a Cross-Linked Albumin Coating In Vitro. *J. Orthop. Res.*, 14:846-849, 1996.
94. An, Y.H., Kang, Q., Friedman, R.J.: Mechanical Symmetry of Rabbit Long Bones Studied by Bending and Indentation Testing. *Am. J. Vet. Res.*, 57:1786-1789, 1996.
95. AAOS Committee on CPT Coding: Complete Global Service Data for Orthopaedic Surgery. American Academy of Orthopaedic Surgeons, Rosemont, IL, 1996.
96. Friedman, R.J., and Ridgeway, S.: Complications of Prostheses for Proximal Humerus Fractures. In Flatow, E.L., and Ulrich, C. (eds.): *Musculoskeletal Trauma: Humerus*. Butterworth Heinemann, London, 71-82, 1996.
97. Bradley, J., Chao, E.Y., and Friedman, R.J.: Biomechanics and Biomaterials. In Dee, R. (ed.): *Principles of Orthopaedic Practice*, 2nd ed.. McGraw-Hill Inc., New York, 1997, pp. 151-178.
98. Ardeparin Arthroplasty Group: Efficacy And Safety Of Low Molecular Weight Heparin Compared To Warfarin For The Prevention Of Venous Thromboembolism After Total Knee Replacement Surgery. *Thromb Haemostas*, 77:32-38, 1997.

99. Brothers, T.E., Frank, C.E., Frank, B., Robison, J.G., Elliot, B.M., Schutte, H.D., and Friedman, R.J.: Is Duplex Venous Surveillance Worthwhile After Arthroplasty? *J Surg. Res.*, 67:72-78, 1997.
100. Friedman, R.J.: Biomechanics of the Rotator Cuff. In Gazielly, D.F., Gleyze, P., and Thomas, T. (Eds.): *The Cuff*. Elsevier, New York, 1997, pp. 34-37.
101. Friedman, R.J.: Functional Assesment of the Shoulder. In Gazielly, D.F., Gleyze, P., and Thomas, T. (Eds.): *The Cuff*. Elsevier, New York, 1997, pp. 45-48.
102. Friedman, R.J.: Shoulder Stiffness. In Gazielly, D.F., Gleyze, P., and Thomas, T. (Eds.): *The Cuff*. Elsevier, New York, 1997, pp. 128.
103. Friedman, R.J.: Prospective Analysis of Total Shoulder Biomechanics. *Am. J. Orthop.*, 26:265-270, 1997.
104. McPherson, E.J., Friedman, R.J., An, Y.H., Chokesi, R, and Dooley, R.L.: Anthropometric Study of Normal Glenohumeral Relationships. *J. Shoulder Elbow Surg.*, 6:105-112, 1997.
105. An, Y., Zhang, J., Kang, Q., and Friedman, R.J.: Mechanical Properties of Rat Epiphyseal Cancellous Bones Studied by Indentation Testing. *J. Mater. Sci.*, 8:493-495, 1997.
106. An, Y.H., Bradley, J., Powers, D.L., and Friedman, R.J.: Preventing Prosthetic Infection With A Cross-Linked Albumin Coating In A Rabbit Model. *J. Bone Joint Surg.*, 79B:816-819, 1997.
107. Kang, Q., An, Y.H., and Friedman, R.J.: Effects of Multiple Freezing-Thawing Cycles on the Ultimate Indentation Load and Stiffness of Bovine Cancellous Bone. *Am. J. Vet. Res.*, 58:1171-1173, 1997.
108. An, Y.H., and Friedman, R.J.: Laboratory Methods for Studies of Bacterial Adhesion. *J. Microbiol. Methods.*, 30:141-152, 1997.
109. Cushner, M.A., and Friedman, R.J.: Osteonecrosis of the Humeral Head. *J. Am. Acad. Orthop. Surg.*, 5:339-346, 1997.
110. McFee, W., Root, H., Friedman, R, and Zolman, E.: Stingray Spine in the Scapula of a Bottlenose Dolphin. *J Wildlife Dis.*, 33:921-924, 1997.
111. Feldman, D.R., Schabel, S.I., Friedman, R.J., and Young, J.W.: Translational Injuries in Posterior Elbow Dislocation. *Skeletal. Radiol.*, 26:134-36, 1997.
112. Jablon, E., and Friedman, R.J.: Rheumatoid Arthritis of the Elbow: Pathology, Indications for Surgery and Results. *Sem. Arthropasty*, 9:32-46, 1998.

113. LaBreck, J.C., An, Y.H., and Friedman, R.J.: Chronic Use of Propofol for Multiple Minor Procedures in the Rabbit. *Contemporary Topics in Lab. Animal Sci.*, 37:84-85, 1998.
114. Friedman, R.J., Bonutti, P.M., and Genez, B. M.: Cine Magnetic Resonance Imaging of the Subcoracoid Region. *Orthopaedics*, 21:545-548, 1998.
115. Kang, Q., An, Y.H., and Friedman, R.J.: Mechanical Properties and Bone Densities of Canine Trabecular Bone. *J. Mater. Sci.*, 9:263-267, 1998.
116. Friedman, R.J.: Humeral Technique in Total Shoulder Arthroplasty. In Friedman, R.J. (ed): *Total Shoulder Arthroplasty*. *Orthop. Clin. North Am.* 29:393-402, 1998.
117. Hartsock, L.A., Estes, W.J., Murray, C.A., and Friedman, R.J.: Shoulder Hemiarthroplasty For Proximal Humerus Fractures. In Friedman, R.J. (ed): *Total Shoulder Arthroplasty*. *Orthop. Clin. North Am.* 29:467-475, 1998.
118. Brown, D., and Friedman, R.J.: Postoperative Rehabilitation Following Total Shoulder Arthroplasty. In Friedman, R.J. (ed): *Total Shoulder Arthroplasty*. *Orthop. Clin. North Am.* 29:535-547, 1998.
119. An, Y.H., and Friedman, R.J.: Mechanisms of Bacterial Adhesion to Biomaterial Surfaces. *J. Biomed. Mater. Res.* 43:338-348, 1998.
120. An, Y.H., and Friedman, R.J.: Animal Models of Orthopaedic Implant Infections. *J. Invest. Surg.*, 11:139-146, 1998.
121. Kang, Q., An, Y.H., Butehorn, H.F., and Friedman, R.J.: Morphological And Mechanical Study On The Effects Of Experimentally Induced Inflammatory Knee Arthritis In Rabbit Long Bones. *J. Mater. Sci.*, 9:463-473, 1998.
122. An, Y., and Friedman, R.J.: Animal Selection in Orthopaedic Research. In An, Y., and Friedman, R.J. (eds): *Animal Models in Orthopaedic Research*, CRC Press, Boca Raton, FL, 1998.
123. An, Y., Friedman, R.J., and Draughn, R.A.: Animal Models of Fracture or Osteotomy. In An, Y., and Friedman, R.J. (eds): *Animal Models in Orthopaedic Research*, CRC Press, Boca Raton, FL, 1998.
124. An, Y., and Friedman, R.J.: Animal Models for Testing Bioabsorbable Materials. In An, Y., and Friedman, R.J. (eds): *Animal Models in Orthopaedic Research*, CRC Press, Boca Raton, FL, 1998.
125. An, Y., and Friedman, R.J.: Animal Models of Bone Defect Repair. In An, Y., and Friedman, R.J. (eds): *Animal Models in Orthopaedic Research*, CRC Press, Boca Raton, FL, 1998.

126. An, Y., and Friedman, R.J.: Animal Models of Articular Cartilage Defect. In An, Y., and Friedman, R.J. (eds): Animal Models in Orthopaedic Research, CRC Press, Boca Raton, FL, 1998.
127. An, Y., and Friedman, R.J.: Animal Models of Orthopaedic Prosthetic Infection. In An, Y., and Friedman, R.J. (eds): Animal Models in Orthopaedic Research, CRC Press, Boca Raton, FL, 1998.
128. Friedman, R.J.: Instability of the Sternoclavicular Joint. *Der Orthopade* 27:567-570, 1998.
129. An, Y.H., Friedman, R.J., Powers, D.L., Draughn, R.A., and Latour, R.A.: Fixation of Osteotomies Using Bioabsorbable Screws in the Canine Femur. *Clin. Orthop.*, 355:300-311, 1998.
130. An, Y.H., Friedman, R.J., Jiang, M., LaBreck, J.C., Draughn, R.A., Buterhorn, H.F., and Bauer, T.W.: Bone Ingrowth To Implant Surfaces in an Inflammatory Arthritis Model. *J. Orthop. Res.*, 16:576-584, 1998.
131. An, Y.H., Friedman, R.J., McDowell, S.J., et al: Inhibiting Bacterial Adhesion and Preventing Prosthetic Infection With Cross-Linked Albumin Coating. *MUSC Orthop. J.*, 1:15-24, 1998.
132. An, Y.H., Mironov, V.A., Gutowski, A., Markwald, R.R., and Friedman, R.J.: Propagation of Chondrocytes Using A Thermosensitive Gel Culture. *Tissue Engineer.*, 4:490, 1998.
133. Filler, B.C., Haralson, R.H., Pedowitz, W.J., et.al.: AAOS Guide to CPT Coding. American Academy of Orthopaedic Surgery, Rosemont, IL, 1998.
134. Iobst, C.A., and Friedman, R.J.: Role Of Low Molecular weight Heparin in Total Knee Arthroplasty. *Am. J. Knee Surg.*, 12:55-60, 1999.
135. Filler, B.C., Friedman, M.M., Friedman, R.J., et.al.: Orthopaedic CODEX. American Academy of Orthopaedic Surgery, Rosemont, IL, 1999.
136. Filler, B.C., Haralson, R.H., Pedowitz, W.J., et.al.: Complete Global Service Data for Orthopaedic Surgery. American Academy of Orthopaedic Surgery, Rosemont, IL, 1999.
137. Filler, B.C., Haralson, R.H., Pedowitz, W.J., et.al.: CPT/ICD-9 Cross-Reference for Orthopaedic Surgery. American Academy of Orthopaedic Surgery, Rosemont, IL, 1999.
138. Friedman, R.J.: DVT Prophylaxis After Total Joint Arthroplasty. *Medscape Orthop. Sports Med.*, 2:3036, 1999.
139. Friedman, R.J.: Use of Animal Models in Orthopaedic Research. In Hollinger, J.O. (ed.): Portland Bone Symposium, Oregon Health Sciences University, Portland, OR, 1999.

140. King, G.J., Richards, R.R., Zuckerman, J.D., et al: A Standardized Method For Assessment of Elbow Function. *J. Shoulder Elbow Surg.*, 8:351-354, 1999.
141. Rogers-Fox, J.M., Powers, D.L., Brosnan, D.A., et al: Hydroxyapatite Composites Designed For Antibiotic Drug Delivery and Bone Reconstruction: A Caprine Model. *J. Invest. Surg.*, 12:263-275, 1999.
142. Bell, T.D., An, Y.H., and Friedman, R.J.: Repair of Cartilage Defects Using Biomaterials and Tissue Engineering Methods. In Wise, D.L., et al (eds.): *Biomaterials and Bioengineering Handbook*, Marcel Dekker, New York, 2000.
143. Bensen, C.V., An, Y.H., and Friedman, R.J.: Preclinical Evaluation of Bone Substitutes. In Wise, D.L., et al (eds.): *Biomaterials and Bioengineering Handbook*, Marcel Dekker, New York, 2000.
144. McKoy, B.E., An, Y.H., and Friedman, R.J.: Factors Affecting the Strength of the Bone-Implant Interface. In An, Y.H., and Draught, R.A. (eds.): *Mechanical Testing of Bone and the Bone-Implant Interface*, CRC Press, Boca Raton, FL, 2000.
145. Friedman, R.J., and Dunsworth, G.A.: Cost Analysis of Extended Prophylaxis with Enoxaparin After Hip Arthroplasty. *Clin. Orthop.*, 370:171-182, 2000.
146. An, Y.H., Blair, B.K., Martin, K.L., and Friedman, R.J.: Macromolecule Surface Coating For Preventing Bacterial Adhesion. In An, Y.H., and Friedman, R.J. (eds.): *Handbook of Bacterial Adhesion*, Humana Press, Totowa, NJ, 2000.
147. McMahon, P.J., Merrill, K.D., Friedman, R.J., et al: Sports Medicine. In Skinner, H.B. (ed.): *Current Diagnosis and Treatment in Orthopaedics*, Lange Medical Books, New York, New York, 2000.
148. An, Y.H., and Friedman, R.J.: Multidirectional Instability of the Glenohumeral Joint. In Friedman, R.J. (ed): *Conservative Management of Shoulder Injuries*. *Orthop. Clinics North Am.*, 31:275-283, 2000.
149. Filler, B.C., Friedman, M.M., Friedman, R.J., et.al.: *Orthopaedic CODEX*, 3rd ed. American Academy of Orthopaedic Surgery, Rosemont, IL, 2000.
150. Filler, B.C., Haralson, R.H., Pedowitz, W.J., et.al.: *Complete Global Service Data for Orthopaedic Surgery*. American Academy of Orthopaedic Surgery, Rosemont, IL, 2000.
151. Filler, B.C., Haralson, R.H., Pedowitz, W.J., et.al.: *CPT/ICD-9 Cross-Reference for Orthopaedic Surgery*. American Academy of Orthopaedic Surgery, Rosemont, IL, 2000.
152. Walton, J.S., Folk, J.W., Friedman, R.J., and Dorman, B.H.: Complete Brachial Plexus Palsy After Interscalene Block for Total Shoulder Arthroplasty. *Reg. Anesth. Pain Med.*, 25:318-21, 2000.

153. An, Y.H, Bell, T.D., Bensen, C.V., McKoy, B.E., Craig, M.L., and Friedman, R.J.: An In Vivo Study of Bone Ingrowth to a K-Coated Titanium Surface. *MUSC Orthop. J.*, 3:16-17, 2000.
154. Webb, D., An, Y.H., Gutowski, A., Mironov, V.A., and Friedman, R.J.: Propagation of Chondrocytes Using a Thermosensitive Polymer Gel Culture. *MUSC Orthop. J.*, 3:18-21, 2000.
155. Woolf, S.K., An, Y.H., and Friedman, R.J.: Review of Methods for Evaluating Orthopaedic Bioabsorbable Devices In Vivo. *MUSC Orthop. J.*, 3:27-36, 2000.
156. Heit, J.A., Elliott, C.G., Trowbridge, A.A., et.al.: Ardeparin Sodium for Extended Out-of-Hospital Prophylaxis Against Venous Thromboembolism After Total Hip or Knee Replacement. *Ann. Int. Med.*, 132:853-861, 2000.
157. An, Y.H., Woolf, S.K., and Friedman, R.J.: Preclinical In Vivo Evaluation of Orthopaedic Bioabsorbable Devices. *Biomaterials* 21:2635-52, 2000.
158. Turpie, A.G.G., Gallus, A.S., Hoek, J.A., et. al.: A Synthetic Pentasaccharide For The Prevention of Deep-Vein Thrombosis After Total Hip Arthroplasty. *N. Engl. J. Med.*, 344:619-625, 2001.
159. Comp, P.C., Spiro, T., Friedman, R.J., et al.: Prolonged Enoxaparin Therapy to Prevent Venous Thromboembolism After Primary Hip or Knee Replacement. *J. Bone Joint Surg.*, 83-A:336-345, 2001.
160. Filler, B.C., Haralson, R.H., Pedowitz, W.J., et.al.: Complete Global Service Data for Orthopaedic Surgery. American Academy of Orthopaedic Surgery, Rosemont, IL, 2001.
161. Filler, B.C., Friedman, M.M., Friedman, R.J., et.al.: Orthopaedic CODEX, 4rd ed. American Academy of Orthopaedic Surgery, Rosemont, IL, 2001.
162. An, Y.H., Webb, D., Gutowski, A., Mironov, V.A., and Friedman, R.J.: Regaining chondrocyte phenotype in thermosensitive gel culture. *Anat. Rec.*, 263:336-41, 2001.
163. An, Y.H., McGlohorn, J.B., Bednarski, B.K., and Friedman, R.J.: An Open Channel Flow Chamber For Studying Bacterial Biofilm Formation on Biomaterial Surfaces. *Methods Enzymol.*, 337:79-86, 2001.
164. Heit JA, Colwell CW, Francis CW, et al. Comparison of the oral direct thrombin inhibitor ximelagatran with enoxaparin as prophylaxis against venous thromboembolism after total knee replacement. *Arch Int Med* 161:2215-2221, 2001.
165. Filler, B.C., Friedman, M.M., Friedman, R.J., et.al.: Orthopaedic CODEX, 5rd ed. American Academy of Orthopaedic Surgery, Rosemont, IL, 2002.
166. Friedman, R.J.: Use of Antithrombotic Agents for VTE Prophylaxis in Patients Undergoing Orthopaedic Surgery. University of Minnesota, Minneapolis, MN, 2002.

167. Filler, B.C., Haralson, R.H., Pedowitz, W.J., et.al.: Complete Global Service Data for Orthopaedic Surgery. American Academy of Orthopaedic Surgery, Rosemont, IL, 2002.
168. Filler, B.C., Haralson, R.H., Pedowitz, W.J., et.al.: CPT/ICD-9 Cross-Reference for Orthopaedic Surgery. American Academy of Orthopaedic Surgery, Rosemont, IL, 2002.
169. Friedman, R.J.: Deep veous Thrombosis and Total Knee Arthroplasty. *Sem. Arthro.*, 13:40-49, 2002.
170. Friedman, R.J.: The Silent Killer. *Adv. Rehab.*, 11:57-58, 2002.
171. Bednarski, B.K., An, Y.H., and Friedman, R.J.: Bacterial Biofilm Formation on Orthopaedic Biomaterial Surfaces in a Simple Flow Chamber. *J. Biomed. Mater. Res.*, Submitted, 2002.
172. An, Y.H., Kang, Q., LaBreck, J.C., and Friedman, R.J.: In Vitro Engineered Bone: A Calcified Osteoblastic-HA-Collagen Complex For Repairing Bone Defects. *Tissue Engineer.*, Submitted, 2002.
173. Patterson, K., An, Y.H, Tian, Y., LaBreck, J.C., Kang, Q., LaBerge, M., and Friedman, R.J.: An Osteoblastic Laden HA-Collagen Scaffold For Treatment of Osseous Defects. *Tissue Engineer.*, Submitted, 2002.

Abstracts:

1. Weisel, R.D., Goldman, B.S., Cusimano, R.J., and Friedman, R.J.: Intra-aortic Balloon Pump Assist for Cardiogenic Shock. Abstracts of the Second European Society of Cardiology, p. 9, June, 1979.
2. Weisel, R.D., Goldman, B.S., Cusimano, R.J., Baigre, R.S. and Friedman, R.J.: Intra-aortic Balloon Pump Assist for Cardiogenic Shock. Abstracts of the Annual Meeting of the Canadian Cardiovascular Society, p. 89, October, 1979.
3. Friedman, R.J., and Jupiter, J.B.: Vascular Injuries Associated with Extremity Fractures in Children. *Ortho. Trans.*, 7:423, 1983.
4. Friedman, R.J. and Cochran, T.P.: Anterior Transposition of the Ulnar Nerve. A Clinical and Electrophysiological Study. *Orthop. Trans.*, 9:419, 1985.
5. Friedman, R.J., and Ewald, F.C.: Ipsilateral Shoulder and Elbow Arthroplasties. *Orthop. Trans*, 10:218, 1986.
6. Volatile, T.B., Ewald, F.C., Friedman, R.J., Gebhardt, E., Thomas, W.H. and Sledge, C.B.: Ten Year Results of 142 Duocondylar Total Knee Replacements. Abstracts of the

- 53rd Annual Meeting of the American Academy of Orthopaedic Surgeons, pg. 133, February, 1986.
7. Friedman, R.J., Poss, R., Kelley, K.M., and Sledge, C.B.: Revision of Failed Aseptic Total Knee Replacements: Long-Term Results. *Orthop. Trans.*, 11:69, 1987.
 8. Keller, J.C., Trancik, T.M., St. Mary, E, Hautaniemi, J.A., and Friedman, R.J.: Inhibition of Bone Ingrowth By Indomethicin. *Trans. Orthop. Res. Soc.*, 12:437, 1987, and *Orthop. Trans.* 11:400, 1987.
 9. Friedman, R.J., and Ewald, F.C.: Functional Results After Ipsilateral Arthroplasties of the Rheumatoid Shoulder and Elbow. *Arthritis Rheum.*, 30:79, 1987.
 10. Friedman, R.J., Hirst, P., Poss, R., Kelley, K.M., and Sledge, C.B.: Long-Term Results of Revision Total Knee Replacements. *Orthop. Trans.*, 12:712, 1988.
 11. Herzenberg, J.E., Harrelson, J.M., Campbell, D.C., Lachiewicz, P.F., and Friedman, R.J.: Fracture of the Polyethylene Bearing Insert in Bateman Bipolar Hip Prostheses. *Orthop. Trans.* 12:742, 1988.
 12. Friedman, R.J.: Nonconstrained Total Elbow Replacement In Patients With Functional Class IV Rheumatoid Arthritis. *Arthritis Rheum.*, 31:580, 1988.
 13. Friedman, R.J., Sledge, C.B., Thornhill, T.S., and Thomas, W.H.: Nonconstrained Total Shoulder Replacement In Patients With Functional Class IV Rheumatoid Arthritis. Abstracts of the 43rd Annual Meeting of the Canadian Orthopaedic Association, pg. 65, June, 1988.
 14. Friedman, R.J., Hirst, P., Poss, R., Kelley, K., and Sledge, C.B.: Revision of Failed Aseptic Total Knee Replacements. Abstracts of the 5th Annual Meeting of the Southern Orthopaedic Association, pg. 15, August, 1988.
 15. Friedman, R.J., Thornhill, T.S., Thomas, W.H., and Sledge, C.B.: Nonconstrained Total Shoulder Replacement In Patients With Functional Class IV Rheumatoid Arthritis. *J. Bone Joint Surg.*, 71B:347, 1989, and *Orthop/Rheum. Dig.*, 2:4-5, 1990.
 16. Friedman, R.J., Graham, J.M., et. al: Timing of Tourniquet Inflation on Cefazolin Prophylaxis in Total Knee Replacement. *S. Med. J.*, 81:554, 1988.
 17. Friedman, R.J.: Shoulder Biomechanics Following Total Joint Arthroplasty. *Trans. Orthop. Res. Soc.*, 14:4, 1989, and *Orthop. Trans.*, 13:249-250, 1989.
 18. Friedman, R.J.: Glenohumeral and Scapulothoracic Motion Following Total Shoulder Replacement. *Orthop. Trans.*, 13:236, 1989.
 19. Friedman, R.J.: Biomechanics of the Shoulder Following Total Shoulder Replacement. *Orthop. Trans.*, 13:669, 1989.

20. Friedman, R.J. and Acurio, M.T.: Total Hip Replacement in Patients With Sickle–Cell Hemoglobinopathy. *Orthop. Trans.*, 13:599–600, 1989.
21. Friedman, R.J., and Ewald, F.C.: Nonconstrained Total Elbow Replacement For The Treatment of Severe Rheumatoid Arthritis. *J. Bone Joint Surg.*, 72B:542, 1990.
22. Friedman, R.J.: Biomechanics of the Shoulder Following Total Shoulder Replacement. Abstracts of the 4th International Conference on Surgery of the Shoulder, pg. 67, October, 1989.
23. Cushner, F.D, and Friedman, R.J.: Factor Affecting Blood Loss and Transfusion Rate Following Total Knee Arthroplasty. Abstracts of the 83rd Annual Meeting of the Southern Medical Association, pg. 65, November, 1989.
24. Acurio, M.T. and Friedman, R.J.: Total Hip Replacement in Patients With Sickle–Cell Hemoglobinopathy. *J. Bone Joint Surg.*, 72B:539, 1990, *Orthop. Trans.*, 14:551, 1990.
25. Friedman, R.J., Graham, J., Freidrich, L., et. al.: Antibiotic Prophylaxis and Tourniquet Inflation in Total Knee Replacement. Abstracts of the 7th Annual Meeting of the Knee Society, pg. 2, February, 1990, and of the 7th Annual Meeting of the Southern Orthopaedic Association, pg. 10, June 1990.
26. Friedman, R.J., Brookings, G.D., and Dooley, R.L.: Finite Element Analysis of Glenoid Component Design. *Orthop. Trans.*, 14: 253, 1990.
27. Friedman, R.J., and McGinty, J.B.: Arthroscopy of Total Knee Replacement. *Orthop./Rheum. Dig.*, 2:14, 1990.
28. Friedman, R.J. Scientific and Ethical Considerations in Human Clinical Experimentation. *Trans. Soc. Biomat.*, 13:216, 1990.
29. Friedman, R.J.: Shoulder Biomechanics Before and After Total Joint Arthroplasty. Abstracts of the First World Biomechanics, pg. 107, August, 1990, and of the 18th SICOT World Congress, pg. 350, September, 1990.
30. Friedman, R. J., Dorr, L.D., Gustke, K.A., et al.: Hydroxyapatite Coated Total Hip Arthroplasty. *Trans. Orthop. Res. Soc.*, 16:538, 1991, and *Orthop. Trans.*, 15: 751, 1991.
31. Cushner,F.D., McPherson E.J., and Friedman, R.J.: Natural History of Uncorrected Flexion Contractures Following Total Knee Arthroplasty. *Orthop. Trans.*, 15: 723, 1991.
32. Friedman R.J., Hawthorne, K.B., and Genez, B.: Evaluation of Glenoid Bone Loss With Computerized Tomography for Total Shoulder Arthroplasty. *Orthop. Trans.*, 15:749, 1991.
33. Cushner, F. D., and Friedman, R. J.: Blood Loss in Total Knee Arthroplasty. *Orthop. Trans.*, 15: 22, 1991.

34. Friedman, R.J.: Glenohumeral Translation Following Total Shoulder Arthroplasty. *Orthop. Trans.*, 16:758, 1992.
35. Friedman, R. J., Dorr, L.D., Gustke, K.A., et al.: Hydroxyapatite Total Hip Arthroplasty. *Orthop. Trans.*, 15: 535, 1991.
36. Friedman R.J., Hawthorne, K.B., and Genez, B.: Glenoid Augmentation For Total Shoulder Arthroplasty. *Orthop Trans.*, 16:66, 1992.
37. Richards, L., Dorman, B.H., Conroy, J.M., Friedman, R.J., Duc, T.A.: A Comparison of Etidocaine Versus Marcaine for Postoperative Analgesia Following Interscalene Block for Shoulder Surgery. *South Med. J.*, 84:2S-8, 1991.
38. Friedman, R.J., An, H., Smith, E.J., and John, J.F.: Protein Adsorption on Orthopaedic Biomaterials Using the ELISA Technique. *Trans. Orthop. Res. Soc.*, 17:421, 1992, and *Orthop. Trans.* 16:560, 1992.
39. Friedman, R.J., Acurio, M.T., Davis, R., Claassen, B., Powers, D., Keller, J., and Grotendorst, G.: Effects of Growth Factors and Indomethacin on Fracture Healing. *Trans. Orthop. Res. Soc.*, 17:577, 1992, and *Orthop. Trans.* 16:514, 1992.
40. Friedman, R.J., Bonutti, P.M., Norfray, J.F., and Genez, B.: Cine Magnetic Resonance Imaging of the Shoulder. *Orthop. Trans.*, 16:777, 1992.
41. Drennan, D., and Friedman, R.J., for the RD Heparin Arthroplasty Group: RD Heparin Versus Warfarin in the Prevention of Deep Vein Thrombosis Following Total Knee Arthroplasty. *Abstracts of the 9th Annual Meeting of the Knee Society*, pg. 25, February, 1992.
42. Friedman, R.J., for the RD Heparin Arthroplasty Group: RD Heparin Versus Warfarin in the Prevention of Deep Vein Thrombosis Following Total Hip and Knee Arthroplasty. *Orthop. Trans.* 16:483, 712, 1992.
43. Murdock, L.E., Hofmann, A.A., Friedman, R.J., et al.: Duplex Ultrasonography in Detection of Deep-Vein Thrombosis in Asymptomatic, Postoperative Total Hip and Knee Arthroplasty Patients. *Orthop. Trans.*, 15:749, 1991.
44. Bauer, T.W., Friedman, R.J., Garg, K., and Draughn, R.A.: Effects of Substrate Metal Composition on Bone Apposition to Hydroxylapatite. *Lab. Invest.*, 66:3A, 1992.
45. Friedman, R. J., Dorr, L.D., Gustke, K.A., et al.: Two to Four Year Results of Hydroxyapatite Total Hip Arthroplasty. *Abstracts of the 9th Combined Meeting of the English Speaking Orthopaedic Associations*, pg. 243, June, 1992.
46. Rogers, J.M., LaBerge, M., Barefoot, S.M., Shalaby, S.W., and Friedman, R.J.: An Antibiotic Delivery System For The Reconstruction Of Infected Bone Defects: In Vitro Study. *Orthop. Trans.*, 17:379, 1993.

47. Friedman, R.J., Acurio, M.T., Davis, R., Claassen, B., Powers, D., Keller, J., and Grotendorst, G.: Effects of Growth Promoting Factors on Fracture Healing. Trans. Orthop. Trauma Assoc. Meeting, pg. 75, October, 1992.
48. McPherson, E.J., Friedman, R.J., and Dooley, R.D.: Anatomic Basis of Total Shoulder Design. J. Shoulder Elbow Surg., 2:S28, 1993.
49. Friedman, R.J., An, Y., Draughn, R.A., Smith, E.A., Nicholson, J., and John, J.F.: Rapid Quantification of Staphylococci Adhered to Titanium Surfaces Using Image Analyzed Epifluorescence Microscopy. Trans. Orthop. Res. Soc., 18:456, 1993, and Orthop. Trans., 17:773, 1993.
50. Friedman, R.J., Bonutti, P.M., Genez, B. M., and Norfray, J.F.: Cine Magnetic Resonance Imaging of the Glenohumeral Joint. Abstracts of the 60th Annual Meeting of the American Academy of Orthopaedic Surgeons, pg. 207, February, 1993.
51. 51. Parent, T.E., Schutte, H.D., and Friedman, R.J.: Femoral Neck Retaining Total Hip Arthroplasty. Abstracts of the 60th Annual Meeting of the American Academy of Orthopaedic Surgeons, pg. 254, February, 1993.
52. Friedman, R.J., Bonutti, P.M., Genez, B. M., and Norfray, J.F.: Cine Magnetic Resonance Imaging of Subcoracoid Impingement. J. Shoulder Elbow Surg., 3:S13, 1994.
53. Bauer, T.W., Friedman, R.J., Ming, J., An, Y., Draughn, R.A., and Kessler, L.: Bone Apposition to Textured Titanium and Chromium Cobalt Coatings. Lab. Invest., 68:4A, 1993.
54. Friedman R.J., Bauer T.W., Garg K., and Draughn R.A. ; Histological And Mechanical Comparison Of Hydroxyapatite Coated Cobalt Chrome And Titanium Implants. Trans. Soc. Biomat., 16: 109, 1993.
55. Friedman R.J., An Y., Ming J., Draughn R.A., Kessler L., and Bauer T.W.: In Vivo Mechanical And Histological Evaluation Of Bone Ingrowth And Apposition In The Rabbit Femur. Trans. Soc. Biomat., 16: 77, 1993.
56. An Y., Friedman R.J., Draughn R.A., Smith E., Nicholson J., and John J.F.: Rapid Quantification Of Staphylococci Adhered To Titanium Surfaces Using Image Analyzed Epifluorescence Microscopy. Trans. Soc. Biomat.,16: 36, 1993.
57. An Y., Friedman R.J., Draughn R.A., Smith E., Qi C., and John, J.F.: Staphylococcal Adhesion To Orthopaedic Biomaterials. Trans. Soc. Biomat., 16:148, 1993.
58. Friedman, R.J., Bonutti, P.M., Genez, B. M., and Norfray, J.F.: Cine Magnetic Resonance Imaging of the Glenohumeral Joint. J. Shoulder Elbow Surg., 3:S34, 1994.
59. Friedman, R.J.: Prospective Analysis of Total Shoulder Arthroplasty Biomechanics. J. Shoulder Elbow Surg., 3:S22, 1994.

60. Friedman, R.J., An, Y., Chokeski, R., and Kessler, L.: Anatomic and Biomechanical Study of Glenohumeral Contact. *J. Shoulder Elbow Surg.*, 3:S35, 1994.
61. Friedman, R.J., Bonutti, P.M., Genez, B. M., and Norfray, J.F.: Subcoracoid Impingement Syndrome. *J. Shoulder Elbow Surg.*, 3:S30, 1994.
62. Friedman, R.J., Bonutti, P.M., Genez, B. M., and Norfray, J.F.: Cine Magnetic Resonance Imaging Evaluation of the Normal and Painful Shoulder. *J. Shoulder Elbow Surg.*, 3:S65, 1994.
63. Bonutti, P.M., Friedman, R.J., Genez, B. M., and Norfray, J.F.: Evaluation of Glenoid Labrum Morphology Using Cine MRI. *Orthop. Trans.*, 17:608, 1108, 1993.
64. Friedman R.J., An Y., Chokeski R., Kessler L., McPherson E.J.: Anatomic And Biomechanical Relationships Affecting Contact Patterns In The Glenohumeral Joint. *Trans. Orthop. Res. Soc.* 19:648, 1994, and *Orthop. Trans.*, 18:554, 1994.
65. Friedman, R. J., Dorr, L.D., Gustke, K.A., et al.: Four to Six Year Results of Hydroxyapatite Total Hip Arthroplasty. *Trans. Soc. Biomat.*, 17:27, 1994.
66. Zhang, G., Latour, R.A., Kennedy, J.M., Schutte, H. D., and Friedman, R. J.: Long Term Compressive Strength Durability of Carbon Fiber Reinforced PEEK Composite in Physiologic Saline. *Trans. Soc. Biomat.*, 17:160, 1994.
67. D'Ariano, M.D., Latour, R.A., Kennedy, J.M., Schutte, H. D., and Friedman, R. J.: Long Term Shear Strength Durability of CF/PEEK Composite in Physiologic Saline. *Trans. Soc. Biomat.*, 17:184, 1994.
68. McDowell, S.A., An, Y., and Friedman, R. J.: Application of a Fluorescent Redox Dye for Enumeration of Metabolically Active Bacteria on Titanium Coated With Cross-Linked Albumin. *Trans. Soc. Biomat.*, 17:201, 1994, and *Trans. Orthop. Res. Soc.* 20:748, 1995, and *Orthop. Trans.* 19:918, 1995.
69. McDowell, S.A., An, Y., and Friedman, R. J.: Bacterial Adhesion to Gritblasted Surfaces. *Trans. Soc. Biomat.*, 17:349, 1994, *Trans. Orthop. Res. Soc.* 20:140, 1995, and *Orthop. Trans.* 19:1008, 1995.
70. Friedman, R.J., Schiff, C.F., and Bromberg, J.S.: Are Supplemental Stress Steroids Necessary in Orthopaedic Surgery? Abstracts of the 46th Annual Meeting of the Association of Bone and Joint Surgeons, May 11-15, 1994, pg. 72-73, and *Orthop. Trans.*, 18:820, 1994.
71. Friedman, R.J., Acurio, M.T., Davis, R., Claassen, B., Powers, D., Keller, J., and Grotendorst, G.: Effects of Growth Promoting Factors on Fracture Healing. *Orthop. Trans.* 18:13, 1994.
72. Stuart, G.W., McDowell, S.J., McDaniel, S.E., An, Y.H., and Friedman, R.J.: Cross-Linked Albumin Coated Surfaces To Prevent Bacterial Adhesion Onto Titanium Plates.

- Trans. Soc. Biomat., 18:414, 1995, and Trans. Orthop. Res. Soc.. 20:262, 1995, and Orthop. Trans. 19:971, 1995.
73. Friedman, R.J., An, Y.H., Draughn, R.A., Ming, J., and Bauer, T.W.: Effects of Substrate Finish on Attachment Strength, Bone Apposition and Hydroxyapatite Coating Stability. Trans. Soc. Biomat., 18:119, 1995.
 74. Friedman, R.J., An, Y.H., Bannar, S.M., Latour, R.A., and Powers, D.L.: Longterm Bioabsorbable Screw Fixation In The Dog Femur. Trans. Soc. Biomat., 18:183, 1995, and Trans. Orthop. Res. Soc.. 20:578, 1995, and Orthop. Trans. 19:944, 1995.
 75. Wingate, J., Schiff, C.F., Friedman, R.J.: Osteonecrosis of the Humeral Head in Sickle Cell Disease. J. Shoulder Elbow Surg., 4:55, 1995.
 76. Friedman, R.J., Schiff, C.F., and Bromberg, J.S.: Supplemental Stress Steroids in Orthopaedic Surgery. Rheumatology in Europe, 24: 286, 1995.
 77. Friedman, R.J., Dorr, L.D., Gustke, K.A., et al.: Hydroxyapatite Total Hip Arthroplasty in Inflammatory Arthritis. Rheumatology in Europe, 24: 302, 1995.
 78. Friedman, R.J.: The Role of Arthroscopy: Facts and Fiction. Abstracts of the 11th Annual Current Concepts in Joint replacement, Orlando, Fl, 1995, pg. 127.
 79. Friedman, R.J.: LMWH Anticoagulant Prophylaxis: A New Gold Standard. Abstracts of the 11th Annual Current Concepts in Joint replacement, Orlando, Fl, 1995, pg.165.
 80. Friedman, R.J., An, Y.H., and Draughn, R.A.: Glenohumeral Pressures and Contact Areas in Total Shoulder Arthroplasty. J. Shoulder Elbow Surg., 5:S15, 1996.
 81. Wingate, J.K., Schiff, C.F., and Friedman, R.J.: Humeral Head Osteonecrosis in Sickle Cell Disease. J. Shoulder Elbow Surg., 5:S18, 1996.
 82. Friedman, R.J., and Frykman, G.K.: Radioulnar Synostosis Following Repair of Distal Biceps Tendon Ruptures. J. Shoulder Elbow Surg., 5:S19, 1996.
 83. Friedman, R.J., Gartsman, G., and Dooley, R.L.: Automated Data Acquisition For Outcome Research in Total Shoulder Arthroplasty. J. Shoulder Elbow Surg., 5:S43, 1996.
 84. Cushner, F.D., Merrill, K., and Friedman, R.J.: Operative Fixation of Displaced Sternal Fractures. J. Shoulder Elbow Surg., 5:S105, 1996.
 85. Friedman, R.J., Bromberg, J.S., and Schiff, C.F.: Supplemental Stress Steroids in Orthopaedic Surgery. Orthop. Trans., 19:812, 1996.
 86. Friedman, R.J., Bonutti, P.M., and Genez, B.M.: Diagnosis of Subcoracoid Impingement With Cine Magnetic Resonance Imaging. Orthop. Trans., 19:813, 1996.

87. Frykman, G.K., and Friedman, R.J.: Radioulnar Synostosis Following Repair of Distal Biceps Brachii Rupture. *Orthop. Trans.*, 19:817, 1996.
88. Friedman, R.J., An, Y.H., and Draughn, R.A.: Articular Geometry and Contact Pressures in Total Shoulder Arthroplasty. *J. Shoulder Elbow Surg.*, 5:S115, 1996.
89. An, Y., Bradley, J., Powers, D., and Friedman, R.J.: Preventing Prosthetic Infection Using a Crosslinked Albumin Coating In Vivo. *Trans. Orthop. Res. Soc.* 21:258, 1996 and *Orthop. Trans.*, 20:646, 1996.
90. An, Y., Kang, Q., Draughn, R., and Friedman, R.J.: Effects of Carrageenan Induced Arthritis on Periarticular Bone in the Rabbit Knee. *Trans. Orthop. Res. Soc.* 21:748, 1996 and *Orthop. Trans.*, 20:813, 1996.
91. Friedman, R.J., An, Y., Bannar, S.M., Latour, R.A., and Powers, D.L.: Fracture Fixation Using Bioabsorbable Screws in the Canine Femur. *Orthop. Trans.*, 20:133, 1996.
92. Friedman, R.J.: Biomechanics of the Rotator Cuff. Abstracts of the European Symposium of the Shoulder: The Rotator Cuff, St. Etienne, France, April 26-28, 1996, pg. 172.
93. Friedman, R.J.: Standardized Shoulder Assessment Form. Abstracts of the European Symposium of the Shoulder: The Rotator Cuff, St. Etienne, France, April 26-28, 1996, pg. 174.
94. Friedman, R.J.: Shoulder Stiffness. Abstracts of the European Symposium of the Shoulder: The Rotator Cuff, St. Etienne, France, April 26-28, 1996, pg. 196.
95. Tian, Y., An, Y.H., LaBreck, J.C., Kang, K., Laberge, M., and Friedman, R.J.: A Novel Chondrocyte-Seeded Hydroxyapatite Collagen Scaffold for Cartilage Repair. Abstracts of the 5th World Biomaterials Congress, Toronto, May 28-June 2, 1996, pg. 870.
96. Friedman R.J., An Y.H., Draughn R.A.: Conformity And Contact Pressures In Total Shoulder Arthroplasty. Abstracts of the 5th World Biomaterials Congress, Toronto, May 28-June 2, 1996, pg. 871.
97. Friedman R.J., An H., Wingate J., Draughn RA., Latour R.A., Powers D.L.: Bioabsorbable Screw Fixation of Distal Femoral Osteotomies in the Dog. Abstracts of the 5th World Biomaterials Congress, Toronto, May 28-June 2, 1996, pg. 872.
98. An Y.H., Bradley, J., Powers, D.L., Friedman R.J.: Preventing Prosthetic Infection Using A Croslinked Albumin Coating in Vivo. Abstracts of the 5th World Biomaterials Congress, Toronto, May 28-June 2, 1996, pg. 873.
99. Friedman R.J., An Y.H., Jiang, M., Buterhorn, H.F., Draughn R.A., Bauer, TW.: Bone Ingrowth Into Porous and HA Coated Titanium Implants In Experimental Inflammatory Arthritis. Abstracts of the 5th World Biomaterials Congress, Toronto, May 28-June 2, 1996, pg. 874.

100. An, Y.H., Kang, Q., Zhang, J.H., Friedman, R.J., and Young, F.A.: Comparison of Screw Pull-Out Strength From Weight-Bearing Directions in Bovine Cancellous Bone. Abstracts of the 12th Annual Meeting of the American Society of Biomechanics, Atlanta, GA, October 17, 1996, pg. 181-182.
101. An, Y.H., Kang, Q., and Friedman, R.J.: Effects of Multiple Freezing and Thawing on the Indentation Strength of Bovine Cancellous Bone. Abstracts of the 12th Annual Meeting of the American Society of Biomechanics, Atlanta, GA, October 17, 1996, pg. 185-186.
102. An, Y.H., Kang, Q., and Friedman, R.J.: Mechanical Symmetry of Rabbit Long Bones Studied By Bending and Indentation Test. Abstracts of the 12th Annual Meeting of the American Society of Biomechanics, Atlanta, GA, October 18, 1996, pg. 187-188.
103. An, Y.H., Zhang, J.H., Kang, Q., and Friedman, R.J.: Application of Indentation Test on Rat Trabecular Bone. Abstracts of the 12th Annual Meeting of the American Society of Biomechanics, Atlanta, GA, October 18, 1996, pg. 191-192.
104. An, Y.H., Kang, Q., and Friedman, R.J.: Mechanical Properties of Canine Trabecular Bones Tested By Indentation and Compression Test. Abstracts of the 12th Annual Meeting of the American Society of Biomechanics, Atlanta, GA, October 19, 1996, pg. 193-194.
105. An, Y.H., Kang, Q., and Friedman, R.J.: Effects of a Carrageenan Induced Arthritic Knee on the Periarticular Bone in the Rabbit. Abstracts of the 12th Annual Meeting of the American Society of Biomechanics, Atlanta, GA, October 19, 1996, pg. 195-196.
106. Friedman, R.J., An, Y.H., Jiang, M., Butchorn, H.F., Draughn, R.A., Bauer T.W.: Bone Ingrowth Into Implant Surfaces in Experimental Inflammatory Arthritis. *Trans. Orthop. Res. Soc.* 22:540, 1997, and *Orthop Trans.*, 21:916-917, 1997.
107. Friedman, R.J., An, Y.H., and Draughn, R.A.: Glenohumeral Congruency in Total Shoulder Arthroplasty. Abstracts of the 64th Annual Meeting of the American Academy of Orthopaedic Surgeons, pg. 52, February, 1997.
108. Bonutti, P.M., Chesnik, R.M., and Friedman, R.J.: Cine MRI: A Noninvasive Technique for the Evaluation of Shoulder Instability. Abstracts of the 64th Annual Meeting of the American Academy of Orthopaedic Surgeons, pg. 162, February, 1997.
109. Friedman, R.J., An, Y.H., Wingate, J.K., Draughn, R.A., Latour, R.A., and Powers, D.L.: Fixation of Distal Femoral Osteotomies With Bioabsorbable Screws. Abstracts of the 64th Annual Meeting of the American Academy of Orthopaedic Surgeons, pg. 232, February, 1997.
110. An, Y.H., Kang, Q., Friedman, R.J., and Young, F.A.: The Effect of Bone Microstructure on Screw Pull-out Strength. *Trans. Soc. Biomat.*, 20:385, 1997.

111. An, Y.H., LaBreck, J.C., Lewis, J.L., and Friedman, R.J.: Rabbit Scapula Is An Ideal Source Of Chondrocytes For Autogenic Cell Seeding. *Trans. Soc. Biomat.*, 20:465, 1997.
112. Patterson, K., An, Y.H., Tian, Y., Wheeler, A., Mount, A., LaBreck, J.C., Kang, Q., LaBerge, M. And Friedman, R.J.: A Novel Osteoblastic-Laden Ha/Collagen Scaffold For Treatment Of Osseous Defects. *Trans. Soc. Biomat.*, 20:476, 1997.
113. An, Y.H., Friedman, R.J., and Young, F.A.: A New Artificial ACL Anchor. *Trans. Soc. Biomat.*, 20:386, 1997.
114. Brothers, T.E., Frank, C.E., Frank, B., Robison, J.G., Elliott, B.M., Schutte, H.D., Merrill, K.D., and Friedman, R.J.: Duplex Venous Surveillance Following Total Joint Arthroplasty. *Abstracts of the 49th Annual Meeting of the Association of Bone and Joint Surgeons*, pg. 39-40, May, 1997.
115. Friedman, R.J., Gartsman, G., and Dooley, R.L.: Automated Data Acquisition For Outcome Research in Total Shoulder Arthroplasty. *J. Shoulder Elbow Surg.*, 6:226, 1997.
116. An, Y.H., Butehorn, H.F., LaBreck, J., Siffri, P., and Friedman, R.J.: In Vitro Bone Culture and Formation on Biomaterial Surfaces. *Orthop. Trans.*, 22:487, 1998.
117. Friedman, R.J., De Andrade, J.R., Goldberg, M.A., Larholt, K, and Frei, D.: Perioperative Recombinant Human Erythropoietin Reduces Transfusion Requirements in Major Elective Orthopaedic Surgery. *Abstracts of the 52nd Annual Meeting of the Canadian Orthopaedic Association*, pg. 141, June, 1997.
118. Friedman, R.J., An, Y.H., and Draughn, R.A.: Glenohumeral Congruency In Total Shoulder Arthroplasty. *Abstracts of the 52nd Annual Meeting of the Canadian Orthopaedic Association*, pg.147, June, 1997, and *Orthop. Trans.*, 21:17, 1997.
119. Friedman, R.J., An, Y.H., Wingate, J.K., Draughn, R.A., Latour, R.A., and Powers, D.L.: Bioabsorbable Screw Fixation of Distal Femoral Osteotomies In The Dog. *Orthop. Trans.*, 21:155, 1997.
120. An, Y.H., Kang, Q., Friedman, R.J., et. al.: Do Mechanical Properties of Epiphyseal Cancellous Bone Vary? *J. Invest. Surg.*, 10:221, 1997.
121. An, Y.H., Trilokekar, N., Tian, Y., Friedman, R.J., et.al.:Evaluation of Biocompatibility Of Sulfonated Polylactide. *J. Invest. Surg.*, 10:229, 1997.
122. Bonutti, P.M., Chesnik, R., and Friedman, R.J.: Cine MRI: A Non-Invasive Technique For The Evaluation of Shoulder Instability. *Orthop. Trans.*, 21:155, 1997.
123. Spiro, T., Comp, P.C., Friedman, R.J., et al.: Double Blind Multicenter Trial Comparing Long Term Enoxaparin and Placebo Treatments in the Prevention of Venous Thromboembolic Disease After Hip and Knee Replacement Surgery. *J. Arthroplasty*, 13:228, 1998.

124. Friedman, R.J., Butler, J.E., Zimlich, R.H., Tidd, A., and Schutte, H.D.: Preoperative Hemoglobin as a Predictor of Transfusion Risk in Total Hip and Knee Arthroplasty. *J. Arthroplasty*, 13:238, 1998.
125. Friedman, R.J., Spiro, T., Comp, et al.: Double Blind Trial Comparing Long-Term Enoxaparin and Placebo in the Prevention of Thromboembolic Disease After Total Hip and Knee Arthroplasty. *Orthop. Trans.*, 22:56, 1998.
126. Friedman, R.J., Zimlich, R.H., Butler, J., Tidd, A., and Schutte, H.D.: Preoperative Hemoglobin as a predictor of Transfusion Risk in Total Hip and Knee Arthroplasty. *Orthop. Trans.*, 22:130, 1998.
127. An, Y.H., Mironov, V.A., Gutowski, A., Markwald, R.R., and Friedman, R.J.: Propagation of Chondrocytes Using A Thermosensitive Gel Culture. *Trans. Soc. Biomater.*, 21:544, 1998, and *Tissue Engineer.*, 4:490, 1998.
128. Friedman, R.J., De Andrade, J.R., Goldberg, M.A., Larholt, K, and Frei, D.: Perioperative Recombinant Human Erythropoietin Reduces Transfusion Requirements in Major Elective Orthopaedic Surgery. *J. Bone Joint Surg.*, 80B:(Suppl I)12, 1998.
129. Friedman, R.J., An, Y.H., and Draughn, R.A.: Glenohumeral Congruency In Total Shoulder Arthroplasty. *J. Bone Joint Surg.*, 80B:(Suppl I)13-14, 1998.
130. Friedman, R.J., Lipman, A.J., and Schutte, H.D.: Failure of a Femoral Neck Retaining Total Hip Arthroplasty. *Orthop. Trans.* 22:1005, 1998.
131. Friedman, R.J., Bonutti, P.M., and Chesniak, R.M.: Cine Magnetic Resonance Imaging For The Evaluation of Shoulder Instability. *Orthop. Trans.* 22:1183, 1998.
132. An, Y., Mironov, V., Gutowska, A., LaBreck, J., Markwald, R., and Friedman, R.J.: Propagation of Chondrocytes Using A Thermosensitive Polymer Gel Culture. *Trans. Orthop. Res. Soc.*, 24:804, 1999.
133. Bednarski, B.K., An, Y.H., and Friedman, R.J.: Biofilm Formation on Biomaterial Surfaces in a Laminar Flow Chamber. *Trans. Soc. Biomater.*, 22:325, 1999.
134. Friedman, R.J., Morrow, D.L., and Tidd, A. Restoration of Glenohumeral Anatomy Following Total Shoulder Arthroplasty. *Proceedings of the 66th Meeting of the American Academy of Orthopaedic Surgeons*, February 4-8, 1999, pg. 39-40.
135. Friedman, R.J.: Primary Shoulder Arthroplasty. *Abstracts of the 21st Triennial SICOT World Congress*, April 18-23, 1999, pg. 401.
136. Friedman, R.J.: Restoration of Glenohumeral Anatomy Following Total Shoulder Arthroplasty. *Abstracts of the 21st Triennial SICOT World Congress*, April 18-23, 1999, pg. 347.

137. Friedman, R.J., Stowell, C.P., Chandler, H., et. al.: Perioperative Erythropoietin Compared to Autologous Donation in Total Hip and Knee Arthroplasty. Abstracts of the 51st Annual Meeting of the Association of Bone and Joint Surgeons, May 12-16, 1999, pg. 53.
138. Friedman, R.J., Morrow, D.L., Tidd, A. and Ingram, I.: Restoration of Glenohumeral Anatomy Following Total Shoulder Arthroplasty. Abstracts of the 16th Annual Meeting of the American Shoulder and Elbow Surgeons, October 14-17, 1999, pg. 75-76.
139. Friedman, R.J., Heit, J.A., and Morrey, B.F.: Extended DVT Prophylaxis Following Total Hip or Knee Arthroplasty. Abstracts of the 52nd Annual Meeting of the Association of Bone and Joint Surgeons, May 17-21, 2000, pg. 59.
140. An, Y.H., Bell, T.D., Craig, M.L., Bensen, C.V., McKoy, B.E., and Friedman, R.J.: Evaluation of Bone Ingrowth Into Two Implant Surfaces in a Canine Transcortical Plug Model. *Trans. Soc. Biomater.*, 23:210, 2000.
141. An, Y.H., Basso, V.M., Gutowski, A., Mironov, V.A., and Friedman, R.J.: A Thermosensitive Polymer For Arterial Embolization in a Rat Model. *Trans. Soc. Biomater.*, 22:478, 2000.
142. Friedman, R.J., Newman, M.A, Jessup, D.E., Bal, B.S., and Longo, J.A.: Prospective Randomized Study Comparing Ceramic/Ceramic and Ceramic/Polyethylene Bearing Surfaces in Total Hip Arthroplasty. Proceedings of the 2002 Annual Meeting of the American Academy of Orthopaedic Surgeons, 3:415, 2002.
143. Friedman, R.J.: Ceramic on Ceramic Total Hip Arthroplasty. *J South. Orthop. Assoc.*, 11:46, 2002.
144. Friedman, R.J., Turpie, A.G.G., Bauer, K.A., et al: Role of the Duration of Fondaparinux Prophylaxis In Preventing Thromboembolism Following Major Orthopaedic Surgery. Abstracts of the 33rd Annual Meeting of the Eastern Orthopaedic Association, pg. 24-25, October, 2002.

Presentations:

National and International:

1. Weisel, R.D., Goldman, B.S., Cusimano, R.J., and Friedman, R.J.: Intra-aortic Balloon Pump Assist for Cardiogenic Shock. Presented at the Canadian Symposium for Balloon Pump Support, Toronto, April 6, 1979 and at the Second European Intra-aortic Balloon Pump Congress and European Society of Cardiology, Vienna, Austria, June 5-7, 1979.
2. Weisel, R.D., Baigre, R.S., Goldman, B.S., Cusimano, R.J., and Friedman, R.J.: Intra-aortic Balloon Pump Assist for Cardiogenic Shock. Presented at the Annual Meeting of the Canadian Cardiovascular Society, Quebec City, October 17-20, 1979.

3. Friedman, R.J., and Jupiter, J.B.: Vascular Injuries Associated with Extremity Fractures in Children. Presented at the American Orthopaedic Association 16th Annual Residents Conference, Memphis, Tennessee, May 11–14, 1985.
4. Friedman, R.J., and Cochran, T.P.: Anterior Transposition of the Ulnar Nerve. A Clinical and Electrophysiological Study. Presented at the 52nd Annual Meeting of the American Academy of Orthopaedic Surgeons, Las Vegas, Nevada, January 24–29, 1985.
5. Friedman, R.J., and Ewald, F.C.: Ipsilateral Shoulder and Elbow Arthroplasties. Presented at the Second Open Meeting of The American Shoulder and Elbow Surgeons, New Orleans, Louisiana, February 19–20, 1986.
6. Friedman, R.J., and Ewald, F.C.: Ipsilateral Shoulder and Elbow Arthroplasties. Presented at the 53rd Annual Meeting of the American Academy of Orthopaedic Surgeons, New Orleans, Louisiana, February 20–25, 1986.
7. Friedman, R.J., Poss, R., Kelley, K.M., and Sledge, C.B.: Revision of Failed Aseptic Total Knee Replacements: Long–Term Results. Presented at the 17th Annual Meeting of the Eastern Orthopaedic Association, Southhampton, Bermuda, October 15–19, 1986.
8. Biomechanics of Total Shoulder Replacement. Presented at Current Concepts in Shoulder Surgery, Charleston, SC, May 26–30, 1987.
9. Total Shoulder Replacement In Rheumatoid Arthritis. Presented at Current Concepts in Shoulder Surgery, Charleston, SC, May 26–30, 1987.
10. Friedman, R.J., and Ewald, F.C.: Functional Results After Ipsilateral Arthroplasties of the Rheumatoid Shoulder and Elbow. Presented at the 51st Annual Meeting of the American Rheumatism Association, Washington, DC, June 9–13, 1987.
11. Long Term Results Of Revision Total Knee Replacements. North American Traveling Fellowship – Toronto General Hospital, Toronto, ON, October 6, 1987.
12. Total Shoulder Replacement in Rheumatoid Arthritis. North American Traveling Fellowship – Orthopaedic and Arthritis Hospital, Toronto, ON, October 7, 1987.
13. Biomechanics and Design Considerations In Total Shoulder Replacement. North American Traveling Fellowship – University of Rochester, Rochester, NY, October 9, 1987.
14. Inhibition of Bone Ingrowth By Indomethicin. North American Traveling Fellowship – Cleveland Clinic, Cleveland, OH, October 13, 1987.
15. Total Shoulder Replacement in Rheumatoid Arthritis. North American Traveling Fellowship–Rush Medical School, Chicago, IL, October 1987.

16. Biomechanics And Design Considerations In Total Shoulder Replacement. North American Traveling Fellowship – University of Manitoba, Winnipeg, MN, October 17, 1987.
17. Biomechanics and Design Considerations In Total Shoulder Replacement. North American Traveling Fellowship - University of Saskatchewan, Saskatoon, SK, October 19, 1987.
18. Biomechanics and Design Consideration In Total Shoulder Replacement. North American Traveling Fellowship – Mayo Clinic, Rochester, MN, October 26, 1987.
19. Nonconstrained Total Shoulder Replacement In Patients With Functional Capacity Class IV Rheumatoid Arthritis. North American Traveling Fellowship – University of Iowa, Iowa City, IA, October 27, 1987.
20. Biomechanics and Design Considerations in Total Shoulder Replacement, North American Traveling Fellowship – Campbell Clinic, Memphis, TN, October 29, 1987.
21. Nonconstrained Total Shoulder Replacement In Patients With Functional Capacity Class IV Rheumatoid Arthritis. North American Traveling Fellowship – Baylor College of Medicine, Houston, TX October 31, 1987.
22. Long Term Results of Revision Total Knee Replacements. North American Traveling Fellowship – Baylor College of Medicine, Houston, TX, October 31, 1987.
23. Update on Hip, Knee and Shoulder Surgery 1988. Presented at the 13th Annual Arthritis Seminar, Spartanburg, SC, January 29, 1988.
24. Friedman, R.J.; Hirst, P.; Poss, R.; Kelley K.; and Sledge, C.B.: Longterm Results of Revision Total Knee Replacements. Presented at the 55th Annual Meeting of American Academy of Orthopaedic Surgeons, Atlanta, GA, February 8, 1988.
25. Thromboembolic Disease In Total Joint Arthroplasty. Presented at Grand Rounds, Charlotte Memorial Hospital, Charlotte, NC, May 9, 1988.
26. Nonconstrained Total Elbow Replacement In Patients With Functional Class IV Rheumatoid Arthritis. Presented at the 52nd Annual Meeting of the American Rheumatism Association, Houston, TX, May 27, 1988.
27. Revision Total Knee Replacement. Presented at Current Concepts In Knee Surgery, Charleston, SC, June 1–3,1988.
28. Arthrodesis of the Knee. Presented at Current Concepts In Knee Surgery, Charleston, SC, June 1–3, 1988.
29. Friedman, R.J.; Thornhill, T.S.; Thomas, W.H.; and Sledge, C.B.: Nonconstrained Total Shoulder Replacement In Patients with Functional Class IV Rheumatoid Arthritis.

- Presented at the 43rd Annual Meeting of the Canadian Orthopaedic Association, Ottawa, ON, June 8, 1988.
30. AOA North American Travelling Fellowship – 1987. Presented at the 101st Annual Meeting of the American Orthopaedic Association, Hot Springs, VA, June 21, 1988.
 31. Friedman, R.J., Hirst, P., Poss, R., Kelley, K., and Sledge, C.B.: Revision of Failed Aseptic Total Knee Replacements. Presented at the 5th Annual Meeting of the Southern Orthopaedic Association, Edinburgh, Scotland, August 6, 1988.
 32. Friedman, R.J., Thornhill, T.S., Thomas, W.H., and Sledge, C.B.: Nonconstrained Total Shoulder Replacement In Patients With Functional Class IV Rheumatoid Arthritis. Presented at the 5th Annual Meeting of the Southern Orthopaedic Association, Edinburgh, Scotland, August 6, 1988.
 33. Prophylaxis For Thromboembolic Disease. Presented at Grand Rounds, Medical College of Georgia, Augusta, GA, January 26, 1989.
 34. Friedman, R.J.: Shoulder Biomechanics Following Total Joint Arthroplasty. Presented at the 35th Annual Meeting of the Orthopaedic Research Society, Las Vegas, NV, February 6, 1989.
 35. Cushner, F., and Friedman, R.J.: Factor Affecting Blood Loss and Transfusion Rate Following Total Knee Replacement. Presented at the 56th Annual Meeting of the American Academy of Orthopaedic Surgeons, Las Vegas, NV, February 11, 1989.
 36. Friedman, R.J.: Glenohumeral and Scapulothoracic Motion Following Total Shoulder Replacement. Presented at the 5th Open Meeting of the American Shoulder and Elbow Surgeons, Las Vegas, NV, February 12, 1989
 37. Friedman, R.J.: Graham, J. M., White, R., Friedrich, L., and Brundage, D.: Timing of Tourniquet Inflation on Cefazolin Prophylaxis in Total Knee Replacement. Academy of Orthopaedic Surgeons, Las Vegas, NV, February 13, 1989.
 38. Fixation of Proximal Humerus Fractures. Presented at Current Concepts in Orthopaedic Trauma, Charleston, SC, May 25, 1989.
 39. Technique of ORIF of Elbow Fractures. Presented at Current Concepts in Orthopaedic Trauma, Charleston, SC, May 25, 1989.
 40. Friedman, R.J.: Biomechanics of the Shoulder Following Total Shoulder Replacement. Presented at the 23rd Annual Meeting of the Canadian Orthopaedic Research Society, Toronto, ON, May 28, 1989.
 41. Friedman, R.J., and Acurio, M.T.: Total Hip Replacement in Patients With Sickle–Cell Hemoglobinopathy. Presented at the 44th Annual Meeting of the Canadian Orthopaedic Association, Toronto, ON, May 31, 1989.

42. Friedman, R.J., and Ewald, F.C.: Nonconstrained Total Elbow Replacement for the Treatment of Severe Rheumatoid Arthritis. Presented at the 44th Annual Meeting of the Canadian Orthopaedic Association, Toronto, ON, June 1, 1989.
43. Friedman, R.J.: Biomechanics of the Shoulder Following Total Shoulder Replacement. Presented at the Fourth International Conference on Surgery of the Shoulder, New York, NY, October 6, 1989.
44. Friedman, R.J., Graham, J., Freidrich, L., et. al.: Antibiotic Prophylaxis and Tourniquet Inflation in Total Knee Replacement. Presented at the 7th Annual Meeting of the Knee Society, New Orleans, LA, February 11, 1990, and the Seventh Annual Meeting of the Southern Orthopaedic Association, Maui, Hawaii, June 8, 1990.
45. Friedman, R.J., Brookings, G.D., and Dooley, R.L.: Finite Element Analysis of Glenoid Component Design. *Shoulder and Elbow Surgeons*. Presented at the 6th Open Meeting of the American Shoulder and Elbow Surgeons, New Orleans, LA, February 11, 1990.
46. Friedman, R.J.: Hydroxyapatite and Other Factors Affecting Implant Fixation. Presented at Instructional Course #405 "Biomaterials and Implant Fixation in Orthopaedic Surgery", 57th Annual Meeting of the American Academy of Orthopaedic Surgeons, New Orleans, LA, February 13, 1990.
47. Friedman, R.J.: Treatment of Common Shoulder Disorders. Presented at Dekalb Hospital Grand Rounds, Atlanta, GA, March 27, 1990.
48. Invited participant for Workshop entitled "Ethical Issues At The Interface Between Engineering and Medicine", Clemson, SC March 31, 1990.
49. Friedman, R.J.: Experince with Hydroxyapatite Coated Implants. Presented at the Intermedics Symposium, Kiawah, SC, April 6, 1990.
50. Friedman, R.J.: Biomechanics and Design Considerations In Total Shoulder Replacement. Presented at the Intermedics Implant Symposium, Kiawah, SC April 7, 1990.
51. Friedman, R.J: Factors Affecting Implant Fixation Following Total Hip Arthroplasty. Present at the Medical College of Ohio Orthopaedic Surgery Grand Rounds, Toledo, OH, April 21, 1990.
52. Friedman, R.J.: Effects of Non-constrained Total Joint Replacement on Shoulder Motion. Presented at the Annual Meeting of the Association of VA Orthopaedic Surgeons, Charleston, SC, May 7, 1990.
53. Friedman, R.J.: Scientific and Ethical Considerations in Human Clinical Experimentation. Presented at the 16th Annual Meeting of the Society For Biomaterials, Charleston, SC, May 23, 1990.

54. Friedman, R.J.: Blood Conservation in Spine Surgery. Presented at Current Concepts of the Spine, Charleston, SC, May 30, 1990.
55. Friedman, R.J.: Thromboembolic Disease and Total Joint Replacement. Presented at Grand Rounds – Hughston Sports Medicine Clinic, Columbus, GA, June 25, 1990.
56. Friedman, R.J.: Hydroxyapatite Coated Total Joint Arthroplasty. Presented at the Intermedics THA Investigators Symposium, Napa, CA, August 25, 1990.
57. Friedman, R.J.: Shoulder Biomechanics Before and After Total Joint Arthroplasty. Presented at the First World Congress of Biomechanics, La Jolla, CA, September 2, 1990, and at the 18th SICOT World Congress, Montreal, PQ, September 13, 1990.
58. Friedman, R.J.: Arthroplasty of the Upper Limb. Panel discussion presented at the 18th SICOT World Congress, Montreal PQ, September 13, 1990.
59. Friedman, R.J.: Biomechanics of Total Shoulder Replacement. Presented at the 8th Annual Arthritic Hip, Knee and Shoulder, Salt Lake City, UT, January 5, 1991.
60. Friedman, R.J.: Total Shoulder Replacement in Rheumatoid Arthritis. Presented at the 8th Annual Arthritic Hip, Knee and Shoulder, Salt Lake City, UT, January 5, 1991.
61. Friedman, R.J., Dorr, L.D., Gustke, K.A., et al.: Hydroxyapatite Coated Total Hip Arthroplasty. Presented at the 37th Annual Meeting of the Orthopaedic Research Society, Anaheim, CA, March 4-7, 1991, and the 58th Annual Meeting of the American Academy of Orthopaedic Surgeons, Anaheim, CA, March 9, 1991.
62. Friedman, R.J.: Advances in Biomaterials and Factors Affecting Implant Fixation. Presented at the 58th Annual Meeting of the American Academy of Orthopaedic Surgeons, Instructional Course #116 "Biomaterials and Implant Fixation in Orthopaedic Surgery", Anaheim, CA, March 8, 1991.
63. Discussion of Shoulder Papers #181-183, 58th Annual Meeting of the American Academy of Orthopaedic Surgeons, Anaheim, CA, March 9, 1991.
64. Friedman R.J., Hawthorne, K.B., and Genez, B.: Evaluation of Glenoid Bone Loss With Computerized Tomography for Total Shoulder Arthroplasty. Presented at the 7th Open Meeting of the Meeting of the American Shoulder and Elbow Surgeons, Anaheim, CA, March 10, 1991.
65. Friedman, R.J., Cushner, F.D., and McPherson, E.J.: Natural History of Uncorrected Flexion Contractures Following Total Knee Arthroplasty. Presented at the International Society of the Knee, Toronto, ON, May 13-17, 1991.
66. Friedman, R.J.: Experience in HA Coated Total Hip Arthroplasty. Presented at the Intermedics Total Joint Workshop, St. Louis, MO, May 31, 1991.

67. Friedman, R.J.: Evolution of the Shoulder: Biomechanics, Design Rationale and Clinical Experience. Presented at the Intermedics Total Joint Workshop, St. Louis, MO, June 1, 1991.
68. Friedman, R.J.: Managing the Acute Ankle Sprain. Presented at the Intensive Review of Family Medicine, Hilton Head, SC, June 13, 1991.
69. Friedman, R.J.: Effects of Hydroxyapatite on Total Hip Arthroplasty. Presented at the Intermedics Total Joint Workshop, Vail, CO, July 12, 1991.
70. Friedman, R.J.: Hydroxyapatite Coated Total Hip Arthroplasty. Presented at the Intermedics Total Joint Workshop, Newport, RI, August 23, 1991.
71. Friedman, R.J.: Glenohumeral Translation Following Total Shoulder Arthroplasty. Presented at the 10th Annual Meeting of the American Shoulder and Elbow Surgeons, Seattle, WA, September 4, 1991.
72. Friedman R.J.: Glenoid Augmentation For Total Shoulder Arthroplasty. Presented at the 6th Congress of the European Rheumatoid Arthritis Surgical Society, Florence, Italy, October 12, 1991, and the 22nd Annual Meeting of the Eastern Orthopaedic Association, Madrid, Spain, October 19, 1991.
73. Friedman, R. J.: Experience With HA-Coated Total Hip Arthroplasty. Presented at the Intermedics Orthopaedics National Meeting, Austin, TX, November 15, 1991
74. Friedman, R.J.: Shoulder Biomechanics and the Implications for Surgery. Presented at the 9th Annual Arthritic Hip, Knee and Shoulder, Salt Lake City, UT, January 9, 1992.
75. Friedman, R.J.: Hydroxyapatite Coated Hips. Presented at the 9th Annual Arthritic Hip, Knee and Shoulder, Salt Lake City, UT, January 11, 1992.
76. An, H., Friedman, R.J., Smith, E.J., and John, J.F.: Protein Adsorption on Orthopaedic Biomaterials Using the ELISA Technique. Presented at the 38th Annual Meeting of the Orthopaedic Research Society, Washington, DC, February 17-20, 1992.
77. Friedman, R.J., Acurio, M.T., Davis, R., Claassen, B., Powers, D., Keller, J., and Grotendorst, G.: Effects of Growth Factors and Indomethacin on Fracture Healing. Presented at the 38th Annual Meeting of the Orthopaedic Research Society, Washington, DC, February 17-20, 1992.
78. Friedman, R.J., Bonutti, P.M., Norfray, J.F., and Genez, B.: Cine Magnetic Resonance Imaging of the Shoulder. Presented at the 8th Open Meeting of the American Shoulder and Elbow Surgeons, Washington, DC, February 23, 1992.
79. Friedman, R.J., for the RD Heparin Arthroplasty Group: RD Heparin Versus Warfarin in the Prevention of Deep Vein Thrombosis Following Total Hip and Knee Arthroplasty. Presented at the 59th Annual Meeting of the American Academy of Orthopaedic Surgeons, Washington, DC, February 24, 1992.

80. Friedman, R.J.: Advances in Biomaterials and Factors Affecting Implant Fixation. Presented at Instructional Course #424 "Current Concepts in Orthopaedic Biomaterials and Implant Fixation", 59th Annual Meeting of the American Academy of Orthopaedic Surgeons, Washington, DC, February 25, 1992.
81. Friedman, R.J.: Three to Five Year Results of HA Coated Total Hip Arthroplasty. Presented at the Intermedics Total Joint Workshop, Laguna, CA, April 10, 1992.
82. Friedman, R.J.: Current Status of Hydroxyapatite Total Hip Arthroplasties. Presented at the Intermedics THA Investigators Symposium, Austin, TX, May 16, 1992.
83. Friedman, R.J.: DVT - Prevention Update. Presented at the National Association of Orthopaedic Nurses Annual Meeting, Cincinnati, OH, May 20, 1992.
84. Friedman, R.J.: Indications and Management of Total Joint Replacements. Presented at the Southern Medical Association Physical Medicine and Rehabilitation in Musculoskeletal Diseases Course, Charleston, SC, June 5, 1992.
85. Friedman, R.J., Bonutti, P.M., Norfray, J.F., and Genez, B.: Cine Magnetic Resonance Imaging of the Shoulder. Presented at the 9th Combined Meeting of the English Speaking Orthopaedic Associations, Toronto, ON, June 21-26, 1992.
86. Friedman, R. J., Dorr, L.D., Gustke, K.A., et al.: Two to Four Year Results of Hydroxyapatite Total Hip Arthroplasty. Presented at the 9th Combined Meeting of the English Speaking Orthopaedic Associations, Toronto, ON, June 21-26, 1992.
87. Friedman, R.J., Lotke, P.A., Hoffmann, A.A., et al.: RD Heparin Versus Warfarin in the Prevention of Deep Vein Thrombosis Following Total Hip and Knee Arthroplasty. Presented at the 9th Combined Meeting of the English Speaking Orthopaedic Associations, Toronto, ON, June 25, 1992.
88. Friedman, R.J.: Hydroxyapatite Coated Total Hip Arthroplasty. Presented at the Intermedics Total Joint Workshop, Newport, RI, July 10, 1992.
89. Friedman, R.J.: Three to Five Year Results of HA Coated Total Hip Arthroplasty. Presented at the Intermedics Total Joint Workshop, Vail, CO, August 28, 1992.
90. McPherson, E.J., Friedman, R.J., and Dooley, R.D.: Anatomic Basis of Total Shoulder Design. Presented at the 11th Annual Meeting of the American Shoulder and Elbow Surgeons, Vail, CO, September 12, 1992.
91. Friedman, R.J., Acurio, M.T., Davis, R., Claassen, B., Powers, D., Keller, J., and Grotendorst, G.: Effects of Growth Promoting Factors on Fracture Healing. Presented at the Annual Meeting of the Orthopaedic Trauma Association, Minneapolis, MN, October 2, 1992.

92. Friedman, R.J.: Surgical Management of Arthritis in the Elderly. Presented at Arthritis and the Elderly, Charleston, SC, October 30, 1992.
93. Friedman, R. J.: Thromboembolic Disease in Total Joint Arthroplasty. Presented at Grand Rounds, University of Virginia Department of Orthopaedic Surgery, Charlottesville, VA, December 16, 1992.
94. Friedman, R.J., An, Y, Draughn, R.A., Smith, E.A., Nicholson, J., and John, J.F.: Rapiod Quantification of Staphylococci Adhered to Titanium Surfaces Using Image Analyzed Epifluorescence Microscopy. Presented at the 39th Annual Meeting of the Orthopaedic Research Society, San Francisco, CA, February 15-18, 1993.
95. Friedman, R.J.: Advances in Biomaterials to Enhance Implant Fixation. Presented at Instructional Course #103 "Current Concepts in Orthopaedic Biomaterials and Implant Fixation", 60th Annual Meeting of the American Academy of Orthopaedic Surgeons, San Francisco, CA, February 20, 1993.
96. Friedman, R.J.: Low Molecular Weight Heparin: RD Heparin Experience. Presented at Thromboembolic Disease: New Advances in Orthopaedics, San Francisco, CA, February 20, 1993.
97. Friedman, R.J., Bonutti, P.M., Genez, B.M., and Norfray, J.F.: Cine Magnetic Resonance Imaging of the Glenohumeral Joint. Presented at the 60th Annual Meeting of the American Academy of Orthopaedic Surgeons, San Francisco, CA, February 20, 1993.
98. Discussion of Shoulder Papers #221-222, 60th Annual Meeting of the American Academy of Orthopaedic Surgeons, San Francisco, CA, February 20, 1993.
99. Friedman, R.J., Bonutti, P.M., Genez, B. M., and Norfray, J.F.: Cine Magnetic Resonance Imaging of Subcoracoid Impingement. Presented at the 9th Open Meeting of the American Shoulder and Elbow Surgeons, San Francisco, CA, February 21, 1993.
100. Friedman, R.J.: Controversies in Shoulder Replacement: The Glenoid Component. Presented at the 9th Open Meeting of the American Shoulder and Elbow Surgeons, San Francisco, CA, February 21, 1993.
101. Friedman R.J., Bauer T.W., Garg K., and Draughn R.A. ; Histological And Mechanical Comparison Of Hydroxyapatite Coated Cobalt Chrome And Titanium Implants. Presented at the 19th Annual Meeting of the Society For Biomaterials, Birmingham, AL, April 28-May 2, 1993.
102. Friedman R.J., An Y., Ming J., Draughn R.A., Kessler L., and Bauer T. In Vivo Mechanical And Histological Evaluation Of Bone Ingrowth And Apposition In The Rabbit Femur. Presented at the 19th Annual Meeting of the Society For Biomaterials, Birmingham, AL, April 28- May 2, 1993.
103. An Y., Friedman R.J., Draughn R.A., Smith E., Nicholson J., and John J.F.: Rapid Quantification Of Staphylococci Adhered To Titanium Surfaces Using Image Analyzed

- Epifluorescence Microscopy. Presented at the 19th Annual Meeting of the Society For Biomaterials, Birmingham, AL, April 28-May 2, 1993.
104. An Y., Friedman R.J., Draughn R.A., Smith E., Qi C., and John. J.F.: Staphylococcal Adhesion To Orthopaedic Biomaterials. Presented at the 19th Annual Meeting of the Society For Biomaterials, Birmingham, AL, April 28-May 2, 1993.
 105. Friedman, R.J.: Biomechanics of Total Shoulder Replacement. Presented at Current Concepts in Shoulder Surgery, Charleston, SC, June 5, 1993.
 106. Friedman, R.J.: Total Shoulder Replacement In Rheumatoid Arthritis. Presented at Current Concepts in Shoulder Surgery, Charleston, SC, June 5, 1993.
 107. Friedman, R.J., Bonutti, P.M., Genez, B. M., and Norfray, J.F.: Cine Magnetic Resonance Imaging of the Glenohumeral Joint. Presented at the 45th Annual Meeting of the Association of Bone and Joint Surgeons, May 22, 1993, and the 7th Congress of the European Society for Surgery of the Shoulder and Elbow, Denmark, June 10, 1993.
 108. Friedman, R. J.: Prospective Analysis of Total Shoulder Arthroplasty Biomechanics. Presented at the 7th Congress of the European Society for Surgery of the Shoulder and Elbow, Aarhus, Denmark, June 10-12, 1993.
 109. Friedman, R.J., An, Y., Chokeski, R., and Kessler, L.: Anatomic and Biomechanical Study of Glenohumeral Contact. Presented at the 7th Congress of the European Society for Surgery of the Shoulder and Elbow, Aarhus, Denmark, June 10-12, 1993.
 110. Friedman, R.J., Bonutti, P.M., Genez, B. M., and Norfray, J.F.: Subcoracoid Impingement Syndrome. Presented at the 7th Congress of the European Society for Surgery of the Shoulder and Elbow, Aarhus, Denmark, June 10-12, 1993.
 111. Friedman, R.J.: Glenohumeral Instability - Methods of Evaluation. Presented at the American Academy of Orthopaedic Surgeons Summer Institute, New York, NY, September 11, 1993.
 112. Friedman, R.J.: Thromboembolic Disease in Total Joint Arthroplasty. Presented at Orthopaedic Grand Rounds, University of Maryland, Baltimore, MD, October 15, 1993.
 113. Friedman, R.J., Bonutti, P.M., Genez, B. M., and Norfray, J.F.: Cine Magnetic Resonance Imaging Evaluation of the Normal and Painful Shoulder. Presented at the Annual Meeting of the American Shoulder and Elbow Surgeons, Williamsburg, VA, October 31, 1993.
 114. Friedman, R.J.: The Future of Total Joint Replacements. Presented at The Foundations of the Future: Orthopaedic Nursing in the 21st Century, Charleston, SC, November 5, 1993.
 115. Friedman, R.J.: Thromboembolic Disease and Low Molecular Weight Heparins. Presented at the Cleveland Orthopaedic Surgeons Meeting, November 7, 1993.

116. Friedman, R.J.: Bioactive Ceramic Coatings. Presented at Current Concepts in Total Hip Revision Surgery. Chicago, IL, November 19, 1993.
117. Friedman, R.J.: Use of Low Molecular Weight Heparins in the Prevention of Thromboembolic disease Following Total Joint Arthroplasty. Presented at Grand Rounds, Hospital For Joint Diseases, New York, January 13, 1994.
118. Friedman, R.J.: Prevention of Thromboembolic Disease in Total Joint Arthroplasty. Presented at Texas Tech University School of Medicine, Amarillo, TX, January 21, 1994.
119. Friedman, R.J.: Biomechanics, Design and Clinical Results of Total Shoulder Arthroplasty. Presented at Texas Tech University School of Medicine, Amarillo, TX, January 22, 1994.
120. Friedman, R.J.: Use of Low Molecular Weight Heparins in the Prophylaxis of Thromboembolic Disease. Presented at St. Catherine Hospital Progress in Medicine Conference, East Chicago, IN, February 3, 1994.
121. Friedman, R.J.: Diagnosis and Treatment of Thromboembolic Disease in Orthopaedic Surgery. Presented at the Mississippi Orthopaedic Society, Jackson, MS, February 7, 1994.
122. Friedman R.J., An Y., Chokeski R., Kessler L., McPherson E.J.: Anatomic And Biomechanical Relationships Affecting Contact Patterns In The Glenohumeral Joint. Presented at the 40th Annual Meeting of the Orthopaedic Research Society, New Orleans, LA, February 21-24, 1994.
123. Friedman, R.J.: Advances in Biomaterials to Enhance Implant Fixation. Presented at Instructional Course #231 "Current Concepts in Orthopaedic Biomaterials and Implant Fixation", 61st Annual Meeting of the American Academy of Orthopaedic Surgeons, New Orleans, LA, February 26, 1994.
124. Friedman, R.J.: Thromboembolic Disease in Total Joint Arthroplasty. Presented at Orthopaedic Grand Rounds, Mount Sinai Medical Center, Miami, FL, March 9, 1994.
125. Friedman, R.J.: Diagnosis and Treatment of Thromboembolic Disease in Orthopaedic Surgery. Presented at the Richmond Orthopaedic Club, Richmond, VA, March 14, 1994.
126. Friedman, R. J., Dorr, L.D., Gustke, K.A., et al.: Four to Six Year Results of Hydroxyapatite Total Hip Arthroplasty. Presented at the 20th Annual Meeting of the Society For Biomaterials, Boston, MA, April 5- 9, 1994.
127. McDowell, S.A., An, Y., and Friedman, R. J.: Application of a Fluorescent Redox Dye for Enumeration of Metabolically Active Bacteria on Titanium Coated With Cross-Linked Albumin. Presented at the 20th Annual Meeting of the Society For Biomaterials, Boston, MA, April 5- 9, 1994.

128. McDowell, S.A., An, Y., and Friedman, R. J.: Bacterial Adhesion to Gritblasted Surfaces. Presented at the 20th Annual Meeting of the Society For Biomaterials, Boston, MA, April 5- 9, 1994.
129. Friedman, R.J.: Choices of Biomaterials in Joint Replacement. Presented at Southern Orthopaedic Association Update by the Sea for Orthopaedic Surgeons, Wrightsville Beach, NC, April 15-17, 1994.
130. Friedman, R.J.: Shoulder Replacement Arthroplasty. Presented at Southern Orthopaedic Association Update by the Sea for Orthopaedic Surgeons, Wrightsville Beach, NC, April 15-17, 1994.
131. Friedman, R.J.: DVT Prophylaxis in Joint Replacement. Presented at Southern Orthopaedic Association Update by the Sea for Orthopaedic Surgeons, Wrightsville Beach, NC, April 15-17, 1994.
132. Friedman, R.J.: Advances in Revision Hip Arthroplasty. Presented at the Intermedics Total Knee, Hip and Shoulder Seminar, Hilton Head, S.C. April 22, 1994.
133. Friedman, R.J.: Implant Management of Four-Part Fractures of the Proximal Humerus. Presented at the Intermedics Total Knee, Hip and Shoulder Seminar, Hilton Head, SC April 22, 1994.
134. Friedman, R.J.: Prophylaxis of DVT/Pulmonary Embolism. Presented at Grand Rounds, Virginia Beach General Hospital, Virginia Beach, VA, May 3, 1994.
135. Friedman, R.J., Schiff, C.F., and Bromberg, J.S.: Are Supplemental Stress Steroids Necessary in Orthopaedic Surgery? Presented at the 46th Annual Meeting of the Association of Bone and Joint Surgeons, Carlsbad, CA, May 15, 1994.
136. Friedman, R.J.: DVT Prophylaxis in Total Joint Arthroplasty. Presented at Department of Orthopaedic Surgery Grand Rounds, University of South Carolina, Columbia, SC, May 25, 1994.
137. Friedman, R.J.: Deep Venous Thrombosis: Current Concepts. Presented at Surgery Grand Rounds, Sparanburg Regional Medical Center, Spartanburg, SC, July 19, 1994.
138. Friedman, R.J.: Glenohumeral Instability - Methods of Evaluation. Presented at the American Academy of Orthopaedic Surgeons Summer Institute, Monterey, CA, September 12, 1994.
139. Wingate, J., Schiff, C.F., Friedman, R.J.: Osteonecrosis of the Humeral Head in Sickle Cell Disease. Presented at the Presented at the Annual Meeting of the American Shoulder and Elbow Surgeons, Manchester, VT, September 27, 1994.
140. Friedman, R.J.: Nerve Entrapment Syndromes About The Elbow. Presented at the 29th Congress of the Brazilian Orthopaedic and Traumatology Society, Salvador, Brazil, October 10, 1994.

141. Friedman, R.J.: Trauma of the Shoulder. Presented at the 29th Congress of the Brazilian Orthopaedic and Traumatology Society, Salvador, Brazil, October 11, 1994.
142. Friedman, R.J.: Fractures of the Distal Humerus. Presented at the 29th Congress of the Brazilian Orthopaedic and Traumatology Society, Salvador, Brazil, October 11, 1994.
143. Friedman, R.J.: Total Elbow Arthroplasty in Rheumatoid Arthritis. Presented at the 29th Congress of the Brazilian Orthopaedic and Traumatology Society, Salvador, Brazil, October 13, 1994.
144. Friedman, R.J.: Addressing the Challenges in Total Knee Arthroplasty. Presented at the Annual Meeting of the Hellenic Greek Orthopaedic and Traumatology Congress, Athens, Greece, October 26, 1994.
145. Friedman, R.J.: New Advances in the Prophylaxis of Deep Vein Thrombosis. Presented at Orthopaedic Surgery Grand Rounds, Greater Baltimore Medical Center, Baltimore, MD, November 7, 1994.
146. Friedman, R.J.: Orthopaedic Biomaterials. Presented at National Institutes of Health Public Health Service Policy on Humane Care and Use of Laboratory Animals, Charleston, SC, December 1, 1994.
147. Stuart, G.W., McDowell, S.J., McDaniel, S.E. , An, Y.H., and Friedman, R.J.: Cross-Linked Albumin Coated Surfaces To Prevent Bacterial Adhesion Onto Titanium Plates. Presented at the 41st Annual Meeting of the Orthopaedic Research Society, Orlando, FL, February 13-16, 1995, and the 21st Annual Meeting of the Society For Biomaterials, San Francisco, CA, March 18-22, 1995.
148. Friedman, R.J., An, Y.H., Draughn, R.A., Ming, J., and Bauer, T.W.: Effects of Substrate Finish on Attachment Strength, Bone Apposition and Hydroxyapatite Coating Stability. Presented at the 21st Annual Meeting of the Society For Biomaterials, San Francisco, CA, March 18-22, 1995.
149. Friedman, R.J., An, Y.H., Bannar, S.M., Latour, R.A., and Powers, D.L.: Longterm Bioabsorbable Screw Fixation In The Dog Femur. Presented at the 41st Annual Meeting of the Orthopaedic Research Society, Orlando, FL, February 13-16, 1995, and the 21st Annual Meeting of the Society For Biomaterials, San Francisco, CA, March 18-22, 1995.
150. McDowell, S.A., An, Y.H., Draughn, R.A., and Friedman, R. J.: Bacterial Adhesion to Gritblasted Surfaces. Presented at the 41st Annual Meeting of the Orthopaedic Research Society, Orlando, FL, February 13-16, 1995.
151. McDowell, S.A., An, Y., and Friedman, R. J.: Application of a Fluorescent Redox Dye for Enumeration of Metabolically Active Bacteria on Titanium Coated With Cross-Linked Albumin. Presented at the 41st Annual Meeting of the Orthopaedic Research Society, Orlando, FL, February 13-16, 1995.

152. Friedman, R.J.: Thromboembolic Complications. Presented at the Third International Course of Reconstructive Knee Surgery, Madrid, Spain, March 30-April 1, 1994.
153. Friedman, R.J.: Modular Stems and Fixation Methods in Revision Surgery. Presented at the Third International Course of Reconstructive Knee Surgery, Madrid, Spain, March 30-April 1, 1994.
154. Friedman, R.J.: Treatment of Shoulder Arthrosis and Disease With Shoulder Arthroplasty. Presented at Grand Rounds, Hospital Ruti, Zurich, Switzerland, April 4, 1995.
155. Friedman, R.J.: Anatomy and Pathophysiology of the Clavicle. Presented at AAOS - The Shoulder: A Comprehensive View, Washington, DC, April 28-30, 1995.
156. Friedman, R.J.: Rehabilitation of Rotator Cuff Tears. Presented at AAOS - The Shoulder: A Comprehensive View, Washington, DC, April 28-30, 1995.
157. Friedman, R.J.: Treatment of Chronic Dislocations. Presented at AAOS - The Shoulder: A Comprehensive View, Washington, DC, April 28-30, 1995.
158. Friedman, R.J.: Prosthetic Replacement for Osteoarthritis: Indications, Technique, Results. Presented at AAOS - The Shoulder: A Comprehensive View, Washington, DC, April 28-30, 1995.
159. Friedman, R.J.: Controversies on DVT Prophylaxis in Spinal Surgery. Presented at the 4th Annual Conference on Controversies in the Treatment of Lumbar Spine Disease, Kiawah, SC, May 12-14, 1995.
160. Friedman, R.J.: Low Molecular Weight Heparins. Presented at Orthopaedic Surgery Grand Rounds, Halifax Medical Center, Daytona Beach, FL, May 24, 1995.
161. Friedman, R.J.: Current Concepts in the Diagnosis and Management of Thromboembolic Disease. Presented at the University Club, Fort Myers, FL, June 1, 1995.
162. Friedman, R.J.: Hydroxyapatite in Primary Total Hip Arthroplasty. Presented at Reconstruction Of The Arthritic Hip And Knee , Charleston, SC, June 7-9, 1995.
163. Friedman, R.J.: Proximal Ingrowth For Femoral Component Revision. Presented at Reconstruction Of The Arthritic Hip And Knee , Charleston, SC, June 7-9, 1995.
164. Friedman, R.J., Schiff, C.F., and Bromberg, J.S.: Supplemental Stress Steroids in Orthopaedic Surgery. Presented at the 8th Congress of the European Rheumatoid Arthritis Surgical Society, Amsterdam, Netherlands, June 20-23, 1995.
165. Friedman, R.J., Dorr, L.D., Gustke, K.A., et al.: Hydroxyapatite Total Hip Arthroplasty in Inflammatory Arthritis. Presented at the 8th Congress of the European Rheumatoid Arthritis Surgical Society, Amsterdam, Netherlands, June 20-23, 1995.

166. Friedman, R.J., An, Y.H., and Draughn, R.A.: Glenohumeral Pressures and Contact Areas in Total Shoulder Arthroplasty. Presented at the 6th International Congress on Surgery of the Shoulder, Helsinki, Finland, June 27-30, 1995.
167. Wingate, J.K., Schiff, C.F., and Friedman, R.J.: Humeral Head Osteonecrosis in Sickle Cell Disease. Presented at the 6th International Congress on Surgery of the Shoulder, Helsinki, Finland, June 27-30, 1995.
168. Friedman, R.J., and Frykman, G.K.: Radioulnar Synostosis Following Repair of Distal Biceps Tendon Ruptures. Presented at the 6th International Congress on Surgery of the Shoulder, Helsinki, Finland, June 27-30, 1995.
169. Friedman, R.J., Gartsman, G., and Dooley, R.L.: Automated Data Acquisition For Outcome Research in Total Shoulder Arthroplasty. Presented at the 6th International Congress on Surgery of the Shoulder, Helsinki, Finland, June 27-30, 1995.
170. Cushner, F.D., Merrill, K., and Friedman, R.J.: Operative Fixation of Displaced Sternal Fractures. Presented at the 6th International Congress on Surgery of the Shoulder, Helsinki, Finland, June 27-30, 1995.
171. Friedman, R.J.: The Painful Shoulder. Presented at the 24th Annual Emery Miller Medical Symposium, Myrtle Beach, SC, August 3, 1995.
172. Friedman, R.J.: Acute Injuries of the Ankle and Foot. Presented at the 24th Annual Emery Miller Medical Symposium, Myrtle Beach, SC, August 3, 1995.
173. Friedman, R.J.: Deep Vein Thrombosis in Orthopaedic Surgery. Presented at the Augusta Orthopaedic Club, Augusta, GA, August 15, 1995.
174. Friedman, R.J.: Biomechanics, Design and Clinical Results of Total Shoulder Arthroplasty. Presented at Grand Rounds, Hospital of Genthin, Genthin, Germany, August 22, 1995.
175. Friedman, R.J.: Treatment of Shoulder Arthrosis and Disease With Shoulder Replacement Arthroplasty. Presented at Grand Rounds, Hospital of Gelsenkirchen, Dusseldorf, Germany, August 24, 1995.
176. Friedman, R.J.: Current Concepts in the Diagnosis and Management of Thromboembolic Disease. Presented at the Columbia Orthopaedic Club, Columbia, SC, August 29, 1995.
177. Friedman, R.J.: Glenohumeral Instability - Methods of Evaluation. Presented at the American Academy of Orthopaedic Surgeons Summer Institute, Boston, MA, September 10 and 12, 1995.
178. Friedman, R.J.: Use of Erythropoietin in Orthopaedic Surgery. Presented at Orthopaedic Conference, University of South Alabama Department of Orthopaedic Surgery, Mobile, AL, September 19, 1995.

179. Friedman, R.J.: Indications, Technique and Results of Total Shoulder Arthroplasty. Presented at Grand Rounds, University of South Alabama Department of Orthopaedic Surgery, Mobile, AL, September 20, 1995.
180. Friedman, R.J., Bromberg, J.S., and Schiff, C.F.: Supplemental Stress Steroids in Orthopaedic Surgery. Presented at the 59th Annual Meeting of the Western Orthopaedic Association, Santa Fe, NM, October 17, 1995.
181. Friedman, R.J., Bonutti, P.M., and Genez, B.M.: Diagnosis of Subcoracoid Impingement With Cine Magnetic Resonance Imaging. Presented at the 59th Annual Meeting of the Western Orthopaedic Association, Santa Fe, NM, October 17, 1995.
182. Friedman, R.J., An, Y.H., and Draughn, R.A.: Articular Geometry and Contact Pressures in Total Shoulder Arthroplasty. Presented at the 12th Annual Closed Meeting of the American Shoulder and Elbow Surgeons, La Quinta, CA, October 21, 1995.
183. Friedman, R.J.: The Role of Arthroscopy: Facts and Fiction. Presented at the 11th Annual Current Concepts in Joint replacement, Orlando, FL, December 15, 1995.
184. Friedman, R.J.: LMWH Anticoagulant Prophylaxis: A New Gold Standard. Presented at the 11th Annual Current Concepts in Joint replacement, Orlando, FL, December 16, 1995.
185. Friedman, R.J.: Surgical Technique of Total Shoulder Arthroplasty. Presented at the Third Annual Current Concepts of Shoulder and Elbow Surgery, Tampa, FL, January 26, 1996.
186. An, Y., Bradley, J., Powers, D., and Friedman, R.J.: Preventing Prosthetic Infection Using a Crosslinked Albumin Coating In Vivo. Presented at the 42st Annual Meeting of the Orthopaedic Research Society, Atlanta, GA, February 18-22, 1996.
187. An, Y., Kang, Q., Draughn, R., and Friedman, R.J.: Effects of Carrageenan Induced Arthritis on Periarticular Bone in the Rabbit Knee. Presented at the 42st Annual Meeting of the Orthopaedic Research Society, Atlanta, GA, February 18-22, 1996.
188. Friedman, R.J., An, Y., Bannar, S.M., Latour, R.A., and Powers, D.L.: Fracture Fixation Using Bioabsorbable Screws in the Canine Femur. Presented at the 63rd Annual Meeting of the American Academy of Orthopaedic Surgeons, Atlanta, GA, February 22-26, 1996.
189. Discussion of Shoulder Papers #20-22, 12th Open Meeting of the American Shoulder and Elbow Surgeons, Atlanta, GA, February 25, 1996.
190. Friedman, R.J.: Current Concepts in the Diagnosis and Treatment of Deep Vein Thrombosis Following Total Joint Arthroplasty. Presented at Orthopaedic Surgery Grand Rounds, University of Tennessee, Chattanooga, TN, February 27, 1996.

191. Friedman, R.J.: Total Shoulder Replacement - Technique. Presented at Strategic Approaches to Shoulder Instability, Fractures and Reconstruction, American Academy of Orthopaedic Surgeons, Chicago, IL, April 19-21, 1996.
192. Friedman, R.J.: Biomechanics of the Rotator Cuff. Presented at the European Symposium of the Shoulder: The Rotator Cuff, St. Etienne, France, April 26-28, 1996.
193. Friedman, R.J.: Standardized Shoulder Assessment Form. Presented at the European Symposium of the Shoulder: The Rotator Cuff, St. Etienne, France, April 26-28, 1996.
194. Friedman, R.J.: Shoulder Stiffness. Presented at the European Symposium of the Shoulder: The Rotator Cuff, St. Etienne, France, April 26-28, 1996.
196. Friedman R.J., An Y.H., Draughn R.A.: Conformity And Contact Pressures In Total Shoulder Arthroplasty. Presented at the 5th World Biomaterials Congress, Toronto, May 28-June 2, 1996.
197. Friedman R.J., An H., Wingate J., Draughn R.A., Latour R.A., Powers D.L.: Bioabsorbable Screw Fixation of Distal Femoral Osteotomies in the Dog. Presented at the 5th World Biomaterials Congress, Toronto, May 28-June 2, 1996.
198. An Y.H., Bradley, J., Powers, D.L., Friedman R.J.: Preventing Prosthetic Infection Using A Crosslinked Albumin Coating in Vivo. Presented at the 5th World Biomaterials Congress, Toronto, May 28-June 2, 1996.
199. Friedman R.J., An Y.H., Jiang, M., Butehorn, H.F., Draughn R.A., Bauer, T.W.: Bone Ingrowth Into Porous and HA Coated Titanium Implants In Experimental Inflammatory Arthritis. Presented at the 5th World Biomaterials Congress, Toronto, May 28-June 2, 1996.
200. Friedman, R.J.: Biomechanics and Designs of Total Shoulder Arthroplasty. Presented at Grand Rounds, Wiesbaden Orthopaedic University Clinic, Wiesbaden, Germany, September 9, 1996.
201. Friedman, R.J.: Total Shoulder Arthroplasty. Presented at Grand Rounds, Rothenburg Orthopaedic Clinic, Rothenburg, Germany, September 11, 1996.
202. Friedman, R.J.: Total Shoulder Arthroplasty in Osteoarthritis. Presented at Plus Endoprothetik Shoulder Symposium, Rotkreuz, Switzerland, September 12, 1996.
203. Friedman, R.J.: Revision Total Knee Arthroplasty. Presented at Second Basel International Knee Congress and Instructional Course, Basel, Switzerland, September 26, 1996.
204. Friedman, R.J.: Current Therapy For Prevention of Deep Vein Thrombosis. Presented at the 21st Annual New Jersey Orthopaedic Symposium, Somerset, N.J., October 12, 1996.

205. Friedman, R.J.: Evaluation and treatment of Shoulder Instability. Presented at the 21st Annual New Jersey Orthopaedic Symposium, Somerset, N.J., October 12, 1996.
206. Friedman, R.J., Gartsman, G.M., and Dooley, R.L.: Automated Data Acquisition for Outcome Research in Total Shoulder Arthroplasty. Presented at the 13th Annual Closed Meeting of the American Shoulder and Elbow Surgeons, Amelia Island, FL, October 19, 1996.
207. Panel Moderator for The Irreparable Rotator Cuff Tear, Presented at the American Academy of Orthopaedic Surgeons Strategic Management of the Shoulder: Rotator Cuff, Instability and Decompression, Chicago, IL, November 8, 1996.
208. Friedman, R.J.: Current Concepts in DVT Prophylaxis Following Total Joint Arthroplasty. Presented at Grand Rounds, Medical Center East, Birmingham, AL, January 7, 1997.
209. Friedman, R.J.: Arthroplasty of the Shoulder: Evaluation, Indications and Technique. Presented at the Fourth Annual Current Concepts of Shoulder and Elbow Surgery, Tampa, FL, January 17, 1997.
210. Friedman, R.J.: Mechanical Conception and Technical Specificities of Shoulder Prostheses. Presented at Shoulder Arthropathies and Arthroplasties, Paris, France, January 27, 1997.
211. Friedman, R.J.: Shoulder Arthroplasty With A Glenoid Component. Presented at Shoulder Arthropathies and Arthroplasties, Paris, France, January 27, 1997.
212. Friedman, R.J.: Total Shoulder Replacement: Indications and Results. Presented at Shoulder Arthropathies and Arthroplasties, Paris, France, January 27, 1997.
213. Friedman, R.J., An, Y.H., Jiang, M., Butehorn, H.F., Draughn, R.A., Bauer T.W.: Bone Ingrowth Into Implant Surfaces in Experimental Inflammatory Arthritis. Presented at the 43rd Annual Meeting of the Orthopaedic Research Society, San Francisco, CA, February 10, 1997
214. Friedman, R.J., An, Y.H., and Draughn, R.A.: Glenohumeral Congruency in Total Shoulder Arthroplasty. Presented at the 64th Annual Meeting of the American Academy of Orthopaedic Surgeons, San Francisco, CA, February 13, 1997.
215. Friedman, R.J.: Current Concepts in DVT Prophylaxis Following Total Knee Arthroplasty. Presented at Options in Prophylaxis of Deep Vein Thrombosis Following Joint Replacement Surgery, San Francisco, CA, February 13, 1997.
216. Friedman, R.J.: Discussion of Papers #349-351, 64th Annual Meeting of the American Academy of Orthopaedic Surgeons, San Francisco, CA, February 15, 1997.
217. Friedman, R.J., An, Y.H., Wingate, J.K., Draughn, R.A., Latour, R.A., and Powers, D.L.: Fixation of Distal Femoral Osteotomies With Bioabsorbable Screws. Presented at the

- 64th Annual Meeting of the American Academy of Orthopaedic Surgeons, San Francisco, CA, February 17, 1997.
218. Friedman, R.J.: Thromboembolic Disease Following Total Joint Arthroplasty. Presented at the Cleveland Orthopaedic Society, Cleveland, OH, March 1, 1997.
 219. Friedman, R.J.: Prophylaxis For DVT Following Total Joint Arthroplasty. Presented at the Northeast Florida Orthopaedic Society, Jacksonville, FL, April 10, 1997.
 220. An, Y.H., Kang, Q., Friedman, R.J., and Young, F.A.: The Effect of Bone Microstructure on Screw Pull-out Strength. Presented at the 23rd Annual Meeting of the Society For Biomaterials, April 30-May 4, 1997, New Orleans, LA.
 221. An, Y.H., LaBreck, J.C., Lewis, J.L., and Friedman, R.J.: Rabbit Scapular Is An Ideal Source Of Chondrocytes For Autogenic Cell Seeding. Presented at the 23rd Annual Meeting of the Society For Biomaterials, April 30-May 4, 1997, New Orleans, LA.
 222. Patterson, K., An, Y.H., Tian, Y., Wheeler, A., Mount, A., LaBreck, J.C., Kang, Q., LaBerge, M. and Friedman, R.J.: A Novel Osteoblastic-Laden HA/Collagen Scaffold For Treatment Of Osseous Defects. Presented at the 23rd Annual Meeting of the Society For Biomaterials, April 30-May 4, 1997, New Orleans, LA.
 223. An, Y.H., Friedman, R.J., and Young, F.A.: A New Artificial ACL Anchor. Presented at the 23rd Annual Meeting of the Society For Biomaterials, April 30-May 4, 1997, New Orleans, LA.
 224. Brothers, T.E., Frank, C.E., Frank, B., Robison, J.G., Elliott, B.M., Scutte, H.D., Merrill, K.D., and Friedman, R.J.: Duplex Venous Surveillance Following Total Joint Arthroplasty. Presented at the 49th Annual Meeting of the Association of Bone and Joint Surgeons, May 2, 1997.
 225. Friedman, R.J.: Current Concepts in DVT Prophylaxis Following Total Joint Arthroplasty. Presented at Grand Rounds, Department of Orthopaedic Surgery, University of Virginia, Charlottesville, VA, May 14, 1997.
 226. An, Y.H., Butchorn, H.F., LaBreck, J., Siffri, P., and Friedman, R.J.: In Vitro Bone Culture and Formation on Biomaterial Surfaces. Presented at the 31st Annual Meeting of the Canadian Orthopaedic Research Society, Hamilton, ON, May 31, 1997.
 227. Friedman, R.J., De Andrade, J.R., Goldberg, M.A., Larholt, K., and Frei, D.: Perioperative Recombinant Human Erythropoietin Reduces Transfusion Requirements in Major Elective Orthopaedic Surgery. Presented at the 52nd Annual Meeting of the Canadian Orthopaedic Association, Hamilton, ON, June 2, 1997.
 228. Friedman, R.J., An, Y.H., and Draughn, R.A.: Glenohumeral Congruency In Total Shoulder Arthroplasty. Presented at the 52nd Annual Meeting of the Canadian Orthopaedic Association, Hamilton, ON, June 2, 1997.

229. Friedman, R.J.: Prevention, Evaluation and Treatment of the Infected Total Knee Arthroplasty. Presented at Current Concepts in Arthroplasty, Nevis, West Indies, June 27, 1997.
230. Friedman, R.J.: Thromboembolic Disease - Prevention, Diagnosis and Treatment. Presented at Current Concepts in Arthroplasty, Nevis, West Indies, June 27, 1997.
231. Friedman, R.J.: Management of Postoperative Thromboembolic Disease In Orthopaedic Patients. Presented at Orthopaedic Grand Rounds, Wake Medical Center, Raleigh, NC, August 15, 1997.
232. Friedman, R.J.: Documentation and Guidelines for Evaluation and Management Services. Presented at the American Academy of Orthopaedic Surgeons Summer Institute, Washington, DC, September 3, 1997.
233. Friedman, R.J.: Open Rotator Cuff Repair: Indications and Technique. Presented at the American Academy of Orthopaedic Surgeons Summer Institute Techniques in Shoulder Surgery, Washington, DC, September 3, 1997.
234. Friedman, R.J.: Shoulder Instability: Methods of Evaluation. Presented at the American Academy of Orthopaedic Surgeons Summer Institute Techniques in Shoulder Surgery, Washington, DC, September 4, 1997.
235. Friedman, R.J.: Bankart Repair - Live Surgical Demonstration. Presented at the American Academy of Orthopaedic Surgeons Summer Institute Techniques in Shoulder Surgery, Washington, DC, September 4, 1997.
236. Friedman, R.J.: Operative Treatment of Two and Three Part Proximal Humerus Fractures. Presented at the American Academy of Orthopaedic Surgeons Summer Institute Techniques in Shoulder Surgery, Washington, DC, September 5, 1997.
237. Friedman, R.J.: DVT Prophylaxis in Total Joint Arthroplasty. Presented at Grand Rounds, Department of Orthopaedic Surgery, Medical College of Virginia, Richmond, VA, September 12, 1997.
238. Friedman, R.J.: Indications, Technique and Results of Total Shoulder Arthroplasty. Presented at Grand Rounds, Department of Orthopaedic Surgery, Medical College of Virginia, Richmond, VA, September 12, 1997.
239. Friedman, R.J.: Modular Total Shoulder Arthroplasty. Presented at the 10th Annual Meeting of the European Society For Surgery of the Shoulder and Elbow, Salzburg, Austria, September 15, 1997.
240. Friedman, R.J.: DVT Prophylaxis in Total Joint Arthroplasty. Presented at Grand Rounds, Department of Orthopaedic Surgery, University of Miami, Miami, FL, October 23, 1997.

241. Friedman, R.J.: Current Concepts In Thee Diagnosis And Treatment Of Thromboembolic Disease In Total Joint Arthroplasty. Presented at Grand Rounds, Department of Orthopaedic Surgery, University of Texas Southwest Medical Center, Dallas, TX, November 5, 1997.
242. Spiro, T., Comp, P.C., Friedman, R.J., et al.: Double Blind Multicenter Trial Comparing Long Term Enoxaparin and Placebo Treatments in the Prevention of Venous Thromboembolic Disease After Hip and Knee Replacement Surgery. Presented at the 7th Annual Fall Meeting of the American Association of Hip and Knee Surgeons, Dallas, TX, November 8, 1997.
243. Friedman, R.J., Butler, J.E., Zimlich, R.H., Tidd, A., and Schutte, H.D.: Preoperative Hemoglobin as a Predictor of Transfusion Risk in Total Hip and Knee Arthroplasty. Presented at the 7th Annual Fall Meeting of the American Association of Hip and Knee Surgeons, Dallas, TX, November 8, 1997.
244. Friedman, R.J.: Prevention of Deep Vein Thrombosis in the Hip and Knee Arthroplasty Patient. Presented at Current Trends in the Management of Venous Thromboembolic Disease, Atlanta, GA, November 12, 1997.
245. Friedman, R.J.: Foundation Total Hip Arthroplasty. Presented at the Encore Orthopaedics Clinical Symposium, Charleston, SC, November 15, 1997.
246. Friedman, R.J.: Foundation Total Shoulder Arthroplasty. Presented at the Encore Orthopaedics Clinical Symposium, Charleston, SC, November 15, 1997.
247. Friedman, R.J.: Prevention of DVT Following Total Hip and Knee Arthroplasty. Presented at Grand Rounds, Department of Orthopaedic Surgery, New England Baptist Hospital, Boston, MA, November 19, 1997.
248. Friedman, R.J.: DVT Following Total Hip and Knee Arthroplasty. Presented at Grand Rounds, Department of Orthopaedic Surgery, Ohio State University, Columbus, OH, December 4, 1997.
249. Friedman, R.J.: Low Molecular Weight Heparin vs. Placebo in Hip and Knee Replacement Surgery. Presented at the Update on Long Term Prophylaxis for Deep Vein Thrombosis and Pulmonary Embolism, Orlando, FL, December 12, 1997.
250. Friedman, R.J.. Arthritis of the Shoulder: Pathology. Presented at the 5th Annual Current Concepts of Shoulder and Elbow Surgery, Tampa, FL, January 23, 1998.
251. Friedman, R.J.. Total Elbow Arthroplasty. Presented at the 5th Annual Current Concepts of Shoulder and Elbow Surgery, Tampa, FL, January 23, 1998.
252. Faculty member, AO/ASIF Orthopaedic Trauma: Team Approach to Fracture Management, Charleston, SC, March 13, 1998.

253. Friedman, R.J., Spiro, T., Comp, et al.: Double Blind Trial Comparing Long-Term Enoxaparin and Placebo in the Prevention of Thromboembolic Disease After Total Hip and Knee Arthroplasty. Presented at the 65th Annual Meeting of the American Academy of Orthopaedic Surgeons, March 20, 1998.
254. Stulber, B., Bechtold, J.E., Friedman, R.J., et al: Limits of UHMWPE Longevity: Design, Material and Clinical Factors. Presented at the 65th Annual Meeting of the American Academy of Orthopaedic Surgeons, March 19-23, 1998.
255. Friedman, R.J.: Extended DVT Prophylaxis. Presented at Prophylaxis of Deep Vein Thrombosis in Orthopaedic Surgery: Current Trends, New Orleans, LA, March 20, 1998.
256. Friedman, R.J.: Future Developments in DVT Prophylaxis. Presented at Prophylaxis of Deep Vein Thrombosis in Orthopaedic Surgery: Current Trends, New Orleans, LA, March 20, 1998.
257. Moderator, Papers #17-20, American Shoulder and Elbow Surgeons 14th Open Meeting, New Orleans, LA, March 22, 1998.
258. Friedman, R.J.: Preventing Complications Following Total Hip and Knee Arthroplasty. Presented at Orthopaedic Grand Rounds, Baylor University Medical Center, Dallas, TX, April 22, 1998.
259. Friedman, R.J.: Total Shoulder Arthroplasty. Presented as The President's Lecture, Philadelphia Orthopaedic Society, Philadelphia, PA, May 11, 1998.
260. Friedman, R.J.: Prophylaxis of Deep Vein Thrombosis. Presented at the Annual Meeting of the Florida Orthopaedic Society, Coral Gables, FL, May 15, 1998.
261. Friedman, R.J.: Cemented Total Hip Arthroplasty. Presented at the Encore Orthopaedics Spring Symposium, Scottsdale, AZ, May 16, 1998.
262. Friedman, R.J.: Technique and Results of Total Shoulder Arthroplasty. Presented at the Encore Orthopaedics Spring Symposium, Scottsdale, AZ, May 16, 1998.
263. Friedman, R.J., Lipman, A.J., and Schutte, H.D.: Failure of a Femoral Neck Retaining Total Hip Arthroplasty. Presented at the 111th Annual Meeting of the American Orthopaedic Association, Asheville, NC, June 4, 1998.
264. Friedman, R.J., Bonutti, P.M., and Chesniak, R.M.: Cine Magnetic Resonance Imaging For The Evaluation of Shoulder Instability. Presented at the 50th Annual Meeting of the Association of Bone and Joint Surgeons, June 26, 1998.
265. Friedman, R.J.: Shoulder Instability: Methods of Evaluation and Diagnosis Presented at the American Academy of Orthopaedic Surgeons Summer Institute Techniques in Shoulder Surgery, Rosemont, IL, September 10, 1998.

266. Friedman, R.J., Spiro, T, Comp, P.C., et. al.: Double Blind Trial Comparing Long-Term Enoxaparin and Placebo in the Prevention of Thromboembolic Disease After Total Hip and Knee Arthroplasty. Presented at the 67th Annual Meeting of the Royal College of Physician and Surgeons of Canada, Toronto, ON, September 26, 1998.
267. Friedman, R.J.: DVT Management. Presented at the Tenth Annual Conference on Techniques and Science for Successful Joint Arthroplasty, Burlington, VT, October 8, 1998.
268. Friedman, R.J.: Infection Management. Presented at the Tenth Annual Conference on Techniques and Science for Successful Joint Arthroplasty, Burlington, VT, October 8, 1998.
269. Friedman, R.J.: Use of Erythropoietin In Orthopaedic Surgery. Presented at the 29th Annual Meeting of the Eastern Orthopaedic Association, San Juan, PR, October 16, 1998.
270. Friedman, R.J.: Deep Vein Thrombosis in Orthopaedic Surgery. Presented at Current Strategies for the Prevention and Treatment of Thromboembolism in the Rehabilitation Patient, Seattle, WA, November 4, 1998.
271. Moderator for Total Shoulder Arthroplasty Session, American Shoulder and Elbow Surgeons 15th Annual Closed Meeting, New York, NY, November 8, 1998.
272. Friedman, R.J.: Total Shoulder Arthroplasty: Indications, Technique and Results. Presented at the AAOS Current Techniques in Open and Arthroscopic Shoulder Surgery, Rosemont, IL, November 14, 1998.
273. Friedman, R.J.: Total Shoulder Arthroplasty: Indications, Technique and Results. Presented at the AAOS Shoulder Surgery: Focused Perspectives on Open vs. Arthroscopic Management, Rosemont, IL, November 14, 1998.
274. Moderator for Live Video Demonstration: Total Shoulder Arthroplasty, AAOS Current Techniques in Open and Arthroscopic Shoulder Surgery, Rosemont, IL, November 14, 1998.
275. Friedman, R.J.: Proximal Humerus Fractures: Hemiarthroplasty. Presented at the AAOS Current Techniques in Open and Arthroscopic Shoulder Surgery, Rosemont, IL, November 15, 1998.
276. Moderator for Live Video Demonstration: Proximal Humerus Fractures - Hemiarthroplasty, AAOS Current Techniques in Open and Arthroscopic Shoulder Surgery, Rosemont, IL, November 15, 1998.
277. Friedman, R.J.: Blood Conservation in Orthopaedic Surgery. Presented at Grand Rounds, Southdale Hospital, Edina, MN, December 3, 1998.

278. An, Y., Mironov, V., Gutowska, A., LaBreck, J., Markwald, R., and Friedman, R.J.: Propagation of Chondrocytes Using A Thermoensitive Polymer Gel Culture. Presented at the 45th Annual Meeting of the Orthopaedic Research Society, Anaheim, CA, February 1-4, 1999.
279. Friedman, R.J., Morrow, D.L., and Tidd, A. Restoration of Glenohumeral Anatomy Following Total Shoulder Arthroplasty. Presented at the 66th Meeting of the American Academy of Orthopaedic Surgeons, Anaheim, CA, February 5, 1999.
280. Friedman, R.J.: Extended DVT Prophylaxis and the Optimal Duration of Therapy. Presented at Current Challenges and Controversies for DVT Prophylaxis after Total Joint Arthroplasty, Anaheim, CA, February 5, 1999.
281. Friedman, R.J.: Low Molecular Weight Heparin in Orthopaedic Surgery. Presented at Instructional Course #409 "Thromboembolic Disease", 66th Meeting of the American Academy of Orthopaedic Surgeons, Anaheim, CA, February 8, 1999.
282. Friedman, R.J.: Primary Shoulder Arthroplasty. Presented at the 21st Biennial SICOT World Congress, Sydney, Australia, April 19, 1999.
283. Friedman, R.J.: Restoration of Glenohumeral Anatomy Following Total Shoulder Arthroplasty. Presented at the 21st Biennial SICOT World Congress, Sydney, Australia, April 21, 1999.
284. Chairman, Shoulder Arthroplasty Symposium, 21st Biennial SICOT World Congress, Sydney, Australia, April 21, 1999.
285. Friedman, R.J.: Primary Shoulder Arthroplasty. Presented at the Long Island Joint Replacement Association, Farmingdale, New York, May 6, 1999.
286. Friedman, R.J.: Total Shoulder Arthroplasty in Rheumatoid Arthritis. Presented at the Abraham Weinstein Distinguished Lecture Series in Orthopaedic Surgery, Long Island Jewish Hospital, New Hyde Park, New York, May 7, 1999.
287. Friedman, R.J., Stowell, C.P., Chandler, H., et. al.: Perioperative Erythropoietin Compared to Autologous Donation in Total Hip and Knee Arthroplasty. Presented at the 51st Annual Meeting of the Association of Bone and Joint Surgeons, Amelia Island, Florida, May 14, 1999.
288. Friedman, R.J.: Shoulder Arthritis Overview. Presented at the 6th Annual Current Concepts of Shoulder and Elbow Surgery, Tampa, FL, June 4, 1999.
289. Friedman, R.J.: Total Elbow Arthroplasty. Presented at the 6th Annual Current Concepts of Shoulder and Elbow Surgery, Tampa, FL, June 4, 1999.
290. Friedman, R.J.: Use of Animal Models in Orthopaedic Research. Presented at the Portland Bone Symposium, Portland, OR, August 5, 1999.

291. Friedman, R.J.: DVT Prophylaxis. Presented at the 2nd Annual Insall Scott Kelly Institute Sports Medicine and Total Knee Symposium, New York, NY, September 18, 1999.
292. Friedman, R.J.: Instability Exam and Patient Selection. Presented at the American Academy of Orthopaedic Surgeons Summer Institute 99, Seattle, WA, September 25, 1999.
293. Friedman, R.J.: Total Shoulder Arthroplasty –Live Surgical Demonstration. Presented at the American Academy of Orthopaedic Surgeons Summer Institute 99, Seattle, WA, September 25, 1999.
294. Friedman, R.J.: Hemiarthroplasty for Four Part Fractures. Presented at the American Academy of Orthopaedic Surgeons Summer Institute 99, Seattle, WA, September 26, 1999.
295. Friedman, R.J.: CPT Coding For the Shoulder Surgeon. Presented at the 16th Annual Meeting of the American Shoulder and Elbow Surgeons, Philadelphia, PA, October 16, 1999.
296. Friedman, R.J.: Restoration of Glenohumeral Anatomy Following Total Shoulder Arthroplasty. Presented at the 16th Annual Meeting of the American Shoulder and Elbow Surgeons, Philadelphia, PA, October 17, 1999.
297. Friedman, R.J.: Update on Total Shoulder Arthroplasty. Presented at the 19th Annual Hennepin County Medical Center Orthopaedic and Trauma Seminar, Minneapolis, MN, November 18, 1999.
298. Friedman, R.J.: DVT Prophylaxis. Presented at the 19th Annual Hennepin County Medical Center Orthopaedic and Trauma Seminar, Minneapolis, MN, November 18, 1999.
299. Moderator, Postoperative Rehabilitation and Functional Evaluation. Presented at Shoulder Arthroplasty – Past and Future, Paris, France, January 24, 2000.
300. Moderator, Rheumatoid Arthritis. Presented at Shoulder Arthroplasty – Past and Future, Paris, France, January 24, 2000.
301. Friedman, R.J.: Are Anatomic Prostheses A Real Advance? Presented at Shoulder Arthroplasty – Past and Future, Paris, France, January 25, 2000.
302. Friedman, R.J.: Clinical Trials With Low Molecular Weight Heparins. Presented at the Aventis Orthopaedic Consultants Summit, Sannibel Is., FL, February 5, 2000.
303. Friedman, R.J.: Pharmacoeconomic Issues of LMWH Prophylaxis Patient Management. Presented at the Aventis Orthopaedic Consultants Summit, Sannibel Is., FL, February 5, 2000.

304. Friedman, R.J.: Five Year Results of Foundation Total Shoulder Arthroplasty. Presented at the Encore Shoulder/Trauma AAOS Meeting, Orlando, FL, March 15, 2000.
305. Friedman, R.J.: Clinical Outcomes and Extended Prrophylaxis. Presented at the Update on Thrombosis: Management of the Surgical Patient, Orlando, FL, March 16, 2000.
306. Friedman, R.J., Heit, J.A., and Morrey, B.F.: Extended DVT Prophylaxis Following Total Hip or Knee Arthroplasty. Presented at the 52nd Annual Meeting of the Association of Bone and Joint Surgeons, San Antonio, TX, May 17-21, 2000.
307. Friedman, R.J.: Blood Conservation in Orthopaedic Surgery. Presented at Grand Rounds, Beth Israel Medical Center, New York, NY, June 22, 2000.
308. Friedman, R.J.: Total Shoulder Arthroplasty. Presented at the Tarrant County Orthopaedic Society, Fort Worth, TX, August 24, 2000.
309. Friedman, R.J.: Prevention and Treatment of Complications Following Total Shoulder Arthroplasty. Presented at the American Academy of Orthopaedic Surgeons Summer Institute 2000, Toronto, ON, September 9, 2000.
310. Friedman, R.J.: Hemiarthroplasty for Four Part Fractures. Presented at the American Academy of Orthopaedic Surgeons Summer Institute 2000, Toronto, ON, September 10, 2000.
311. Friedman, R.J.: Current Concepts in DVT Prophylaxis Following Total Joint Arthroplasty. Presented at Grand Rounds, Department of Orthopaedic Surgery, Emory University, Atlanta, GA, September 26, 2000.
312. Friedman, R.J.: Blood Conservation Strategies in Orthopaedic Surgery. Presented at the San Antonio Orthopaedic Society, San Antonio, TX, September 27, 2000.
313. Friedman, R.J.: Prevention of DVT in the Rehabilitation Patient. Presented at the Annual Meeting of the American Academy of Physical Medicine and Rehabilitation, San Francisco, CA, November 1, 2000.
314. Friedman, R.J.: Principles and Results of Shoulder Arthropasty. Presented at Spectrum of Orthopaedics, Vail, CO, January 4, 2001.
315. Friedman, R.J.: Pathology of Shoulder Arthritis. Presented at Spectrum of Orthopaedics, Vail, CO, January 4, 2001.
316. Friedman, R.J.: Deep Vein Thrombosis. Presented at Spectrum of Orthopaedics, Vail, CO, January 4, 2001.
317. Friedman, R.J.: Venous Thromboembolic Disease in Orthopaedic Surgery. Presented at the Washington Orthopaedic Society, February 12, 2001.

318. Friedman, R.J.: Management of VTE: Reaching Concensus. Presented at Decisions in Total Hip Arthroplasty, San Francisco, CA, March 1, 2001.
319. Friedman, R.J.: Emerging Antithrombotic Therapies. Presented at the Lovenox Orthopaedic Consultants Summit, Amelia Islands, FL, March 30-April 1, 2001.
320. Friedman, R.J.: Risk Stratification and Prophylaxis in Thromboembolic Disease. Presented at What Lies Beneath – A Look At Thromboembolic Disease, Coral Gables, FL, May 4, 2001.
321. Friedman, R.J.: Acromioclavicular Joint Arthritis and Osteolysis. Presented at the American Academy of Orthopaedic Surgeons The Shoulder: A Comprehensive Update, Santa Ana Pueblo, NM, May 18, 2001.
322. Friedman, R.J., Burkhead, W.Z., and Warner, J.J.P.: Coding and Billing for Shoulder Procedures. Presented at the American Academy of Orthopaedic Surgeons The Shoulder: A Comprehensive Update, Santa Ana Pueblo, NM, May 18, 2001.
323. Friedman, R.J.: Proximal Humeral Malunions and Nonunions. Presented at the American Academy of Orthopaedic Surgeons The Shoulder: A Comprehensive Update, Santa Ana Pueblo, NM, May 19, 2001.
324. Friedman, R.J., Burkhead, W.Z., Williams, G.R., and Yamaguchi, K.: Rotator Cuff. Presented at the American Academy of Orthopaedic Surgeons The Shoulder: A Comprehensive Update, Santa Ana Pueblo, NM, May 19, 2001.
325. Friedman, R.J.: Risk Stratification and Prophylaxis in Thromboembolic Disease. Presented at What Lies Beneath – A Look At Thromboembolic Disease, San Diego, CA, June 8, 2001.
326. Friedman, R.J.: Future of DVT Prophylaxis. Presented at the 18th Annual Meeting of the Southern Orthopaedic Association, Coeur d'Alene, Idaho, July 20, 2001.
327. Friedman, R.J.: Prevention and Treatment of Complications Following Total Shoulder Arthroplasty. Presented at the American Academy of Orthopaedic Surgeons Summer Institute 2001, San Diego, CA, September 7 & 9, 2001.
328. Friedman, R.J.: Total Shoulder Arthroplasty: Prosthetic Design and Technique. Presented at the American Academy of Orthopaedic Surgeons Summer Institute 2001, San Diego, CA, September 6 & 8, 2001.
329. Friedman, R.J.: Total Shoulder Arthroplasty. Presented at the Annual Meeting of the Riordan Hand Society, Charleston, SC October 20, 2001.
330. Friedman, R.J.: CPT Coding for the Orthopaedic Surgeon. Presented at the Annual Meeting of the Riordan Hand Society, Charleston, SC October 20, 2001.

331. Moderator, Total Shoulder Arthroplasty. Presented at the Annual Meeting of the American Shoulder and Elbow Surgeons, Napa, CA, October 25, 2001.
332. Friedman, R.J.: Anti-Thrombotic Therapies in Research and Development. Presented at the Aventis Closed Consultants Meeting, Scottsdale, AZ, November 16, 2001.
333. Friedman, R.J.: New Agents for Orthopaedic Prophylaxis. Presented at the Aventis Closed Consultants Meeting, Scottsdale, AZ, November 16, 2001.
334. Friedman, R.J.: Blood Conservation During Orthopaedic Surgery. Presented at Optimizing Management in Orthopaedic Surgery: Issues and Controversies, Orlando, FL, December 14, 2001
335. Friedman, R.J.: TSA Design, Techniques and Results. Presented at Orthopaedic Review Symposium, Vail, Co, January 3, 2002.
336. Friedman, R.J.: DVT Prophylaxis. Presented at Orthopaedic Review Symposium, Vail, Co, January 4, 2002.
337. Friedman, R.J.: Overview Comparison of Current Total Shoulder Systems. Presented at Current Concepts of Shoulder and Elbow Surgery, Tampa, FL, January 11, 2002.
338. Moderator, Live Demonstration of Total Shoulder Arthroplasty. Presented at Current Concepts of Shoulder and Elbow Surgery, Tampa, FL, January 11, 2002.
339. Friedman, R.J., Newman, M.A, Jessup, D.E., Bal, B.S., and Longo, J.A.: Prospective Randomized Study Comparing Ceramic/Ceramic and Ceramic/Polyethylene Bearing Surfaces in Total Hip Arthroplasty. Presented at the 69th Annual Meeting of the American Academy of Orthopaedic Surgeons, February 13, 2002.
340. Friedman, R.J.: Preventing Postoperative VTE: New Developments in Prophylaxis. Presented at Advances in the Management of Orthopaedic Surgery Patients, Dallas, TX, February 13, 2002.
341. Friedman, R.J.: Prolonged Prophylaxis After Hip or Knee Replacement. Presented at Balancing Benefit and Risk in Orthopaedic Thromboprophylaxis, Dallas, TX, February 15, 2002.
342. Friedman, R.J.: Arixtra Overall Results and the Effect of Timing of Administration. Presented at Resolving the Problems of DVT Prophylaxis with Selective Factor Xa Inhibition, Tucson, AZ, March 16, 2002.
343. Friedman, R.J.: Risk Stratification and VTE Prophylaxis in the Orthopaedic Surgical Patient. Presented at the Aventis National Consultants Meeting, Chicago, IL, March 23, 2002.
344. Friedman, R.J.: Ceramic on Ceramic Total Hip Arthroplasty. Presented at the 19th Annual Meeting of the Southern Orthopaedic Association, Florence, Italy, April 4, 2002.

345. Friedman, R.J.: Total Shoulder Arthroplasty Technique. Presented at Advances in Total Joint Arthroplasty and Sports Medicine Symposium, Key West, FL, May 4, 2002.
346. Friedman, R.J.: Prevention and Treatment of Complications in Total Shoulder Arthroplasty. Presented at Advances in Total Joint Arthroplasty and Sports Medicine Symposium, Key West, FL, May 4, 2002.
347. Friedman, R.J.: DVT Prophylaxis in the Orthopaedic Patient. Presented at the Lovenox Area Consultant Forum 2002, New Orleans, LA, May 17, 2002.
348. Friedman, R.J.: Anti-Xa Inhibitors for the Prevention of VTE Following Total Hip and Knee Arthroplasty. Presented at Vanderbilt University department of Orthopaedic Surgery Grand Rounds, Nashville, TN, June 14, 2002.
349. Friedman, R.J.: Communicating the Need For Risk Stratification and VTE Prophylaxis in the Surgical Patient. Presented at the Lovenox Area Consultant Forum 2002, Charlotte, NC June 21, 2002.
350. Friedman, R.J.: Selection of Appropriate Prophylaxis in the Surgical Patient. Presented at the Lovenox Area Consultant Forum 2002, Charlotte, NC June 21, 2002.
351. Friedman, R.J.: Thromboprophylaxis in the Non Total Joint Replacement Patient. Presented at Thromboprophylaxis With Low Molecular Weight Heparin: The Real World Answer to the Surgeon's Needs. San Diego, CA, August 27, 2002.
352. Friedman, R.J.: Current Concepts in DVT Prophylaxis in Orthopaedic Surgery. Presented at Grand Rounds, Department of Orthopaedic Surgery, University of Miami, Miami, FL, September 19 2002.
353. Friedman, R.J., Turpie, A.G.G., Bauer, K.A., et al: Role of the Duration of Fondaparinux Prophylaxis In Preventing Thromboembolism Following Major Orthopaedic Surgery. Presented at the 33rd Annual Meeting of the Eastern Orthopaedic Association, Amelai Island, FL, October 17, 2002.
354. Friedman, R.J.: Indications and Preoperative Planning For Total Shoulder Arthroplasty. Presented at Current Concepts of Shoulder and Elbow Surgery, Tampa, FL, January 17, 2003.
355. Friedman, R.J.: Complications of Total Shoulder Arthroplasty. Presented at Current Concepts of Shoulder and Elbow Surgery, Tampa, FL, January 17, 2003.

Regional and Local:

1. Total Shoulder Replacement In Rheumatoid Arthritis. Orthopaedic Grand Rounds, Medical University of South Carolina, Charleston, S.C., March 25, 1986.

2. Indications and Results of Total Knee Replacement In Rheumatoid Arthritis. Rheumatology Grand Rounds, Medical University of South Carolina, Charleston, S.C., April 30, 1986.
3. Septic Arthritis of the Hip in Children. Pediatric Grand Rounds, Medical University of South Carolina, Charleston, S.C., September 12, 1986.
4. Surgical Treatment of the Rheumatoid Shoulder and Elbow. Annual Meeting of the South Carolina Rheumatism Society, Charleston, S.C., November 1–2, 1986.
5. Rheumatoid Arthritis of the Elbow. Orthopaedic Grand Rounds, Medical University of South Carolina, Charleston, S.C., November 25, 1986.
6. Common Shoulder and Elbow Disorders. Family Practice Grand Rounds, Medical University of South Carolina, Charleston, SC, May 22, 1987.
7. The Language of Fractures. Annual Meeting of the South Carolina Shorthand Reporters Association, Charleston, SC, May 23, 1987.
8. Emergency Care of Orthopaedic Injuries. MEDUCARE Air Ambulance Rescue Team, Medical University of South Carolina, Charleston, SC, June 18, 1987.
9. Osteoarthritis and Total Joint Replacement. Charleston Community Center, Charleston, SC, August 12, 1987.
10. Revision of Failed Aseptic Total Knee Replacement – Long Term Results. South Carolina Orthopaedic Association Annual Meeting, Litchfield Beach, SC, September 18, 1987.
11. Non–Constrained Total Shoulder Replacements in Patients with Rheumatoid Arthritis. South Carolina Orthopaedic Association Annual Meeting, Litchfield Beach, SC, September 19, 1987.
12. Design and Function of Total Shoulder Replacements. Clemson University Bioengineering Research Colloquium Series, Clemson, SC, April 22, 1988.
13. Management of Open Tibia Fractures. Plastic Surgery Grand Rounds. Medical University of South Carolina, Charleston, SC, December 12, 1988.
14. Update on Total Joint Replacement. Charleston Jewish Community Center, Charleston, SC, April 12, 1989.
15. Osteoarthritis of the Hip and Knee. Family Practice Grand Rounds, Medical University of South Carolina, Charleston, SC, April 15, 1988.
16. Update on Total Joint Replacements. 41st Annual Meeting of the South Carolina Academy of Family Physicians, Hilton Head, SC, December 2, 1989.

17. Shoulder Biomechanics Following Total Joint Replacement. South Carolina Orthopaedic Association Annual Meeting, Hilton Head, SC, January 12, 1990.
18. Biomechanics And Clinical Results of Total Shoulder Arthroplasty. Columbia Orthopaedic Society, Columbia, SC, March 21, 1990.
19. Diagnosis and Treatment of Common Shoulder Disorders. Orthopaedic Grand Rounds, Medical University of South Carolina, Charleston, SC, April 24, 1990.
20. The Painful Shoulder. Charleston Naval Hospital Orthopaedic Surgery Grand Rounds, Charleston, SC, March 22, 1990.
21. Painful Shoulder Disorders. Moncrief Army Hospital Orthopaedic Grand Rounds, Columbia, SC, May 25, 1990.
22. Prevention of Infection Following Total Joint Replacement. Coastal Dental Study Group, Charleston, SC, September 5, 1990.
23. Hydroxyapatite Total Hip Arthroplasty. Presented at the North-South Carolina Orthopaedic Association Combined Annual Meeting, Ashville, NC, October 13, 1990.
24. Implant Fixation In Total Hip Arthroplasty. Presented at Clemson Bioengineering Colloquium, Clemson, SC, October 31, 1990.
25. Thromboembolic Complications Following Total Joint Arthroplasty. Presented at the 1991 MUSC Orthopaedic Nursing Conference, Charleston SC, April 24, 1991.
26. Anatomic Basis of Total Shoulder Design. South Carolina Orthopaedic Association Annual Meeting, Charleston, SC, September 20, 1991.
27. Hydroxyapatite Total Hip Arthroplasty. Presented at the North-South Carolina Orthopaedic Association Combined Annual Meeting, Charleston, SC, October 3, 1992.
28. Treatment of the Rheumatoid Shoulder. Presented at the monthly meeting of the Charleston chapter of the National Association of Orthopaedic Nurses, Charleston, SC, November 17, 1992.
29. Low Molecular Weight Heparins in Total Joint Arthroplasty. Presented at the Raleigh Orthopaedic Surgery Rounds, Raleigh, NC, August 31, 1993.
30. Cine MRI of the Glenohumeral Joint. South Carolina Orthopaedic Association Annual Meeting, Charleston, SC, September 18, 1993.
31. Surgical Treatment of Osteoarthritis. Healthcare Communications Network, Charleston, SC, November 17, 1993.

32. Thromboembolic Disease in Total Joint Arthroplasty. Bowman Gray School of Medicine Orthopaedic Surgery, Winston-Salem, NC, December 6, 1993.
33. Diagnosis and Treatment of The Painful Shoulder. Charleston Air Force Base Family Practice Clinic. Charleston, SC, December 14, 1993.
34. Update on the Hip. Orthopaedic Update Conference, South Carolina Home Care Association. Columbia, SC, June 24, 1994.
35. Update on the Knee. Orthopaedic Update Conference, South Carolina Home Care Association. Columbia, SC, June 24, 1994.
36. Update on the Shoulder. Orthopaedic Update Conference, South Carolina Home Care Association. Columbia, SC, June 24, 1994.
37. Friedman, R.J.: Deep Venous Thrombosis: Current Concepts. Presented at Grand Rounds, Anderson Hospital, Anderson, SC, July 19, 1994.
38. Friedman, R.J.: Current Concepts in the Diagnosis and Treatment of Thromboembolic Disease. Presented at Surgery Grand Rounds, Medical University of South Carolina, Charleston, SC, April 18, 1995.
39. Friedman, R.J.: Current Trends in Total Joint Replacement. Presented at the Annual Meeting of the South Carolina Medical Association, Charleston, SC, April 20-23, 1995.
40. Friedman, R.J.: Update on Total Joint Replacement. Presented at Grand Rounds, Department of Family Medicine, St. Francis Hospital, Charleston, SC, May 12, 1995.
41. Friedman, R.J.: Is There A Need For Supplemental Stress Steroids in Orthopaedic Surgery? Presented at the 45th Annual Meeting of the South Carolina Orthopaedic Association, Hilton Head, SC, September 29, 1995.
42. Friedman, R.J.: Total Shoulder Arthroplasty Contact Pressures. Presented at the 45th Annual Meeting of the South Carolina Orthopaedic Association, Hilton Head, SC, September 29, 1995.
43. Friedman, R.J.: Blood Conservation in Orthopaedic Surgery. Presented at the Annual Meeting of the Georgia Association of Physician Assistants, Jekyll Island, GA, August 23, 1996.
43. Friedman, R.J.: Independent Medical Examination. Presented at the South Carolina Medical Management Workshop, Columbia, SC, November 24, 1997.
44. Friedman, R.J.: Orthopaedic Coding Tips. Presented at the 51st Annual Meeting of the South Carolina Orthopaedic Association, Kiawah, SC, August 3, 2001.

45. Friedman, R.J.: Prospective Randomized Study Comparing Ceramic/Ceramic and Ceramic/PE Bearing Surfaces in Total Hip Arthroplasty. Presented at the 51st Annual Meeting of the South Carolina Orthopaedic Association, Kiawah, SC, August 4, 2001.

Presentations by Others:

1. Friedman, R.J., and Ewald, F.C.: Ipsilateral Shoulder and Elbow Arthroplasties. Presented at the Fourth Annual Closed Meeting of The American Shoulder and Elbow Surgeons, Los Angeles, California, October 24–25, 1985.
2. Volatile, T.B., Ewald, F.C., Friedman, R.J., Gebhardt, E., Thomas, W.H., and Sledge, C.B.: Ten Year Results of 142 Duocondylar Total Knee Replacements. Presented at the 53rd Annual Meeting of the American Academy of Orthopaedic Surgeons, New Orleans, Louisiana, February 20–25, 1986.
3. Keller, J.C., Trancik, T.M., St. Mary, T., Hautaniemi, J.A. and Friedman, R.J.: Inhibition of Bone Ingrowth By Indomethicin. Presented at the 33rd Annual Meeting of the Orthopaedic Research Society, San Francisco, California, January 19–22, 1987.
4. McGinty, J.B., Friedman, R.J., Johnson, D., Mason, J.L., and St. Mary, E.: Arthroscopy of Total Knee Replacements – A Preliminary Report. Presented at the South Carolina Orthopaedic Association Annual Meeting, Litchfield Beach, South Carolina, September 18, 1987, and at the 7th Annual Meeting of the Arthroscopy Association of North American, Washington, D.C., March 25, 1988.
5. Friedman, R.J., Thornhill, T.S., Thomas, W.H., Sledge, C.B.: Nonconstrained Total Shoulder Replacement In Patients With Functional Class IV Rheumatoid Arthritis. Presented at the 6th Annual Closed Meeting of the American Shoulder and Elbow Surgeons, Orlando, FL, November 21, 1987.
6. Herzenberg, J.E., Harrelson, J.M., Campbell, D.C., Lachiewicz, P.F., and Friedman, R.J.: Fracture of the Polyethylene Bearing Insert in Bateman Bipolar Hip Prostheses. Presented at the 55th Annual Meeting of the American Academy of Orthopaedic Surgery, Atlanta, GA, February 5, 1988, and at the Sixth Annual Meeting of the Mid–American Orthopaedic Association, Tucson, Arizona, March 17, 1988.
7. Cushner, F., and Friedman, R.J.: Factors Affecting Blood Loss and Transfusion Rate Following Total Knee Replacement. Presented at the North–South Carolina Orthopaedic Associations Combined Annual Meeting, Charleston, SC, September 16, 1988, American Orthopaedic Association Annual Resident's Conference, Newport Beach, California, March 23, 1990, and the Annual Meeting of the Association of VA Orthopaedic Surgeons, Charleston, SC, May 7, 1990.
8. McPherson, E.J., and Friedman, R.J.: Arterial Injuries Associated with Total Knee Replacements. Presented at the North–South Carolina Orthopaedic Associations

Combined Annual Meeting, Charleston, SC, September 16, 1988 and at the 2nd Annual Medical College of Georgia Resident Research Conference, Augusta, GA, May 5, 1989.

9. Friedman, R.J., Graham, J.M., et. al: Timing of Tourniquet Inflation on Cefazolin Prophylaxis in Total Knee Replacement. Presented at the 82nd Annual Meeting of the Southern Medical Association, New Orleans, LA, November 5, 1988, the South Carolina Orthopaedic Association Annual Meeting, Hilton Head, SC, January 12, 1990, and the Annual Meeting of the Association of VA Orthopaedic Surgeons, Charleston, SC, May 7, 1990.
10. Acurio, M.T., and Friedman, R.J.: Total Hip Replacement in Patients With Sickle-Cell Hemoglobinopathy. Presented at the American Orthopaedic Association Annual Residents Conference, Rochester, New York, March 28 – April 1, 1989, and at the 2nd Annual Medical College of Georgia Resident Research Conference, Augusta, GA, May 5, 1989.
11. Friedrich, L.V., White, R.L., Brundage, D.M., Kays, M.B., and Friedman, R.J.: Effect of Tourniquet Inflation on Cefazolin Tissue Penetration During Total Knee Arthroplasty. Presented at the 10th Annual Meeting of the American College of Clinical Pharmacy, Kansas City, MO, August 1989.
12. Mitchell, D., Friedman, R.J., et. al: Prevention of Thromboembolic Disease Following TKR. Epidural vs. General Anaesthesia. Presented at the South Carolina Orthopaedic Association Annual Meeting, Hilton Head, SC, January 12, 1990.
13. Friedman, R.J., and Acurio, M.T.: Hip Arthroplasty in Patients With Sickle-Cell Hemoglobinopathy. Presented at the 57th Annual Meeting of the American Academy of Orthopaedic Surgeons, New Orleans, LA, February 8, 1990, and the 7th Annual Meeting of the Southern Orthopaedic Association, June 7, 1990.
14. McPherson, E.J., Cushner, F.D., and Friedman, R.J.: Flexion Contractures Following Total Knee Arthroplasty. Presented at the 3rd Annual Southeastern Resident's Research Conference, Charleston, SC, May 18, 1990, the North-South Carolina Orthopaedic Associations Combined Annual Meeting, Asheville, NC, October 12, 1990, and the 58th Annual Meeting of the American Academy of Orthopaedic Surgeons, Anaheim, CA, March 9, 1991.
15. Friedman R.J., Hawthorne, K.B., and Genez, B.: Evaluation of Glenoid Bone Loss With Computerized Tomography for Total Shoulder Arthroplasty. Presented at the 58th Annual Meeting of the American Academy of Orthopaedic Surgeons, Anaheim, CA, March 9, 1991, and the South Carolina Orthopaedic Association Annual Meeting, Charleston, SC, September 20, 1991.
16. Richards, L., Dorman, B.H., Conroy, J.M., Friedman, R.J., and Duc, T.A.: A Comparison of Etidocaine Versus Marcaine for Postoperative Analgesia Following Interscalene Block for Shoulder Surgery. Presented at the 85th Annual Meeting of the Southern Medical Association, Atlanta, GA, November 17, 1991

17. Cushner, F.D., and Friedman, R.J.: Operative Fixation of Displaced Sternal Fractures. Presented at the South Carolina Orthopaedic Association Annual Meeting, Charleston, SC, September 21, 1991, and at the 59th Annual Meeting of the American Academy of Orthopaedic Surgeons, Washington, DC, February 21, 1992.
18. Drennan, D., and Friedman, R.J., for the RD Heparin Arthroplasty Group: RD Heparin Versus Warfarin in the Prevention of Deep Vein Thrombosis Following Total Hip and Knee Arthroplasty. Presented at the 9th Annual Meeting of the Knee Society, Washington, DC, February 23, 1992.
19. Murdock, L.E., Elliot, C.G., Friedman, R.J., et al.: Duplex Ultrasonography in Detection of Deep-Vein Thrombosis in Asymptomatic, Postoperative Total Hip and Knee Arthroplasty Patients. Presented at the 59th Annual Meeting of the American Academy of Orthopaedic Surgeons, Washington, DC, February 24, 1992.
20. Bonutti, P.M., Norfray, J.F., Friedman, R.J., and Genez, B.M.: Application of Motion Analysis MRI of the Shoulder. Presented at the 59th Annual Meeting of the American Academy of Orthopaedic Surgeons, Washington, DC, February 20-25, 1992.
21. Bauer, T.W., Friedman, R.J., Garg, K., and Draughn, R.A.: Effects of Substrate Metal Composition on Bone Apposition to Hydroxylapatite. Presented at the International Academy of Pathology, New Orleans, March 15-20, 1992.
22. Rogers, J.M., LaBerge, M., Barefoot, S.F., Shalaby, S.W., and Friedman, R.J.: An Antibiotic Delivery System for the Reconstruction of Infected Bone Defects. Presented at the 26th Annual Meeting of the Canadian Orthopaedic Research Society, Toronto, ON, June 21, 1992.
23. Parent, T.E., Schutte, H.D., and Friedman, R.J.: Femoral Neck Retaining Total Hip Arthroplasty. Presented at the 60th Annual Meeting of the American Academy of Orthopaedic Surgeons, San Francisco, CA,, February 22, 1993, and the South Carolina Orthopaedic Association Annual Meeting, Charleston, SC, September 18, 1993.
24. Bonutti, P.M., Friedman, R.J., Genez, B.M., and Norfray, J.F.: Evaluation of Glenoid Labrum Morphology Using Cine MRI. Presented at the 60th Annual Meeting of the American Academy of Orthopaedic Surgeons, San Francisco, CA, February 18-23, 1993, and at the 11th Annual Meeting of the Mid-America Orthopaedic Association, Hilton Head, SC, May 1, 1993.
25. Wingate, J., Schiff, C.F., and Friedman, R.J.: Osteonecrosis of the Humeral Head in Sickle Cell Disease. Presented at the South Carolina Orthopaedic Association Annual Meeting, Charleston, SC, September 18, 1993.
26. Friedman, R.J., An, Y., Chokeski, R., and Kessler, L.: Anatomic and Biomechanical Study of Glenohumeral Contact. Presented at the Annual Meeting of the Southern Medical Association, New Orleans, LA, November 18, 1993.

27. Bonutti, P.M., Genez, B.M., and Friedman, R.J.: Evaluation of Glenoid Labrum With Cine Magnetic Resonance Imaging. Presented at the 61st Annual Meeting of the American Academy of Orthopaedic Surgeons, San Francisco, CA, February 24-28, 1994.
28. Zhang, G., Latour, R.A., Kennedy, J.M., Schutte, H.D., and Friedman, R. J.: Long Term Compressive Strength Durability of Carbon Fiber Reinforced PEEK Composite in Physiologic Saline. Presented at the 20th Annual Meeting of the Society For Biomaterials, Boston, MA, April 5- 9, 1994.
29. D'Ariano, M.D., Latour, R.A., Kennedy, J.M., Schutte, H.D., and Friedman, R. J.: Long Term Shear Strength Durability of CF/PEEK Composite in Physiologic Saline. Presented at the 20th Annual Meeting of the Society For Biomaterials, Boston, MA, April 5- 9, 1994.
30. Frykman, G.K., and Friedman, R.J.: Radioulnar Synostosis Following Repair of Distal Biceps Brachii Rupture. Presented at the 59th Annual Meeting of the Western Orthopaedic Association, Santa Fe, NM, October 17, 1995.
31. Tian, Y., An, Y.H., LaBreck, J.C., Kang, K., Laberge, M., and Friedman, R.J.: A Novel Chondrocyte-Seeded Hydroxyapatite Collagen Scaffold for Cartilage Repair. Presented at the 5th World Biomaterials Congress, Toronto, May 28-June 2, 1996.
32. An, Y.H., Kang, Q., Zhang, J.H., Friedman, R.J., and Young, F.A.: Comparison of Screw Pull-Out Strength From Weight-Bearing Directions in Bovine Cancellous Bone. Presented at the 12th Annual Meeting of the American Society of Biomechanics, Atlanta, GA, October 17, 1996.
33. An, Y.H., Kang, Q., and Friedman, R.J.: Effects of Multiple Freezing and Thawing on the Indentation Strength of Bovine Cancellou Bone. Presented at the 12th Annual Meeting of the American Society of Biomechanics, Atlanta, GA, October 17, 1996.
34. An, Y.H., Kang, Q., and Friedman, R.J.: Mechanical Symmetry of Rabbit Long Bones Studied By Bending and Indentation Test. Presented at the 12th Annual Meeting of the American Society of Biomechanics, Atlanta, GA, October 18, 1996.
35. An, Y.H., Zhang, J.H., Kang, Q., and Friedman, R.J.: Application of Indentation Test on Rat Trabecular Bone. Presented at the 12th Annual Meeting of the American Society of Biomechanics, Atlanta, GA, October 18, 1996.
36. An, Y.H., Kang, Q., and Friedman, R.J.: Mechanical Properties of Canine Trabecular Bones Tested By Iondentation and Compression Test. Presented at the 12th Annual Meeting of the American Society of Biomechanics, Atlanta, GA, October 19, 1996.
37. An, Y.H., Kang, Q., and Friedman, R.J.: Effects of a Carrageenan Induced Arthritic Knee on the Periarticular Bone in the Rabbit. Presented at the 12th Annual Meeting of the American Society of Biomechanics, Atlanta, GA, October 19, 1996.

38. Bonutti, P.M., Chesnik, R.M., and Friedman, R.J.: Cine MRI: A Noninvasive Technique for the Evaluation of Shoulder Instability. Presented at the 64th Annual Meeting of the American Academy of Orthopaedic Surgeons, San Francisco, CA, February 14, 1997.
45. Friedman, R.J., Zimlich, R.H., Butler, J., Tidd, A., and Schutte, H.D.: Preoperative Hemoglobin as a predictor of Transfusion Risk in Total Hip and Knee Arthroplasty. Presented at the 65th Annual Meeting of the American Academy of Orthopaedic Surgeons, March 23, 1998.
46. Bensen, C.V., An, Y.H., and Friedman, R.J.: Evaluation of an Autogenic Osteoblastic-Seeded HA-Collagen Complex Bone Graft Substitute. Presented at the 18th Southern Biomedical Engineering Conference, Clemson, SC, May 22, 1999.
47. Bensen, C.V., An, Y.H., Bell, T.D., Craig, M.L., McKoy, B.E., and Friedman, R.J.: Evaluation of Bone Ingrowth Into A New Textured Implant Surface In a canine Transcortical Plug Model. Presented at the 33rd American Orthopaedic Association Residents Conference, St. Louis, MO, February 25, 2000.

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