

CURRICULUM VITAE

Ira H. Kirschenbaum, MD
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APPOINTMENTS/EMPLOYMENT

Chairman, Department of Orthopaedic Surgery, Bronxcare Health System, Bronx, NY, 2008-present
Program Director, Fellowship in Adult Joint Reconstruction, Bronxcare Health System, 2015-present
Board Member, SwiftPath, LLC (partially owned by Optum through 2019)- 2014-present
Chief Technology Officer, SwiftPath LLC, 2014-present
Chairman, Editorial Board, Medscape Orthopaedics
Founding Executive Director, Medscape Orthopaedics 1994-2000
Community Health Editor, Orthopaedics, WebMD, 2001-2008
Director of Surgical Operations, Bronx-Lebanon Hospital Center, Bronx, NY, 2016-2018
Private Practice, Orthopaedic Surgery, Joint Reconstruction, 2000-2008
Managing Partner, Westchester Bone and Joint Associates, White Plains, NY 1995-2000
Chief, Adult Reconstructive Surgery, Kaiser Permanente, Northeast Region, 1990-2000
Director of Orthopaedic Business Resources, Kaiser Permanente, Northeast Region, 1992-1995
Assistant Clinical Professor of Orthopaedic Surgery, NYU/Langone, New York, 1991-2012
Attending Orthopaedic Surgeon, White Plains Hospital Center, White Plains, New York, 1991-2008
Attending Orthopaedic Surgeon, Westchester Orthopaedic Institute, White Plains, New York, 1995-2008
Attending Orthopaedic Surgeon, Burke Rehabilitation Hospital, White Plains, NY, 1991-2008

GAPS IN EMPLOYMENT

Not-applicable

EDUCATION

College

ScB with Honors, Magna Cum Laude, 1979, Brown University, Providence, RI

Medical School

MD, 1984 Albert Einstein College of Medicine, Bronx, NY

Post Graduate Training

1984-1985 Internship in General Surgery, Montefiore Medical Center, Bronx Municipal Hospital Center, Albert Einstein College of Medicine, Bronx, NY

1985-1986 Fellowship in Geriatric and Orthopaedic Research, Montefiore Medical Center, Albert Einstein College of Medicine, Bronx, NY

1986-1990 Residency in Orthopaedic Surgery, Montefiore Medical Center, Bronx Municipal Hospital Center, Albert Einstein College of Medicine, Bronx, NY

1990-1991 Fellowship in Joint Replacement Surgery, The Rothman Institute, Pennsylvania Hospital, Thomas Jefferson University, Philadelphia, PA

Kellogg School of Management, Northwestern University, 2009- AOA Leadership Series, Certificate Program

Harvard Business School, 2011-2012. 9-month program: Managing Health Care Delivery, Certificate Program

Harvard Business School. 2018: Value Measurement in Healthcare, Certificate Program

CERTIFICATION

1986, National Board of Medical Examiners

1993-2003 Diplomate, American Board of Orthopaedic Surgery, Recertification 2003-2013, Recertification 2013-2023

LICENSURE

1985, New York State, 162875

HONORS AND AWARDS

The 1994 James A. Vohs Award for Quality

The Award recognizes exceptional efforts in the Kaiser Permanente regions to provide outstanding quality of care and service to patients, with an emphasis on multidisciplinary teamwork.

1989, Orthopaedic Research and Education Foundation, Department Grant Award 89-39D

1979, Sigma Xi, Brown University

PATENTS

Patent # WO2008097382A3- Short use system and method for adaptive radiation protection

A short use or disposable system and method for adaptive window-capable radiation protection provides a disposable outer covering for securing one or more flexible and overlappable radiation shield members relative to a user using a variety of features including pockets, pocket defining members, fitting aid members, and fixing and releasing points. Features allow conveniently securing multiple layers of reusable shields in disposable coverings and providing pre-selected and assembled shielding kits for specific uses. Variants provide adaptive shielding sheets that may be customized to a particular patient need or injury profile.

Patent # US20100191195A1- Cannulated apparatus and method relating to microfracture and revascularization methodologies (reapplication)

The present invention relates to a cannulated microfracture kit, apparatus, and method for using the same during a medical treatment. The present kit enables precise and repeated positioning, the regulation and repetition of microfracture force application, and a control of a mosaic bone penetration and other surgical control improvement features. The present invention overcomes the detriments resultant from prior techniques in an apparatus that is readily adaptable to a variety of adaptive orthopedic surgical procedures. Assembled and selectable kits are provided.

Design: Linear Hip System, Encore Orthopaedics (now DJO Global)

The Linear is a versatile hip system that incorporates a reduced lateral shoulder, proximal fixation and reduced distal geometry. In combination, these design features provide an inherently stable and ideal implant for multiple surgical approaches to total hip arthroplasty.

Design: Kirschenbaum Foot Positioner for Total Knee Replacement, Innomed, Inc

The foot rest is dome shaped for optimal foot contact and positioning the leg in flexion, and can be rotated. The unit can be used under the drape by attaching it to a standard table attachment or it can be sterilized for use on top of the drape. It can be attached to the table with the optional sterilizable table clamp. The foot rest is supplied with a removable, sterilizable silicone foot pad.

Design: Kirschenbaum Acromioplasty Retractor, Innomed, Inc

Designed to fit under the posterior edge of the acromion and lever the humeral head down out of the way. Helps to protect both the posterior aspect of the shoulder and the articular surface of the humeral head during open acromioplasty and rotator cuff surgery.

Design: Kirschenbaum/Meftah Offset Rongeur, Innomed, Inc

Designed to have two separate heads, one with a low profile to fit into tight spaces between soft tissues and bone.

Design: Meftah/Kirschenbaum Graft Box

Sterilizable and lockable intraoperative box to store valuable graft material for the case

OTHER PROFESSIONAL ROLES

American Academy of Orthopaedic Surgeons, Fellow- 1993-Present

American Association of Hip and Knee Surgeons- 1995-Present

Orthopaedic Research Society (1991-2000)

Credentials Committee, Bronxcare Health System

Operating Room Committee, Bronxcare Health System

RESEARCH PROFILE

My research accomplishments and contributions have been in the areas of health information technology in healthcare and in the clinical area of adult reconstructive surgery of the hip and knee. Early in the 1990's I programmed and developed a comprehensive orthopaedic learning environment on the Internet. I merged this product with a newly found company, Medscape, and became the founding Executive Director of Medscape Orthopaedics. This eventually became part of the WebMD Family and continues to be a major source of medical information and education. I continue to serve as the Editor of Medscape Orthopaedics. Other sustainable information technology accomplishments in health information technology were the development of OrthoTrak, a popular case logging database in the 1990's and development of one of the earliest paperless systems for management of medicolegal documentation (StarMed). Additionally I was a member of the team to develop the first website of the American Academy of Orthopaedic Surgeons. I have lectured and written extensively in the health information technology space. In the area of joint replacement I was a senior consultant on the team that developed the Triathlon Partial Knee Replacement (Stryker, Inc.). I have also produced academic videos on techniques in adult reconstructive surgery. I have written on numerous topics related to joint replacement and in the last five years have focused my clinical research on orthopaedic problems facing indigent populations including access to care, health literacy, as well as joint replacement in high comorbid populations.

CLINICAL PROFILE

Since the start of my clinical career I have focused on the development of quality surgical systems to deliver care. Early on, in 1994, this focus led to my being awarded the Vohs Award for Quality. This award is given to a single Kaiser program in the nation that innovates patient-based clinical programs. My program was a patient-centered joint replacement program that increased quality while decreased costs. After leaving Kaiser Permanente I started a solo joint replacement practice focused on quality and patient satisfaction. In my last year of this practice I performed over 450 major procedures a year and was a regional and national leader in partial knee replacements. This patient-based clinical focus was carried to

the BronxCare Health System (BCHS). BCHS services the poorest congressional district in the United States and when I took over as chairman, the previous department saw ~3500 clinic visits and ~200 operations. This was with three partially dedicated surgeons. I clinically, organizationally, and financially revamped the department to the point where we now have 14 orthopaedic providers, see over 50,000 clinic visits a year, and perform over 1800 major procedures a year. Our focus on patient satisfaction, safety, and surgical excellence is regionally and even nationally known.

IMPACT

I believe I have had impact on students, the field of health information technology, and also on the clinical area of joint replacement surgery. For students, I founded and continue to coordinate a pre-med summer fellowship for rising juniors and seniors in college. We are now entering our sixth summer of this exciting program. 6-8 Students a summer come to New York City and spend 8 weeks in our department in an organized program to afford them full immersion in medicine. The students go the operating room, shadow, in clinic, have two cadaver labs, one fracture lab, and a device company plant tour. They also, in week two of the fellowship start clinical research projects. The fellowship is fully supported by the faculty practice fund so students get their living expenses and travel paid for and also get a stipend for participation. Multiple abstracts originated in this program and one won a national award at last year conference OrthoSummit Evolving Technologies 2018.

In Health Information Technology, my working in founding and developing Medscape Orthopaedics has produced a sustainable online learning system and community now in operation for nearly twenty-five years. I have written a number of publications in this field including an EMR Primer for the American Academy of Orthopaedic Surgeons, and book on Orthopaedic Templates, a book on mobile applications, and numerous publications and communications in orthopaedic journals. I am a frequent lecturer on this topic for many societies. In practice management, I co-chaired a multi-year course with Kevin Bozic, MD, Chairman and Dean at Dell Medical School, University of Texas Austin. I continue to be chair of the instructional course lecture series committee for the Annual Meeting of the American Academy of Orthopaedic Surgeons.

GRANTS

1989, Orthopaedic Research and Education Foundation, Department Grant Award 89-39D
This grant was to purchase and outfit a new health information technology laboratory at Montefiore Medical Center where, at the time I was a research fellow.

ADMINISTRATIVE LEADERSHIP APPOINTMENTS

INTERNAL

Chairman, Operating Room Committee, 2011-2015, BronxCare Health System
Member, Operating Room Committee, 2008-Present, BronxCare Health System
Chairman, Operating Room Products Committee, BronxCare Health System
Member, Medical Executive Council, BronxCare Health System

EXTERNAL

American Academy of Orthopaedic Surgeon, Chairman, ICLS Practice Management Committee
2018-2022
Medscape Orthopaedics, Chair, Editorial Advisory Board, 2012-Present
RAND-AMA-PCPI Office of National Coordinator for Health IT Expert Panel on Clinical
Decision Support – Orthopedics- Panel Member- 2011
American Academy of Orthopaedic Surgeons ICLS Practice Management Committee, 2015-2018
American Academy of Orthopaedic Surgeons HITECH Committee, 2011-2013
American Academy of Orthopaedic Surgeon Electronic Medical Record Primer Editor- 2011
American Academy of Orthopaedic Surgeons EMR Project Team- 2010-2011

American Academy of Orthopaedic Surgeons Committee on Electronic Media- 2002-2008
 American Academy of Orthopaedic Surgeon Technology Skills Pavilion Faculty- 2001-2011
 American Academy of Orthopaedic Surgeon Instructional Course Lecture Faculty- EMR, Computers, Paperless Offices- 1995-2014
 American Academy of Orthopaedic Surgeons Internet Steering Committee- 1992-1995
 American Academy of Orthopaedic Surgeons Computer Boot Camp- Faculty- 1992-1995
 WebMD, Orthopaedic Blog Editor, Arthritis and Joint Replacement, 2002-2006
 WebMD, Columnist, Mad About Medicine Blog, 2002-2006
 Medscape, Executive Director, 1994-1999
 Team Physician, Mt. Vernon Athletics and Basketball (NYS Champions)- 2004-present
 Team Physician Edgemont Football (NYS Champions)- 2005-2008
 Team Physician, Tuckahoe High School Athletics and Football (NYS Champions)-2005-2008
 Administrative Team Physician, Monroe College, NCAA Division III-2012-2015
 Journal of the American Academy of Orthopaedic Surgeons- Consulting Editor for Digital Information- 2003
 Journal of Arthroplasty, Editorial Board, 1998-2001
 Police Surgeon, Mamaroneck, NY 2001-2007
 Arthritis Foundation, Hudson Valley Chapter, Advisory Board, 1996-2003
 Arthritis Foundation, Hudson Valley Chapter, Program Committee, 1996-2002
 Arthritis Foundation, Hudson Valley Chapter and the Orthopaedic Research and Education Foundation, Program Chairman, The Joint Parade, Westchester County 1997
 American Academy of Orthopaedic Surgeons, On-Line Internet Program, Board of Editors, 1995-2000
 American Academy of Orthopaedic Surgeons, Orthopaedic Boot Camp, Faculty, 1995-96
 American Academy of Orthopaedic Surgeons, Committee on Electronic Media Education, 1997-2003
 White Plains Hospital Center, Physicians Organization Board of Directors
 White Plains Hospital Center, Physicians Organization Contracting Committee
 White Plains Hospital Center, Medical Management Committee- Physician Hospital Organization (PHO) 1994-1996
 White Plains Hospital Center, Utilization Management Committee- 1993-2007
 White Plains Hospital Center, Transfusion Committee- 1996-2007
 Kaiser Permanente, New York Permanente Medical Group, Board of Directors, 1994-1995
 Chief, Adult Reconstruction Orthopaedic Surgery, Kaiser Permanente, New York, 1991-1995
 Director of Orthopaedic Resource Management, Kaiser Permanente, Northeast Region, 1991-1994
 CISAC (Clinical Information Services Advisory Committee)- Kaiser Permanente regional committee with responsibility to coordinate all computer-related information services, 1994
 Cost Structure Task Force- Kaiser Permanente committee with regional representation designed to develop new programs to improve quality and increase cost
 Clinical Pathways Committee, White Plains Hospital Center- 1995-2007
 Credentials Committee, White Plains Hospital Center 2002-2007
 Evaluator, Orthopaedic Knowledge Update CD-ROM, 2002
 Evaluator, Journal of Bone and Joint Surgery CD-ROM, 2003
 Program Consultant Orthopaedic Grand Rounds Multimedia Program, Seven Volume CD-ROM Set, American Academy of Orthopaedic Surgeons, 1998

PUBLICATIONS

PEER REVIEWED ORIGINAL CONTRIBUTIONS

1. Kirschenbaum I, Hamerman D, Mikolay L, Klagsbrun M: Chondrogenic effects of a growth factor derived from cartilage. Clin Res 1984 32:663A.
2. Kirschenbaum I, Hamerman D, Mikolay L, Klagsbrun M: A cartilage-derived growth factor enhances chondrocyte hyaluronate synthesis. Fed Proc 1984 43:705.

3. Hamerman D, Kirschenbaum I, Klagsbrun M: Effects of a cartilage-derived growth factor on chondrocytes. *Br J Rheum* 1984 23:133.
4. Hamerman D, Kirschenbaum I, Pelczar C, Klagsbrun M, Sasse J: Growth factors in synovial fluid. *Sand S Rheum* 1986 S60.
5. Hamerman D, Taylor S, Kirschenbaum I, Klagsbrun M, Raines EW, Ross R, Thomas K: Growth factors with heparin-binding affinity in human synovial fluid. *Proc Soc Exp Biol and Med* 1987 186:384-389.
6. Kirschenbaum I, Hamerman D, Klagsbrun M, Sasse J: Growth factors in synovial fluid. *Trans Orthop Res Soc.* 1987.
7. Kirschenbaum IH, Lee M, Hirsh D: Patellofemoral arthralgia: Long-term results of the Maquet procedure. *Orthop Trans* 1988 12:547.
8. Kirschenbaum IH, Giangarra C, Macy NJ: Mid-Shaft forearm fractures in children. *Orthop Trans* 1989 13:604.
9. Kirschenbaum IH, Vernace IV, Booth RE Jr, Balderston RA, Rothman RH: Total hip arthroplasty for osteonecrosis. *Sem Arthroplasty* 1991 2:234-240.
10. Kirschenbaum IH, Rothman RH: The technique of cemented total hip arthroplasty. *Tech Orthop* 1991 6:26-33.
11. Kirschenbaum IH: Basic principles of hydroxyapatite in joint replacement surgery. *Sem Arthroplasty* 1991 2:252-259.
12. Kirschenbaum, IH: Making 35 mm slides using a computer. A physicians perspective. *Sem Orthop* 1992 7.
13. Taylor SM, Kirschenbaum, IK: Multimedia case presentations. *Sem Orthop* 1992 7
14. Kirschenbaum IH, McAllister CM: The Use of Grafts in Arthroplasty Surgery. *Sem Arthroplasty* September 1993.
15. Kirschenbaum IH, Ververelli P, Booth RE Jr.: Internal allograft augmentation for supracondylar fractures after total knee arthroplasty. *Contemporary Orthopaedics*, 1996.
16. Utilisation of a repress model in primary joint arthroplasty, M Meftah, I Kirschenbaum, *Orthopaedic Proceedings, The British Editorial Society of Bone & Joint Surgery*, 99 (SUPP_5),5-5
17. Meftah M, White P, Siddiqi A, Perake V, Kirschenbaum I. Routine Preoperative Venous Doppler Screening Is Not Effective in Preventing Thromboembolic Events After Total Joint Arthroplasty. *Orthopedics*. 2018; 41(2):e202-e206. 2017
18. Meftah M, Siddappa VH, Siddiqi A, Kirschenbaum I. 6. Tranexamic Acid Reduces Transfusions Rates in Morbidly Obese Patients undergoing Total Joint Arthroplasty. *Surgical Technology International*, Volume 34. 2018
19. Siddappa VH, Meftah M, Satalich J, Kirschenbaum I. Piriformis Sparing Modified Posterolateral Approach in Total Hip Arthroplasty. Submitted to *J Bone and Joint Surg Essential Surgical Techniques*. 2018.
20. Meftah M, Siddappa VH, Satalich J, Kirschenbaum I. Customized Articulating Cement Spacer with Stem Extension for Treatment of Periprosthetic Joint Infection. Submitted to *J Bone and Joint Surg Essential Surgical Techniques*. 2018.
21. M Meftah, I Kirschenbaum, Safety criteria for short stay after total joint arthroplasty, *Orthopaedic Proceedings* 101 (SUPP_4), 38-38, The British Editorial Society of Bone & Joint Surgery
22. M Meftah, I Kirschenbaum, Cost saving in total joints: lessons learned, *Orthopaedic Proceedings The British Editorial Society of Bone & Joint Surgery*, 101 (SUPP_4), 37-37 2019
23. Meftah M, Plassche G, Silverman A, White P, Kirschenbaum I. Total Joint Arthroplasty in Immunocompromised Patients: a Matched Pair Analysis for Comorbidities. *Current Orthopaedic Practice*, May/June 2019, Volume 30, Issue 3, p. 246-249.
24. Meftah M, Boenerjous-Abel S, Siddappa VH, Kirschenbaum I. Efficacy of Regional Adductor Canal Block using Extended Release Liposomal Bupivacaine in Total Knee Arthroplasty: A Randomized Prospective Study. 2019 *Orthopaedics*
25. H Patel, H Abbas, A Baiomi, E Shehi, J Miranda, I Kirschenbaum, Pre-Operative Treatment of Hepatitis C Infection Decreases Post-Operative Complications in Patients Undergoing Knee and Hip Arthroplasty: 2962 *American Journal of Gastroenterology* 114
26. Using Emergency Department Data to Inform Specialty Strategy: Analyzing the Distribution of 13,777 Consecutive Immediate Orthopaedic Consults in an Urban Community Emergency Department, Jalen N. Broome, Richard C. Jarvis III, Ariel R.C. Silverman, Grace C. Plassche, Ira

H. Kirschenbaum, MD, Journal of the American Academy of Orthopaedic Surgeons, Accepted for publication 1/15/20.

OTHER PEER REVIEWED PUBLICATIONS

1. Kirschenbaum IH: Reconstruction for defects in the proximal part of the femur using allograft arthroplasty. Letter to the editor, J Bone Joint Surg 1988 70A: 1113.
2. Kirschenbaum IH: The displaced femoral neck fracture: Internal fixation versus bipolar endoprosthesis. Results of a prospective randomized comparison. Letter to the editor. Clin orthop 1989 240:311.
3. Kirschenbaum IH, Kupcha P, Vresilovic E, Booth RE Jr, Hozack WJ, Rothman RH: Hip and Knee Arthroplasty: Annotated Bibliography of the 1990 Literature. Sem Orthop 1991 6:1-61.
4. Optimizing Unicompartmental Knee Replacements, DVD Surgical Technique, American Academy of Orthopaedic Surgeons, 2004.
5. Removal of Monoblock Cementless Total Knee Replacement, AAOS Annual Meeting, Video Instructional Orthopaedic Theater, Chicago, 2013.
6. Kirschenbaum IH, Koras M, Taylor SM, ed: Computers in Academic and Clinical Orthopaedic Surgery. Sem Orthop 1992 7

INVITED CONTRIBUTIONS

1. Kirschenbaum IH, Miller-Breslow A, Macy NJ: Potts paraplegia. Einst Quart 3 Biol Med 1989 7:94-102
2. Habermann ET, Hannafin JA, Kirschenbaum IH, McAllister CM: Guest Editors, Advances in Orthopaedic Surgery. Einst Quart J Biol Med 1989 7.
3. Lectures in Joint Arthroplasty. Six volume slide series covering topics in hip and knee arthroplasty. WB Saunders, 1995.
4. Contributing author, The Female Body, An Owners Manual, by the Editors of Prevention, sections on hip replacement and osteoporosis, Rodale Press, 1996.
5. Kirschenbaum IH, Taylor SM, McDermott, Hamilton W, Scranton P: Current Foot Treatment Strategies, Multimedia Case Presentations, Committee on the Foot and Ankle, American Academy of Orthopaedic Surgeons, Annual Meeting, Anaheim, CA, 1991, Washington DC, 1992, San Francisco, CA 1993, New Orleans, LA 1994, published in J Arthroplasty, 1994.
6. Kirschenbaum, III: Major technology issues in surgical data collection. Journal of Healthcare Resource Management 1995 Vol 13 10:17.
7. The Successful Electronic Medical Office, The Web and Wireless Review Column, Journal of the American Academy of Orthopaedic Surgeons, 2003 Vol. 11:3, May/June.
8. MD Consult, The Web and Wireless Review Column, Journal of the American Academy of Orthopaedic Surgeons, 2003 Vol. 11:4, July/August.
9. The Log of Daily Internet Use, The Web and Wireless Review Column, Journal of the American Academy of Orthopaedic Surgeons, 2003 Vol. 11:5, September/October.
10. Medical Marketing on the Internet. Journal of the American Academy of Orthopaedic Surgeons, November, 2008.
11. Add-on Apps Can Supercharge Your Orthopedic EHR, Feature Article, Medscape Business of Medicine, April, 2014.
12. Will Spine Surgeons be the Next Specialists Scooped up by Hospitals? 6 Responses. Becker's Orthopaedics, Spine, and Pain management Review. August 2011.
13. What Factors into the Employment Decision for Spine Surgeons? 6 Responses. Becker's Orthopaedics, Spine, and Pain management Review. September 2011.
14. 5 Points on a Successful Orthopaedic Department Business Plan, Becker's Orthopaedics, Spine, and Pain management Review. September 2011.

15. Leadership During Hospital Alignment: 6 Points for Orthopaedic Groups. Becker's Orthopaedics, Spine, and Pain Management Review. September 2011.
16. Information technology as Communication, Physician's Weekly Feature. April 2012.
17. The Organization of an Operations Team for Efficiency, DOTMed Business News. April 2012.
18. Service Line Leadership vs. Management: Why Hospitals Need Both. Becker's Hospital Review. June 2012.
19. 3 Universal Behaviors of Successful Hospital Service Line Leaders. Becker's Hospital Review. June 2012.
20. 6 Characteristics of ASC's and How to Fix Them. Becker's Hospital Review. November 2012.
21. Is a Paperless Office Really Achievable? Medical Office Today. April 2013.
22. 10 "Killer Apps" for Physicians, MDDI. May 2013.
23. A need for EMR Templates in Orthopaedics, Becker's Spine Review. June 2013.
24. How to Turn Your Smart Idea into a Bankable Invention, Medscape Business. December 2013.
25. Landmarks in Orthopaedics: A 20-Year Perspective. Medscape Business. April 2015.
26. Doctors' Love-Hate Relationship with Second Opinions. Medscape Business June 2015.

BOOKS AND BOOK CHAPTERS

1. Optimizing an Electronic Medical Office for Joint Reconstruction. OKU2- Hip and Knee Reconstruction, American Academy of Orthopaedic Surgeons.
2. Optimizing the Development and Implementation of an Electronic Paperless Medical Office. Publication in American Academy of Orthopaedic Surgeons, Instructional Course Lecture Series, 2007.
3. Optimizing a Paperless Electronic Office, Chapter in Instructional Lectures, Book Chapter, Volume 57.
4. The OMG EMR Template Book, Ira H. Kirschenbaum, MD, DTC Healthcom Press, 2013
5. Don't Know Much About Joints, The Hip, Ira H. Kirschenbaum, MD, DTC Healthcom Press, 2014.

NON-PEER REVIEWED PUBLICATIONS

1. Project Developer- Introduction to Orthopaedics, CD-ROM Format, Distributed by Howmedica, Inc., Rutherford, NJ.
2. Partial Knee Replacement: Step-by-Step, YouTube Video, DTC Healthcom Channel, Ortho Bullets, Over 230,000 views, 2013-Present.
3. Total Knee Replacement Instructional Video, YouTube, Over 190,000 Views, 2013-Present.

INVITED LECTURES PRESENTATION

1. Crucial Decisions in Hip Arthroplasty, Co-Course Chairman, Post-Graduate Course in Hip Surgery, Sponsored by The Rothman Institute, Pennsylvania Hospital, Thomas Jefferson University, Bermuda, 1991.
2. Co-Course Director, Total Joint Replacement Nursing, Sponsored by Kaiser Permanente and the Department of Nursing, White Plains Medical Center, October 31, 1992.
3. Comparison of Total Knee Replacement Designs- Implications for Surgeon Decision Making, Lecture at Advanced Sales Training School, Howmedica, Inc., Pfizer Hospital Products Group, Rutherford, NJ, 1992.
4. Total Joint Replacement Program, Invited lecture to discuss the results of an innovative, comprehensive program designed to improve quality and significantly diminish resource utilization, National Interregional Conference, Kaiser Permanente, Oahu, HI, 1993.
5. Interregional Conference on Utilization Management, Presentation on quality resource management in joint replacement surgery, Kaiser Permanente, San Francisco, CA, 1993

6. Development and Strategic Planning of Total Joint Replacement Programs, Invited lecture at Naples Community Hospital, Naples, FL, 1993.
7. Crucial Decisions in Hip Arthroplasty, Invited lectures on hip arthroplasty surgery, Postgraduate Course in Hip Surgery, Sponsored by The Rothman Institute, Pennsylvania Hospital, Thomas Jefferson University, Bermuda, May 1994.
8. Total Joint Replacement Program, Invited lecture to discuss the results of an innovative, comprehensive program designed to improve quality and significantly diminish resource utilization, National Interregional Conference, Kaiser Permanente, Oahu, HI 1994
9. Course Chairman, Crucial Decisions in Hip arthroplasty, Post-Graduate Course in Hip Surgery, Sponsored by The Rothman Institute, Pennsylvania Hospital, Thomas Jefferson University, Naples, FL, May 1995.
10. Current Trends in the Musculoskeletal Market Place Quality Resource Management in Orthopaedic Surgery, Conference sponsored by Medical Data International, Orlando, 1995
11. Economic Opportunities in Musculoskeletal Medicine Use of Critical Pathways in Orthopaedic Surgery, Opportunities for Vendors, Sponsored by Medical Data International, Chicago, IL, June, 1995
12. Current State of Managed Care, Presentation to the Medical Group Management Association, New York, October, 1995
13. Course Faculty, Instructional Course Lecture Series, American Academy of Orthopaedic Surgeons, Critical Pathways in a Managed Care Setting, Annual Meeting, Atlanta, GA, February, 1996.
14. Course Faculty, Instructional Course Lecture Series, American Academy of Orthopaedic Surgeons, Critical Pathways in a Managed Care Setting, Annual Meeting, San Francisco, CA, February 1996.
15. Course Chairman, Crucial Decisions in Hip and Knee Arthroplasty, Post-Graduate Course in Hip and Knee Surgery, Sponsored by The Rothman Institute, Pennsylvania Hospital, Thomas Jefferson University, Bermuda, May 1996.
16. Course Faculty, Instructional Course Lecture Series, American Academy of Orthopaedic Surgeons, Basic Computer Applications in Orthopaedic Surgery, Annual Meeting, San Francisco, CA, February, 1997.
17. Course Faculty, Instructional Course Lecture Series, American Academy of Orthopaedic Surgeons, Optimizing Orthopaedic Interactions on the Internet, Annual Meeting, New Orleans, LA, March, 1998.
18. Visiting Professor, New York University/Hospital for Joint Diseases, September 1999
19. Visiting Professor Northwestern University, Department of Orthopaedic Surgery, March 1999
20. Special Visiting Faculty, Australian Orthopaedic Association, Computer and Internet Applications in Orthopaedics, Brisbane, Australia, 2000
21. The Campbell Clinic, Memphis Tennessee, Annual Willis Campbell Lecture, 2001
22. Technology Pavilion Speaker, American Academy of Orthopaedic Surgeons Annual Meetings 2002-2006.
23. Memorial Leinbach Lecture, Reading Pennsylvania, November 2003
24. Instructional Course Lecture Coordinator- Two day course- Electronic Medical Offices- Theory and Clinical Applications, New Orleans, February, 2003.
25. The Changing Landscape of Unicompartmental Arthritis. Lecture at the American Academy of Orthopaedic Learning Center. Hands-on Workshop- Unicompartmental Knee Arthroplasty. May 2004.
26. American Orthopaedic Association, Guest Lecturer, Symposium- The Total Electronic Office, June, 2004
27. Visiting Professor, Robert Wood Johnson Medical Center, May 2004
28. Moderator, Instructional Course Lecture, American Academy of Orthopaedic Surgeons, Optimizing a Paperless Electronic Medical Office, Annual Meeting, San Francisco, CA, 2004
29. Moderator, Instructional Course Lecture, American Academy of Orthopaedic Surgeons, Optimizing a Paperless Electronic Medical Office, Annual Meeting, Chicago, 2005
30. Faculty, Instructional Course Lecture, Optimizing the Internet for Orthopaedic Practices, American Academy of Orthopaedic Surgeons, Annual Meeting, San Diego, 2007.

31. Faculty, Practice Management Symposium, American Academy of Orthopaedic Surgeons, Washington, DC, 2008.
32. Technology Pavilion Speaker, American Academy of Orthopaedic Surgeons Annual Meetings 2009- Internet Marketing- 2009- Electronic Medical Records
33. Technology Pavilion Speaker, American Academy of Orthopaedic Surgeons Annual Meetings 2009- Internet Marketing
34. Technology Pavilion Speaker, American Academy of Orthopaedic Surgeons Annual Meetings 2009- Office Websites
35. Technology Pavilion Speaker, American Academy of Orthopaedic Surgeons Annual Meetings 2010-2013 HITECH act, EMR and Meaningful Use
36. Technology Pavilion Speaker, American Academy of Orthopaedic Surgeons Annual Meetings 2010-2013 Killer Apps
37. Technology Pavilion Speaker, American Academy of Orthopaedic Surgeons Annual Meetings- Office Websites- 2010-2014
38. Joint Replacement in Patient's with Hepatitis, American College of Physicians Podium Award, Annual Meeting, 2011
39. American Academy of Orthopaedic Surgeons Annual Meetings, Instructional Course Lecture, Leading a Digital Life, 2013
40. American Academy of Orthopaedic Surgeons Annual Meetings, Instructional Course Lecture, Leading a Digital Life, 2014
41. Faculty, Practice Management Symposium, American Academy of Orthopaedic Surgeons, Annual Meeting, San Diego, 2007.
42. Stanford Medicine X, Lecturer, Design and Implementation of a Surgical Delivery System, 2017
43. Visiting lecturer, Montefiore Medical Center, Department of Orthopaedics, September 2018
44. Use a Centralized Pre-op Assessment Cloud Database, Stanford Medicine X 2019

ABSTRACTS

1. Kirschenbaum IH, et al: Computer Planning in Academic Orthopaedics, American Academy of Orthopaedic Surgeons, Annual Meeting, New Orleans, LA, 1990
2. Kirschenbaum IH, et al: Computer Planning in Academic Orthopaedics, American Academy of Orthopaedic Surgeons, Annual Meeting, Anaheim, CA, 1991
3. Kirschenbaum IH, Hozack WJ, Booth RE Jr, Rothman RH: The long-term results of conversion of endoprostheses to total hip arthroplasty presented at The Eastern Orthopaedics Association Meeting, Madrid, Spain, 1991
4. Kirschenbaum IH, Stuchin SA, McDonald D, Phillips J, Sylvestri D: The impact of a prospectively applied total joint replacement protocol on length of stay, complications, and results, Presented at The 1993 Annual Meeting of the Arthritic Hip and Knee Association, Dallas, TX and the 1994 Annual Meeting of The American Academy of Orthopaedic Surgeons, New Orleans, LA
5. Scientific Exhibit, Optimizing Orthopaedic Interactions on the Internet, Mailing Lists, Newsgroups, and the World Wide Web, American Academy of Orthopaedic Surgeons, Annual Meeting, New Orleans, LA, March, 1998
6. Rapid Discharge Versus Traditional Pathways after Knee Replacement: Clinical and Patient Reported Outcomes, Craig M. McAllister MD, Ira H. Kirschenbaum MD, Jeff D. Stepanian PAC, Geoff H. Burks Poster Session, AAHKS Annual Meeting, 2015.
7. TJA Outcomes in Immunocompromised Patients: A Matched-Pair Analysis Controlling for Comorbidity. Plassche, G, Silverman, A, Meftah, M, Kirschenbaum, I. Presented at Ortho Summit Evolving Technologies 2017, Las Vegas, NV.
8. McAllister, L, Moran, S., Zana, C., Kirschenbaum, I. Retrospective Analysis of Opioid Issuance Trends for Total Joint Arthroplasty in 2014 and 2017 Presented at OrthoSummit Evolving Technologies 2018.
9. Distribution of Orthopaedic Consults from an Urban Setting Emergency Department: A Study of Over 13,000 Consecutive Consults, Broome, J, Jarvis, R, Plassche, G, Silverman, A., Kirschenbaum, I., presented at AAOS Annual Meeting 2019, Las Vegas, NV

10. Characterizing Comorbidities in Total Joint Arthroplasty Patients in a Safety-Net Hospital Using the Age-Adjusted Charlson Comorbidity Index. Eva Kitlen, Gabriela Batista, Gabriela de Queiroz Campos, Noshin Nushat, Natasha Richmond, Linsey Ruda, Lisa Schulmeyer, Ariel RC Silverman, Ronald Huang, Ira Kirschenbaum. Submitted to the Annual Meeting of the International Society of Technology in Arthroplasty, 2020.
11. Time-Driven Activity-Based Costing to Determine Personnel Expenses in Total Joint Replacement Surgery in a Closed Urban Setting. Submitted to the Annual Meeting of the International Society of Technology in Arthroplasty, 2020
12. Health Literacy in English vs. Spanish-Speaking Orthopaedic Chronic Pain Patients in a Closed Urban Setting. Submitted to the Annual Meeting of the International Society of Technology in Arthroplasty, 2020
13. Retrospective Comparative Analysis of Opioid Issuance Trends for Total Joint Arthroplasty in 2014 and 2017. Submitted to the Annual Meeting of the International Society of Technology in Arthroplasty, 2020
14. The Impact of a Comprehensive Orthopaedic Delivery System on Referral Patterns of Knee Pain in a Closed Urban Environment. Submitted to the Annual Meeting of the International Society of Technology in Arthroplasty, 2020