

CURRICULUM VITAE

DAVID J. HAK, MD, MBA, FACS

EDUCATION

- Premedical: The University of Michigan, Bachelor of Business Administration, September 1978 – May 1982.
The University of Michigan, Bachelor of Science, Intermittent September 1982 – May 1985.
- Medical: Ohio State University, Doctor of Medicine, July 1985 – June 1989.
- Internship: University of California, Los Angeles
Department of Surgery, June 1989 - June 1990
- Residency: University of California, Los Angeles
Department of Orthopaedic Surgery, July 1990 - June 1995.
Residency Director: Jeffrey J. Eckardt, MD
- Fellowships: Orthopaedic Research/Joint Replacement NIH fellowship
University of California, Los Angeles, July 1991 - June 1992.
Fellowship Director: Harlan C. Amstutz, MD
- AO Jack McDaniel Fellowship
Hannover, Germany, April-May 1995
Fellowship Director: Professor Harald Tscherne
- Orthopaedic Traumatology
University of California, Davis Health System, August 1995 - July 1996.
Fellowship Director: Michael W. Chapman, MD
- Post-graduate: Auburn University, Masters of Business Administration, September 1999 – May 2001.

EMPLOYMENT HISTORY AND ACADEMIC APPOINTMENTS

University of Michigan

09/06 – 06/00 Staff Orthopedic Surgeon
1996-2000 Assistant Professor, Section of Orthopaedic Surgery

University of California, Davis

09/00 – 06/06 Staff Orthopedic Surgeon
2000-2004 Assistant Professor, Dept. of Orthopaedic Surgery
2000-2005 Director, Orthopaedic Basic Science Resident Education Program
2000-2006 Director, Orthopaedic Trauma Fellowship
2001-2006 Director, Orthopaedic Residency Program
2003-2006 Vice Chair, Department of Orthopaedic Surgery
2004-2006 Associate Professor, Dept. of Orthopaedic Surgery

University of Colorado / Denver Health

08/06 – present Staff Orthopedic Surgeon
2006- 2007 Visiting Associate Professor, Department of Orthopaedic Surgery
2007 – 2011 Associate Professor, Department of Orthopaedic Surgery
2011 – present Professor, Department of Orthopaedic Surgery
2010 – 2013 Director, Orthopaedic Trauma Service at Denver Health
2010 – 2014 Associate Director, Department of Orthopaedic Surgery at Denver Health
2016 – present Interim Director, Department of Orthopaedic Surgery at Denver Health

HONORS, SPECIAL RECOGNITION AND AWARDS

- 1989 Alpha Omega Alpha National Honor Medical Society
- 1989 Upjohn Achievement Award for Excellence in Research, Ohio State University School of Medicine
- 1993 Meyerding Resident Paper Award, *"Use of the Unreamed Nail in Tibial Fractures with Associated Compartment Syndromes."* American Fracture Association
- 1993 3rd Place Resident Paper Award, *"Knee Arthrodesis with External Fixation Devices: Is the Fusion Rate Improving?"* Western Orthopaedic Association, Los Angeles Chapter. May 22, 1993.
- 1993 Vernon P. Thompson Award, *"Giant Cell Tumor of Bone: A Review of 55 Consecutive Cases."* Western Orthopaedic Association Annual Meeting.
- 1994 Vernon P. Thompson Award, *"Treatment of Severe Pediatric Clubfoot Deformities Using the Ilizarov Device."* Western Orthopaedic Association Annual Meeting.
- 1995 Selected for AO Jack McDaniel Memorial Fellowship, AO North America.
- 1997 Selected for John J. Fahey Memorial North American Traveling Fellowship, American Orthopaedic Association.
- 200 Inducted as Fellow, American Academy of Orthopaedic Surgeons
- 2001 Outstanding Faculty of the Year, University of California, Davis - Department of Orthopaedic Surgery.
- 2002 Selected for Leadership Fellows Program, American Academy of Orthopaedic Surgeons

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- 2003 Elected to membership in American Orthopaedic Association.
- 2004 Best Annual Meeting Poster, Orthopaedic Trauma Association Annual Meeting.
- 2007 Listed in “Best Doctors in America” 2007- 2008, 2009 – 2010, 2011 – 2012, 2013.
- 2012 Best Doctors for Executives, ColoradoBiz Magazine, July 2012.
- 2012 Named to “The Top 29 Orthopedic Traumatologists in the U.S.” by Orthopaedics This Week, October 11, 2012
- 2012 Inducted as Fellow, American College of Surgeons
- 2014 Best Doctors List, Denver Business Journal February 21, 2014
- 2014 EFORT Trauma Award, 15th EFORT Congress, London. .
- 2016 Physician of the Year Award, Denver Health Foundation

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS

American Academy of Orthopaedic Surgeons
Resident Member, 1994 – 1996
Candidate Member, 1996 – 2000
Fellow, 2000 - present

American Orthopaedic Association, 2004 – present

AO North America, Faculty, 1995 – present

AO Alumni Association, 1995 – 2012 (Organization transitioned to AO Trauma)

AO Trauma, Member #5835, 2011 – present

California Orthopaedic Association, 2000 - 2006

Colorado Orthopaedic Association, 2010 – present

Gerhard Küntscher Society, 2013 - present

Fragility Fracture Network, 2013 - present

Foundation for Orthopaedic Trauma, 2008 – present

International Society for Fracture Repair, 2000 - present

Orthopaedic Research Society, 1998 – present

Orthopaedic Trauma Association
Associate Member 1997 – 2001
Active Member 2001 - present

Society for Academic Continuing Medical Education, 2014 - present

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Western Orthopaedic Association, 2001 - present

MAJOR COMMITTEE AND SERVICE RESPONSIBILITIES

ACADEMIC INSTITUTION

University of Michigan

1996-2000	Trauma Surgery Quality of Care Committee
1997	Section of Orthopaedic Surgery, Consult Billing & Documentation Task Force
1997-1998	Soft Goods Evaluation and Standardization Committee
1998	Section of Orthopaedic Surgery, Education Curriculum Task Force

University of California, Davis

2000-2006	School of Medicine, Medical School Interviewer
2000-2006	Graduate Medical Education Advisory Committee (GMEAC)
2001-2001	Davis Tower Building Committee
2002-2003	School of Medicine, Admissions Committee
2002-2004	Pharmacology and Therapeutics (P&T) Committee
2002-2004	Thrombosis Subcommittee (to the P&T Committee)
2002-2006	Limited Submissions Review Panel
2003-2004	Utilization Review Committee
2003-2004	Compensation Advisory Committee
2004-2005	Quality of Care Committee
2004-2006	Faculty Development Advisory Council
2004-2006	Committee on Student Progress

University of Colorado

2006 - 2008	Residency Selection Committee
2009 - 2011	Faculty Senate Department Representative
2009 - 2015	CME Advisory Board
2012 – Present	Department of Orthopaedic Surgery Promotions Committee

Denver Health Medical Center

2007 – Present	Director, Orthopaedic Trauma Fellowship
2008 – 2012	Co-Director, Orthopaedic Clinical Research
2010 – 2013	Trauma Services Committee
2010 – 2013	Chief, Orthopaedic Trauma
2010 – 2014	Associate Director, Department of Orthopaedic Surgery, Physical Medicine and Rehabilitation
2016 – Present	Interim Director, Department of Orthopaedic Surgery, Physical Medicine and Rehabilitation
2016 - Present	Executive Committee for Patient Safety and Quality
2016 – Present	Denver Health Risk Management Committee
2016 – Present	Patient Safety and Quality Value Stream Steering Committee
2016 – Present	Malnutrition Steering Committee
2016 – Present	Orthopedic Clinic Leadership Committee
2016 – Present	Perioperative Services Steering Committee
2016 – Present	Medical Quality Improvement Committee

Veterans Affairs Hospital, Denver

2010 – 2013	Orthopaedic Trauma Consultant
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Anschutz Medical Center at the University of Colorado

2011 – 2013	Orthopaedic Trauma Liaison
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VOLUNTEER POSITIONS

Accreditation Council for Continuing Medical Education

Volunteer surveyor, 2014 – present

American Academy of Orthopaedic Surgeons

Lobbyist for the American Academy of Orthopaedic Surgeons, Research Committee, “Capitol Hill Day.” Lobbying for increased NIH funding to support musculoskeletal research.

Washington, DC. March 20, 2002

Lobbyist for the American Academy of Orthopaedic Surgeons, National Orthopaedic Leadership Conference. Washington, DC. April 24-27, 2002

Lobbyist for the American Academy of Orthopaedic Surgeons, Research Committee, “Capitol Hill Day.” Lobbying for increased NIH funding to support musculoskeletal research.

Washington, DC March 11-12, 2003

Academic Advocacy Committee, 2002-2004

Evaluation Committee, 2007 – 2013

Orthopaedic Knowledge Online (OKO) Trauma Peer Reviewer, 2008 – present

Continuing Medical Education Courses Committee, 2014 – 2016

Trauma Content Committee 2016 - 2018

American Orthopaedic Association

North American Traveling Fellowship Committee, 2006 – 2012

Investment Committee, 2013 - 2016

AO North America

North America Musculoskeletal Trauma Education Committee, 2005 – 2010

Editor In Chief, AO North America News, 2012 - 2014

Continuing Medical Education Advisory Board, Chair, 2014 - 2017

AO Foundation

AOTK Reamer Irrigator Aspirator Task Force, 2012 - present

California Orthopaedic Association

Board of Directors, 2002-2006

Program Chair. Annual Meeting. Indian Wells, CA. May 13-15, 2005.

Fragility Fracture Network

Board of Directors, 2014 – 2016

Co-opted Board member representing International Society for Fracture Repair, 2016 - 2018

Nominating committee 2016

Foundation for Orthopaedic Trauma

Nominating committee, 2009 – 2011

Research committee, 2010 – 2014

Newsletter Co-Editor, 2010 - present

International Society for Fracture Repair / International Section for Fracture Repair

Board of Directors, 2004 - present

Publication and Publicity Secretary, 2004 – 2006

2008 Biennial Meeting Program Organizing Chair, 2006 – 2008

Past Meeting Chair, 2008 – 2010

Secretary General, 2010 – 2014

Vice President and President-Elect, 2014 – 2016

President / Section Chair 2016 - 2018

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Orthopaedic Research Society

Chair, Trauma Topic Committee 2014 - 2016

Orthopaedic Trauma Association

Resident's Basic Fracture Course, Planning Committee, 2000 – 2005

Research Committee, 2002 - 2008

Nominating Committee, 2003 – 2004

Board of Directors, 2011 – 2014

Chief Financial Officer, 2011 – 2014

Annual Meeting Arrangements Committee, 2011 – 2014

Finance and Audit Committee, Chair, 2011 – 2014

Vendor Policy Committee, 2011 – 2014

Finance and Audit Committee, 2014 – 2017

Program Committee, 2014 - 2017

Sierra Sacramento Valley Medical Society

2004-2005 Emergency Care Committee

LICENSURE AND BOARD CERTIFICATION

1990 Diplomat, National Board of Medical Examiners
1991 State of California Medical License (Inactive)
1991 DEA License
1996 State of Michigan Medical License
1998 Diplomat, American Board of Orthopaedic Surgery
2006 State of Colorado Medical License
2008 Recertification, American Board of Orthopaedic Surgery, valid through Dec 31, 2018
2016 Recertification, American Board of Orthopaedic Surgery, valid through Dec 31, 2028

REVIEW AND REFEREE WORK

Resident Advisory Board, The Orthopaedic Resident (Journal). 1992 – 1994
Editorial review board, Journal of Orthopaedic Trauma, 2005 – present
Editorial review board, Orthopedics, 2007 – present
Editorial review Board, Bone and Joint 360, 2013 - present
Ad hoc reviewer, Journal of Orthopaedic Trauma, 2004 – 2005
Ad hoc reviewer, Journal of Bone and Joint Surgery, 2002 – present
Ad hoc reviewer, Journal of Orthopaedic Research, 2002 – present
Ad hoc reviewer, Clinical Orthopaedics and Related Research, 2003 – present
Ad hoc reviewer, Journal of Trauma, 2010 – present
Reviewer for SICOT/SIROT (*Societe Internationale de Chirurgie Orthopedique el de Traumatologie*)
XXII World Congress, 2002
Section editor for Orthobiologics & Pharmacologics module of ORTHOPAEDICS Hyperguide,
<http://www.ortho.hyperguides.com> . 2004 – 2011
Abstract reviewer for the 5th Annual Combined Meeting of the Orthopaedic Research Societies, 2004.
Reviewer, Orthopaedic Trauma Association Resident Slide Series Update.2005
Abstract Reviewer, 10th Annual International Society for Fracture Repair Meeting 2005-2006.
Research grant reviewer, Orthopaedic Trauma Association Research Committee, 2002 - 2008
Ad hoc reviewer, Tissue Engineering, 2009 – present.
Peer reviewer, Orthopaedic Knowledge Online (AAOS) 2009 – 2010.
Abstract reviewer for 2010 Orthopaedic Research Society Annual Meeting
Abstract reviewer for 2010 International Society for Fracture Repair Meeting

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Research grant reviewer, Prospective Clinical Research Grants, Orthopedic Research and Education Foundation, 2010

Editorial review board, World Journal of Orthopedics, 2010 – 2014

Ad hoc reviewer, The Journal of Knee Surgery, 2011 – present

Editorial Board, Patient Safety in Surgery, 2007 – 2014

Florida Department of Health, Trauma Center Site Reviewer, 2011 – 2013

Saint Mary's Hospital Trauma Center Site Review, West Palm Beach, Florida, February 7, 2011.

Delray Medical Center Trauma Center Site Review, Delray, Florida, February 8, 2011

Lakeland Regional Medical Center, Lakeland Florida, May 7, 2012

Orlando Regional Medical Center, Orlando, Florida, June 18 – 19, 2012

Blake Medical Center, Bradenton, Florida, October 15, 2012

Bayonet Point Medical Center, Hudson, Florida October 16, 2012

Kendall Regional Trauma Center, Kendall Florida December 3, 2012

Shands Jacksonville Trauma Center, Jacksonville, Florida January 28 – 29, 2013

Halifax Trauma Center, Daytona Beach, Florida January 30, 2013

Ryder Memorial Trauma Center, Miami Florida, February 25 – 26, 2013

Miami Childrens Hospital, February 27, 2013

Holmes Regional Medical Center, Melbourne, Florida June 13, 2013

Broward Health North Medical Center, Deerfield Beach, Florida, July 24, 2013

Ocala Regional Medical Center, Ocala, Florida, October 10, 2013

ACCME program surveys

November 5, 2014 Orthopaedic Specialty Society

February 25, 2015 State Medical Society

June 24, 2015 Orthopaedic Specialty Society

October 21, 2015 University Medical School CME office

March 17, 2016 Commercial CME Provider

June 22, 2016 Specialty Society

September 26, 2016 University Medical School CME office

February 23, 2017 Hospital System CME office

Assistant Editor in Chief, European Journal of Orthopaedic Surgery & Traumatology (2012 – 2016)

Orthopaedic Editorial Advisory Board, Medscape (2012 – present)

Abstract Reviewer, 13th Biennial International Society for Fracture Repair Conference, 2012

Abstract Reviewer for 2013 Orthopaedic Research Society Annual Meeting

Abstract Reviewer for 2014 Orthopaedic Research Society Annual Meeting

Abstract Reviewer for 2014 Orthopaedic Trauma Association Annual Meeting

Abstract Reviewer, 14th Biennial International Society for Fracture Repair Conference, 2014

Abstract Reviewer for 2015 Orthopaedic Research Society Annual Meeting

Abstract Reviewer for 2015 Orthopaedic Trauma Association Annual Meeting

Abstract Reviewer for 15th Biennial International Society for Fracture Repair Conference, 2016

Abstract Reviewer for 2016 Orthopaedic Research Society Annual Meeting

Abstract Reviewer for 2016 Orthopaedic Trauma Association Annual Meeting

Deputy Editor, European Journal of Orthopaedic Surgery & Traumatology (2016 – present)

Section Editor for Business & Health Policy, Journal of Orthopedic Trauma (2016 – present)

Abstract Reviewer for 2018 AMEE Annual Meeting, Basel Switzerland

Abstract Reviewer for 2018 International Section for Fracture Repair Biennial Meeting

INVITED EXTRAMURAL LECTURES, PRESENTATIONS AND VISITING PROFESSORSHIPS

Grand Rounds Presentations

March 22, 1997

“Treatment of Elbow Fractures and Dislocations.”

Grace Hospital Department of Orthopaedics Grand Rounds. Detroit, MI

March 27, 1997

“Effective Teaching in Orthopaedics.”

University of Michigan Orthopaedic Grand Rounds. Ann Arbor, MI

- June 5, 1997 “Effective Surgical Teaching.”
Department of Surgery Grand Rounds, University of Michigan, Ann Arbor, MI
- June 19, 1997 “Intramedullary Nailing.”
University of Michigan Operating Room Personnel Grand Rounds. Ann Arbor, MI
- May 26, 1999 “Non-unions: Pathophysiology and Management.”
Orthopaedic Grand Rounds. University of California, San Francisco, CA
- June 8, 1999 “Low Molecular Weight Heparins: Evolving Roles in Clinical Practice.”
DeKalb Medical Center Grand Rounds. Atlanta, GA
- Sept. 8, 1999 “Low Molecular Weight Heparins: Evolving Roles in Clinical Practice.”
Orthopaedic Grand Rounds. University of South Carolina, Columbia, SC
- Sept. 27, 1999 “Low Molecular Weight Heparins: Evolving Roles in Clinical Practice.”
University of Tennessee Orthopaedic Grand Rounds, Chattanooga, TN
- Oct. 26, 1999 “Low Molecular Weight Heparins: Evolving Roles in Clinical Practice.”
Orthopaedic Grand Rounds. Augusta, GA
- Feb. 22, 2000 “Effective Orthopaedic Teaching.”
Orthopaedic Grand Rounds. University of California, Davis Medical Center, Sacramento, CA
- Feb. 22, 2000 “Nonunions: Pathophysiology and Management.”
Orthopaedic Grand Rounds. University of California, Davis Medical Center, Sacramento, CA
- Sept. 12, 2000 “Tibial Plateau Fractures.”
Orthopaedic Grand Rounds. University of California, Davis Medical Center, Sacramento, CA
- July 8, 2003 “Electrical Stimulation, Ultrasound, and Shock Wave Therapy in Fractures and Nonunions.”
Orthopaedic Grand Rounds. University of California, Davis Medical Center, Sacramento, CA
- Sept. 10, 2004 “Locked plates: Biology, biomechanics and indications” and
“Femoral neck fracture ORIF.” AO Visiting Professor.
Orthopaedic Grand Rounds. University of California, Los Angeles, Department of Orthopaedic Surgery. Los Angeles, CA
- Jan. 18, 2005 “What’s New in Fracture Healing and Bone Graft Substitutes?”
Orthopaedic Grand Rounds. University of California, Davis. Sacramento, CA
- Sept. 6, 2005 “Management of Osteoporotic Fractures.”
Orthopaedic Grand Rounds. University of California, Davis. Sacramento, CA
- Nov. 16, 2005 “Fracture Fixation in Elderly Patients: Techniques and Considerations in Osteoporotic Bone.” AO Visiting Professor.
Orthopaedic Grand Rounds, Department of Orthopaedic Surgery, University of California. San Francisco, CA
- Sept. 6, 2006 “What’s New in Fracture Healing: The Use of BMPs and Bone Graft Harvesting with the Reamer Irrigator Aspirator.”
Orthopaedic Grand Rounds, University of Colorado Health Sciences Center. Denver, CO
- August 1, 2007 “The use of rhBMP-2 in the management of open tibia fractures.”
Orthopaedic Grand Rounds, University of New Mexico, Department of Orthopaedic Surgery, Albuquerque New Mexico
- December 21, 2007 “The use of rhBMP-2 in the management of open tibia fractures.”
Orthopaedic Grand Rounds, University of Oklahoma, Department of Orthopaedic Surgery, Oklahoma City Oklahoma
- January 8, 2009 “The use of rhBMP-2 in the management of open tibia fractures.”
Orthopaedic Grand Rounds, University California, Irvine, Department of Orthopaedic Surgery, Irvine, California
- March 15, 2012 “Fragility fractures and you: What every Orthopaedic Surgeon Needs to Know.” Columbia University/Presbyterian Hospital, New York City, New York.

- June 22, 2012 “Fragility fractures and you: What every Orthopaedic Surgeon Needs to Know”
Northwestern University, Chicago, Illinois.
- June 22, 2014 “Fragility fractures and you: What every Orthopaedic Surgeon Needs to Know”
University of South Alabama, Mobile, Alabama.
- March 8, 2017 “Compartment Syndrome: How well do we really understand this important
problem?” Harvard Combined Orthopaedic Resident Grand Rounds, Beth Israel
Deaconess Medical Center Boston, Massachusetts.

AOA North American Traveling Fellowship Presentations

- Oct.14, 1997 “Diagnosis and Management of Closed Internal Degloving Injuries Associated
with Pelvic and Acetabular Fractures: The Morel-Lavallée Lesion.”
McMaster University, Hamilton, ON, Canada
- Oct.16, 1997 “Consequences of Transverse Acetabular Malreduction on Load Transmission
Across the Hip Joint.”
University of Manitoba, Winnipeg, MB, Canada
- Oct. 17, 1997 “Tips and Tricks of Intramedullary Nailing.”
Veteran’s Administration Medical Center, Minneapolis, MN
- Oct. 20, 1997 “Consequences of Transverse Acetabular Malreduction on Load Transmission
Across the Hip Joint.”
Mayo Clinic, Rochester, MN
- Oct. 24, 1997 “Diagnosis and Management of Closed Internal Degloving Injuries Associated
with Pelvic and Acetabular Fractures: The Morel-Lavallée Lesion.”
Loyola University, Chicago, IL
- Oct. 28, 1997 “Tips and Tricks of Intramedullary Nailing.”
University of Cincinnati, Cincinnati, OH
- Oct. 29, 1997 “Diagnosis and Management of Closed Internal Degloving Injuries Associated
with Pelvic and Acetabular Fractures: The Morel-Lavallée Lesion.”
Case Western University, Cleveland, OH
- Oct. 31, 1997 “Diagnosis and Management of Pelvic Fractures.”
University of Michigan, Ann Arbor, MI
- Nov. 3, 1997 “Tips and Tricks of Intramedullary Nailing.”
Campbell Clinic, Memphis, TN
- Nov. 5, 1997 “Consequences of Transverse Acetabular Malreduction on Load Transmission
Across the Hip Joint.”
Washington University, St. Louis, MO
- Nov. 10, 1997 “Effective Orthopaedic Teaching.”
University of Texas Health Science Center, San Antonio, TX

Invited Presentations – National and International Meetings

- June 27 - 29, 1997 “Shoulder Hemiarthroplasty for Fracture. Practical Techniques for Improved
Fracture Management.”
Practical Techniques for Improved Fracture Management, American Academy
of Orthopaedic Surgeons Chicago, IL
- Oct. 7-10, 1998 “Indirect Reduction Techniques,” “Humeral Plating” Exercise Moderator and
Lab Instructor.
Orthopaedic Trauma Association, Residents Review Course. Vancouver, BC,
Canada
- Oct. 21 - 24, 1999 “Indirect Reduction Techniques,” Moderator “Humeral Plating Exercise,” and
Lab Instructor.
Orthopaedic Trauma Association Residents Review Course. Charlotte, NC
- May 19 – 21, 2000 “Shoulder Hemiarthroplasty for Fracture,” and Lab Instructor.

- Oct. 11 - 14, 2000 Practical Techniques for Improved Fracture Management. American Academy of Orthopaedic Surgeons. Chicago, IL
“Indirect Reduction Techniques,” and Lab Moderator “Humeral Plating Exercise.”
- Feb. 9, 2003. Orthopaedic Trauma Association Residents Review Course. San Antonio, TX
Standard ORIF for High-Energy Proximal Tibial Fractures.” High Energy Proximal Tibia Fractures: Options and Decision-Making.” Instructional Course Lecture #404. 70th Annual Meeting of the American Academy of Orthopaedic Surgeons. New Orleans, LA.
- Oct. 8, 2003 “BMP, Ultrasound and Electrical Stimulation.”
Orthopaedic Trauma Association’s 2003 Resident’s Basic Fracture Course, Salt Lake City, UT
- October 8, 2003. “Clinical Applications of Osteoconductive Bone Graft Substitutes.”
Orthopaedic Trauma Association Basic Science Focus Forum at the OTA Annual Meeting. The Grand America Hotel, Salt Lake City, UT.
- Jan. 16-18, 2004 “Tibial Plateau Fractures,”and “Clinical Application of Current Orthopaedic Trauma Research,”
Orthopaedic Trauma Association Trauma Update Course. Coronado, CA
- Oct. 7, 2004 “Abnormal Fracture Healing.”
Orthopaedic Trauma Association Basic Science Focus Forum.. Ft. Lauderdale/Hollywood, FL
- Oct. 8, 2004 “Biomechanics of Locking Plate Technology”
Orthopaedic Trauma Association Locking Plate Workshop (Faculty). OTA Annual Meeting. Ft. Lauderdale/Hollywood, FL
- Oct. 7-10, 2004 “BMP, Ultrasound and Electrical Stimulation.”
Orthopaedic Trauma Association’s 2004 Residents Basic Fracture Course. Ft. Lauderdale/Hollywood, FL
- Feb. 23-27, 2005 Standard ORIF for High-Energy Proximal Tibial Fractures.” High Energy Proximal Tibia Fractures: Treatment Options and Decision Making, Instructional Course Lecture #: 234. American Academy of Orthopaedic Surgeons Annual Meeting. Washington, DC
- Oct. 19-22, 2005 “BMP, Ultrasound and Electrical Stimulation in Fracture Healing” and “Cut / No Cut: Decision-making in Management of Common Fractures.”
Orthopaedic Trauma Association 2005 Residents Basic Fracture Course. Ottawa, ON, Canada
- March 23, 2006 “Standard ORIF for High-Energy Proximal Tibial Fractures.” High-Energy Proximal Tibia Fractures: Treatment Options and Decision-Making Instructional Course Lecture #: 174. American Academy of Orthopaedic Surgeons Annual Meeting. Chicago, IL.
- July 15, 2008 “Clinical use of bone morphogenetic protein: Current Indications, Economics, and Barriers to Use. The 11th Conference of the International Society for Fracture Repair. Stateline (South Lake Tahoe), Nevada, July 13 – 16, 2008. Symposium co-moderator: Use of BMP in Clinical Practice
- October 15, 2008 “Fracture repair overview” Presented at Orthopaedic Trauma Association Basic Science Focus Forum, Denver, CO. Also, Co-Moderator, Fracture Repair Symposium and Research Paper Presentations.
- December 4, 2008 “Polytrauma Patient.” American Academy of Orthopaedic Surgeons Board Maintenance of Certification Preparation and Review Course, Boston, Massachusetts.
- February 26, 2009 “The ‘Not so simple’ ankle fracture: Avoiding problems and pitfalls to improve patient outcomes. Instructional course lecture #248, American Academy of Orthopaedic Surgeons Annual Meeting, Las Vegas Nevada. Developed, organized and moderated course. Audience response system interactive case presentations.
- June 25, 2009 “Calcaneus fractures – When should we operate?” Orthopaedic Trauma Care Foundation Leadership Forum. Nice, France.

- June 26, 2009 “How I manage severe bone loss.” Orthopaedic Trauma Care Foundation Leadership Forum. Nice, France.
- October 10, 2009 “Evaluation, resuscitation, and operative management of patients with pelvic fractures and hemorrhagic shock.” Session moderator. Orthopaedic Trauma Association Annual Meeting. San Diego, California.
- February 12, 2010 “Getting it out – the trials and tribulations of hardware removal.” Foundation for Orthopaedic Trauma. Inaugural Trauma Symposium, Henderson, NV
- March 12, 2010 “The ‘Not so simple’ ankle fracture: Avoiding problems and pitfalls to improve patient outcomes. Instructional course lecture #351, American Academy of Orthopaedic Surgeons Annual Meeting, New Orleans LA. Developed, organized and moderated course.
- September 23, 2010 Trauma Session organizer and moderator, Clinical Orthopaedic Society Annual Meeting, Denver, Colorado
- February 17, 2011 “The ‘Not so simple’ ankle fracture: Avoiding problems and pitfalls to improve patient outcomes. Instructional course lecture #332, American Academy of Orthopaedic Surgeons Annual Meeting, San Diego, California. Developed, organized and moderated course.
- October 13, 2011 “Chronic inflammation and fracture healing.” Orthopaedic Trauma Association Annual Meeting Basic Science Fracture Forum, San Antonio, Texas.
- October 14, 2011 “The “Not So Simple” Ankle Fracture – Avoiding Problems and Pitfalls to Improve Patient Outcome. Mini-Symposium moderator and organizer. Orthopaedic Trauma Association Annual Meeting, San Antonio, Texas.
- October 21, 2011 “Doctor, is my fracture healed yet? The importance of fracture healing assessment from a patients perspective.” Osteosynthesis and Trauma Care Foundation Workshop on Functional Assessment of Fracture Healing. Barcelona, Spain.
- September 13, 2012 “Case Presentations of Proximal Humeral Locking Plating Failures”. International Society for Fracture Repair, Proximal Humeral Fracture Workshop: Identifying Issues and Finding Solutions. Edinburgh, Scotland, UK. (Workshop Co-Chair)
- September 13, 2012 “Proximal Humeral Fractures: Augmentation Strategies”. International Society for Fracture Repair, Proximal Humeral Fracture Workshop: Identifying Issues and Finding Solutions. Edinburgh, Scotland, UK. (Workshop Co-Chair)
- November 5, 2012 “Classification, Diagnosis, and Evaluation of Nonunions. International Society for Fracture Repair Workshop on Pathomechanism and Treatment of Nonunions. Kyoto, Japan.
- March 20, 2013 “Effect of Implant Stiffness on Fracture Healing.” Presented at Invivio. Inc. Experts Meeting during American Academy of Orthopedic Surgeons, Chicago, IL.
- June 3, 2013 “Effect of Implant Stiffness on Fracture Healing.” Presented at Second Orthopaedics Forum by Third Hospital of Hebei Medical University, Shijiazhuang, China.
- June 4, 2013 “Getting it out, the trials and tribulations of hardware removal.” Presented at Second Orthopaedics Forum by Third Hospital of Hebei Medical University, Shijiazhuang, China.
- August 29, 2013 “The Epidemic and Challenges of Peri-Prosthetic Fractures.” Presented at 2nd Fragility Fracture Network Global Congress, Berlin, Germany.
- October 9, 2013 “Inflammatory Cytokines: What Role Do They Play In Fracture Healing.” Orthopaedic Trauma Association Annual Meeting Basic Science Fracture Forum, Phoenix,, Arizona.
- November 7, 2013 “Surgical Approach to Scapula fractures: Anterior or posterior/” AO Trauma Day at the Eighth International Congress of the Chinese Orthopaedic Association. Beijing, China.
- December 6, 2013 “Alternative Materials in Proximal Humerus Fracture Fixation.” International Society for Fracture Repair, Proximal Humeral Fracture Workshop: Life After

	Shoulder Fracture: Achieving Consensus and Developing Frameworks, Bologna, Italy.
April 17, 2014	“Proximal Humerus Fractures: Preventing Screw Penetration.” Orthopaedics Forum at Third Hospital of Hebei Medical University, Shijiazhuang, China
April 18, 2014	“Effect of Implant Stiffness on Fracture Healing. 2014 Yangshou International Orthopaedic Forum. Guilin, China.
April 18, 2014	“Proximal Humerus Fracture ORIF: Are we getting any better?” 2014 Yangshou International Orthopaedic Forum. Guilin, China.
May 22, 2014	“Open fracture treatment: US Perspective.” 87 th Annual Meeting of Japanese Orthopaedic Association Annual Meeting, Kobe, Japan.
May 24, 2014	“Effect of Implant Stiffness on Fracture Healing.” 87 th Annual Meeting of Japanese Orthopaedic Association Annual Meeting, Kobe, Japan.
May 24, 2014	“Proximal Humerus ORIF: Our implants are better, but are our outcomes getting any better.” 87 th Annual Meeting of Japanese Orthopaedic Association Annual Meeting, Kobe, Japan.
October 17, 2014	“Managing as a Chief Financial Officer”. From the Operating Room to the Board Room Symposium. Orthopaedic Trauma Association Annual Meeting. Tampa, Florida.
November 21, 2014	“Management of Hemorrhage in High Energy Pelvic Fractures.” 9 th Annual Meeting of the Chinese Orthopaedic Association, Beijing, China.
March 7, 2015	“Management of Hemorrhage in Severe Pelvic Fractures.” Third International Forum for Elites of Orthopedic Trauma, Xian, China.
March 13, 2015	“Management of Subtrochanteric Fractures.” 5 th Congress of the Asia Pacific Trauma Society. Mumbai, India.
March 13, 2015	“Ipsilateral femoral neck and shaft fractures.” 5 th Congress of the Asia Pacific Trauma Society. Mumbai, India.
March 13, 2015	“Acute Management of Pelvic Injuries.” 5 th Congress of the Asia Pacific Trauma Society. Mumbai, India.
March 14, 2015	“Proximal Humerus Fractures: Our Implants are Better but are our Outcomes any Better?” 5 th Congress of the Asia Pacific Trauma Society. Mumbai, India.
March 14, 2015	“Fragility Fractures and Management of Osteoporosis.” 5 th Congress of the Asia Pacific Trauma Society. Mumbai, India.
March 14, 2015	“Fractures Around the Wrist: Case Presentations.” 5 th Congress of the Asia Pacific Trauma Society. Mumbai, India.
March 15, 2015	“Implant Stiffness and Fracture Healing: What is the Ideal Stiffness and How Can We Achieve It?” 5 th Congress of the Asia Pacific Trauma Society.
June 11, 2015	“Clinical Challenges that Require Bone Regeneration.” International Symposium on Bone Regeneration. Berlin Germany
September 29, 2015	“Management of Acetabular Fractures Using the Modified Stoppa Approach.” Annual Meeting of Hebei Province, Hengshui Lakes, Hebei Province China
October 10, 2015	“Managing as a Chief Financial Officer”. From the Operating Room to the Board Room Symposium. Orthopaedic Trauma Association Annual Meeting. San Diego, California.
November 2, 2015	“Radiation exposure during IM nailing.” Osteosynthesis & Trauma Care Foundation Workshop on Complications of IM Nailing – Evolution of Treatment. Zurich, Switzerland.
November 19, 2015	“Treatment of distal clavicle fractures: Nonoperative vs. operative treatment.” AO Trauma Day at the Chinese Orthopedic Association Annual Meeting, Chongqing, China.
February 5, 2016	“Vision for AONA Education.” One AO Leadership Meeting, Orlando, FL.
March 31, 2016	“Optimizing Stability in Femoral Neck Fracture fixation” 19 th Asia Pacific Orthopaedic Association Congress, Melbourne, Australia
April 1, 2016	“New Innovations in Fracture Fixation” 19 th Asia Pacific Orthopaedic Association Congress, Melbourne, Australia
April 1, 2016	“Management of Hemorrhage in High Energy Pelvic Fractures” 19 th Asia Pacific Orthopaedic Association Congress, Melbourne, Australia

April 22, 2016	“Techniques for Improving Proximal Humerus ORIF”. JST Hospital Advanced Upper Extremity Trauma Course, China National Convention Center, Beijing, China.
April 22, 2016	“Optimizing Fixation Stability in Femoral Neck Fractures .” JST Hospital Advanced Lower Extremity Trauma Course, China National Convention Center, Beijing, China.
April 23, 2016	“Periprosthetic Fractures.” Juishuitan Orthopedic Forum. China National Convention Center, Beijing, China.
May 5, 2016	“AC Joint and lateral clavicular injuries” AO Trauma Masters Course. Shijiazhuang, China.
May 6, 2016	“Humeral condylar fracture” AO Trauma Masters Course. Shijiazhuang, China.
May 6, 2016	“Monteggia and Galeazzi fractures” AO Trauma Masters Course. Shijiazhuang, China.
August 6, 2016	“Vision for AONA Education” AO North America Education Planning Workshop, Chicago IL
October 7, 2016	“Tips and Tricks for Removal of Cold Welded Screws” And Moderator, “Trials and Tribulations of Hardware Removal. Orthopedic Trauma Association Annual Meeting, Washington DC
October 13, 2016	“Anatomy & Radiology of Acetabulum” AO Trauma Course – Pelvic with Anatomical Specimen, Bangalore, India.
October 14, 2016	“ Soft Tissue Lesions with Pelvic Fractures”. AO Trauma Course – Pelvic with Anatomical Specimen, Bangalore, India.
October 16, 2016	“MIS in Acetabular Trauma.” AO Trauma Course – Pelvic with Anatomical Specimen, Bangalore, India.
November 16, 2016	“Innovations in Fracture Fixation” International Orthopaedic Conference of Hebei Province. Shijiazhuang, China.
November 18, 2016	“Bone Graft Substitutes Best Practices in 2016.” Chinese Orthopaedic Association Annual Meeting, Beijing China
February 15, 2017	“Periprosthetic Fractures.” 2017 Advanced Juishuitan Trauma Course, Beijing China.
February 15, 2017	“Distal humerus fractures.” 2017 Advanced Juishuitan Trauma Course, Beijing China.
February 15, 2017	“Improving Fixation in Proximal Humerus Fractures.” 2017 Advanced Juishuitan Trauma Course, Beijing, China.
February 15, 2017	“Tibial Pilon Fractures.” 2017 Advanced Juishuitan Trauma Course, Beijing China.
February 17, 2017	“Complications in Acetabular Fractures.” The 5 th KeHui International Orthopedic Forum. Xian, China.
March 18, 2017	“Vision 20/220 – Change is Happening” AO North America Craniomaxillofacial Faculty Development Forum, Napa, California.
March 19, 2017	“Unmet clinical needs in bone regeneration and Fracture Healing.” International Section for Fracture Repair Meeting, Orthopedic Research Society, San Diego California.
March 31, 2017	“Trauma pathophysiology” Asia Pacific Orthopaedic Association Trauma and Infection Meeting, Kuala Lumpur Malaysia
March 31, 2017	“Acute Management of Severe Pelvic Fractures” Asia Pacific Orthopaedic Association Trauma and Infection Meeting, Kuala Lumpur Malaysia
March 31, 2017	“Posterior Wall and Column Acetabular Fractures” Asia Pacific Orthopaedic Association Trauma and Infection Meeting, Kuala Lumpur Malaysia
March 31, 2017	“Solutions for Challenges of Intramedullary Nailing” Asia Pacific Orthopaedic Association Trauma and Infection Meeting, Kuala Lumpur Malaysia
April 1, 2017	“Nonunion Case Presentations” Asia Pacific Orthopaedic Association Trauma and Infection Meeting, Kuala Lumpur Malaysia

- April 27, 2017 “Is locking screw fixation in carbon fiber composite plates mechanically equivalent to stainless steel plates?” 3rd International PEEK Meeting, Washington DC.
- June 9, 2017 “Physician Consultants and Key Opinion Leaders: How to vet experts and understand what drives them.” 3P Medical Devices Forum. Berlin, Germany.
- June 23, 2017 “Post-Traumatic Acute Tibial Defect: First Stage Management.” International Section for Fracture Repair Segmental Bone Loss Workshop, Marseille France
- June 23, 2017 “How do I know if the Fracture is Healed.” International Section for Fracture Repair Segmental Bone Loss Workshop, Marseille France
- October 11, 2017 “The open fracture: Are there evidence based standards for antibiotic therapy?” Orthopedic Trauma Association Basic Science Focus Forum, Vancouver, Canada
- October 12, 2017 “Effect of Implant Stiffness on Fracture Healing.” Invibio and Carboxif Industry Session at Orthopedic Trauma Association Annual Meeting, Vancouver, Canada.
- October 13, 2017 “Acute Compartment Syndrome: Dogma or Scientific Evidence: How well do you know the literature?” Orthopedic Trauma Association Annual Meeting, Vancouver, Canada.
- October 27, 2017 “Dead or alive, what’s in this graft material?” Deutscher Kongress für Orthopädie and Unfallchirurgie 2017 (German Congress for Orthopedics and Trauma Surgery), Berlin, Germany.
- October 27, 2017 “Ankle fractures in diabetic patients: Treatment protocols for optimal outcomes.” Deutscher Kongress für Orthopädie and Unfallchirurgie 2017 (German Congress for Orthopedics and Trauma Surgery), Berlin, Germany
- November 17, 2017 “The elbow injury: Most Up To Date Knowledge.” Chinese Orthopaedic Association Annual Meeting, Zhuhai, China.
- November 29, 2017 “Stabilization of hemodynamically unstable patients with pelvic injuries.” Polytrauma Course at 38th SICOT World Orthopaedic Conference. Cape Town South Africa.
- November 29, 2017 “Amputation versus Reconstruction.” Polytrauma Course at 38th SICOT World Orthopaedic Conference. Cape Town South Africa.
- December 1, 2017 “Special Issues of International Orthopaedics”. 38th SICOT World Orthopaedic Conference. Cape Town South Africa.
- December 1, 2017 “Visibility and Impact of Medical Publication”. 38th SICOT World Orthopaedic Conference T. Cape Town South Africa.
- December 1, 2017 “Pelvic and Acetabular Fractures”. 38th SICOT World Orthopaedic Conference. Cape Town South Africa.
- December 2, 2017 “Road Trauma, Fatalities and Accident Prevention in the USA”. 38th SICOT World Orthopaedic Conference. Cape Town South Africa.
- December 2, 2017 “The Role of the Diamond Concept in Bone Defect Treatment.” 38th SICOT World Orthopaedic Conference. Cape Town South Africa.
- February 18, 2018 “Proximal tibial fractures.” British Medical Journal Masterclass in Orthopedics, Mumbai, India.
- February 18, 2018 “Problematic pattern of femoral neck and intertrochanteric fractures.” British Medical Journal Masterclass in Orthopedics, Mumbai, India.
- April 20, 2018 “The complicated supracondylar humerus fracture.” Jishuitan Hospital Advanced Upper Extremity Course. Beijing China.
- April 27, 2018 “Management of Hemorrhage in Severe Pelvic Fractures.” 44th Annual Meeting of The Korean Fracture Society, Gwangju South Korea.
- April 27, 2018 “The effect of implant stiffness on fracture healing. 44th Annual Meeting of The Korean Fracture Society, Gwangju South Korea.
- July 6, 2018 “Challenges of ankle fractures management in diabetic patients.” 7th Fragility Fracture Network Global Congress, Dublin, Ireland.
- August 24, 2018 “Management of Hemorrhage in Severe Pelvic Fractures.” 24th Congress of the Argentinian Association of Trauma Orthopaedics. Buenos Aires Argentina.
- August 24, 2018 “Subtrochanteric Femur Fractures.” 24th Congress of the Argentinian Association of Trauma Orthopaedics. Buenos Aires Argentina.

August 24, 2018	“Challenging Tibial Plateau Fracture Patterns.” 24 th Congress of the Argentinian Association of Trauma Orthopaedics. Buenos Aires Argentina.
August 24, 2018	“Effect of Implant Stiffness on Fracture Healing.” 24 th Congress of the Argentinian Association of Trauma Orthopaedics. Buenos Aires Argentina.
August 24, 2018	“Optimizing Stability in Femoral Neck Fracture Fixation.” 24 th Congress of the Argentinian Association of Trauma Orthopaedics. Buenos Aires Argentina.
October 17, 2018	“Femoral Head Fractures: Which Ones I Fix and How”. International Trauma Care Forum, Orthopedic Trauma Association, Orlando, Florida.
October 20, 2018	“Acute Compartment Syndrome: Dogma or Scientific Evidence: How Well do you know the literature.” Symposium: Compartment syndrome: what you should know to stay out of trouble. Orthopedic Trauma Association Annual Meeting, Orlando, Florida.

Invited Presentations – Regional meetings

Aug. 16, 1997	“Bone Morphogenic Protein and Genetic Engineering: The Final Frontier in Bone Healing.” New Concepts and Options in Bone Grafting. Chicago, IL
Nov. 18, 1997	“Treatment of Fractures and Dislocations Around the Elbow.” Combined Meeting of the Michigan Occupational Therapy Association and Michigan Chapter of the American Society of Hand Therapists. Ann Arbor, MI
May 30, 1998	“Bone Morphogenetic Protein and Genetic Engineering: The Final Frontier in Bone Healing.” New Concepts and Options in Bone Grafting. Orlando, FL
Jan. 14-17, 1999	Lab Instructor, 13th Annual Vail Orthopaedic Symposium. Vail, CO
Oct. 16, 1999	“Talus Fractures.” Michigan Foot and Ankle Resident Review Course. Ann Arbor, MI
Jan. 20-23, 2000	Lab Instructor. 14th Annual Vail Orthopaedic Symposium.” Vail, CO
Jan. 18-21, 2001	“Current Treatment of Trimalleolar Fractures.” 15 th Annual Vail Orthopaedic Symposium (sponsored by Education Design). Vail, CO
Sept. 28-29, 2001	“Positioning for Intramedullary Tibia Nailing” and “Tricks, Tips & Caveats for IM Nailing.” Smith & Nephew Intramedullary Nailing of Long Bone Fractures. Napa Valley, CA
Sept. 20-22, 2002	“Open Reduction and Internal Fixation of Femoral Neck Fractures” and “Tibial Plateau Fractures: Schatzker I, II, and III.” Trauma Update 2002. Monterey, CA
Oct. 17, 2001	“Soft Tissue Evaluation and Compartment Syndrome.” Orthopaedic Trauma Association Resident’s Basic Fracture Course. San Diego, CA
Sept. 27-28, 2002	“Positioning for Tibia Intramedullary Nailing” and “Tricks, Tips, and Caveats for Intramedullary Nailing.” Smith-Nephew Trauma Update 2002. Embassy Suites Hotel, Napa, CA
July 19, 2003	“Locked Plates...A New Era of ORIF.” Synthes Concepts in Locked Plating Symposium. Reno, NV
Sept. 19-21, 2003	“Femoral Neck Fractures, Fixation, ORIF” and “Classifications, Indications, Technique, & Templating of the Distal Humerus.” Zimmer 2003 Pasadena Trauma Course (Course Co-Chair). Pasadena, CA

Sept. 26-27, 2003	“Tricks, Tips, and Caveats for IM Nailing” and “IM Nailing of Long-Bone Fractures.” Smith & Nephew Intramedullary Nailing of Long Bone Fractures. Embassy Suites Hotel, Napa, CA
May 8, 2004	“Fractures: Locking Small Fragment (Applications, Uses, Where & How).” Synthes Locked/Compression Plating and Current Concepts – A Trauma Symposium., San Francisco, CA
Sept. 24-25, 2004	“Indications / Technique: Retrograde Nailing” and “Tips and Tricks – Positioning/Reduction Aids for Tibial Nailing” Innovative Techniques for Long Bone Fractures. Napa, CA
Oct. 23, 2004	“Review of the Small and Large Fragment Locking Plate Systems” and “Cable System - Applications: When, Where, and How.” Synthes - Treatment Options for Perioperative Fractures Course (Course Chair) Napa, CA
May 13, 2005	“Femoral Neck Fractures – Maximizing Success of ORIF.” California Orthopaedic Association Annual Meeting. Indian Wells, CA.
Sept. 23-24, 2005	“Retrograde IM femoral nailing: Indications and Techniques” and “Tips and Tricks: Positioning / Reduction Aids for Tibial Nailing” Innovative Techniques for Long Bone Fractures Course. Napa, CA
Nov. 1, 2006	“Tissue Regeneration in Orthopaedics.” Colorado-Wyoming Junior Academy of Science. Denver, CO
June 22, 2011	“Office Orthopaedics for the Family Practice Physician” and “Introduction to Joint Injection Workshop.” 58 th Annual Family Medicine Review Course, Estes Park, CO
June 29, 2012	“The Office Orthopaedic Exam.” 59 th Annual Family Medicine Review Course, Estes Park, CO
August 4, 2012	“Osteoporosis Evaluation and Management: What the Orthopaedic Surgeon Needs to Know” Rocky Mountain Orthopaedic Trauma Conference, Beaver Creek, Colorado
August 4, 2012	“The Syndesmotic Injury” Rocky Mountain Orthopaedic Trauma Conference, Beaver Creek, Colorado
August 4, 2012	“Radiation in the OR: Am I Safe from Harm” Rocky Mountain Orthopaedic Trauma Conference, Beaver Creek, Colorado
August 4, 2012	“Bone Graft Substitutes: What is this Stuff and Do I Really Need It?” Rocky Mountain Orthopaedic Trauma Conference, Beaver Creek, Colorado
August 5, 2012	“Tibial IM Nailing Tips and Tricks” Rocky Mountain Orthopaedic Trauma Conference, Beaver Creek, Colorado
August 5, 2012	“Maintenance of Competency: Strategies for Overcoming Your Next Hurdle” Rocky Mountain Orthopaedic Trauma Conference, Beaver Creek, Colorado
November 9, 2012	“The Office Orthopaedic Exam.” 59 th Fall Family Medicine Review Course, Denver, CO
March 15, 2013	“The use of carbon fiber implants for proximal humerus fractures.” Rocky Mountain Shoulder and Elbow Society Meeting, Beaver Creek, CO.
May 4, 2013	“Open Fractures: Evidence Driven Treatment in 2013.” Orthopaedic Trauma Association Acute Trauma Care Course, Denver, CO.
June 27, 2013	“Principles of Temporary Skeletal External Fixation in Trauma.” 40 th Annual Rocky Mountain Trauma and Emergency Medicine Conference, Breckenridge, CO
June 28, 2013	“Assessment of Common Orthopaedic Complaints.” 60 th Annual Family Medicine Review Course, Estes Park, CO
August 3, 2013	“Osteoporosis Evaluation and Management – What you need to know.” Rocky Mountain Orthopaedic Trauma Conference, Beaver Creek, Colorado
September 6, 2013	“History of Internal Fixation”. DePuy Synthes Principles Course of Fracture Management for Operating Room Personnel. Englewood, CO. (Course Chairman)

August 8, 2014	“Pediatric Elbow Fractures.” Rocky Mountain Orthopaedic Trauma Conference, Beaver Creek, Colorado
August 9, 2014	“Now that my fracture is fixed, what should I do about my Osteoporosis.” Rocky Mountain Orthopaedic Trauma Conference, Beaver Creek, Colorado
August 9, 2014	“Why didn’t my fracture didn’t heal, and now what are you going to do?” Rocky Mountain Orthopaedic Trauma Conference, Beaver Creek, Colorado
August 7, 2015	“Pediatric Elbow Fractures.” Rocky Mountain Orthopaedic Trauma Conference, Beaver Creek, Colorado
August 8, 2015	“Now that my fracture is fixed, what should I do about my Osteoporosis.” Rocky Mountain Orthopaedic Trauma Conference, Beaver Creek, Colorado
August 8, 2015	“Why didn’t my fracture didn’t heal, and now what are you going to do?” Rocky Mountain Orthopaedic Trauma Conference, Beaver Creek, Colorado
June 16, 2017	“Management of Hemorrhage in Severe Pelvic Fractures.” 44 th Annual Rocky Mountain Trauma & Emergency Medicine Conference, Beaver Creek, Colorado
May 26, 2018	Faculty, Miller Orthopedic Review Part II Oral Board Exam Course, Westminster, Colorado

Invited Presentations – Local Meetings

Sept. 9, 1994	“Giant Cell Tumor of Bone: The Persistent Problem of Local Recurrence.” University of California, Los Angeles, Orthopaedic Alumni Day. Los Angeles, CA
Sept. 20, 1996	“Unreamed Intramedullary Tibial Nailing.” 35 th Annual Meeting, University of Michigan Orthopaedic Alumni Society. Ann Arbor, MI
Sept. 26, 1996	“A History of Fracture Fixation.” University of California, Davis Trauma Fellows Alumni Meeting. Boston, MA
June 14, 1997	“Intramedullary Nailing: Tips and Tricks” and “Pelvic Fractures: Evaluation and Emergent Management.” 1997 Trauma Update Course. Ypsilanti, MI
Dec. 6, 1997	“Early Fixation of Long Bone Fractures” and “Classification and Management of Pelvic Fractures.” Saint Joseph Mercy Health System: Trauma Care ’97: A Focused Review. Ypsilanti, MI
Jan. 13, 1998	“Acetabular and Pelvic Fractures.” National Association of Orthopaedic Nurses, Greater Metropolitan Chapter, Ann Arbor, MI
Feb. 22, 1999	“Grade IIIC Open Tibia Fractures: Difficult Decisions and Challenging Problems.” Saint Joseph Mercy Health System: Trauma Care: A Focused Review. Ypsilanti, MI
March 19, 1999	“Challenges in Orthopaedic Trauma: In the Wrong Place at the Wrong Time, or an Accident Waiting to Happen.” National Association of Orthopaedic Nurses, Greater Metropolitan Area Chapter. Sterling Heights, MI
Aug. 3, 1999	“Low Molecular Weight Heparins: Evolving Roles in Clinical Practice.” Dinner CME Meeting. Buffalo, NY
Aug. 17, 1999	“Low Molecular Weight Heparins: Evolving Roles in Clinical Practice.” Dinner CME Meeting. Atlanta, GA
Aug. 23, 1999	“Low Molecular Weight Heparins: Evolving Roles in Clinical Practice.” Dinner CME Meeting. Baltimore, MD
Sept. 7, 1999	“Low Molecular Weight Heparins: Evolving Roles in Clinical Practice.” Dinner CME Meeting. Columbia, SC
Sept. 15, 1999	“Low Molecular Weight Heparins: Evolving Roles in Clinical Practice.” Dinner CME Meeting. Philadelphia, PA

- Sept. 25, 1999 "Low Molecular Weight Heparins: Evolving Roles in Clinical Practice." Trauma Symposium. Prince Georges Hospital, Cheverly, MD
- Sept. 28, 1999 "Low Molecular Weight Heparins: Evolving Roles in Clinical Practice." Dinner CME Meeting. McLean, Virginia..
- Oct. 19, 1999 "Low Molecular Weight Heparins: Evolving Roles in Clinical Practice." Dinner CME Meeting. Wilmington, DE
- Nov. 6, 1999 "Low Molecular Weight Heparins: Evolving Roles in Clinical Practice." Controversies in Medicine. Palm Beach, FL
- Dec. 7, 1999 "Low Molecular Weight Heparins: Evolving Roles in Clinical Practice." Dinner CME Meeting. Albany, NY
- Dec. 13, 1999 "Low Molecular Weight Heparins: Evolving Roles in Clinical Practice." Dinner CME Meeting. Fort Myers, FL
- Dec. 14, 1999 "Low Molecular Weight Heparins: Evolving Roles in Clinical Practice." Dinner CME Meeting. Port Charlotte, FL
- April 5, 2000 "Low Molecular Weight Heparins: Evolving Roles in Clinical Practice." Dinner CME Meeting. Orlando, FL
- April 6, 2000 "Low Molecular Weight Heparins: Evolving Roles in Clinical Practice." Dinner CME Meeting. San Juan, PR
- June 26, 2000 "Low Molecular Weight Heparins: Evolving Roles in Clinical Practice." Dinner CME Meeting. Beverly Hills, CA
- Aug. 16, 2000 "Low Molecular Weight Heparins: Evolving Roles in Clinical Practice." Dinner CME Meeting. Stockbridge, GA
- Oct. 21, 2002 "Role of BMPs in the Management of Nonunions: OP-1 Training" Presented to Orthopaedic Trauma Faculty, Harborview Medical Center. Seattle, WA
- Dec. 7, 2002 "Surgical Management of Hip Fractures" Synthes-sponsored AO Operating Room Instructional Course for Operating Room Personnel. University of California, Davis Medical Center. Sacramento, CA
- Feb. 20-21, 2004 "Tibial Nailing and Pitfalls," "Femur Fractures," and "Percutaneous Distal Femoral Techniques." Orthopaedic Trauma Symposium, Washoe Medical Center. Lake Tahoe/Squaw Creek Resort. Lake Tahoe, NV
- April 12, 2007 "Weightbearing Restrictions Following Fractures" Physical Therapy Inservice, Denver Health Medical Center. Denver, CO.
- May 19, 2007 "Introduction to an AO Internal Fixation Bioskills Workshop", "Small Fragment Locking Set" and "Introduction to Locking Plates". Synthes Operating room Personnel Course. Denver, CO
- June 2, 2007 "Advancements in Antegrade and Retrograde Nailing of the Femur." Synthes Advanced Technology Symposium, Westminster, CO (Cadaver workshop)
- Sept. 28, 2007 "Supracondylar femur fractures – When should I use a locked plate with percutaneous technique?" Fall Orthopaedic Summit. Keystone, CO
- November 13, 2007 "External Fixation: Saving Lives with Damage Control and avoiding Complications with Spanning External Fixation." North Colorado Medical Center, Greeley Colorado
- February 28, 2008 "Intramedullary nailing" Physical Therapy Inservice, Denver Health Medical Center. Denver, CO.
- March 13, 2008 "Make no bones about it, you've got an amazing skeleton". Saint Mary's Academy, Kindergarten Health Fair Presentation, Denver, Colorado.
- December 4, 2008 "The use of rhBMP-2 in open tibial shaft fractures." Dinner meeting, Hartford Connecticut.
- December 5, 2008 "Bone graft healing and bone graft substitutes." 7th Annual Colorado Orthopaedic Trauma Symposium. Golden, Colorado.

January 7, 2009	“The use of rhBMP-2 in open tibial shaft fractures.” Dinner meeting, Irvine, California
February 13, 2009	“Make no bones about it, you’ve got an amazing skeleton”. Saint Mary’s Academy, Primary School Presentation, Denver, Colorado.
March 10, 2009	“Injury Prevention” St. Mary’s Academy Primary School Health Fair Presentation, Denver, Colorado.
December 2, 2009	AO Visiting Professorship. “Getting it out: The trials and tribulations of hardware removal.” Orthopaedic “Bombers” Club, Colorado Springs, Colorado
October 23, 2010	“Treatment option for nailing the femur”, “External fixation indications and techniques.” AO North America Nursing Continuing Education Orthopaedic Bioskills Workshop, Denver CO
April 6, 2010	AO Visiting Professorship. “Orthopaedic Instruments and the Surgeon Behind the Name.” Orthopaedic “Bombers” Club, Colorado Springs, Colorado
November 16, 2010	“Management of High Energy Pelvic Fractures.” Denver Health Trauma / Critical Care Outreach Lecture. Denver, CO
June 21, 2012	“Orthopaedic Instruments and the Surgeon Behind the Name.” Northwestern University Orthopaedic Residents Dinner Meeting.
September 7, 2012	“Clinical case presentation – Proximal humerus fracture dislocation.” Yampa Valley Medical Center Trauma Conference, Steamboat Springs, CO
November 14, 2012	“The skeletal system” Presentation to three 4 th grade science classes, Colorado Academy.
October 14, 2015	“Intramedullary Nailing of Distal Femur Fractures”. Presented at Globus Medical, Audubon, PA
June 29, 2017	“Hip Fractures: Everything you need to know.” Presented in-service for inpatient and outpatient physical therapy departments, Denver Health Medical Center, Denver CO.
August 16, 2017	“Compartment Syndrome: An important problem that is frequently misunderstood.” Denver Health Medical Center Trauma Outreach Lecture Series.
October 5, 2017	“Compartment Syndrome: An important problem that is frequently misunderstood.” Improving Outcomes – Saving Lives, Critical Care Conference Denver, CO
November 3, 2018	“Fractures Around Joints: How are they managed?” Denver Health APP Conference, Denver CO

TEACHING RECORD

Medical Student and Resident Teaching Presentations

University of Michigan

Oct. 1, 1996	“Orthopaedic Trauma Management.” University of Michigan, Surgical Clerkship Lecture Program, Ann Arbor, MI.
Nov. 26, 1996	“Pelvic Fracture Emergency Management.” University of Michigan, Trauma Surgery Conference, Ann Arbor, MI.
Dec. 6, 1996	“Pelvic Fracture Management.” University of Michigan, Orthopaedic Trauma Conference, Ann Arbor, MI.
Nov. 8, 1997	“Fractures About the Elbow.” University of Michigan, Orthopaedic Trauma Conference, Ann Arbor, MI
Jan. 11, 1997	“Fracture Healing and Bone Grafting.” University of Michigan, Orthopaedic Surgery Basic Science, Ann Arbor, MI
Jan. 24, 1997	“Documentation and Medical Malpractice.” University of Michigan, Orthopaedic Trauma Conference. Ann Arbor, MI
Jan. 24, 1997	“Orthopaedic Trauma Management.” University of Michigan, Surgical Clerkship Lecture Program. Ann Arbor, MI

March 21, 1997	“Both Bone Forearm Fractures.” University of Michigan, Orthopaedic Trauma Conference. Ann Arbor, MI
April 5, 1997	“Supracondylar Femur Fractures & Approaches to the Femur.” University of Michigan, Orthopaedic Basic Science. Ann Arbor, MI
May 21, 1997	“Orthopaedic Trauma Management.” University of Michigan, Surgical Clerkship Lecture Program. Ann Arbor, MI
Aug. 8, 1997	“Humeral Shaft Fractures.” University of Michigan, Orthopaedic Trauma Conference. Ann Arbor, MI
Aug. 13, 1997	“Orthopaedic Trauma Management.” University of Michigan, Surgical Clerkship Lecture Program. Ann Arbor, MI
Sept. 24, 1997	“Orthopaedic Trauma Management.” University of Michigan, Surgical Clerkship Lecture Program. Ann Arbor, MI
Nov. 22, 1997	“Bone Grafts and Bone Morphogenetic Protein.” University of Michigan, Orthopaedic Surgery Basic Science. Ann Arbor, MI
Jan. 27, 1998	“Orthopaedic Trauma Management.” University of Michigan, Surgical Clerkship Lecture Program. Ann Arbor, MI
April 13, 1998	“Orthopaedic Trauma Management.” University of Michigan, Surgical Clerkship Lecture Program. Ann Arbor, MI
April 16, 1998	“Orthopaedics: Clinical Correlation.” University of Michigan, Surgical Clerkship Lecture Program. Ann Arbor, MI
April 18, 1998	“Supracondylar Femur Fractures & Approaches to the Femur.” University of Michigan, Orthopaedic Basic Science. Ann Arbor, MI
Aug. 5, 1998	“Orthopaedic Trauma Management.” University of Michigan, Surgical Clerkship Lecture Program. Ann Arbor, MI
Nov. 11, 1998	“Orthopaedic Trauma Management.” University of Michigan, Surgical Clerkship Lecture Program. Ann Arbor, MI
Feb. 24, 1999	“Orthopaedic Trauma Management.” University of Michigan, Surgical Clerkship Lecture Program. Ann Arbor, MI
May 5, 1999	“Orthopaedic Trauma Management.” University of Michigan, Surgical Clerkship Lecture Program. Ann Arbor, MI
May 8, 1999	“Supracondylar Femur Fractures & Approaches to the Femur.” University of Michigan, Orthopaedic Basic Science. Ann Arbor, MI
July 1, 1999	“Diagnosis and Management of Ankle Fractures.” University of Michigan, Orthopaedic Core Curriculum. Ann Arbor, MI
July 10, 1999	“Principles of Internal Fixation.” University of Michigan, Orthopaedic Core Curriculum. Ann Arbor, MI
July 10, 1999	“Principles of External Fixation.” University of Michigan, Orthopaedic Core Curriculum. Ann Arbor, MI
July 13, 1999	“Orthopaedic Trauma Management.” University of Michigan, Surgical Clerkship Lecture Program. Ann Arbor, MI
July 17, 1999	“Supracondylar Femur Fractures.” University of Michigan, Orthopaedic Core Curriculum. Ann Arbor, MI
July 31, 1999	“Management of Tibial Shaft Fractures.” University of Michigan, Orthopaedic Core Curriculum. Ann Arbor, MI
July 31, 1999	“Ipsilateral Femoral Neck and Shaft Fractures.” University of Michigan, Orthopaedic Core Curriculum. Ann Arbor, MI
Aug. 12, 1999	“Pelvic Fractures.” University of Michigan, Orthopaedic Core Curriculum. Ann Arbor, MI
Aug. 12, 1999	“Management of Penetrating Trauma.” University of Michigan, Orthopaedic Core Curriculum. Ann Arbor, MI
Aug. 14, 1999	“Humeral Shaft Fractures.” University of Michigan, Orthopaedic Core Curriculum. Ann Arbor, MI
Aug. 14, 1999	“Fractures About the Elbow.” University of Michigan, Orthopaedic Core Curriculum. Ann Arbor, MI
Sept. 9, 1999	“Current Concepts in Orthopaedic Trauma.” General Surgery Teaching Conference. University of Michigan, Ann Arbor, MI

David J. Hak, MD, MBA, FACS

Oct. 6, 1999 “Orthopaedic Trauma Management.”
University of Michigan, Surgical Clerkship Lecture Program. Ann Arbor, MI

University of California, Davis

Aug. 22, 2000 “Giant Cell Tumor of Bone.”
University of California, Davis - Orthopaedic Basic Science Education. Davis, CA

Aug. 29, 2000 “Ewing’s Sarcoma.”
University of California, Davis - Orthopaedic Basic Science Education. Davis, CA

Sept. 12, 2000 “Aneurysmal Bone Cyst and Unicameral Bone Cyst.”
University of California, Davis - Orthopaedic Basic Science Education. Davis, CA

Jan. 2, 2001 “Articular cartilage structure.”
University of California, Davis - Department of Orthopaedics. Resident Basic Science. Davis, CA

Jan. 9, 2001 “Articular cartilage metabolism.”
University of California, Davis - Department of Orthopaedics. Resident Basic Science. Davis, CA

Jan. 16, 2001 “Tibial plateau fractures.”
University of California, Davis - Department of Orthopaedics. Resident Basic Science. Davis, CA

April 3, 2001 “Tumor unknowns.”
University of California, Davis - Department of Orthopaedics. Resident Basic Science. Davis, CA

April 13, 2001 “Humeral Shaft Fractures.”
University of California, Davis - Department of Orthopaedics, Friday Morning Teaching Conference. Sacramento, CA

May 22, 2001 “Molecular mechanisms in musculoskeletal sepsis” and “Infection histology and radiology.”
University of California, Davis - Department of Orthopaedics. Resident Basic Science. Davis, CA

May 29, 2001 “Antibiotics.”
University of California, Davis - Department of Orthopaedics. Resident Basic Science. Davis, CA

June 29, 2001 “Indirect Reduction.”
University of California, Davis - Department of Orthopaedics, Friday Morning Teaching Conference. Sacramento, CA

July 13, 2001 “Basics of Internal and External Fixation.”
University of California, Davis - Department of Orthopaedics, Friday Morning Teaching Conference. Sacramento, CA

July 17, 2001 “Avascular necrosis pathology” and “Femoral neck fractures.”
University of California, Davis - Department of Orthopaedics. Resident Basic Science. Davis, CA

Aug. 21, 2001 “DVT pathology.”
University of California, Davis - Department of Orthopaedics. Resident Basic Science. Davis, CA

Sept. 21, 2001 “Tibia Plateau Fractures.”
University of California, Davis - Department of Orthopaedics, Friday Morning Teaching Conference. Sacramento, CA

Oct. 12, 2001 “Femoral Shaft Fractures.”
University of California, Davis - Department of Orthopaedics, Friday Morning Teaching Conference. Sacramento, CA

Oct. 26, 2001 “Subtrochanteric Femur Fractures.”

	University of California, Davis - Department of Orthopaedics, Friday Morning Teaching Conference. Sacramento, CA
Nov. 13, 2001	“The human genome” and “Medical genetics for the orthopaedist.” University of California, Davis - Department of Orthopaedics. Resident Basic Science. Davis, CA
Nov. 27, 2001	“Embryology review.” University of California, Davis - Department of Orthopaedics. Resident Basic Science. Davis, CA
Jan. 29, 2002	“Fracture healing.” University of California, Davis - Department of Orthopaedics. Resident Basic Science. Davis, CA
Feb. 5, 2002	“Nonunions: Management principles.” University of California, Davis - Department of Orthopaedics. Resident Basic Science. Davis, CA
Feb. 26, 2002	“Heterotopic ossification / Fibrodysplasia ossificans progressiva.” University of California, Davis - Department of Orthopaedics. Resident Basic Science. Davis, CA
March 26, 2002	“Tendon structure” and “Ligament structure.” University of California, Davis - Department of Orthopaedics. Resident Basic Science. Davis, CA
April 2, 2002	“Tendon injury and repair.” University of California, Davis - Department of Orthopaedics. Resident Basic Science. Davis, CA
April 12, 2002	“Humeral Shaft Fractures.” University of California, Davis - Department of Orthopaedics, Friday Morning Teaching Conference. Sacramento, CA
April 23, 2002	“Ligament injury and repair.” University of California, Davis - Department of Orthopaedics. Resident Basic Science. Davis, CA
May 14, 2002	“Synovium structure and histology.” University of California, Davis - Department of Orthopaedics. Resident Basic Science. Davis, CA
May 28, 2002	“Immunology in Orthopaedics.” University of California, Davis - School of Medicine, Department of Orthopaedics. Resident Basic Science. Davis, CA
June 28, 2002	“Complications of Internal Fixation.” University of California, Davis - Department of Orthopaedics, Friday Morning Teaching Conference. Sacramento, CA
July 16, 2002	“Peripheral nerve structure and function.” University of California, Davis - Department of Orthopaedics. Resident Basic Science. Davis, CA
July 19, 2002	“Basics of Internal and External Fixation.” University of California, Davis - Department of Orthopaedics, Friday Morning Teaching Conference. Sacramento, CA
Aug. 6, 2002	“Nerve injury and repair.” University of California, Davis - Department of Orthopaedics. Resident Basic Science. Davis, CA
Dec. 6, 2002	“Infection Following ORIF.” University of California, Davis - Department of Orthopaedics, Friday Morning Teaching Conference. Sacramento, CA
Dec. 10, 2002	“Biomechanics of fracture fixation.” University of California, Davis - Department of Orthopaedics. Resident Basic Science. Davis, CA
Jan. 7, 2003	“Articular cartilage structure” and “Tibial pilon fractures.” University of California, Davis - Department of Orthopaedics. Resident Basic Science. Davis, CA

- Jan. 14, 2003 "Articular cartilage metabolism" and "Tibial plateau fractures."
University of California, Davis - Department of Orthopaedics. Resident Basic Science. Davis, CA
- Feb. 21, 2003 "Both-Bone Forearm Fractures."
University of California, Davis - Department of Orthopaedics, Friday Morning Teaching Conference. Sacramento, CA
- May 6, 2003 "Molecular mechanisms in musculoskeletal sepsis," "Antibiotics," and "Necrotizing soft tissue infections."
University of California, Davis - Department of Orthopaedics. Resident Basic Science. Davis, CA
- May 13, 2003 "Pediatric septic arthritis" and "Pediatric osteomyelitis."
University of California, Davis - Department of Orthopaedics. Resident Basic Science. Davis, CA
- June 3, 2003 "Muscle injury and repair."
University of California, Davis - School of Medicine, Department of Orthopaedics. Resident Basic Science. Davis, CA
- June 24, 2003 "Compartment syndrome."
University of California, Davis - Department of Orthopaedics. Resident Basic Science. Davis, CA
- July 8, 2003 "DVT pathology."
University of California, Davis - Department of Orthopaedics. Resident Basic Science. Davis, CA
- July 11, 2003 "Basics of Internal and External Fixation."
University of California, Davis - Department of Orthopaedics, Friday Morning Teaching Conference. Sacramento, CA
- July 22, 2003 "Avascular necrosis pathology" and "Femoral neck fractures."
University of California, Davis - Department of Orthopaedics. Resident Basic Science. Davis, CA
- July 29, 2003 "AVN of the knee" and "Sickle Cell disease and hemophilia in orthopaedics."
University of California, Davis - Department of Orthopaedics. Resident Basic Science. Davis, CA
- Sept. 12, 2003 "Approach to Treatment of Malunions and Nonunions."
University of California, Davis - Department of Orthopaedics, Friday Morning Teaching Conference. Sacramento, CA
- Sept. 19, 2003 "Approach to treatment of malunions and nonunions."
University of California, Davis - Department of Orthopaedics. Resident Basic Science. Davis, CA
- Oct. 8, 2003 Orthopaedic physical examination skill course, University of California, Davis, 2nd year medical students..
- Oct. 24, 2003 "Tibial Plateau Fractures."
University of California, Davis - Department of Orthopaedics. Resident Basic Science. Davis, CA
- Dec. 19, 2003 "Acetabular Fractures."
University of California, Davis - Department of Orthopaedics, Friday Morning Teaching Conference. Sacramento, CA
- Jan. 6, 2004 "Bone structure," "Fracture healing," and "Biomechanics of fracture fixation."
University of California, Davis - Department of Orthopaedics. Resident Basic Science. Davis, CA
- Jan. 13, 2004 "Orthopaedic In-Training Exam (OITE) Review."
University of California, Davis - Department of Orthopaedics. Resident Basic Science. Davis, CA
- Feb. 24, 2004 "Orthopaedics for General Surgeons."
University of California, Davis - Department of Surgery. General Surgery Residency Education Program. Sacramento, CA

- Feb. 24, 2004 "Nonunions: Management principles," "Bone grafts, bone graft substitutes, electrical stimulation and ultrasound," and "Heterotopic ossification / fibrodysplasia ossificans progressiva."
University of California, Davis - Department of Orthopaedics. Resident Basic Science. Davis, CA
- Feb. 27, 2004 "Forearm Fractures."
University of California, Davis - Department of Orthopaedics, Friday Morning Teaching Conference. Sacramento, CA
- March 19, 2004 "Humeral Shaft Fractures."
University of California, Davis - Department of Orthopaedics, Friday Morning Teaching Conference. Sacramento, CA
- March 30, 2004 "Synovium structure and histology," "Immunology in orthopaedics," "Juvenile rheumatoid arthritis," and "Gout and pseudogout."
University of California, Davis - Department of Orthopaedics. Resident Basic Science. Davis, CA
- May 4, 2004 "Peripheral nerve structure and function" and "Nerve injury and repair."
University of California, Davis - Department of Orthopaedics. Resident Basic Science. Davis, CA
- May 14, 2004 "Intertrochanteric/Subtrochanteric Femur Fractures."
University of California, Davis - Department of Orthopaedics, Friday Morning Teaching Conference. Sacramento, CA
- July 9, 2004 "Ankle fractures."
University of California, Davis - Department of Orthopaedics. Resident Basic Science. Davis, CA
- July 13, 2004 "Principles of internal and external fixation."
University of California, Davis - Department of Orthopaedics. Resident Basic Science. Davis, CA
- July 16, 2004 "Femoral shaft fractures," and "Femoral neck fractures."
University of California, Davis - Department of Orthopaedics. Resident Basic Science. Davis, CA
- July 20, 2004 "Intertrochanteric hip fractures," and "Subtrochanteric hip fractures."
University of California, Davis - Department of Orthopaedics. Resident Basic Science. Davis, CA
- July 30, 2004 "Patella fractures."
University of California, Davis - Department of Orthopaedics. Resident Basic Science. Davis, CA
- Aug. 17, 2004 "Forearm fractures," and "Gunshot wound management and ballistics."
University of California, Davis - Department of Orthopaedics. Resident Basic Science. Davis, CA
- Aug. 20, 2004 "Femoral shaft fractures."
University of California, Davis - Department of Orthopaedics. Resident Basic Science. Davis, CA
- Aug. 24, 2004 "Forearm fractures" and "Olecranon and patella fractures."
University of California, Davis - Department of Orthopaedics. Resident Basic Science. Davis, CA
- Aug. 16, 2005 "Open fracture management."
University of California, Davis - Department of Orthopaedics. Resident Basic Science. Davis, CA
- May 31, 2005 "Removing Broken Screws and Implants."
University of California, Davis Orthopaedic Residents Motor Skills Workshop. Sacramento, CA
- August 5, 2005 "Basics of Internal Fixation and External Fixation Including Locking Plates."
Trauma Basic Science Lecture. Department of Orthopaedic Surgery, University of California, Davis. Sacramento, CA
- Aug. 16, 2005 "Management of Open Fractures and Nonunions."

- Sept. 20, 2005 Trauma Basic Science Lecture. Department of Orthopaedic Surgery, University of California, Davis. Sacramento, CA
"Tibial shaft fractures."
University of California, Davis - Department of Orthopaedics, Trauma Basic Science. Sacramento, CA.
- Sept. 27, 2005 "Fractures around the adult elbow."
University of California, Davis - Department of Orthopaedics, Trauma Basic Science. Sacramento, CA.
- Nov. 8, 2005 "Biology of fracture healing."
University of California, Davis - Department of Orthopaedics, Trauma Basic Science. Sacramento, CA.
- Nov. 17, 2005 "Fracture healing: University of California, Davis OSU 421 (2nd year medical student musculoskeletal course.)"
- Nov. 22, 2005 "Fractures" and "Bone infections."
University of California, Davis - Department of Orthopaedics, Trauma Basic Science. Sacramento, CA.

University of Colorado

- Oct. 18, 2006 "Management of Nonunions and Malunions."
Resident Weekly Core Curriculum Conference, Department of Orthopaedics, University of Colorado Health Sciences Center. Denver, CO
- April 25, 2007 "Acetabular Fracture Clarification"
Resident Weekly Core Curriculum Conference, Department of Orthopaedics, University of Colorado Health Sciences Center. Denver, CO
- February 6, 2008 "Calcaneus Fractures" and "Talus Fractures"
Resident Weekly Core Curriculum Conference, Department of Orthopaedics, University of Colorado Health Sciences Center. Denver, CO
- April 23, 2008 "Patella fractures, extensor mechanism injuries and knee dislocations."
Resident Weekly Core Curriculum Conference, Department of Orthopaedics, University of Colorado Health Sciences Center. Denver, CO
- October 22, 2008 Management of Nonunions and Malunions."
Resident Weekly Core Curriculum Conference, Department of Orthopaedics, University of Colorado Health Sciences Center. Denver, CO
- January 28, 2009 "Orthopaedic Trauma – Key Concepts" Introduction to Orthopaedics 1st year Medical Student Course (ORTH 66200, University of Colorado Health Sciences Center. Denver, CO.
- June 10, 2009 "Tibial pilon fractures."
Resident Weekly Core Curriculum Conference, Department of Orthopaedics, University of Colorado Health Sciences Center. Denver, CO
- January 13, 2010 "Orthopaedic Trauma – Key Concepts" Introduction to Orthopaedics 1st year Medical Student Course (ORTH 6620, University of Colorado Health Sciences Center. Denver, CO.
- June 9, 2010 "Patella fractures, quadriceps tendon ruptures, and patellar tendon ruptures."
Resident Weekly Core Curriculum Conference, Department of Orthopaedics, University of Colorado Health Sciences Center. Denver, CO
- September 2, 2010 Problem Based Learning facilitator (Substitute), Second Year Medical Students, University of Colorado Health Sciences Center. Denver, CO
- November 4, 2010 Problem Based Learning facilitator (Substitute), First Year Medical Students, University of Colorado Health Sciences Center. Denver, CO
- May 18, 2011 "Challenges in Ankle Fracture Management." Resident Weekly Core Curriculum Conference, Department of Orthopaedics, University of Colorado Health Sciences Center. Denver, CO
- September 22, 2011 Problem Based Learning facilitator (Substitute), First Year Medical Students, University of Colorado Health Sciences Center. Denver, CO

October 27, 2011	Problem Based Learning facilitator (Substitute), First Year Medical Students, University of Colorado Health Sciences Center. Denver, CO
April 25, 2012	“Lisfranc Fracture Dislocation” and “Lower Extremity Dissection” Resident Weekly Core Curriculum Conference, Department of Orthopaedics, University of Colorado Health Sciences Center. Aurora, CO
July 31, 2013	“Surgical Approaches for Acetabular Fractures.” Resident Weekly Core Curriculum Conference, Department of Orthopaedics, University of Colorado Health Sciences Center. Aurora, CO
July 22, 2015	“Tibial plateau fractures” and “Tibial shaft fractures” Resident Weekly Core Curriculum Conference, Department of Orthopaedics, University of Colorado Health Sciences Center. Aurora, CO
August 3, 2016	“Femoral neck fractures,” “Intertrochanteric hip fractures,” “Subtrochanteric hip fractures,” “Femoral head fractures,” “Optimizing stability in femoral neck fixation.” Resident Weekly Core Curriculum Conference, Department of Orthopaedics, University of Colorado Health Sciences Center. Aurora, CO
March 22, 2017	“Pelvic fractures” Physical Medicine and Rehabilitation Resident Teaching Conference, Denver CO.
July 3, 2017	“Plate Design and Function” Denver Health Resident Curriculum lectures.
July 25, 2017	“IM Nail fixation.” Denver Health Resident Curriculum lectures
August 17, 2017	“Femoral Neck Fractures” Denver Health Resident Curriculum lectures.
August 25, 2017	“Radiation Principles” Denver Health Resident Curriculum lectures
September 5, 2017	“Plate Design and Function” Denver Health Resident Curriculum lectures.
September 21, 2017	“Tension band principles” Denver Health Resident Curriculum lectures.
September 26, 2017	“Radiation Principles” Denver Health Resident Curriculum lectures.
September 29, 2017	“Intramedullary Nail Fixation Principles.” Denver Health Resident Curriculum lectures.
October 9, 2017	“Ankle fractures” Denver Health Resident Curriculum lectures.
October 24, 2017	“Femoral Neck Fractures.” Denver Health Resident Curriculum lectures.
November 2, 2017	“Humeral shaft Fractures” Denver Health Resident Curriculum lectures.
November 16, 2017	“Plate Design and Function” Denver Health Resident Curriculum lectures.
November 21, 2017	“Tension Band Principles” Denver Health Resident Curriculum lectures.
December 5, 2017	“Bridge Plating” Denver Health Resident Curriculum lectures.
December 21, 2017	“Reduction Techniques of Articular Fractures.” Denver Health Resident Curriculum lectures.
December 22, 2017	“Radiation Safety” Denver Health Resident Curriculum lectures.
December 29, 2017	“Femoral Neck Fractures” Denver Health Resident Curriculum lectures.
January 2, 2018	“Humeral shaft Fractures” Denver Health Resident Curriculum lectures.
January 4, 2018	“Plate Design and Function” Denver Health Resident Curriculum lectures.
January 19, 2018	“Tension Band Principles” Denver Health Resident Curriculum lectures
February 6, 2018	“Radiation Safety” Denver Health Resident Curriculum lectures.
February 23, 2018	“Femoral Neck Fractures” Denver Health Resident Curriculum lectures.
March 1, 2018	“Humeral shaft Fractures” Denver Health Resident Curriculum lectures.
March 2, 2018	“Plate Design and Function” Denver Health Resident Curriculum lectures.
March 29, 2018	“Bridge Plating.” Denver Health Resident Curriculum lectures.
April 6, 2018	“Radiation Safety” Denver Health Resident Curriculum lectures.
April 24, 2018	“Femoral Neck Fractures” Denver Health Resident Curriculum lectures.
May 1, 2018	“Humeral shaft Fractures” Denver Health Resident Curriculum lectures.
May 18, 2018	“Tension Band Principles” Denver Health Resident Curriculum lectures
June 8, 2018	“Plate Design and Function” Denver Health Resident Curriculum lectures.
July 10, 2018	“Surgical reduction techniques” Denver Health Resident Curriculum lectures
July 31, 2018	“Biology of fracture healing.” Denver Health Resident Curriculum lectures

Other resident teaching presentations

David J. Hak, MD, MBA, FACS

- Sept. 11, 1999 "Tips and Tricks of Intramedullary Nailing."
University of Puerto Rico Orthopaedic Program. Puerto Rico
- Dec. 6, 2002 "Management of Open Fractures."
University of California, Davis - School of Veterinary Medicine Resident
Teaching Conference. Davis, CA
- August 1, 2007 "Acetabular Fracture Classification"
Orthopaedic Resident Teaching Conference, University of New Mexico,
Albuquerque New Mexico
- December 21, 2007 "Acetabular Fracture Classification"
Orthopaedic Resident Teaching Conference, University of Oklahoma,
Department of Orthopaedic Surgery, Oklahoma City Oklahoma

AO Course Faculty and Presentations

- Mar. 24-29, 1996 Lab Instructor.
AO/ASIF Current Concepts in Fracture Management Course." Marco Island,
FL.
- Sept. 26, 1997 "Intramedullary Nailing of the Tibia - Indications and Options" and "The
Universal Distractor as a Reduction Tool."
AO/ASIF Regional Workshop. Kalamazoo, MI
- Nov. 14-15, 1997 "Orthopaedic Trauma: Team Approach to Fracture Management,"
"Management and Positioning of the Intramedullary Nailing Patient," and
"Tibial Treatment Decision: Intramedullary Nailing or External Fixation."
AO/ASIF Operating Room Personnel Course. Ypsilanti, MI
- Sept. 25, 1998 "Intramedullary Nailing of the Tibia - Indications and Options" and "The
Universal Distractor as a Reduction Tool."
AO/ASIF Regional Workshop. Kalamazoo, MI
- March, 1999 "AO/ASIF Principles of Fracture Management and Controversies in
Fracture Care Courses."
Lab Instructor. Sun Valley, ID
- March 21-26, 1999 "Management of Penetrating Trauma,"
AO/ASIF Advanced Controversies in Fracture Care. Sun Valley, ID
- March 21-26, 1999 "Tibial Shaft Fractures" and "Ipsilateral Femoral Neck and Shaft Fractures."
AO/ASIF Principles of Fracture Management. Sun Valley, ID
- Oct. 8-9, 1999 "Principles of Preoperative Planning" and "Tibial Fracture Treatment Decision."
AO/ASIF Operating Room Personnel Course. Minneapolis, MN
- Oct 20 – 21, 2000 Faculty and lecturer
AO/ASIF Operating Room Personnel Course, Foster City, CA
- March 22-25, 2001 "Acute Infection Following ORIF."
AO Principles of Fracture Management Course for Residents. Portland, OR
- Aug. 23 – 26, 2001 Faculty and lecturer
AO Principles of Fracture Management for Residents, Montreal, Canada
- Jan. 24-27, 2002 "The Patient and the Injury" and "Distal Femoral Fractures."
AO Principles of Fracture Management Course for Residents. Los Angeles, CA
- January 16-19, 2003 "Distal Femoral Fractures" and "Acute Infection Following ORIF."
AO Principles of Fracture Management Course for Residents (Course Co-
Chair). Reno, NV.
- Dec. 7 – 12, 2003 "Plate design and function" and "Supracondylar femur fractures" AP Principles
of Fracture Management. Davos, Switzerland.
- Jan. 20 - 23, 2005 "Infection Following Open Reduction and Internal Fixation."
AO Principles of Fracture Management Course for Residents. Dallas, TX
- Sept. 30- Oct 2, 2005 "Distal Femur Fractures: What's In; What's Out?" and "Damage Control
Orthopaedics: What Is It, And How To Apply It To Your Practice."
AO Regional Trauma Summit. Madison, WI

November 10, 2005	“Effective Presentations” AO Course Chairs and Directors Symposium, Scottsdale, Arizona
July 28 - 30, 2006	“Femoral neck fractures: Decision Making and Techniques” and “Locked Plating: A Rationale Approach” AO Regional Trauma. Saint Louis, MO
Jan. 26-29, 2006	Course Evaluator. AO Basic Principles and Techniques of Operative Fracture Management for Residents. Philadelphia, PA
Sept. 8-10, 2006	“Tips and tricks for intramedullary nailing” and “Managing segmental bone defects” AO Regional Trauma Summit. (Course Chair) Napa CA
Sept. 28–Oct.1, 2006	“Plate Design and Function” and “Infection following ORIF.” AO ASIF Principles of Fracture Management Course for Residents. San Diego, CA
Jan. 20-23, 2007	“Bone Healing” and “Proximal Humerus” Course Evaluator. AO Basic Principles and Techniques of Operative Fracture Management Course for Residents. Reno, NV
March 18 – 23, 2007	Course Evaluator. AO Basic Principles and Techniques of Operative Fracture Management Course. Sun Valley Idaho.
October 4 - 7, 2007	“Fracture Healing” AO Basic Principles and Techniques of Operative Fracture Management Course for Residents (Course Director), Denver Colorado
October 4 - 7, 2007	“Fracture Healing,” Bone morphogenetic protein, demineralized bone matrix and tissue engineering” and “Diaphysial nonunions: Evaluation and Treatment.” AO Advanced Principles and Techniques of Operative Fracture Management Course (Course Director), Denver Colorado
November 1, 2007	“Faculty Evaluation and Improvement” AO Course Chairs and Directors Symposium, Scottsdale, Arizona
Jan. 31 – Feb. 3, 2008	“History of the AO: Principles and Philosophy, Progress and Evolution,” and “Infection.” Course Evaluator. AO Basic Principles and Techniques of Operative Fracture Management Course for Residents. Jacksonville, Florida.
September 12 – 14, 2008	“Bone Graft Substitutes: Clinical Rationale” and “ Damage Control Orthopaedics: What Should I Be Doing?” AO Western Regional Fracture Summit, Vail, Colorado
September 27, 2008	“AO Principles: Review and Evolution.” Operating Room Personnel Multi-specialty Course, Denver, Colorado (Course Chair)
December 14 – 19, 2008	“Intramedullary nailing of distal femoral fractures – indications and outcomes.”, “Limb salvage of the mangled lower extremity.” Moderator for module on Biological and Mechanical Enhancement. International faculty. AO Trauma Course – Advances in Operative Fracture Management. Davos, Switzerland.
Jan. 31 – Feb 3, 2009	Course Evaluator. AO Basic Principles and Techniques of Operative Fracture Management Course for Residents. Charlotte North Carolina.
March 14 – 20, 2009.	Course Chair. Advanced Principles of Operative Fracture Management. Sun Valley, Idaho.
April 30 – May 3, 2009.	Course Evaluator. Pelvic and Acetabular Fracture Management Course. Birmingham, Alabama..
March 18 – 21, 2010	“Unique learning resources of the AO Foundation:” Course evaluator. AO Basic Principles and Techniques of Operative Fracture Management Course for Residents. Denver, Colorado.
June 13- 18, 2010	Moderator: Principles Overview Session. Lecture: “Pre-operative planning.” Lab Leader: “Preoperative planning lab”. Course Evaluator. AO Basic Course, Marco, Island Florida
November 11, 2010	“Faculty Precourse,” “The Evaluation Process,” and “Effective Use of the Audience Interactive Response System.” AO Trauma Course Chair and Directors Symposium. Phoenix, Arizona.

January 13 – 16, 2011	“Difficult Fracture Healing Case Presentation.” Course Evaluator. Caribbean Trauma Update: Tips and Tricks for Orthopaedic Surgeons, Cancun, Mexico.
July 30 – August 2, 2011	“Unique learning resources of the AO Foundation,” “ Radiation Safety,” and “Principles of Articular Fracture Management.” Course Evaluator. Basic Principles and Techniques of Operative Fracture Management Course for Residents, Chicago, Illinois
June 3 – 8, 2012	Module 1, Principles Overview, Moderator. Basic Principles and Techniques of Operative Fracture Management Course “History of fracture care and evolution of principles” and “Radiation Safety”. Basic Principles and Techniques of Operative Fracture Management Course, Marco Island, Florida.
March 20, 2014	“The AO World – From History to Life Long Learning” AOT Basic and Advanced Principles Course, Seoul, South Korea.
March 20, 2014	“Proximal Humerus Fractures – To Fix, To Replace, or Treat Nonoperatively. AOT Advanced Principles Course, Seoul, South Korea.
March 22, 2014	“ Evaluation and Emergency Management of Pelvic Ring Injuries.” AOT Advanced Principles Course, Seoul, South Korea.
March 22, 2014	“Delayed Healing – Causes and Treatment Principles.” AOT Basic and Advanced Principles Course, Seoul, South Korea.
January 8, 2015	“History of fracture care and evolution of principles” AO Basic Residents Course, Charlotte, NC
January 10, 2015	“Proximal Humerus Fractures” AO Basic Residents Course, Charlotte, NC
February 24, 2016	“History of Fracture Care and Evolution of Principles.” AO Basic Residents Course, Course Chair, Atlanta, GA
March 23, 2018	“Femoral Neck Fractures: Techniques.” AO Advanced Principles of Fracture Management, Kansas City, Missouri.
March 24, 2018	“Bone Graft Substitutes: Update.” AO Advanced Principles of Fracture Management, Kansas City, Missouri.
May 10, 2018	“Local vs. Systemic Antibiotics.” AO Trauma Current Concepts Course – Lower Extremity with Anatomical Specimens. Hong Kong, China.
May 10, 2018	“RIA Techniques and Pifalls.” AO Trauma Current Concepts Course – Lower Extremity with Anatomical Specimens. Hong Kong, China.
May 10, 2018	“Reduction of subtrochanteric fractures.” AO Trauma Current Concepts Course – Lower Extremity with Anatomical Specimens. Hong Kong, China.
May 11, 2018	“Combined femoral neck and shaft injuries.” OP Trauma Current Concepts Course – Lower Extremity with Anatomical Specimens. Hong Kong, China

Research Mentorship

Takashi Kokubu Kobe University, Kobe Japan 2001 - 2003
Takashi Makino Kobe University, Kobe Japan 2003 - 2005
Takahiro Niikura Kobe University, Kobe Japan 2005 - 2006
Takashi Suzuki Kitasato University School of Medicine, Sagamihara, Kanagawa, Japan 2006 - 2009
Chengla Yi, Department of Traumatic surgery, Tongji Hospital, Hankou, Wuhan 430030 Hubei Province, People’s Republic of China 2009 – 2010.
Serdar Toker, MD, Dumlupinar University School of Medicine, Kutahya, Turkey. 2009 – 2010.
Jens Hahnhaussen, Berlin Germany, 2011 – 2012.

GRANT SUPPORT

January 1, 1994- June 30, 1995
"A Comparison of Posterior Cortical Strain During Insertion of Reamed and Unreamed Tibial Nails."
Principal Investigator.
\$15,000

David J. Hak, MD, MBA, FACS

AO Foundation.

January 1, 1995- December 31, 1996

“Consequences of Malreduction of Acetabular Fractures on Load Transmission Across the Hip Joint.”

Co-Principal Investigator.

\$12,500

Orthopaedic Trauma Association.

September 1, 1995- July 31, 1996

“Consequences of Malreduction of Transverse Acetabular Fractures on Load Transmission Across the Hip Joint.”

Principal Investigator.

\$5,000

National Orthopaedic Surgery Fellows Foundation.

October 1, 1996 – September 30, 1997

“Genetics Institute Protocol C9612-11: A Dose-Finding Study of rhBMP-2/Absorbable Collagen Sponge (ACS) in Open Tibial Shaft Fractures Requiring Surgical Management.” Co-Investigator.

Approximately \$37,800

Genetics Institute.

January 1, 2002 – December 31, 2002

“The Effect of Low Molecular Weight Heparin on Fracture Healing in a Standardized Rat Femur Fracture Model.”

Principal Investigator.

\$14,651

Orthopaedic Trauma Association.

July 1, 2002– December 31, 2004

“Regeneration and Repair of Bone Following Trauma.”

Principal Investigator.

\$100,000.

Orthopaedic Research and Education Foundation.

January 1, 2003.- December 31, 2003

“Biomechanical Evaluation of the AO Locking Plate and Comparison to the Standard LC-DCP Plate in Fixation of Osteoporotic Humeral Shaft Fractures.”

Principal Investigator.

\$20,000.

AO Research Foundation.

July 1, 2003- June 30, 2004

“The Effect Of Cyclooxygenase-2 Inhibitors On Primary (Direct) Bone Healing.”

Principal Investigator.

\$11,878.

University of California, Davis Faculty Research Grant Program.

January 1, 2004 - December 31, 2004

“The Effect of Cyclooxygenase-2 Inhibitors on Primary (Direct) Bone Healing.”

Principal Investigator.

\$25,687.

Orthopaedic Trauma Association.

October 1, 2004- September 30, 2005

“A Phase 1 Dose-escalating, Open Label, Safety Study of Recombinant Human Bone Morphogenetic Protein-2 (rhBMP-2)/Calcium Phosphate Matrix (CPM) for Closed tibial Diaphyseal Fractures.”

David J. Hak, MD, MBA, FACS

Principal Investigator.
\$5,490.
Wyeth

October 1, 2004- September 30, 2005
“A Phase 1 Dose-escalating, Open Label Safety and Feasibility Study of Recombinant Human Bone Morphogenetic Protein-2 (rhBMP-2)/Calcium Phosphate Matrix (CPM) as an adjuvant Therapy for Closed Femoral Diaphyseal Fractures Treated with Reamed Statically Locked Antegrade or Retrograde Intramedullary (IM) Nail Fixation.”
Principal Investigator.
\$5,490.
Wyeth.

January 1, 2005 - December 31, 2005
“The Ability of Vascularized Endothelial Growth Factor (VEGF) to Repair an Atrophic Non-union.”
Principal Investigator.
\$25,000
AO Research Foundation.

January 1, 2006 - December. 31, 2006
“Investigation of Stem Cells in the Management of Atrophic Nonunions.”
Principal Investigator.
\$25,000.
Orthopaedic Trauma Association

July 1, 2006- June 30, 2008
“Improving fracture repair in aging patients: The influence of age on the effectiveness of mesenchymal stem cell stimulated nonunion repair.”
Principle Investigator.
\$50,000.
Osteosynthesis and Trauma Care Foundation (AIOD).

September 1, 2009 – March 1, 2011
“A critical assessment of syndesmotic reduction in Weber C ankle fractures.”
Principle investigator.
\$18,500
Foundation for Orthopaedic Trauma

April 2010 – 2013
“A multi-center randomized, double-blind, placebo-controlled study of AMG 785 in skeletally mature adults with a fresh unilateral tibial diaphyseal fracture status post definitive fixation with an intramedullary nail. Protocol 20062017.”
Principle Investigator
\$101,614.80
Amgen

April 2011- December 2012.
“A Prospective, Randomized, Multicenter Pivotal Clinical Trial of the INFUSE/MASTERGRAFT™ Delayed Healing Device with Rigid Internal Fixation in the Treatment of Tibial Delayed Healing”.
Principle Investigator
\$213,150.00
Medtronic

November 2010 – November 2011
“Major Extremity Trauma Research Consortium (METRC)”

David J. Hak, MD, MBA, FACS

Principle Investigator Denver Health Core Site
\$196,000
Department of Defense

June 2011 – April 2013
“Trial to Evaluate UltraSound in the Treatment of Tibial Fractures”
Principle Investigator
\$43,120
Smith & Nephew Inc. and Canadian Institutes of Health Research

November 2011– Present
“Major Extremity Trauma Research Consortium (METRC)”
Principle Investigator Denver Health Core Site
\$295,860
Department of Defense

October 2017 – Present
A Prospective Randomized Multicenter Controlled Trial of CERAMENT G as Part of Surgeical Repair of
Open Diaphyseal Tibial Fractures
Principle Investigator
\$125,000
BoneSupport AB

SCIENTIFIC ADVISORY BOARD PARTICIPATION

February 17, 2006	Tibia Fracture Healing Consultant Task Force Meeting, New York City, New York (Lilly)
March 3, 2006	Trauma Advisory Board, Memphis, Tennessee (Medtronic)
November 3, 2006	Bone Healing Expert Meeting CP-533,536, New York City, New York (Pfizer)
September 6-7, 2007	Biologics Trauma Translational Research Advisory Board, Memphis, Tennessee (Medtronic)
October 15, 2008	Orthopedic Scientific Advisory Board Meeting, Denver, Colorado (Amgen)
May 1, 2010	Denosumab Orthopaedic Scientific Advisory Board Meeting, Dallas, Texas (Amgen).
November 19, 2011	Osteobiologics Advisory Panel Meeting, Chicago IL (RTI Biologic)
September 25, 2012	Osteobiologics Advisory Panel Conference Call (RTI Biologic)
October 18 – 19, 2012	Orthopaedic Steering Committee Meeting, Chicago IL (Baxter Biosurgery)
January 15, 2018	BONES Stakeholders Advisory Group, Dallas, TX (Bioventus)

BIBLIOGRAPHY

Peer reviewed publications

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60. **Hak DJ.** Webinar. Post-traumatic long bone infection. SICOT Ortho Excellence Program. Broadcast to Indian Orthopaedic Surgeons. October 10, 2014.
61. **Hak DJ.** Moderator/Organizer Orthopedic Trauma Association Webinar. Tibial pilon fractures – Strategies to optimize outcomes. December 2, 2015.
62. **Hak DJ.** Errors in Intertrochanteric Hip Fracture Reduction. Orthopedic Trauma Association Webinar. January 19, 2017.
63. **Hak DJ,** Stahel PF Giannoudis P. Pathophysiology of the Polytrauma Patients. *Orthopaedic Knowledge Online Journal* 2017; 15(8) 1. <https://www.aaos.org/OKOJ/vol15/issue8/OKOJ-15-8-1/>

Other Scholarship Products

1. Developed the following slide presentations for use at National AO North America Operating Room Personnel Education Courses. Sept. 2000
“Proximal Humerus and Humeral Shaft Fractures;”
“Indirect Reduction: Concept and Technique;”
“Tibial Plateau Fractures;”
“Intramedullary Nailing;”
“Surgical Indications & Principles;”
“Plate Fixation: Indications & Principles;”
“Fractures of the Foot and Ankle.”
2. Revised and updated “Bone Grafting and Bone Graft Substitutes.” for the 2006OTA Resident Slide Project. June 2006
3. “Blocking screws.” Developed practical skill exercise and instructional video for AO Advanced Fracture Management course. 2007.
4. Revised and updated “Closed reduction, traction and casting techniques: for the OTA Trauma and Fracture Care Core Curriculum Lectures. January 2006 and October 2008.
5. “Acetabular fracture classification” self tutorial. 2007 – 2008. Initially this was developed as a hyperlinked powerpoint based instructional tutorial that reviews the 10 acetabular fracture patterns. It includes review questions with action links to the explanation slides. It has subsequently been made available online through AO International and may be accessed at the following site address:
http://www.aovideo.ch/~aoelearn/elearning_demo/Acetabular_fracture_elearning_module.htm
6. Revised and updated “Bone Grafting and Bone Graft Substitutes.” for the OTA Resident Core Curriculum Series. May 2010
7. “Orthopaedic Trauma Foundation Module.” Prepared for Medtronic Spinal and Biologics Global Sales Training Department, 2010.
8. Foot and ankle module curriculum development team, Orthopaedic Trauma Association, Residents Comprehensive Fracture Course (2010)

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11. **Hak DJ.** Editorial on "Epidemiology of fracture nonunion in 18 human bones." *Ann Transl Med.* 2017. Doi:10.21037/atm.2017.03.86
12. Mauffrey CM, **Hak DJ.** Tibial Defect ReconstructionL A Plea for Standardization. *J. Orthop Trauma.* 2017; 31(10 Suppl): S1 – S2.

SCIENTIFIC ABSTRACTS PUBLISHED OR PRESENTED AT SCIENTIFIC MEETINGS

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2. Kruger DM, **Hak DJ,** Viviano DM, Goldstein SA, Herzenberg JE. "Biomechanical Comparison of Single and Double Pin Fixation for Slipped Capital Femoral Epiphysis." *Orthopaedic Transactions.* 1988; 12(2):485.
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9. Thomas BJ, **Hak DJ,** Kabo JM. "Importance of Proximal Fill for Rotational Stability in Cementless Hip Arthroplasty." *Orthopaedic Transactions.* 1994; 18(4):1260.
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19. Hak DJ, Makino T, Hazelwood SJ, Reddi AH. "Rescue of an Atrophic Nonunion by Bone Morphogenetic Protein." *Journal of Orthopaedic Trauma (Supplement)*. October 2004; 18(9):S10.
20. Hak D, Schulz K, Khoie B, Hazelwood S. "The effect of cyclooxygenase-2 (cox-2) inhibitor on primary (direct) bone healing." *Journal of Bone and Joint Surgery British*. Vol 92-B,2010; Suppl 1: 73.
21. Hak DJ, Lin S, Hammerberg M, Stahel P. The success of single debridement and primary closure of acute postoperative infections following open reduction and internal fixation. *Bone Joint J* 2013;95-B 7.
22. Hak DJ, Linn S, Mauffrey C, Hammerberg M, and Stahel P. Incidence and risk fractures for surgical site infection following tibial plateau ORIF. *Bone Joint J* 2013;95-B 27
23. Hak DJ, Thornton R, Dauer LT, Quinn B, Miodownik D. Leaded eyeglasses substantially reduce radiation exposure of the surgeon's eyes during acquisition of typical fluoroscopic views of the hip and pelvis. *Bone Joint J* 2013;95-B 50

Scientific Oral Presentations - National & International Meetings

1. Kruger DM, Hak DJ, Goldstein SA, Viviano DM, Herzenberg JE. "Single vs. Double Pin Fixation for Acute Slipped Capital Femoral Epiphysis." Pediatric Orthopaedic Society of North America. Colorado Springs, CO. May 1988.
2. **Hak DJ**, Johnston-Jones K, Luetzow W, Kabo JM, Amstutz HC, Thomas BJ. "Effect of Proximal Fill on Rotational Stability in Cementless Total Hip Arthroplasty." The American Orthopaedic Association 25th Annual Residents' Conference. Ann Arbor, MI. March 14, 1992.
3. **Hak DJ**, Lieberman JR, Kilgus DJ, Finerman GAM. "Knee Arthrodesis with External Fixation Devices: Is the Fusion Rate Improving?" American Orthopaedic Association 26th Annual Residents' Conference. Seattle, WA. March 17, 1993.
4. **Hak DJ**, Johnson EE. "Use of the Unreamed Nail in Tibial Fractures with Associated Compartment Syndromes." Meyerding Resident Paper Award, American Fracture Association. St. Louis, MO. April 6, 1993.
5. **Hak DJ**, Sasson A, Seeger LL, Eckardt JJ. "Giant Cell Tumor of Bone: A Review of 55 Consecutive Cases." Smith-Nephew Richards Residents Conference. Memphis, TN. August 20, 1993.
6. **Hak DJ**, Lieberman JR, Finerman GAM. "Knee Arthrodesis with External Fixation Devices: Is the Fusion Rate Improving?" American Academy of Orthopaedic Surgeons 61st Annual Meeting. New Orleans, LA. March 1, 1994.
7. **Hak DJ**, Olson SA, Matta JM. "Diagnosis and Management of Closed Internal Degloving Injuries Associated with Pelvic and Acetabular Fractures: The Morel-Lavallée Lesion." Zimmer Trauma Fellows Conference. Chicago, IL. August 17, 1996.

8. **Hak DJ**, Olson SA, Hamel AJ, Bay BK, Sharkey NA. "Consequences of Transverse Acetabular Malreduction on Load Transmission Across the Hip Joint." Orthopaedic Trauma Association Annual Meeting. Boston, MA. September 27-29, 1996.
9. **Hak DJ**, Olson SA, Matta JM. 1996 "Management of the Morel-Lavallée Lesion." Orthopaedic Trauma Association Annual Meeting. Boston, MA. September 27-29, 1996.
10. **Hak DJ**, Olson SA, Matta JM. Management of the Morel-Lavallée Lesion." Surgery of the Pelvis and Acetabulum 3rd International Consensus Conference. Pittsburgh, PA. October 5-11, 1996.
11. **Hak DJ**, Olson SA, Hamel AJ, Bay BK, Sharkey NA. "Consequences of Transverse Acetabular Malreduction on Load Transmission Across the Hip Joint." Surgery of the Pelvis and Acetabulum 3rd International Consensus Conference. Pittsburgh, PA. October 5-11, 1996.
12. **Hak DJ**, Olson SA, Hamel AJ, Bay BK, Sharkey NA. "Consequences of Transverse Acetabular Malreduction on Load Transmission Across the Hip Joint." National Orthopaedic Fellows Foundation Meeting. Charlotte, NC. November 4, 1996.
13. **Hak DJ**, Olson SA, Matta JM. "Management of the Morel-Lavallée Lesion." American Academy of Orthopaedic Surgeons 64th Annual Meeting. San Francisco, CA. February 15, 1997.
14. Metz C, **Hak DJ**, Goulet JA. "Pelvic Fracture Patterns and Their Corresponding Angiographic Sources." Orthopaedic Trauma Association. Louisville, KY. October 17, 1997.
15. **Hak DJ**, Goulet JA. "Severity of Injuries Associated with Traumatic Hip Dislocations as a Result of Motor Vehicle Accidents." American Fracture Association Annual Meeting. Nashville, TN. May 10, 1998.
16. **Hak DJ**, Lee SS, Goulet JA. "The Success of Exchange Reamed Intramedullary Nailing for Femoral Shaft Nonunion or Delayed Union." Orthopaedic Trauma Association Annual Meeting. Vancouver, BC, Canada. October 9, 1998.
17. **Hak DJ**, Lee SS, Goulet JA. "The Success of Exchange Reamed Intramedullary Nailing for Femoral Shaft Nonunion or Delayed Union." Orthopaedic Trauma Association Specialty Day at the American Academy Of Orthopaedic Surgeons Annual Meeting. Anaheim, CA. February 7, 1999.
18. Neiman R, SJ Hazelwood, **Hak DJ**. "Strain Analysis of the Proximal Femur After Retrograde Femoral Nailing: A 3-Dimensional Finite Element Study." Podium presentation at the 25th Annual Meeting of the American Society of Biomechanics. University of California at San Diego, San Diego, CA. August 8-11, 2001.
19. **Hak DJ**, Kokubu T, Hazelwood SJ, Redi AH. "Development and Validation of a Reproducible Animal Nonunion Model." SIROT/SICOT XXII World Congress. San Diego, CA. August 24, 2002.
20. **Hak DJ**, Kokubu T, SJ Hazelwood, Redi AH. "Development of an Atrophic Nonunion Model and Comparison to a Closed Healing Fracture in the Rat Femur." Paper presentation at The 8th Meeting of the International Society for Fracture Repair. Toronto Marriott Eaton Centre, Toronto, ON, Canada. October 9-11, 2002.
21. Stewart R, **Hak DJ**, SJ Hazelwood. "The Effect of Low Molecular Weight Heparin on Fracture Healing in a Standardized Rat Femur Fracture Model." Paper presentation at The 8th Meeting of the International Society for Fracture Repair. Toronto Marriott Eaton Centre, Toronto, ON, Canada. October 9-11, 2002.
22. Stewart R, **Hak DJ**, SJ Hazelwood. "The Effect of Low Molecular Weight Heparin on Fracture Healing in a Standardized Rat Femur Fracture Model." Presentation (Paper #013) at The 70th Annual Meeting of the American Academy of Orthopaedic Surgeons. New Orleans, LA. February 5-9, 2003.
23. Stewart R, **Hak DJ**, Hazelwood SJ. "The Effect of Low Molecular Weight Heparin on Fracture Healing in a Standardized Rat Femur Fracture Model." Presentation (Paper #315) at The 49th Annual Meeting of the Orthopaedic Research Society. Hyatt Regency, New Orleans, LA. February 2-5, 2003.
24. **Hak DJ**, Kokubu T, Hazelwood SJ, Reddi AH. "Development of an Atrophic Nonunion Animal Model." Presentation (Paper #0311) at The 49th Annual Meeting of the Orthopaedic Research Society. Hyatt Regency, New Orleans, LA. February 5, 2003.
25. Stewart RL, **Hak DJ**, Hazelwood SJ. "The Effect of Low Molecular Weight Heparin on Fracture Healing in a Standardized Rat Femur Fracture Model." Orthopaedic Trauma Association Basic Science Focus Forum at the OTA Annual Meeting. The Grand America Hotel, Salt Lake City, UT. October 9, 2003.
26. **Hak DJ**, Hazelwood SJ, Cordero G. "Comparison of the AO Locking Plate to Standard LC-DCP Plate for Fixation of Osteoporotic Humeral Shaft Fractures." Orthopaedic Trauma Association Basic Science

- Focus Forum at the OTA Annual Meeting. The Grand America Hotel, Salt Lake City, UT. October 9, 2003.
27. **Hak DJ**, Makino T, Hazelwood SJ, Reddi AH. "Rescue of an Atrophic Nonunion by Bone Morphogenetic Protein." The 9th Conference of the International Society for Fracture Repair. University of Bologna, Rizzoli Orthopaedic Institute, Bologna, Italy. November 2-6, 2004.
 28. **Hak DJ**, Kokubu T, Hazelwood SJ, Reddi AH. "Development of an Atrophic Nonunion Animal Model" (Presentation – Paper #: 0311). 49th Annual Meeting of the Orthopaedic Research Society. New Orleans, LA. February 5, 2003.
 29. **Hak DJ**, Schulz K, Khoie B, Hazelwood S. The Effect of cyclooxygenase-2 (cox-2) inhibitor on primary (direct) bone healing. The 11th Conference of the International Society for Fracture Repair. Stateline (South Lake Tahoe), Nevada, July 13 – 16, 2008.
 30. Suzuki T, **Hak DJ**, Smith WR, Stahel PF, Baron AJ, Morgan SJ. Technical Problems and Complications in the Removal of the Less Invasive Stabilization System. Orthopaedic Trauma Association Annual Meeting, San Diego, California, October 10, 2009.
 31. **Hak DJ**, Morgan S, Stahel P, Smith W. Technical Problems and Complications in the Removal of the Less Invasive Stabilization System. AO 2010 Challenges in Fracture Care across Disciplines. Phoenix, Arizona. November 13, 2010.
 32. **Hak DJ**, Suzuki T, Stahel P, Morgan S. Postoperative surgical site infection following acetabular fracture surgery. AO 2010 Challenges in Fracture Care across Disciplines. Phoenix, Arizona. November 13, 2010.
 33. **Hak DJ**, Tokar S, Morgan S. Fixing the almost healed ankle fracture – is the surgery, reduction, and complication different from acute open reduction and internal fixation. AO 2010 Challenges in Fracture Care across Disciplines. Phoenix, Arizona. November 13, 2010.
 34. Bartlett GE, Fern ED, Dumais J, Norton MR, **Hak DJ**. Hip impingement - it's not just about OA, abnormal morphology increases acetabular fracture risk. British Hip Society, Torquay, England, March 2 – 4, 2011.
 35. Saveli CC, Morgan SJ, Belknap RW, Ross E, Stahel PF, Chaus GW, **Hak DJ**, Biffi WL, Knepper B, Price CS. The role of antibiotics in open fractures revisited. Characteristics of Staphylococcus aureus and susceptibility profile. Surgical Infection Society Annual Meeting. May 14, 2011. Palm Beach, FL.
 36. Saveli CC, Morgan SJ, Belknap RW, Ross E, Stahel PF, **Hak DJ**, Biffi WL, Chaus GW, Price CS. The role of antibiotics in open fractures revisited. Characteristics of Staphylococcus aureus and susceptibility profile. Orthopaedic Trauma Association Annual Meeting, San Antonio, Texas, October 14, 2011.
 37. **Hak DJ**, Lin S, Hammerberg EM, Stahel PF. The success of single debridement and primary closure of postoperative infections following open reduction and internal fixation. 13th Biennial Conference of International Society for Fracture Repair. Kyoto, Japan. November 7, 2012.
 38. **Hak DJ**, Lin S, Mauffrey C, Hammerberg EM, Stahel PF. Incidence and risk factors for surgical site infection following tibial plateau fracture ORIF. 13th Biennial Conference of International Society for Fracture Repair. Kyoto, Japan. November 8, 2012.
 39. **Hak DJ**, Burns S, Thornton R, Dauer LT, Quinn B, Miodownik D. Leaded eyeglasses substantially reduce radiation exposure of the surgeon's eyes during acquisition of typical fluoroscopic views of the hip and pelvis. 13th Biennial Conference of International Society for Fracture Repair. Kyoto, Japan. November 7, 2012.
 40. Hao JD, Messina M, Gissel H, Henderson C, Gibula D, **Hak DJ**, Mauffrey C. The OTA classification open fracture classification is able to predict limb amputation. World Orthopaedic Association, Beijing China, November 9, 2013.
 41. **Hak DJ**, Mauffrey C, Oliver T. Seeing is believing: Treatment of Proximal Humerus Fractures Using a Novel Radiolucent Impant and its effect on Reduction Accuracy, Healing Rate, and Functional Outcome. 14th Biennial Conference of the International Society for Fracture Repair. New York City New York, May 16, 2014.
 42. **Hak DJ**, Mauffrey C, Oliver T. Seeing is believing: Treatment of Proximal Humerus Fractures Using a Novel Radiolucent Impant and its effect on Reduction Accuracy, Healing Rate, and Functional Outcome. European Federation of National Associations of Orthopaedics and Traumatology. 15th EFORT Congress, London, United Kingdom, June 5, 2014.

43. **Hak DJ.** “The Importance of Fibular Clamp Position of Syndesmotic Reduction.” European Federation of National Associations of Orthopaedics and Traumatology. 15th EFORT Congress, London, United Kingdom, June 6, 2014. (EFORT Trauma Award Paper)
44. **Hak DJ,** Mauffrey CM. “Fracture Blisters Fluid: Is it Sterile or Infected? 15th Biennial Conference International Society for Fracture Repair, Munich, Germany. June 9, 2016
45. **Hak DJ.** “Is locking screw fixation in carbon fiber composite plates mechanically equivalent to stainless steel plates?” 15th Biennial Conference International Society for Fracture Repair, Munich, Germany. June 9, 2016.

Scientific Oral Presentations - Regional and Local Meetings

1. **Hak DJ,** Goldstein S, Ku J, Kaynor D, Matthews LS. "Histological Investigation of Trabecular Bone Ingrowth Into the Porous Coated Surface of an Experimentally Controlled Titanium Implant." Landacre Day Scientific Session. Columbus, OH. April 10, 1986.
2. **Hak DJ,** Lieberman JR, Kilgus DJ, Finerman GAM. "Knee Arthrodesis with External Fixation Devices: Is the Fusion Rate Improving?" Western Orthopaedic Association, Los Angeles Chapter Out-of-Town Meeting. Rancho Santa Fe, CA. May 22, 1993.
3. **Hak DJ,** Sasson A, Seeger LL, Eckardt JJ. "Giant Cell Tumor of Bone: A Review of 55 Consecutive Cases." Resident Paper Award, presented at the Western Orthopaedic Association Annual Meeting. Seattle, WA. September 1, 1993.
4. **Hak DJ,** Sasson A, Seeger LL, Eckardt JJ. "Giant Cell Tumor of Bone: A Review of 55 Consecutive Cases." Western Orthopaedic Association, Los Angeles Chapter Out-of-Town Meeting. Rancho Santa Fe, CA. April 23, 1994.
5. **Hak DJ,** Watts HG. "Treatment of Severe Pediatric Clubfoot Deformities Using the Ilizarov Device." Vernon P. Thompson Resident Paper Award, presented at the Western Orthopaedic Association Annual Meeting. Long Beach, CA. August 16, 1994.
6. **Hak DJ,** Olson SA, Hamel AJ, Bay BK, Sharkey NA. “Consequences of Transverse Acetabular Malreduction on Load Transmission Across the Hip Joint.” Western Orthopaedic Association 60th Annual Meeting. Kauai, HI. August 5, 1996.
7. **Hak DJ,** Boardman DL, Zohman GL, Wiley BV, Johnson EE, Kabo JM. “A Comparison of Posterior Cortical Strain During Insertion of Reamed and Unreamed Intramedullary Tibial Nails.” Western Orthopaedic Association 60th Annual Meeting. Kauai, HI. August 5, 1996.
8. Metz C, **Hak DJ,** Goulet JA. “Pelvic Fracture Patterns and Their Corresponding Angiographic Sources.” Michigan Orthopaedic Society. Boyne Highlands, MI. June 20, 1997.
9. **Hak DJ,** Goulet JA. “Severity of Injuries Associated with Traumatic Hip Dislocations as a Result of Motor Vehicle Accidents.” Mid-America Orthopaedic Association Annual Meeting. Acapulco, Mexico. April 23, 1998.
10. **Hak DJ,** Lee SS, Goulet JA. “The Success of Exchange Reamed Intramedullary Nailing for Femoral Shaft Nonunion or Delayed Union.” Michigan Orthopaedic Society. Mackinac Island, MI. June 12, 1998.
11. **Hak DJ,** Lee SS, Goulet JA. “The Success of Exchange Reamed Intramedullary Nailing for Femoral Shaft Nonunion or Delayed Union.” Mid-America Orthopaedic Association Annual Meeting. Southampton, Bermuda. April 15, 1999.
12. Golladay G, **Hak DJ,** Goulet JA. “Deep Venous Thrombosis Prophylaxis in Acetabular Fracture Surgery.” Mid-America Orthopaedic Association Annual Meeting. Southampton, Bermuda. April 15, 1999.
13. **Hak DJ,** Wiater PJ, Williams RM, Pierson C. “The Effectiveness of Standard Povidone Iodine Surgical Preparation to Sterilize External Fixation Components.” Western Orthopaedic Association 64th Annual Meeting. Scottsdale, AZ. October 21-25, 2000.
14. Belton M, **Hak D,** Alfonso N, Baldini T, Stewart J. “Diagnosis of Traumatic Shoulder Arthroscopies using the Saline Load Test. Western Orthopaedic Association Annual Meeting, Snowmass, CO. August 2018.

Poster Presentations

1. **Hak DJ**, Beltran J, Bennett W, Haas SD, Mueller C. "MRI vs. CT of Musculoskeletal Neoplasms." Midwest Student Medical Research Forum. Louisville, KY. February 21, 1987.
2. Kruger DM, **Hak DJ**, Viviano DM, Goldstein SA, Herzenberg JE. "Biomechanical Comparison of Single and Double Steinmann Pin Fixation for Acute Slipped Capital Femoral Epiphysis." Orthopedic Research Society 34th Annual Meeting. Atlanta, GA. February 3, 1988.
3. **Hak DJ**, Johnson EE. "Compartment Syndromes in Tibial Fractures: Use of the Unreamed Tibial Nail." American Academy of Orthopaedic Surgeons, 60th Annual Meeting. San Francisco, CA. February 1993.
4. **Hak DJ**, Watts HG. "Treatment of Severe Pediatric Clubfoot Deformities Using the Ilizarov Device: A Preliminary Report." American Society for the Advancement of Ilizarov Annual Meeting. New Orleans, LA. February 23, 1994.
5. Freedman E, **Hak DJ**, Johnson EE, Eckardt JJ. "Distal Femoral Replacement: Treatment Solution for Difficult Osteoporotic Fractures and Non-Unions." American Academy of Orthopaedic Surgeons, 61st Annual Meeting. New Orleans, LA. February 24, 1994.
6. Thomas BJ, **Hak DJ**, Kabo JM, Amstutz HC. "Importance of Proximal Fill for Rotational Stability in Cementless Hip Arthroplasty." American Academy of Orthopaedic Surgeons, 61st Annual Meeting. New Orleans, LA. February 28, 1994.
7. **Hak DJ**, Lieberman JR, Finerman GAM. "A Comparison of Single Plane and Bi-plane External Fixators for Knee Arthrodesis." Orthopaedic Trauma Association. Los Angeles, CA. September 22-24, 1994.
8. **Hak DJ**, Johnson EE. "Compartment Syndromes in Tibial Fractures: Use of the Unreamed Tibial Nail." Orthopaedic Trauma Association. Los Angeles, CA. September 22-24, 1994.
9. **Hak DJ**, Sasson A, Seeger LL, Eckardt JJ. "Giant Cell Tumor of Bone: The Persistent Problem of Local Recurrence." American Academy of Orthopaedic Surgeons, 62nd Annual Meeting. Orlando, FL. February 16, 1995.
10. **Hak DJ**, Watts HG. "Treatment of Severe Pediatric Clubfoot Deformities Using the Ilizarov Device." American Academy of Orthopaedic Surgeons, 62nd Annual Meeting. Orlando, FL. February 17, 1995.
11. **Hak DJ**, Boardman DL, Zohman GL, Wiley BV, Johnson EE, Kabo JM. "A Comparison of Posterior Cortical Strain During Insertion of Reamed and Unreamed Intramedullary Tibial Nails." Orthopaedic Trauma Association Annual Meeting. Boston, MA. September 27-29, 1996.
12. DeSilva GL, Jebson PJJ, Kuzon WM, Goulet JA, **Hak DJ**. "The Box Frame Fixator: A Technique for Simultaneous Fracture and Free Tissue Transfer Management." Michigan Orthopaedic Society. Harbor Springs, MI. June 20, 1997.
13. Metz C, **Hak DJ**, Goulet JA. "Pelvic Fracture Patterns and Their Corresponding Angiographic Sources." American Academy of Orthopaedic Surgeons. New Orleans, LA. March 19-23, 1998.
14. **Hak DJ**, Lee SS, Goulet JA. "The Success of Exchange Reamed Intramedullary Nailing for Femoral Shaft Nonunion or Delayed Union." American Academy of Orthopaedic Surgeons. Anaheim, CA. February 5, 1999.
15. **Hak DJ**, Wiater PJ, Williams RM, Pierson C. "The Efficacy of Standard Povidone Iodine Preparation to Sterilize Standard External Fixators." Orthopaedic Trauma Association Annual Meeting. Charlotte, NC. October 22, 1999.
16. **Hak DJ**, Wiater PJ, Williams RM, Pierson C. "The Efficacy of Standard Povidone Iodine Preparation to Sterilize Standard External Fixators." Academy of Orthopaedic Surgeons. Orlando, FL. March 15-18, 2000.
17. **Hak DJ**. "The Role of Low-Molecular Weight Heparins in Orthopaedic Surgery." Guest Speaker, Pharmacia sponsored dinner lecture. Le Bistro Restaurant, Stockton, CA. September 5, 2001.
18. Hazelwood SJ, **Hak DJ**, Page P, Neiman R. "Strain Analysis of the Proximal Femur After Retrograde Femoral Nailing: A Biomechanical and 3-Dimensional Finite Element Study." Orthopaedic Research Society Annual Meeting. Dallas, TX. February 10-12, 2002.
19. Neiman R, Hazelwood SJ, **Hak DJ**. "Proximal Femoral Strain Distribution After Retrograde Femoral Nailing: A Finite Element and Biomechanical Study." American Academy of Orthopaedic Surgeons Annual Meeting. Dallas, TX. February 13-17, 2002.

20. **Hak DJ**, Kokubu T, Hazelwood SJ, Reddi AH. "Development of an Atrophic Nonunion Model, and Comparison to a Closed Healing Fracture in the Rat Femur." The 4th International Conference on Bone Morphogenetic Proteins. Sacramento, CA. October 17-21, 2002.
21. Kokubu T, **Hak DJ**, Haudenschild DR, Moseley TA, Rose L, Reddi AH. "Localization of IL-17 Family Members and Cognate Receptors in Chondrocytes During Rat Bone Formation" (Poster #526). 49th Annual Meeting of the Orthopaedic Research Society. Hyatt Regency, New Orleans, LA. February 2-5, 2003.
22. **Hak DJ**, Hazelwood SJ, Cordero G. "Comparison of the AO Locking Plate to Standard LC-DCP Plate for Fixation of Osteoporotic Humeral Shaft Fractures." Orthopaedic Trauma Association Annual Meeting. The Grand America Hotel, Salt Lake City, UT. October 9-11, 2003.
23. Stewart RL, **Hak DJ**, Hazelwood SJ. "The Effect of Low Molecular Weight Heparin on Fracture Healing in a Standardized Rat Femur Fracture Model." *Best Poster Award*. Orthopaedic Trauma Association Annual Meeting, Salt Lake City, UT. October 9-11, 2003.
24. **Hak DJ**, Nguyen J, Hazelwood SJ, Curtiss SB. "Biomechanical Evaluation of Internal Fixation Constructs for Coronal Fractures of the Posterior Femoral Condyle" (Poster #430). 50th Annual Meeting of the Orthopaedic Research Society. The Moscone West Convention Center, San Francisco, CA. March 7-10, 2004.
25. Cordero GX, **Hak DJ**, Yeh OC, Curtiss SB, Hazelwood SJ. "Biomechanical Comparison of Standard and Locked Compression Plate Fixation in Osteoporotic Humeral Shaft Fractures" (Poster #445). 50th Annual Meeting of the Orthopaedic Research Society. The Moscone West Convention Center, San Francisco, CA. March 7-10, 2004.
26. Stewart RL, **Hak DJ**, Hazelwood SJ. "The Effect of Low Molecular Weight Heparin on Fracture Healing in a Standardized Rat Femur Fracture Model" (Poster #P491). *Best Poster Presentation*. American Academy of Orthopaedic Surgeons Annual Meeting. The Moscone West Convention Center, San Francisco, CA. March 7-10, 2004.
27. Makino T, **Hak DJ**, Hazelwood SJ, Reddi AH. "Prevention of Atrophic Nonunion Development by Bone Morphogenetic Protein (BMP)" (Poster #: 0784). 51st Annual Meeting of the Orthopaedic Research Society. Washington, DC. January 19-27, 2005.
28. **Hak DJ**, Schulz KS, Khoie B, Curtiss S, Hazelwood SJ. "The Effect of Cyclo-oxygenase-2 Inhibitor on Primary (Direct) Bone Healing" (Poster #1670). 52nd Annual Meeting of the Orthopaedic Research Society. Chicago, IL. March 19-22, 2006
29. Niikura T, **Hak DJ**, Reddi AH. "Global Gene Profiling in Experimental Fracture Nonunions Reveals a Down Regulation of BMP Gene Expression" (Poster #1673). 52nd Annual Meeting of the Orthopaedic Research Society. Chicago, IL. March 19-22, 2006.
30. Niikura T, **Hak DJ**, Hazelwood SJ, Reddi AH. "The Effect of Recombinant Human Vascular Endothelial Growth Factor on Preventing Atrophic Nonunion Formation" (Poster # 1680). 52nd Annual Meeting of the Orthopaedic Research Society. Chicago, IL. March 19-22, 2006.
31. Niikura T, **Hak DJ**, Makino T, Hazelwood SJ, Reddi AH. "The Influence of Age on the Effectiveness of Recombinant Human Bone Morphogenetic Protein-7 in Preventing Atrophic Nonunion Formation" (Poster # 1683). 52nd Annual Meeting of the Orthopaedic Research Society. Chicago, IL. March 19-22, 2006.
32. **Hak DJ**, Valine B. "Whose Nail is it Anyway?" (Poster Presentation #487). American Academy of Orthopaedic Surgeons Annual Meeting. Chicago, IL. March 22-26, 2006.
33. Grimsrud C, Gotham D, Lee M, Wolinsky P, **Hak DJ**. "Treatment of fasciotomy wounds in patients with tibial plateau fractures." 22nd Annual Meeting, Orthopaedic Trauma Association. Phoenix Arizona. October 5-7, 2006.
34. Suzuki T, **Hak DJ**, Ziran BH, Adams SA, Stahel PF, Morgan SJ, Smith WR. Vertically Unstable Sacral Fractures Treated by Posterior Tension Band Plating. The 11th Conference of the International Society for Fracture Repair. Stateline (South Lake Tahoe), Nevada, July 13 – 16, 2008.
35. **Hak D**, Stahel P, Samuelson E. To Err is Human - Reporting of Iatrogenic Orthopaedic Complications in the Literature. The 11th Conference of the International Society for Fracture Repair. Stateline (South Lake Tahoe), Nevada, July 13 – 16, 2008.
36. Stahel PF, **Hak DJ**, Samuelson E, Schaeffer J, Johnson JL, Moore EE, Smith WR. Outcomes and complications of damage control external fixation of femur shaft fractures in 106 consecutive patients. The 11th Conference of the International Society for Fracture Repair. Stateline (South Lake Tahoe), Nevada, July 13 – 16, 2008.

37. Suzuki T, Smith WR, Stahel PF, **Hak DJ**, Morgan SJ. Combined Injuries of Pelvis and Acetabulum: Nature of a Devastating Diad. Orthopaedic Trauma Association Annual Meeting, October 16 – 18, 2008. Denver, Colorado.
38. Smith W, Baron A, Stahel P, **Hak D**, Morgan S. A standardized resident research program increases productivity and satisfaction. American Orthopaedic Association Annual Meeting, June 10 – 13, 2009, Bonita Springs, Florida
39. **Hak DJ**, Price C, Baran S. Diagnosing joint infection: Synovial fluid differential is more sensitive than white cell count. American Academy of Orthopaedic Surgeons Annual Meeting. March 10 – 13, 2010, New Orleans, LA.
40. **Hak DJ**, Morgan S, Toker S. Fixing the almost healed ankle fracture – is the surgery and complication different from acute open reduction and internal fixation? International Society for Fracture Repair 12th Biennial Conference, September 25 - 28, 2010, London, England.
41. **Hak DJ**, Morgan S, Stahel P, Suzuki T. Postoperative surgical site infection (SSI) following acetabular fixation. International Society for Fracture Repair 12th Biennial Conference, September 25 - 28, 2010, London, England.
42. **Hak DJ**, Morgan S, Toker S. Fixing the almost healed ankle fracture – is the surgery and complication different from acute open reduction and internal fixation? Orthopaedic Trauma Association Annual Meeting, Baltimore Maryland, October 14 - 16, 2010.
43. Suzuki T, Morgan SJ, Smith WR, Stahel PF, Rudloff MI, Flierl MA, **Hak DJ**. Stress Radiograph to Detect True Extent of Symphyseal Disruption in Presumed Anteroposterior Compression Type I Pelvic Injuries. Orthopaedic Trauma Association Annual Meeting, Baltimore Maryland, October 14 - 16, 2010.
44. **Hak DJ**, Fern ED, Norton MR, Dumais J, Bartlett GE. Hip impingement - it's not just about OA, abnormal morphology increases acetabular fracture risk. American Academy of Orthopaedic Surgeons Annual Meeting, February 15 – 19, 2011, San Diego, CA.
45. **Hak DJ**, Judkins T. The impact of clamp position on accuracy of syndesmotic reduction. Orthopaedic Trauma Association Annual Meeting, San Antonio, Texas, October 13 – 15, 2011.
46. **Hak DJ**, Burns S, Thornton R, Dauer LT, Quinn B, Miodownik D. Leaded eyeglasses substantially reduce radiation exposure of the surgeon's eyes during acquisition of typical fluoroscopic views of the hip and pelvis. 13th Biennial Conference of International Society for Fracture Repair. Kyoto, Japan. November 7- 9, 2012.
47. **Hak DJ**, Burns S. Leaded eyeglasses substantially reduce radiation exposure of the surgeon's eyes during acquisition of typical fluoroscopic views of the hip and pelvis. American Orthopaedic Association Annual Meeting. June 12 – 15, 2013. Denver, Colorado.
48. Hao JD, Messina M, Gissel H, Henderson C, Gibula D, **Hak DJ**, Mauffrey C. Does the new OTA classification for open fractures predict the risk of lower limb amputation? Orthopaedic Trauma Association Annual Meeting, October 9 – 12, 2013, Phoenix, Arizona.
49. Hao JD, McKean J, Cuellar D, Herbert B, Gissel H, Henderson C, Gibula D, **Hak DJ**, Mauffrey C. Does the new OTA classification for open fractures predict the risk of lower limb amputation? American Academy of Orthopaedic Surgeons Annual Meeting, March 12 – 14, 2014, New Orleans, Louisiana.
50. Hoang-Kim A, **Hak DJ**, Johnstone A, Schemitsch E, Beaton D, MacDermitt J, Goldhahn J. Life after proximal humerus fracture: Setting priorities in health research using a modified Delphi consensus approach. World Congress on Osteoporosis, Osteoarthritis and Musculoskeletal Diseases March 26 - 29, 2015, Milan Italy.
51. York PJ, Logterman SL, **Hak DJ**, Mauffrey C. Orthopaedic Trauma Surgeons and Direct Anterior THA: Evaluation of Learning Curve at a Level I Academic Institution. ORS 2016 Annual Meeting Orlando, Florida, March 5-8.
52. Fader R, Baldini T, Vivek Chadayammuri V, **Hak D**. A Comparative Analysis of the Mechanical Stability of Carbon-Fiber versus Stainless Steel Proximal Humerus Locking Compression Plates. ORS 2016 Annual Meeting Orlando, Florida, March 5-8.
53. **Hak DJ**, Mihelic J, Story C, AONA Education Advisory Board. What Price Continuing Medical Education Outcome Follow-up? AMEE 2016, International Association for Medical Education, Barcelona, Spain. August 27 – 31, 2016.

54. **Hak DJ** and AONA Education Advisory Board. “What do you want to tell us? An analysis of participant continuing medical education evaluations.” AMEE 2017, International Association for Medical Education, Helsinki, Finland. August 27 – 30, 2017.
55. Hoang-Kim A, **Hak DJ**, Johnstone A, Schemitsch E, Beaton D, MacDermitt J, Goldhahn J. Life after proximal humerus fracture: A call to arms using a modified Delphi consensus approach. Annual Meeting of the Orthopedic Research Society, New Orleans, Louisiana, March 10 – 13, 2018.
56. **Hak DJ**, Subramaniam C, and AONA Education Advisory Board. “One step backwards, but one giant step forward: The challenges of introducing backwards planning in CME design. AMEE 2018, International Association for Medical Education, Basel, Switzerland. August 25 - 29, 2018.
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