

**CURRICULUM VITAE**

**RICHARD A. FREIBERG, M.D.**

[RAF@CinciVV.com](mailto:RAF@CinciVV.com)

[VADOCRAF@aol.com](mailto:VADOCRAF@aol.com)

**EDUCATION AND TRAINING**

Residency: 1959-1962	Orthopaedic Surgery University of Illinois Chicago, Illinois
Residency: 1958-1959	General Surgery Cincinnati General Hospital Cincinnati, Ohio
Internship: 1957-1958	Cincinnati General Hospital Cincinnati, Ohio
Medical School: 1953-1957	M.D., 1957 Harvard University Medical School Boston, Massachusetts
Undergraduate: 1949-1953	A.B., 1953 Harvard University Cambridge, Massachusetts

**EMPLOYMENT**

Freiberg Orthopaedic Group, Inc. – 1962 – 1998

Associated with:

Richard A. Jolson, M.D.	James B. Willis, M.D.	David Greenfield, M.D.
Andrew M. Roth, M.D.	Lee D. Shaftel, M.D.	Lawrence A. Zeff, M.D.
R. Scott Jolson, M.D.	Michael L. Swank, M.D.	R. Keith Jarman, M.D.
Jim D. Swanson, M.D.	John P. Zisko, M.D.	

**BOARD CERTIFICATION**

Certified by American Board of Orthopaedic Surgery – January 7, 1965

**TEACHING APPOINTMENTS**

- Professor of Clinical Orthopaedic Surgery, Affiliated, University of Cincinnati College of Medicine
- Director, Orthopaedic Division of Department of Surgery, Department of Veterans Affairs Medical Center

**HOSPITAL STAFF APPOINTMENTS**

- Attending Staff, Jewish Hospital, Cincinnati
- Associate Staff, University Hospital, Cincinnati
- Attending Staff, Children's Hospital Medical Center, Cincinnati
- Attending Staff, Veterans Affairs Medical Center
- Courtesy Staff, Holmes Hospital, Cincinnati
- Courtesy Staff, Mercy Hospital Anderson, Cincinnati
- Courtesy Staff, Bethesda Hospitals, Cincinnati
- Courtesy Staff, Christ Hospital, Cincinnati
- Courtesy Staff, Jewish Hospital-Kenwood, Cincinnati
- Director, Orthopaedic Service, Department of Veterans Affairs Medical Center, Cincinnati

**PROFESSIONAL ORGANIZATIONS**

- American Academy of Orthopaedic Surgeons
- American Medical Association
- Arthritis Foundation
- Board of Governors Arthritis Foundation
- Cincinnati Academy of Medicine
- Clinical Orthopaedic Society
- Forum Orthopaedic Club
- Greater Cincinnati Rheumatism Society
- Medi Club, Inc.
- Member of Board of Trustees of Jewish Hospital
- Ohio Orthopaedic Society
- American Association of Hip & Knee Surgeons
- National Association of VA Physicians and Dentists
- Health Alliance, Clinical Resource Management, Orthopaedics Team
- Health Alliance, Orthopaedic Value Enhancement Project Steering Committee
- Board Member, University Orthopaedic Research & Education Foundation

**COMMUNITY SERVICE**

- Appeared on 1993 Arthritis Foundation Telethon, Sunday, April 18, 1993, WXIX-TV
- Board of Governors for Arthritis Foundation, Southwestern Ohio Chapter
- Board of Trustees for the Jewish Hospitals, Cincinnati, Ohio

**PUBLICATIONS**

1. Lysis of Peritoneal Adhesions with Varidase, Sherry, Calloway, and Freiberg. *Journal of Experimental Biology and Medicine*, 1953
2. Studies of Devitalized Bone Implants. R.A. Freiberg and R.D. Ray. *Archives of Surgery*, Volume 83, pp.417-27, September 1964
3. The Scallop Sign and Spontaneous Rupture of Finger Extensor Tendons in Rheumatoid Arthritis. R.A. Freiberg and A. Weinstein. *Clinical Orthopaedics*, Volume 83, pp.128-130, March-April 1972
4. Evaluation of McKeever Tibial Plateau Arthroplasty of the Rheumatoid Knee. R.A. Freiberg and P.W. Welch. *The Ohio State Medical Journal*, Volume 70, pp.316-18
5. Multiple Intraosseous Lipomas with Type-IV Hyperlipoproteinemia. R.A. Freiberg, G. Wair, C.J. Glueck, T. Ishikawa, and N.R. Abrams. *The Journal of Bone and Joint Surgery*, Volume 56-A, No. 8, pp.1729-32, December 1974
6. The Hip Lifter. R.A. Freiberg and E. Stern. *The Journal of Bone and Joint Surgery*, Volume 57-A, No.3, p. 429, April 1975
7. Bilateral Carpal Tunnel Syndrome Secondary to Gouty Tenosynovitis. R.A. Freiberg, S.R. Pledger, and B. Hirsh. *Clinical Orthopaedics*, No. 118, July-August 1976
8. Evaluation of McKeever Tibial Plateau Arthroplasty and Geometric Total Knee Replacement Arthroplasty in Rheumatoid Arthritis. R.A. Freiberg and P.W. Welch. *Orthopaedic Transactions*, Volume 2, No. 1, p.35, May 1978
9. The Oxygenation Bag: A Treatment for Rheumatoid Skin Ulceration. R.A. Freiberg, D.W. Semian, and L. Gottesman. *Orthopaedic Transactions*. Volume 2, No.1, p.36, May 1978
10. Extensive Localized Bone Resorption in the Femur Following Total Hip Replacement. W.H. Harris, A.L. Scheller, J.M. Scholler, R.A. Freiberg and R. Scott. *The Journal of Bone and Joint Surgery*, Volume 58-A, pp.612-18, 1976
11. The Use of Aspirin to Prevent Heterotopic Ossification After Total Hip Arthroplasty, A Preliminary Report. A.A. Freiberg, M.D., R. Cantor, M.D., and R.A. Freiberg, M.D., *Clinical Orthopaedics*, June 1991, Volume 267, p.93
12. Arthritis of the Foot. R.A. Freiberg, M.D., Carolee Moncur, Pt. Ph.D., *Bulletin on the Rheumatoid Diseases*. Arthritis Foundation, Volume 40, No. 1, 1991
13. High plasminogen activator inhibitor activity and hypofibrinolysis, A major cause of idiopathic osteonecrosis. Glueck CJ, Glueck HI, Freiberg R, Henderson C, Welch M, Stroop D, Hamer T, Tracy T, Sosa F, Levy M. *AM J Hematology*, 1994; 45:156-166

## Curriculum Vitae of Richard A. Freiberg, M.D.

### Page - 5

14. Familial Idiopathic Osteonecrosis mediated by familial hypofibrinolysis with high levels of plasminogen activator inhibitor Glueck CJ, Glueck HI, Welch M., Freiberg R, Tracy T, Hamer T, Stroop D. *Thrombosis-Haemostasis*, 1994; 71:195-199
15. Protein C deficiency, protein S deficiency, thrombophilia and hypofibrinolysis. Glueck CJ, Glueck HI, Greenfield D, Freiberg R, Kahn A, Hamer T, Tracy T, Stroop D. *Pediatric Research*, 1994; 35:383-388
16. Idiopathic osteonecrosis, hypofibrinolysis, high plasminogen activator inhibitor, high lipoprotein (a), and therapy with stanozolol. Glueck CJ, Freiberg R, Glueck, HI, Tracy T, Stroop D, Wang Y. *Am J of Hematology*, 48: 213-220, 1995
17. Familial protein C and S deficiency, familial hypofibrinolysis: Major causes of Legg-Calve-Perthes disease. Glueck CJ, Freiberg R, Glueck HI, Stroop D, Tracy T, Hamer T, Roy D, Crawford A. *J Bone Joint Surg*, In Review, 3/94
18. Cosegregation of familial protein C and S deficiencies, familial hypofibrinolysis, and familial hypobetalipoproteinemia in kindreds with Legg-Calve-Perthes disease. Glueck CJ, Freiberg R, Glueck HI, Stroop D, Tracy T, Hamer T, Roy D, Crawford A. *AM J Human Genetics*, In preparation, 5/95
19. Association of Anti-Thrombotic Factor Deficiencies and Hypofibrinolysis with Legg-Perthes Disease. Glueck CJ, Crawford A, Roy D, Freiberg R, Glueck HI, Stroop D. *J Bone and Joint Surgery*, 73-A: 3-13, January 1996
20. Core decompression as a novel treatment for early Freiberg's infraction of the second metatarsal head. Freiberg, A.A., Freiberg, R.A. Orthopaedics, 18, December 1995: 12, pp.1177-1178
21. Thrombophilia and hypofibrinolysis: pathophysiologies of osteonecrosis. Glueck CJ, Freiberg R, Tracy T, Stroop D, Wang, P. *Clinical Orthopaedics* 1997: 334:43-56
22. Thrombophilia and Hypofibrinolysis: Reversible Pathogenetic Etiologies of Osteonecrosis in Adults and in Children (Legg-Perthes Disease). Glueck CJ, Freiberg R, Gruppo R, Crawford A, Roy D, Brandt G, McMahon RE, Bouquot J, Tracy T, Stroop D, Wang P, Becker A. *AOA International Symposium on Osteonecrosis*. In Urbaniak JR, Jones JP Jr (eds). *Osteonecrosis: Etiology, diagnosis, and treatment*. Rosemont, IL, American Academy of Orthopaedic Surgeons, 1997; pp. 105-110
23. Secondhand smoke, hypofibrinolysis, and childhood osteonecrosis of the hip, Legg-Perthes disease. Glueck CJ, Freiberg R, Crawford A, Roy D, Tracy T, Sieve-Smith L, Wang P. *Clinical Orthopaedics* 1998:352:159-167
24. Thrombophilia and hypofibrinolysis: Pathoetiologies of "Secondary" Osteonecrosis associated with corticosteroid therapy. Glueck CJ, Freiberg R, Kirk P, Tracy T, Sieve-Smith L, Wang P. *Journal of Bone and Joint Surgery*. In Revision, 5/99.
25. Amelioration of osteonecrosis by treatment of thrombophilia and hypofibrinolysis. Glueck CJ, Freiberg RA, Swank M, Kirk P, Fontaine RN, Tracy T, Wang P. *Clinical Orthopaedics*, In Revision, 5/99

**Curriculum Vitae of Richard A. Freiberg, M.D.**

**Page - 6**

26. Legg-Perthes Disease. Glueck CJ, Crawford A, Roy D, Freiberg RA, Stroop D. J Bone and Joint Surgery, 1998: 89-A: 605-606
27. Hypofibrinolysis and thrombophilia in 36 patients referred for low molecular weight heparin therapy for osteonecrosis of the hip. Glueck CJ, Freiberg RA, Fontaine RN, Tracy T, Wang P. Clinical Orthopedics, In Review, 1/10/2000

**PAPERS PRESENTED**

1. Acute Management of Neural Canal Alterations. R. A. Freiberg and C. V. Heck. Academy of Orthopaedic Surgery, Chicago, 1962.
2. Studies of Devitalization Bone Implants. R. A. Freiberg, and R. D. Ray. American Orthopaedic Association, Bermuda, June 1962.
3. The Scallop Sign and Spontaneous Rupture of Finger Extensor Tendons in Rheumatoid Arthritis. R. A. Freiberg and A. Weinstein, American Rheumatism Association, Detroit, June 1970.
4. Knee Arthroplasty, McKeever Type, for the Rheumatoid Knee. R. A. Freiberg. Ohio Orthopaedic Society, March 16-17, 1973.
5. The Surgical Management of Rheumatoid Arthritis. R. A. Freiberg. The Arthritis Foundation, Stouder Memorial Hospital, Troy, OH, December 4, 1978.
6. The Use of Kelikian's Syndactylia in Forefoot Reconstruction of the Rheumatoid. D. D. Phillips, R. A. Freiberg, C. N. Hopson. American Academy of Orthopaedic Surgeons, New Orleans, 1986.
7. Moderator for Panel Discussion: Rationale for Use of Cement in Primary Total Hip Arthroplasty. University Orthopaedic Development Foundation. September 17, 1986. Clarion Hotel, Cincinnati, Ohio.
8. The Technique for Rheumatoid Forefoot Reconstruction. R. A. Freiberg. The Clinical Orthopaedic Society, Inc., 10/5-7/88
9. Arthrodesis of the Wrist in Rheumatoid Arthritis Utilizing Intramedullary Fixation and Local Bone Grafting. J. B. Willis and R. A. Freiberg. The Clinical Orthopaedic Society, Inc. 10/5-7/88
10. The Rheumatoid Foot. Richard A Freiberg, M.D., Christ Hospital, Cincinnati, Ohio. For Continuing Medical Education. October 28, 1989.
11. Effects of Aspirin on Heterotopic Bone Formation. R. A. Freiberg. University of Cincinnati Orthopaedic Alumni Reunion, June 8, 1990.
12. Ankle Arthrodesis Using an External Fixator. Richard A. Freiberg, Forum Orthopaedic Club, Dec 13-14, 1991.

## Curriculum Vitae of Richard A. Freiberg, M.D.

### Page - 7

13. Etiology of Avascular Necrosis of the Hip. Richard A. Freiberg, M.D., Presented to Christ Hospital Grand Rounds, April 14, 1993.
14. Hypofibrinolysis and Thrombophilia and Avascular Necrosis and Legg-Perthes Disease. Richard A. Freiberg M.D., Forum Orthopaedic Club. December 2-4, 1993. New York, NY.
15. Hypofibrinolysis and Thrombophilia and Avascular Necrosis Hip. Richard A. Freiberg, M.D., University of Kentucky. Orthopaedic Grand Rounds. February 5, 1994.
16. Coagulation disorders: Pervasive, Reversible Pathoetiologies of Osteonecrosis in Adults and Children. Ohio Orthopaedic Society, 57 Annual Meeting, May 10, 1996.
17. Osteonecrosis: Basic Science Issues. University of Cincinnati, Orthopaedic Basic Science Lectures, March 8, 1997.

### **ABSTRACTS**

1. Glueck CJ, Greenfield D, Freiberg R, Glueck HI, Stroop D, Tracy T. Protein C deficiency and hypofibrinolysis, pathophysiologic etiologies of Legg-Perthes Syndrome? J Bone and Joint Surg, In press, 1993.
2. Glueck CJ, Freiberg R, Henderson C, Glueck CJ, Glueck HI, Stroop, D. The etiologic role of hypofibrinolysis and high lipoprotein (a) in osteonecrosis of the hip. J Bone and Joint Surg, In press, 1993.
3. Glueck CJ, Freiberg R, Welch M, Glueck HI, Stroop D. Familial idiopathic osteonecrosis mediated by familial hypofibrinolysis with high levels of plasminogen activator inhibitor. J Bone and Joint Surg., In press, 1993.
4. Glueck CJ, Freiberg R, Glueck HI, Henderson C, Welch M, Stroop D., Hamer T, Sosa F, Levy M. Hypofibrinolysis and Osteonecrosis. Arteriosclerosis, In press, 1993.
5. Glueck CJ, Welch M, Freiberg R, Glueck HI, Stroop D, Hamer T, Tracy T. Familial hypofibrinolysis mediated by familial high plasminogen activator inhibitor. Arteriosclerosis, In press, 1993.
6. Glueck CJ, Greenfield D, Freiberg R, Glueck HI, Stroop D, Tracy T. Protein C deficiency and hypofibrinolysis, pathophysiologic etiologies of Legg-Perthes syndrome? Circulation, 88:1-264, 1003. Presented, national AHA, Atlanta, GA, 11/9/93.
7. Glueck CJ, Greenfield D, Freiberg R, Glueck HI, Kahn A, Hamer T, Stroop D. Protein C deficiency, Protein S deficiency, and hypofibrinolysis, pathophysiologic etiologies of Legg-Perthes syndrome. Clinical Research, 44:649A, 1993. Presented, AFCR, CSCR, Chicago 11/3/93.
8. Glueck CJ, Freiberg R, Henderson C, Welch M, Stroop D, Glueck HI, Hamer T, Tracy T. Hypofibrinolysis, Osteonecrosis, and Legg-Perthes. Clinical Research, 41:696A, 1993. Presented, AFCR, CSCR, Chicago, 11/5/93.

**Curriculum Vitae of Richard A. Freiberg, M.D.**

**Page - 8**

9. Glueck CJ, Freiberg R, Glueck HI, Stroop D, Tracy T, Hamer T. Idiopathic osteonecrosis, hypofibrinolysis, high lipoprotein (a), and therapy with Stanozolol. *Clinical Research*, 41:661A, 1993. Presented, AFCR, CSCR, Chicago 11/3/93.
10. Glueck CJ, Glueck HI, Welch M, Freiberg R, Stroop D, Hamer T, Tracy T. Familial idiopathic osteonecrosis mediated by familial hypofibrinolysis with high levels of plasminogen activator inhibitor. *Clinical Research*, 41:646A, 1993. Presented, International Society Thrombosis/Hemostasis, New York 7/8/93. Presented, AFCR, CSCR, Chicago 11/3/93. **Ortho-Biotech Award for Excellence in Hematology Research, 11/3/93, CSCR.**
11. Glueck CJ, Crawford A, Roy D, Glueck HI, Stroop D, Kahn A, Freiberg R, Tracy T. Familial protein C and S deficiency and hypofibrinolysis: common causes of Legg-Perthes Disease. *Orthopedic transactions*, In press, 1994. Presented, Pediatric Orthopaedic Society of North America, Memphis, TN, 5/94.
12. Glueck CJ, Freiberg R, Glueck HI, Stroop D, Tracy T. High plasminogen activator inhibitor activity and antigen and hypofibrinolysis, a cause of osteonecrosis? *Clinical Research*, Abstract 41:309A, 1993. Presented, Nation AFCR, ASCI, AAP Meetings, Washington, DC, 4/29-5/1/93.
13. Glueck CJ, Crawford A, Roy D., Glueck HI, Stroop D, Freiberg R, Tracy T, Kahn A. Familial thrombophilia and hypofibrinolysis: common causes of Legg-Perthes Disease. *Clinical Research*, 42:184A, 1994. Presented, Baltimore. AAP, ASCI, AFCR 3/30/94.
14. Glueck CJ, Crawford A, Roy D, Freiberg R, Glueck HI, Stroop D, Tracy T. Familial high Lp(a), familial hypofibrinolysis, Legg-Perthes disease, and premature myocardial infarction and stroke. *Clinical Research*, 42(#3) 377A, 1994. **Presented, AFCR-CSCR, Chicago, IL, 9/16/94.**
15. Stroop DM, Freiberg R, Glueck CJ, Henderson C, Welch M, Glueck HI, Hamer T, Tracy T. Hypofibrinolysis, thrombophilia, osteonecrosis, and legg-perthes. *The Journal of Military Medical Science*, 23(#1) P-12, 1994.
16. Glueck CJ, McMahon RE, Bouquot JE, Stroop D, Tracy T, Freiberg R, Wang Y, Rabinovich B. The pathophysiology of idiopathic osteonecrosis of the jaws: thrombophilia and hypofibrinolysis. *Journal of Investigative Medicine*, 43; Suppl 2: 234A, 1995. **Presented, National Clinical Research Meetings, San Diego, 5/5/95.**
17. Glueck CJ, McMahon RE, Bouquot J, Stroop D, Tracy T, Freiberg R, Wang P. Resistance to activated protein C, estrogens, and osteonecrosis of the jaws. *Journal of Investigative Medicine*, 43; Suppl 2: 234A, 1995. **Presented, National Clinical Research Meetings, San Diego, 5/5/95.**
18. Glueck CJ, Crawford A, Roy D, Freiberg R, Glueck H, Stroop D. Familial thrombophilia, hypofibrinolysis, and high lipoprotein (a): pathophysiologic etiologies of Legg-Perthes disease. *Journal of Investigative Medicine*, 43; Suppl 2: 233A, 1995. **Presented, National Clinical Research Meetings, San Diego, 5/5/95.**

**Curriculum Vitae of Richard A. Freiberg, M.D.**

**Page - 9**

19. Glueck CJ, Freiberg R, Tracy T, Stroop D, Wang P. Thrombophilia and hypofibrinolysis cause osteonecrosis of the hip. *Journal of Investigative Medicine* 1995; 43:437A. **Presented, Central Society for Clinical Research, Chicago, 9/28/95.**
20. Glueck CJ, Hungerford D, Freiberg R, Tracy T, Wang P. FAMILIAL HETEROZYGOUS PROTEIN S DEFICIENCY: A PATHOPHYSIOLOGIC CAUSE OF OSTEONECROSIS. *Journal of Investigative Medicine*, 44(#3):233A, 1996. **Presented, AAP/ASCI/AFCR National Biomedicine 96 Meetings, Washington, DC, May 3-6, 1996.**
21. Glueck CJ, Stevens D, Freiberg R, Tracy T, Gruppo R, Wang P. THROMBOPHILIA AND HYPOFIBRINOLYSIS: PATHOPHYSIOLOGIC CAUSES OF LEGG-PERTHES DISEASE. *Journal of Investigative Medicine* 44(#3):213A, 1996. **Presented, AAP/ASCI/AFCR National Biomedicine 96 Meetings, Washington, DC, May 3-6, 1996.**
22. Glueck CJ, Freiberg R, Crawford A, Roy D, Tracy T, Sieve-Smith L, Wang P. Secondhand smoke, hypofibrinolysis, and childhood osteonecrosis of the hip, Legg-Perthes disease. *Journal of Investigative Medicine* 44(7):357A. **Presented, Central Society for Clinical Research/Midwest AFCR meetings, Chicago, Illinois. Sept. 19-21, 1996.**
23. Glueck CJ, Freiberg R, Tracy T, Wang P. Thrombophilia, hypofibrinolysis, and reversible osteonecrosis. *Journal of Investigative Medicine* 44(7):357A. **Presented, Central Society for Clinical Research/Midwest AFCR meetings, Chicago, Illinois. Sept 19-21, 1996.**
24. Glueck CJ, Freiberg R, Tracy T, Wang P. Idiopathic and secondary osteonecrosis, thrombophilia, and hypofibrinolysis. *J of Investigational Medicine* 45(3); 243A. **Presented, Biomedicine 97', Washington, DC, April 26-7, 1997.**
25. Glueck CJ, Freiberg R, Gruppo R, Crawford A. Thrombophilia and hypofibrinolysis: pathogenetic etiologies of osteonecrosis. *J of Investigational Medicine* 45(3):243A. **Presented, Biomedicine 97', Washington, DC, April 26-7, 1997.**
26. Glueck CJ, Freiberg R. Amelioration of osteonecrosis by treatment of thrombophilia and hypofibrinolysis. *J of Investigational Medicine* 45(3):243A, **Presented, Biomedicine 97', Washington, DC, April 26-7, 1997.**
27. Glueck CJ, Freiberg RA, Gruppo R, Kirk P, Fontaine R, Gupta A, Tracy T, Wang P. Amelioration of osteonecrosis by treatment of thrombophilia. *Journal of Investigative Medicine*, 1998; 46:227A. **Presented, Biomedicine 98, Washington, DC, May 2, 1998.**
28. Glueck CJ, Fontaine R, Freiberg R A, McMahon R, Tracy T, Wang P. The 4G5G polymorphism in the plasminogen activator gene: hypofibrinolysis and atherothrombosis. *Circulation*, In Press, 1998.
29. Glueck CJ, Fontaine R, Freiberg RA, McMahon R, Tracy T, Wang P. The 4G5G polymorphism in the plasminogen activator gene: hypofibrinolysis and

**Curriculum Vitae of Richard A. Freiberg, M.D.**

**Page - 10**

- atherothrombosis. *Journal of Investigative Medicine* 1998; 46:284A **Presented, CSCR, Chicago, Sept 17-19, 1998.**
30. Roy DR, Glueck CJ, Freiberg R, Crawford AH. Secondhand smoke, hypofibrinolysis, and Legg-Perthes disease. *Pediatrics* 1998, 102 (#3), 13A. **Presented, American Academy of Pediatrics, October 1998.**
31. Glueck CJ, Freiberg R, Wang P, Tracy T, Sieve-Smith L. Amelioration of osteonecrosis by treatment of thrombophilia and hypofibrinolysis. *J Invest Med* 1999; 47:246A **Presented, CSCR, Chicago, September 1999.**