

CURRICULUM VITAE

NAME: Thomas A. Einhorn, M.D.

OFFICE ADDRESS: Department of Orthopaedic Surgery
Boston Medical Center – DOB Suite 808
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Boston, Massachusetts 02118-2393

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Current Position: Chairman
Department of Orthopaedic Surgery
Boston University School of Medicine

Chief, Orthopaedic Surgery
Boston Medical Center

EDUCATION: Cornell University Medical College
New York, New York
Degree: M.D., 1976

Rutgers University
New Brunswick, New Jersey
Degree: A.B., 1972

**ACADEMIC HONORS
AND AWARDS:**

Phi Beta Kappa, 1972
Rutgers University
S. Oakley Van Der Poel Chemistry Award, 1972
Rutgers University
Henry Rutgers Scholar, 1971-1972
Rutgers University
Philip D. Wilson Award, 1982
Hospital for Special Surgery
American British Canadian Traveling Fellowship, 1989
American Orthopaedic Association

**ACADEMIC HONORS
AND AWARDS
(Continued):**

M.R. Urist Award, 1997
Portland Bone Symposium
Bentham Award, 1998
Boston University School of Medicine
Kappa Delta Award, 1999
American Academy of Orthopaedic Surgeons
Marshall Schiff Award, 2000
American College of Rheumatology

Marshall R. Urist Award, 2002
Orthopaedic Research Society

PEER RECOGNITION: *Best Doctors*, 1997 – Present

CERTIFICATIONS: National Board of Medical Examiners
July 1, 1977

American Board of Orthopaedic Surgery
July 27, 1984
Recertification - July 25, 1997

**SPECIAL PROGRAM
CERTIFICATIONS:** Midas Rex Instrumentation
February 28, 1987

MEDICAL LICENSES: New York: 131052-1977
Massachusetts: 154139-1997

**POST GRADUATE
TRAINING:** July 1, 1981 – June 30, 1982
Fellow, Metabolic Bone Disease and Orthopaedic Research
The Hospital for Special Surgery
New York, New York

July 1, 1978 – June 30, 1981
Resident, Orthopaedic Surgery
St. Luke's – Roosevelt Hospital Center
Columbia University
New York, New York

July 1, 1977 – June 30, 1978
Resident, General Surgery
St. Vincent's Hospital & Medical Center
New York, New York

June 18, 1976 – June 18, 1977
Intern, General Surgery
Hospital of the University of Pennsylvania
Philadelphia, Pennsylvania

**ACADEMIC
APPOINTMENTS:**

May 1, 1997 – Present
Professor and Chairman
Department of Orthopaedic Surgery
Boston University School of Medicine
Boston, Massachusetts

February 1, 2005 – Present
Professor
Department of Biomedical Engineering
Boston University College of Engineering
Boston, Massachusetts

September 14, 1999 – Present
Research Professor
Department of Biochemistry
Boston University School of Medicine
Boston, Massachusetts

January 1, 1992 – April 30, 1997
Professor of Orthopaedics
Director of Orthopaedic Research
Mount Sinai School of Medicine
City University of New York
New York, New York

July 1, 1988 – December 31, 1991
Associate Professor of Orthopaedics
Director of Orthopaedic Research
Mount Sinai School of Medicine
City University of New York
New York, New York

July 1, 1982 – April 30, 1997
Visiting Scientist, Research Division
The Hospital for Special Surgery
New York, New York

December 1, 1986 – June 30, 1988
Assistant Professor of Orthopaedics
Mount Sinai School of Medicine
City University of New York
New York, New York

July 1, 1982 – November 30, 1986
Assistant Professor of Orthopaedic Surgery
State University of New York
Health Science Center of Brooklyn
Brooklyn, New York

**HOSPITAL
APPOINTMENTS:**

May 1, 1997 – Present
Chief of Orthopaedic Surgery
Boston Medical Center
Boston, Massachusetts

**HOSPITAL
APPOINTMENTS
(CONTINUED):**

January 1, 1992 – April 30, 1997

Attending Orthopaedic Surgeon
The Mount Sinai Hospital
New York, New York

July 1, 1988 – December 31, 1999

Associate Attending Orthopaedic Surgeon
The Mount Sinai Hospital
New York, New York

December 1, 1986 – June 30, 1988

Assistant Attending Orthopaedic Surgeon
The Mount Sinai Hospital
New York, New York

July 1, 1982 – November 30, 1986

Assistant Attending Orthopaedic Surgeon
State University Hospital
Brooklyn, New York

July 1, 1982 – November 30, 1986

Assistant Attending Orthopaedic Surgeon
Kings County Hospital
Brooklyn, New York

June 24, 1982 – November 30, 1986

Staff Physician
Veterans Administration Medical Center
Brooklyn, New York

July 1, 1984 – November 30, 1986

Assistant Attending Surgeon
Lutheran Medical Center
Brooklyn, New York

**CAREER
INTERESTS:**

CLINICAL: Reconstructive Surgery of the Hip and Knee
 Orthopaedic Surgery in Metabolic Bone Disease

RESEARCH: The Biology of Skeletal Repair and Regeneration

**PROFESSIONAL
ORGANIZATIONS:**

American Academy of Orthopaedic Surgeons
Orthopaedic Research Society
Orthopaedic Trauma Association
American Medical Association
American Society for Bone and Mineral Research
International Society for Fracture Repair
International Bone and Mineral Society
American Orthopaedic Association

**NON-PROFESSIONAL
ORGANIZATIONS:**

Achilles Track Club
Board of Directors,
1989 – Present

Confrerie des Chevaliers du Tastevin
1992 – Present

**NATIONAL COMMITTEES
AND OFFICES HELD:**

American Academy of Orthopaedic Surgeons:
Chairman, Council on Research and Scientific Affairs,
2000 – 2002
Chairman, Aging Committee,
1999 – 2000
Chairman, Task Force on Basic Science Education,
1994 – 1996
Chairman, Orthopaedic In-Training Examination,
1993 – 1996
Chairman, Committee on Evaluation,
1993 – 1996
Committee on Evaluation,
1990 – 1996
Council on Education,
1993 – 1996
Committee on Musculoskeletal Tumors and Diseases,
1991 – 1993

Orthopaedic Research Society:
Board of Directors, 1988 – 1998
President, 1995 – 1996
Secretary, 1991 – 1994
Chairman, Membership Committee, 1988 – 1989
Membership Committee, 1986 – 1989

American Board of Orthopaedic Surgery:
Question Writing Task Force
Written Certifying Examination
1996 – Present
Oral Examiner, 1998 – Present

Orthopaedic Research and Education Foundation:
Board of Trustees, 2002 - Present
Vice Chair, Grants 2003 - Present

National Osteoporosis Foundation:
Board of Trustees, 2001 – Present
Executive Committee, 2002 – Present
Secretary, 2002 - Present
Scientific Advisory Board, 1994 – 2001

The Paget Foundation
Advisory Medical Panel, 1991 – Present

American Society for Bone and Mineral Research:
Public Affairs and Development Committee, 1988 – 1989

**NATIONAL COMMITTEES
AND OFFICES HELD
(CONTINUED):**

International Society for Fracture Repair:
Board of Directors, 1990 – Present
President, 1998 – 2000
First Vice President, 1996 – 1998
Chairman, Publications Committee, 1990 – 1992
Second Vice President, 1992 – 1994

Orthopaedic Trauma Association:
Research Committee, 1993 – 1995
Nominating Committee, 2003 - Present

American Orthopaedic Association:
Program Committee, 1993 – 1996
Chairman, 1995-1996
ABC Exchange Fellowship Committee, 1994 – 2001
International Traveling Fellowship Committee, 1997 – 2000

Tissue Engineering Society:
Board of Governors
1995 – 1997

Orthopaedic Political Action Committee:
Board of Directors
1996 – 1998

**INSTITUTIONAL COMMITTEES
AND OFFICES HELD:**

Boston University School of Medicine:
Dean's Executive Committee, 1997 – Present
Chairman, Search Committee for the Chairman of
the Department of Rehabilitation Medicine
1998 -1999
Chairman, Search Committee for the Chairman of
the Department of Emergency Medicine
2000 - 2001

Boston Medical Center:
Boston Medical Center Insurance Co., Inc.
Board of Directors 2002 - Present
Medical Executive Committee 1998 – Present
Operating Room Committee 1997 – Present
Operating Room Management Committee 1997 – 2000
Management Services Organization
Board of Directors 1998 – 2000

Mount Sinai School of Medicine:
Executive Faculty, 1995 – 1997
Chairman, Institutional Animal Care and Use Committee,
1990 – 1994
Research and Education Policy Committee, 1990 – 1994
Faculty Council, 1989 – 1992

**CORPORATE ADVISORY
BOARDS:**

Clinical Advisory Board
Auxeris Therapeutics, Inc.
St. Louis, MO
2004 – Present

Osteoporosis Advisory Board
Eli Lilly, Inc.
Indianapolis, IN
2003 - Present

Orthopaedic Advisory Board
Merck & Co.
Whitehorse Station, NJ
2003 – 2005

Scientific Advisory Board
Skeletal Kinetics, LLC
Cupertino, CA
2003 - Present

Etoricoxib Advisory Board
Merck & Co.
Whitehorse Station, NJ
2001 - 2005

Scientific Advisory Board
Anika Therapeutics
Woburn, Massachusetts
1999 – Present

Scientific Advisory Board
Selective Genetics, Inc.
San Diego, California
1998 – 2002

Scientific Advisory Board
Orquest, Inc.
Mountain View, California
1994 – 1998

Scientific Advisory Board
Norian Corp.
Cupertino, California
1993-1999

Scientific Advisory Board
Therics Corp.
Cambridge, Massachusetts
1993-1995

EDITORIAL BOARDS:

Deputy Editor, *Journal of Bone and Joint Surgery*
1994 – Present

Associate Editor *Journal of Orthopaedic Research*
2005 - Present

Associate Editor, *Bone*
2004 – Present
Editorial Board, 1993-2003

Editorial Board, *Journal of Bone and Mineral Research*
1990 – Present

Editorial Review Board, *Journal of the American Academy of
Orthopaedic Surgeons*
1993 – 1994

AD HOC REVIEWER:

Calcified Tissue International
Clinical Orthopaedics and Related Research
Endocrinology
Journal of the American Medical Association
Journal of Clinical Investigation
New England Journal of Medicine
Osteoporosis International
Science
Spine

**GRANT REVIEW
COMMITTEES:**

National Institutes of Health
Special Emphasis Panel – Program Project Review
Chairman, July 7, 2004

National Institutes of Health
Orthopaedics and Musculoskeletal Study Section
October 13, 1993 – June 30, 1997

Chairman
October 18, 1995 – June 30, 1997

National Institutes of Health
Clinical Sciences Special Emphasis Panel
Chairman, August 13, 1998

National Institutes of Health
National Institute of Musculoskeletal and Skin Diseases
Multipurpose Arthritis Center – Review Committee
July 19 – 21, 1992

GRANT REVIEW**COMMITTEES (CONTINUED):**

National Institutes of Health
Ad Hoc Special Review Committee
RFA AR-91-02 Basic Research on Osteoporosis
1991

National Institutes of Health Special Study Sections:

Orthopaedics/Musculoskeletal
August 7, 1992

General Medicine A-2
October 7, 1991

Orthopaedic Research and Education Foundation
Research Grants Peer Review Committee
1991 – 1994

SPECIAL CONSULTANT:

Food and Drug Administration
Endocrinologic and Metabolic Drugs Advisory Committee
“Post-Menopausal Osteoporosis Treatment Drugs”
Bethesda, Maryland
November 17-18, 1994

Food and Drug Administration
Endocrinologic and Metabolic Drugs Advisory Committee
“Post-Menopausal Osteoporosis Treatment Drugs”
Bethesda, Maryland
May 7-8, 1992

PEER REVIEWED**GRANTS AWARDED****(As PRINCIPAL INVESTIGATOR):**

National Institutes of Health – P01 AR049920
“Molecular Mechanisms of Skeletal Repair”
2004 – 2008, \$3,500,000

Program Director: Thomas A. Einhorn, MD

Projects:

1. “Role of Angiogenesis in Distraction Osteogenesis”
(PI: Louis C. Gerstenfeld, PhD))
2. “Regulated Tissue-Specific BMP Function in Bone Repair”
(PI: Thomas A. Einhorn, MD)
3. “Role of VEGF in Fracture Repair”
(PI: Dana Graves, DMD, DMSc)

Includes 3 Cores: Histomorphometry/Structural Analysis, Cellular
and Molecular Biology, Administration

National Institutes of Health – R01 AR40701
“Cytokines in Fracture Healing”
1990 – 1995, \$771,000

National Institutes of Health – R55 AR40701
“Gene Expression in Fracture Healing”
1991 – 1992, \$100,000

**PEER REVIEWED
GRANTS AWARDED
(As PRINCIPAL INVESTIGATOR,
CONTINUED):**

Orthopaedic Trauma Association
“The Osteogenic Response to Bleeding and Intramedullary Trauma”
1994 – 1995, \$19,604

Orthopaedic Research and Education Foundation
“Protein Degrading Enzymes at Physiological pH in Bone and Cartilage
Calcification”
1986 – 1989, \$132,706

Research Foundation S.U.N.Y.
Grant #E109L
“The Influence of Nutrition on the Mechanical Properties of Experimental
Fracture Repair”
1982 – 1983, \$3,000

**PEER REVIEWED
GRANTS AWARDED
(As CO-INVESTIGATOR):**

National Institutes of Health – R01-AR50243
“Healing of Segmental Defects in Bone by Gene Transfer”
Principal Investigator – Christopher Evans
2003-2008, \$210,840

National Institutes of Health – R03 DE14963
“Role of Angiogenesis in Distraction Osteogenesis”
Principal Investigator – Roberto S. Carvalho
2003-2005, \$100,00

US Army Medical Research and Materiel Command
“Assessment of Genetic Variation in Bone Fracture Healing”
Principal Investigator – Louis C. Gerstenfeld
2003-2005, \$110,000

National Institutes of Health – R01-AR47045
“Functional Role of TNF- α Cytokines in Bone Repair”
Principal Investigator – Louis C. Gerstenfeld
2001-2005, \$850,000

Arthritis Foundation
“The Generation of Articular Cartilage and Joint Structure in a Bone Gap
Using Controlled Micromotion”
Principal Investigator – Dennis M. Cullinane
2001 – 2004, \$222,000

National Institutes of Health – R43-AR43107
“Mechanical Stimulation of Fracture Healing by Ultrasound”
Principal Investigator – James T. Ryaby
1995 – 1996, \$99,535

National Institutes of Health – R43-AR43045
“Ultrasonic Assessment of Bone Using Neural Networks”
Principal Investigator – Jonathan J. Kaufman
1994 – 1995, \$75,000

**PEER REVIEWED
GRANTS AWARDED
(As Co-INVESTIGATOR; CONTINUED):**

Orthopaedic Research and Education Foundation - #90-523
"Osteoblast Attachment to Extracellular Matrix Molecules"
Principal Investigator – Robert J. Majeska
1989-1991, \$79,738

**CORPORATE
GRANTS AWARDED:
(As PRINCIPAL INVESTIGATOR):**

Eli Lilly, Inc.
"Effect of Teriparatide on Distal Radius Fracture Healing"
2004-2006, \$67,000

BioMimetic Pharmaceuticals, Inc.
"Enhancement of Experimental Fracture Healing with PDGF"
2004-2005, \$55,011

Eli Lilly, Inc.
"Role of PTH(1-34) in the Enhancement of Fracture Healing"
2002-2003, \$144,291

Monsanto/Searle Corp.
"Role of COX-2 Specific Inhibitors in Skeletal Repair"
2001 – 2003, \$289,140

DePuy, Inc.
"Assessment of Multiple Pharmacological Therapies for the
Enhancement of Fracture Healing"
2000-2001, \$222,011

Stryker Biotech
"Fracture Repair with OP-1 in Conjunction with Conventional NSAIDs"
2001-2002, \$95,659

Bayer Corp.
"Effects of Specific Growth Factors and Pharmacological Compounds on
Fracture Healing"
2000-2001, \$109,629

EBI Corp.
"Effects of FGF-9 on Fracture Healing"
2000-2001, \$46,421

Monsanto/Searle Corp.
"Effects of COX-2 Specific and Non-specific NSAIDs on Fracture
Healing"
1999-2000, \$86,328

Procter and Gamble
"Enhancement of Experimental Fracture Healing with
Prostamimetic Agents"
1998-1999, \$60,000

CORPORATE

GRANTS AWARDED:

(As PRINCIPAL INVESTIGATOR; CONTINUED):

Genetics Institute
"Enhancement of Fracture Healing with an Injectable Preparation of BMP-2"
1995-1997, \$118,000

Procter and Gamble
"Enhancement of Experimental Fracture Healing with PTH"
1995-1997, \$75,000

Howmedica Corp.
"Attachment of Osteoblastic and Non-osteoblastic Cells to Orthopaedic Implants using Extracellular Matrix Proteins"
1992-1993, \$75,000

**VISITING PROFESSORSHIPS
AND NAMED LECTURESHIPS:**

Talking Proud Lecturer
University of Buffalo
Department of Orthopaedic Surgery
Buffalo, New York
October 17 –18, 1984

Visiting Professor of Orthopaedic Surgery
Hebrew University–Hadassah Medical Center
Jerusalem, Israel
March 12 – 16, 1986

Visiting Distinguished Scientist
Hospital Eugenio Espejo
Quito, Ecuador
February 19 – 21, 1988

Distinguished Lecturer
Department of Orthopaedics and Rehabilitation
University of New Mexico
Albuquerque, New Mexico
June 7 – 8, 1991

Samuel Higby Camp Lectureship
University of Michigan Medical School
Ann Arbor, Michigan
April 21 – 22, 1993

Visiting Professor of Orthopaedic Surgery
Department of Orthopaedics
University of Medicine and Dentistry of New Jersey
New Jersey Medical School
Newark, New Jersey
June 2 – 3, 1993

**VISITING PROFESSORSHIPS
AND NAMED LECTURESHIPS
(CONTINUED):**

Visiting Professor of Orthopaedic Surgery
Bone and Joint Center
Henry Ford Hospital
Detroit, Michigan
May 8 – 9, 1994

Visiting Professor of Orthopaedic Surgery
Department of Orthopaedic Surgery
University of Pittsburgh
Pittsburgh, Pennsylvania
April 25 – 26, 1995

Visiting Professor of Orthopaedics
Department of Orthopaedics
Milton S. Hershey Medical Center
Hershey, Pennsylvania
May 2 – 3, 1995

Visiting Professor of Orthopaedics and Keynote Speaker
Fourth Annual Research Day
Orthopaedic Hospital
Los Angeles, California
May 22 – 23, 1995

Visiting Professor of Orthopaedics
Case Western Reserve University
Cleveland, Ohio
September 29 – 30, 1995

Patrick J. Kelly Visiting Professor
Department of Orthopaedics
Mayo Clinic
Rochester, Minnesota
November 17 – 19, 1995

Annual Basic Science Visiting Professor
Grand Rapids Orthopaedic Surgery Residency Program
Grand Rapids, Michigan
October 29 – 30, 1996

Visiting Professor
Division of Endocrinology
Mayo Clinic
Rochester, Minnesota
August 18 – 19, 1997

Mallory-Coleman Visiting Professor
Division of Orthopaedic Surgery
Ohio State University
Columbus, Ohio
June 10 – 11, 1998

**VISITING PROFESSORSHIPS
AND NAMED LECTURESHIPS
(CONTINUED):**

Robert W. Johnson, Jr. Visiting Professor
The Johns Hopkins Medical Institutions
Department of Orthopaedic Surgery
Baltimore, Maryland
June 18 – 19, 1998

Harry J. Reicher Memorial Lectureship
New York University – Hospital for Joint Diseases
Department of Orthopaedic Surgery
New York, New York
December 17, 1998

Lauren Ackerman, M.D., Memorial Lecturer
The State University of New York at Stony Brook
Department of Orthopaedics and Program in Biomedical Engineering
Stony Brook, New York
May 12, 1999

Marshall J. Schiff, M. D. Memorial Lectureship
American College of Rheumatology
Philadelphia, Pennsylvania
October 30, 2000

SORT-IT Lecture
Scottish Orthopaedic Research Trust into Trauma
Edinburgh, Scotland
August 16, 2001

Distinguished Lecturer
Department of Orthopaedic Surgery
Washington University School of Medicine
St. Louis, Missouri
March 27-28, 2002

R. Plato Schwartz Visiting Professor
Department of Orthopaedic Surgery
University of Rochester Medical Center
Rochester, New York
May 10-11, 2002

James B. Wray, MD Visiting Professor
Department of Orthopaedic Surgery
Indiana University
Indianapolis, Indiana
June 5-7, 2002

Visiting Professor Pro Tempore
Department of Orthopaedic Surgery
The Cleveland Clinic Foundation
Cleveland, Ohio
June 12-14, 2002

**VISITING PROFESSORSHIPS
AND NAMED LECTURESHIPS
(CONTINUED):**

Visiting Professor
Department of Orthopaedic Surgery
Carolinas Medical Center
Charlotte, North Carolina
June 18-20, 2002

J.F.L. Woodbury Lecturer in Rheumatology
Department of Medicine
Dalhousie University
Halifax, Nova Scotia
May 6, 2003

Visiting Professor and Jeannette Wilkins Memorial Lecturer
University of Southern California – Graduate Orthopaedic Society
Los Angeles, California
June 19-20, 2003

Endocrine Scholar Lecturer
Division of Endocrinology and Metabolism
University of Connecticut Health Center
Farmington, Connecticut
February 10, 2004

Visiting Professor of Orthopaedic Surgery
Fourth Annual Resident Research Day
St. Luke's-Roosevelt Hospital Center
New York, New York
June 17, 2004

Distinguished Lecturer
The Hospital for Special Surgery
New York, New York
September 10, 2004

Wesley Burnham Lecturer
Hennepin County Medical Center
34th Annual Orthopaedic and Trauma Seminar
November 11-13, 2004

Leo Leung Memorial Lecturer
Department of Orthopaedic Surgery
University of Pennsylvania
May 5, 2005

MEDICAL INVENTIONS:

"Einhorn Bone Biopsy System"
U.S. Patent No. 4,782,833
Stryker Corporation (licensee)
Kalamazoo, Michigan

PEER-REVIEWED MANUSCRIPTS:

1. Francis, W.R., Einhorn, T.A., and Fielding, J.W.:Osteoid Osteoma of the Thoracic Spine.CLIN. ORTHOP., 149:175-176, 1980.
2. Einhorn, T.A., Lane, J.M., Burstein, A.H., Kopman, C.R, and Vigorita, V.J.:The Healing of Segmental Bone Defects Induced by Demineralized Bone Matrix. A Radiographic and Biomechanical Study.J. BONE JOINT SURG., 66A:274-279, 1984.
3. Inserra, S., Einhorn, T.A., Vigorita, V.J., and Smith, A.G.: Intraosseous Xanthoma Associated with Hyperlipoproteinemia: A Case Report.CLIN. ORTHOP., 187:218-222, 1984.
4. Einhorn, T.A.: Osteoporosis and Metabolic Bone Disease. ADV. ORTHOP SURG. 8:175-184, 1984.
5. Lane, J.M., Healy, J., Schwartz, E.R., Vigorita, V.J., Schneider, R., Einhorn, T.A., Suda, M.D, and Robbins, W.:Treatment of Osteoporosis with Sodium Fluoride and Calcium: Effect on Vertebral Fracture Incidence and Bone Histomorphometry. ORTHOP. CLIN. NORTH AMERICA, 15:729-745, 1984.
6. Bonnarens, F., and Einhorn, T.A.,:Production of a Standard Closed fracture in Laboratory Animal Bone.J. ORTHOP. RES. 2:97-101, 1984.
7. Einhorn, T.A., Gordon, S.L., Hummel, C.F., Siegel, S.A., Avitable, M.J., and Carty, R.P.:Matrix Vesicle Enzymes in Human Osteoarthritis.J. ORTHOP. RES., 3:160 - 169, 1985.
8. Einhorn, T.A., Vigorita, V.J., and Teitcher, J.:Hyperphosphatasemia in an Adult:Clinical Roentgenographic and Histomorphometric Findings and Comparison to Classical Paget's Disease.CLIN. ORTHOP., 204:253-260, 1986.
9. Einhorn, T.A., Vigorita, V.J., and Aaron, A.:Localization of Technetium 99m Methylene Diphosphonate in Bone using Microautoradiography. J. ORTHOP. RES., 4:180-187, 1986.
10. Vigorita, V.J., Anand, V.S., and Einhorn, T.A..:Sampling Error in Diagnosing Hyperparathyroid Changes in Bone in Small Needle Biopsies. AM. J. SURG. PATH., 10 (2): 140-142, 1986.
11. Einhorn, T.A., Bonnarens, F., and Burstein, A.H.:The Contributions of Dietary Proteinand Mineral to the Healing of Experimental Fractures:A Biomechanical Study.J. BONE JOINT SURG., 68A:1389-1395, 1986.
12. Phelps, K.R., Einhorn, T.A., Vigorita, V.J., Lieberman, R.L., and Uribarri, J.: Acidosis-Induced Osteomalacia: Metabolic Studies and Skeletal Histomorphometry. BONE,7:171-179, 1986.
13. Phelps, K.R., Einhorn, T.A., Vigorita, V.J., Lundin, A.P., and Friedman, E.A.: Fracture Healing with Deferoxamine Therapy in a Patient with Aluminum-Associated Osteomalacia. TRANS. AM. SOC. ARTIF. INTERN. ORGANS, 32:198-200, 1986
14. Einhorn, T.A.: Evaluation and Treatment Methods for Metabolic Bone Disease.CONTEMP. ORTHOP., 14:21-34, 1987.
15. Vigorita, V.J., Einhorn, T.A., and Phelps, K.R.:The Microscopic Bone Pathology in Two Cases of Surgically Treated Secondary Hyperparathyroidism:A Report of a Distinct Skeletal Lesion. AM. J.SURG. PATH., 11:205-209, 1987.
16. Einhorn, T.A., Boskey, A.L., Gundberg, C.M., Vigorita, V.J., Devlin,V.J., and Beyer, M.M.: The Mineral and Mechanical Properties of Bone in Chronic Experimental Diabetes. J. ORTHOP. RES., 6:317-323, 1988.
17. Phelps, K.R., Vigorita, V.J., Bansal, M., and Einhorn, T.A.: Histochemical Localization of Iron but not Aluminum in a Case of Dialysis-Associated Osteomalacia. AM. J. MED., 84:775-780, 1988.
18. Devlin, V.J., Einhorn, T.A., Gordon, S.L., Alvarez, E.V., and Butt, K.M.H.: Total Hip Replacement After Renal Transplantation. Long Term Follow-up and Assessment of Metabolic Bone Status. J. ARTHROP., 3:205-214, 1988.

PEER-REVIEWED MANUSCRIPTS (CONTINUED):

19. Einhorn, T.A., Gundberg, C.M., Devlin, V.J., and Warman, J.: Fracture Healing and Osteocalcin Metabolism in Vitamin K Deficiency. CLIN. ORTHOP., 237:219-222, 1988.
20. Jacobs, S.J., Gilbert, M.S., and Einhorn, T.A.: The Treatment Fractures in Uremic Bone Disease. Causes of Failure and Optimization of Healing. CONTEMP. ORTHOP., 18:23-35, 1989.
21. 20. Phelps, K.R., Einhorn, T.A., Vigorita, V.J., Jones, G., and Lundin, A.P.: Persistence of Dialysis Osteomalacia Despite Treatment with 24R,25-Dihydroxycholecalciferol. NEPHRON, 51:197-206, 1989.
22. Verhaeghe, J., Suiker, A.M.H., Nyomba, B.L., Visser, W.J., Einhorn, T.A., Dequeker, J., and Bouillon, R.: Bone Mineral Homeostasis in Spontaneously Diabetic BB Rats, II. Impaired Bone Turnover and Decreased Osteocalcin Synthesis. ENDOCRINOLOGY, 124:573-582, 1989.
23. Einhorn, T.A., Hirschman, A., Kaplan, C., Nashed, R., Devlin, V.J., and Warman, J.: Neutral Protein-Degrading Enzymes in Experimental Fracture Callus. J. ORTHOP. RES. 7:792-805, 1989.
24. Horowitz, M.C., Coleman, D.L., Ryaby, J.T., and Einhorn, T.A.: Osteotropic Agents Induce the Differential Secretion of Granulocyte - Macrophage Colony-Stimulating Factor by the Osteoblast Cell Line MC3T3-E1. J. BONE MINER. RES., 4:911-921, 1989.
25. Horowitz, M.C., Einhorn, T.A., Philbrick, W., and Jilka, R.L.: Functional and Molecular Changes in Colony Stimulating Factor Secretion by Osteoblasts. CONNECT. TISSUE RES., 20:159-168, 1989.
26. Einhorn, T.A., and Grelsamer, R.: The Use of Bone Grafts for Support and Fixation in Revision Total Hip Arthroplasty. BULL. HOSP. JT. DIS. ORTHOP. INST., 49:10-20, 1989
27. Schwartz, M.E., Harrington, E.B., Harrington, M., Miller, C.M., Einhorn, T.A., McGinnis, K., and Haimov M.: Above-knee Amputation in Patients with Prior Prosthetic Hip Surgery: A Caveat: J. VASC. SURG., 11:480-481, 1990.
28. Labat, M.L., Bringuier, A-F., Chandra, A., Einhorn, T.A., and Chandra, P.: Retroviral Expression in Mononuclear Blood Cells Isolated from a Patient with Osteopetrosis (Albers-Schönberg Disease). J. BONE MINER. RES., 5:425-435, 1990.
29. Verhaeghe, J., Van Herck, E.V., Visser, W.J., Suiker, M.H., Thomasset, M., Einhorn, T.A., Faierman, E., and Bouillon, R.: Bone and Mineral Metabolism in the Long-Term Diabetic BB Rat: Decreased Bone Turnover and Osteoporosis. DIABETES, 39:477-482, 1990.
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31. Einhorn, T.A., Simon, G., Devlin, V.J., Warman, J., Sidhu, S.P.S., and Vigorita, V.J.: The Osteogenic Response to Distant Skeletal Injury. J. BONE JOINT SURG. 72A:1374-1378, 1990.
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