

**James W. Hardacker, M.D.**

*Orthopaedic Spine Surgeon*

*AAOS Board Certified*

*10 year Board Renewals: 1995, 2005, 2015*

*Director, St. Vincent Carmel Spine Center*

*President, Comfort Imaging Upright MRI Corporation*

**OFFICE**

The Spine Institute  
13431 Old Meridian St. Suite 200  
Carmel, IN 46032  
(317) 573-7733 Fax (317) 573-7739

**HOSPITAL  
AFFILIATIONS**

St. Vincent Hospitals Carmel/Indianapolis/Fishers, IN  
Riverview Hospital Noblesville, IN  
Indiana University Hospitals Carmel/Indianapolis/Fishers, IN

**EDUCATION**

*University of Kansas Kansas City, KS*  
Rae Jacobs Spine Fellowship with Marc Asher, M.D. and Roger Jackson, M.D.  
August, 1992-July, 1993

*SUNY at Buffalo School of Medicine & Biomedical Sciences Buffalo, NY*  
Residency: Orthopaedic Surgery July, 1988-June, 1992  
Internship: General Surgery July, 1987- June, 1988 Millard Fillmore Hospital

*SUNY at Buffalo School of Medicine & Biomedical Sciences Buffalo, NY*  
M.D. Degree May, 1987  
Academic Honors: Gibson Anatomical Honor Society

*University of Colorado Boulder, CO*  
Bachelor of Arts with Distinction May, 1983 First in Class  
Major: Chemistry/Biochemistry  
Honors: Phi Beta Kappa Honor Society, Dean's List 1979-1983, National Dean's List, Phi Lambda Epsilon Chemical Honor Society

*Lake Shore High School Angola, NY*  
All Western New York Bass Player  
All League Football Player and Team Captain  
Class Valedictorian June, 1979

**CERTIFICATION  
& LICENSURE**

National Board of Medical Examiners 1988  
Board Certified American Academy of Orthopaedic Surgery 1995  
Indiana State License 1993  
Missouri State License 1992  
New York State License 1988

Recertification in Orthopaedic Surgery 1995, 2005, 2015

**RESEARCH  
EXPERIENCE**

Department of Molecular Biology SUNY at Buffalo

Research fellowship with Morton Rothstein, Ph.D. involving the development of a method for lysosomal extraction from Nematodes for enzyme kinetic studies of aging. Summer, 1980.

Department of Chemistry University of Colorado

Honors organic chemistry research with David Walba, Ph.D.  
Research included crown ring ether synthesis. Spring, 1981.

Department of Chemistry University of Colorado

Independent study with Thomas and Carol Cech, Ph.D. Project dealt with the kinetics of RNP-2 in *Escherichia coli*, including promoter studies. 1982.  
Dr. Cech won the 1989 Nobel Prize for this work with self polymerization of RNP.

Employed by the University of Colorado School of Medicine Burn Trauma Skin Bank. Summer, 1983. Responsibilities entailed harvest and care of cadaver skin for burn grafts.

Department of Surgery University of Colorado School of Medicine

Research fellowship with John Hansbrough, M.D. Studied suppressor T cell inhibition following burn injury. Presented at the American Burn Association Meeting in New Orleans, LA March, 1983. Final study published in *Surgery* 95 (3) 290-6. March, 1984.

Department of Molecular Biology SUNY at Buffalo

Research fellowship with Morton Rothstein, Ph.D. involving the development of a method for lysosomal extraction from Nematodes for enzyme kinetic galactosidase. Summer, 1983.

Department of Physiology SUNY at Buffalo

Research fellow with David Pendergast studying alcohol effects on muscle tissues in a rat model. Final study published in *Alcohol* Vol 4 pp 485-91. Summer, 1987.

Department of Orthopaedic Surgery University of Kansas

Spine fellowship 1992-1993. Clinical and animal research including lumbar fusion studies in a canine model assessing effects of implant stiffness on lumbar fusion stiffness and adjacent and periadjacent disc biomechanics.

Indiana Site Investigator

FDA sponsored multicenter national study of Bone Morphogenic Protein Efficacy in Posterolateral Lumbar Fusions 2002-2007

## **INSTRUCTOR**

G.I.C.D. Intrasacral Spinal Fixation Workshop/Course  
Kansas City, MO October, 1992

G.I.C.D. Intrasacral Spinal Fixation Workshop/Course  
Kansas City, MO November, 1992

G.I.C.D. Intrasacral Spinal Fixation Workshop/Course  
Kansas City, MO January, 1993

ISOLA Instrumentation Techniques Course  
Kansas City, MO February, 1993

Scoliosis Research Society Tutorial for ISOLA Instrumentation Techniques  
Kansas City, KS March, 1993

ISOLA Instrumentation Techniques Course  
Kansas City, MO May, 1993

G.I.C.D. Intrasacral Spinal Fixation Workshop/Course  
Kansas City, MO June, 1993  
BMP-2 Outcomes Research  
Seattle, WA 2007

## **PUBLICATIONS**

Edmonds Brian, Pendergast David, Arabajis Peter, Hardacker James  
Muscle Fiber Composition and Length Tension in a Rat Chronically Exposed to  
Alcohol. *Alcohol* Vol 4 pp 485-91, 1987.

Hardacker James, Mindell Eugene  
Synovial Chondromatosis with Secondary Hip Subluxation. *Journal of Bone  
and Joint Surgery* 73A No9 pp 1405-7 October, 1991.

Hardacker James, Shuford R F, Capicotto P N, Pryor Philip  
Standing Total and Segmental Cervical Alignment in Symptomatic Volunteers.  
Published in *Spine* Vol. 22 #13 July 1, 1997 pp1472-80.

Yazici Muharrem, Asher Marc, Hardacker James  
The Safety and Efficacy of ISOLA-Galveston Instrumentation and Arthrodesis  
in the Treatment of Neuromuscular Spinal Deformities. *Journal of Bone and  
Joint Surgery* 82-A No 4 pp 524-544 April 2000.

Glassman Steven, Dimar John, Burkus Kenneth, Hardacker James, Pryor Philip,  
Boden Scott and Carreon Leah  
The Efficacy of rhBMP-2 for Posterolateral Lumbar Fusions in Smokers  
*Spine Journal* Vol 32 No 15 pp 1693-98 2007.

Asher Marc, Carson William, Hardacker James, Lark Richard, Lai Sue  
The Effect of Arthrodesis, Implant Stiffness, and Time on Canine Lumbar Spine

*J Spinal Disord Tech* Vol 20, No 8 pp549-559 Dec 2007.

Dimar John, Glassman Steven, Burkus J Kenneth, Pryor Philip, Hardacker James, Carreon Leah

Clinical and Radiographic analysis of an Optimized rhBMP-2 Formulation as an Autograft Replacement in Posterolateral Lumbar Spine Arthrodesis  
*The Journal of Bone & Joint Surgery* Vol 91-A Number 6, June 2009, pp 1377-86.

## PRESENTATIONS

Hansbrough John, Peterson B, Hardacker James

Suppressor T Cell Inhibition Following Burn Injury. Presented at the American Burn Association Meeting. New Orleans. March, 1983.

Hardacker James, Kristinicz Thomas, Mindell Eugene

Primary Malignant Bone Tumors. Presented at the Hungarian Medical Society, Sarasota, FL. November, 1989.

Hardacker James, Jackson Roger

Traditional Posterolateral Lumbar Fusion Course Manual Lumbar Spine Fusion Course AAOS Los Angeles, CA. September, 1992.

Hardacker James, Jackson Roger

Segmental Lumbar Lordosis Change in Uninstrumented and Instrumented Solid Lumbar Fusions. Presented at G.I.C.D. Intrasacral Course Kansas City, MO. November, 1992.

Hardacker James, Bone Lawrence

Immediate Fixation of the Traumatized Burn Patient. Poster presentation at the AAOS Annual Meeting San Francisco, CA 1993. Orthopaedic Transactions, *Journal of Bone and Joint Surgery*, 1993.

Hardacker James, Jackson Roger

Segmental Loss of Lumbar Lordosis in Uninstrumented and Instrumented Solid Lumbar Fusions. Paper presented at the G.I.C.D. Meeting. Miami, FL February, 1993.

Jackson Roger, Hardacker James

G.I.C.D. Video Presentation of Intrasacral Rod Fixation Technique. February, 1993.

Asher Marc, Orrick Janice, Hardacker James

Improved Technique for Correction of Pelvic Obliquity in the Cerebral Palsy Population. Poster Presentation at the Pediatric Orthopaedic Society Meeting. Greenbrier, WV May 1993.

Hardacker James, Jackson Roger

Loss of Segmental Lumbar Lordosis in Solid Lumbosacral Fusions. Paper Presentation.

- Hardacker James, Jackson Roger  
Segmental Lumbar Lordosis Change in Uninstrumented and Instrumented Solid Lumbar Fusions. Poster at the International Society for Study of the Lumbar Spine Meeting. Marseilles, France. June, 1993.
- Hardacker James, Asher Marc  
New Method for Correction of Severe Spinal Deformity in a Cerebral Palsy Population. Poster at the Scoliosis Research Society. Dublin, Ireland 1993.  
Poster at the North American Spine Society. San Diego, CA. 1993.
- Hardacker James, Jackson Roger  
Loss of Segmental Lumbar Lordosis in Solid Lumbosacral Fusions. Poster exhibit at the North American Spine Society. Hawaii. 1994.
- Hardacker James  
Operative Care of Spinal Deformity. St. Vincent's Hospital. July, 1994.
- Hardacker James  
Adult Scoliosis Care. St. Francis Hospital Resident Lecture. November, 1994.
- Hardacker James  
Scoliosis Screening and Education. St. Francis Hospital Health Fair. May, 1995.
- Hardacker James  
Etiology and Care in Adolescent Scoliosis Patient. Woodfield Community Meeting. Indianapolis, IN. May, 1995.
- Hardacker James  
Low Back Pain and Sciatica. Lecture for the Butler University Physicians Assistant Course. Methodist Hospital Indianapolis, IN. May, 1995.
- Hardacker James  
Sagittal Plane Decisions in the Cervical, Thoracic and Lumbar Spine. Orthopaedic Surgery Grand Rounds at Indiana University. May, 1995.
- Nelson Lynn, Hardacker James, Ebelke David, Jackson Roger  
Loss of Segmental Lordosis in Uninstrumented Solid Posterior Lumbosacral Fusions. Paper at the 1995 Scoliosis Research Society, the 1995 North American Spine Society and the 1996 American Academy of Orthopaedic Surgeons Annual Meeting.
- Yazici M, Asher Marc, Hardacker James  
Efficacy and Safety of ISOLA-Galveston Instrumentation and Fusion in the Treatment of Neuromuscular Spinal Deformity. Paper at the Scoliosis Research Society Meeting. Asheville, NC. September, 1995.
- Asher Marc, Carson WL, Hardacker James, Richards K, Lark RG

The Effects of Implant Size and Time on Facet Plus Posterior Fusion, Underlying Anterior Column and Adjacent Disc Stiffness of the Canine Lumbar Spine.

Paper at the 1995 North American Spine Society Meeting.

Paper at the ASTM Meeting, Orlando, FL, June, 1996.

Paper at the Harvard Orthopaedic Alumni Meeting. June, 1996.

Hardacker James, Shuford Robert, Capicotto Peter, Pryor Phillip  
Standing Total and Segmental Cervical Alignment in 100 Asymptomatic Volunteers.

Paper at the 1995 North American Spine Society,

1995 Cervical Research Society,

1995 Indiana University Garceau Wray Scientific Lectures,

Simmons Surgical Society Meeting, May, 1996.

Poster at the Scoliosis Research Society

1996 American Academy of Orthopaedic Surgeons Annual Meeting.

Hardacker James

Lumbar Fusions in the Workman's Compensation Patient. Presented at the Indiana Workman's Institute. Indianapolis, IN. February, 1996.

Hardacker James

The Merits of Being a Physician and Surgeon. Presented to the Indianapolis Scout Explorers. Indianapolis, IN. March, 1996.

Hardacker James

The Effects of Thoracic Deformity on Cervical and Global Sagittal Alignment.

Presented at the Scoliosis Research Society St Louis MO 1997,

1997 poster presentation at the North American Spine Society.

Hardacker James

Standing Cervical Alignment in Solid Uninstrumented Anterior Cervical Fusion.

Presented at the Cervical Spine Research Society. Seattle, WA December, 1999.

Hardacker James

Surgical Outcomes in Fit vs. Unfit Spondylolithesis Patients

Poster presentation at the Scoliosis Research Society, Cairns Australia 2000.

Hardacker, James

Update in Scoliosis and Screening

Carmel Clay (Indiana) School System November, 2003.

Dimar John, Glassman Steven, Burkus, Kenneth, Pryor Philip,

Hardacker James

A Large-Scale, Level 1, Clinical And Radiographic Analysis of an Optimized rhBMP-2 Formulation as an Autograft Replacement in Posterolateral Lumbar Spine Fusion.

**2006 Winner Best Evidence Based Medicine Award SRS Annual Meeting Monterey, CA Sept 2006**

*Presented North American Spine Society Seattle, WA Oct 2006*  
Presented Congress of Neurologic Surgeons Chicago IL 2006  
Presented American Academy of Orthopaedic Surgeons Chicago, IL Feb 2007.

Hardacker James, Glassman Steven, Dimar John, Burkus Kenneth  
The Effects of Cigarette Smoking on Lumbar Fusion Rates with rhBMP-2 vs. Iliac Crest Bone Graft  
IMAST Athens, Greece July 2006  
North American Spine Society Annual Meeting Seattle, WA 2006  
AAOS Annual Meeting Chicago 2007.

Glassman Steven, Dimar John, Burkus Kenneth, Hardacker James  
The Efficacy of rh BMP-2 for Posterolateral Lumbar Fusion in Smokers  
AAOS Annual Meeting Feb 2007.

Hardacker James, Richardson Jill, Pryor Philip  
Radiographic Assessment of Enhanced vs. Standard Dose rhBMP-2 as Iliac Crest Graft Replacements in Instrumented Lumbar Fusions  
Scoliosis Research Society Edinburgh, Scotland 2007  
North American Spine Society Austin Texas 2007.

Dimar John, Glassman Steven, Burkus Kenneth, Hardacker, James et al  
Two Year Fusion and Clinical Outcomes in 224 Patients with ICGB Instrumented Posterolateral Fusions  
IMAST July 2007 Paradise Islands Bahamas  
Scoliosis Research Society Edinburgh, Scotland 2007  
North American Spine Society Austin Texas 2007.

**SOCIETIES & MEMBERSHIPS**

Fellow American Academy of Orthopaedic Surgeons  
North American Spine Society:  
Industry Relations Committee 1997-2001  
Research Planning Committee 1999-2002  
Legal Issues Committee 1997-1998  
Scoliosis Research Society  
Indiana Orthopaedic Society  
Indianapolis Orthopaedic Club

Indiana State Medical Association  
Indianapolis Medical Society  
Carmel Council Member  
Phi Beta Kappa

**HOSPITAL  
COMMITTEES**

St. Vincent's Carmel Hospital  
Director Spine St Vincent Spine Center 2007-Present  
Medical Staff President 2006-2007  
Medical Staff President-Elect 2004-2006  
St Vincent Board Member 2004- 2009  
Credentialing Committee Chairman 2004-2006, 2008-2012  
Medical Executive Committee Member 2004-2012  
Quality and Peer Review Committee 2004-2012, Chair 2008-  
Medical Executive Chairman 2006-2007  
Ethics Committee 2004-Present  
Carmel Council President 2006-2007

**CONSULTANT**

Medtronic Sofamor Danek  
Spine Biologic Research and Bone Morphogenic Protein Applications  
2005-present

**CONTINUING  
EDUCATION**

Revision Concerns in Total Hip Replacement (Howmedica)  
Buffalo, NY September, 1988

Regional Hand Review Course  
Toronto, Ontario October, 1989

Comprehensive Spine Fixation Course  
Buffalo, NY June, 1989

Enneking Musculoskeletal Tumor Course  
St. Augustine, FL November, 1989

TSRH Spinal Fixation Symposium  
Buffalo, NY November, 1990

Orthopaedic Research Society  
Anaheim, CA February, 1991

American Academy of Orthopaedic Surgeons Annual Meeting  
Anaheim, CA February, 1991

Chief Residents Comprehensive Orthopaedic Conference (Zimmer)  
Baltimore, MD August, 1991

Total Hip Fixation Course (Biomet)  
Buffalo, NY January, 1992

Orthopaedic Research Society  
Washington, D.C. February, 1992



American Academy of Orthopaedic Surgeons Annual Meeting  
Washington, D.C. February, 1992

AO Basic Fracture Fixation Course  
Toronto, Ontario February, 1992

AO Advanced Fracture Fixation Course  
Sun Valley, ID March, 1992

Comprehensive Orthopaedic Review Course  
Philadelphia, PA April, 1992

American Academy of Orthopaedic Surgeons Spinal Fixation Course  
Kansas City, MO September, 1992

Scoliosis Research Society Meeting  
Kansas City, MO September, 1992

ISOLA Spinal Instrumentation Tutorial  
Kansas City, MO October, 1992

5<sup>th</sup> Annual Rae Jacobs Memorial Lectures on Lumbar Back Pain  
Kansas City, KS April, 1993

International Society for the Study of the Lumbar Spine Meeting  
Marseilles, France June, 1993

North American Spine Society Meeting  
San Diego, CA October 1993

American Academy of Orthopaedic Surgeons Annual Meeting  
New Orleans, LA February, 1994

Advanced Spinal Fixation Seminar  
Breckenridge, CO March, 1994

6<sup>th</sup> Annual Rae Jacobs Lectures on Spinal Instrumentation  
Kansas City, KS April, 1994

Controversies in Spinal Instrumentation National Hospital  
Washington, D.C. May, 1994

Scoliosis Research Society Meeting  
Portland, OR September, 1994

Garceau Wray Orthopaedic Lectureship Indiana University  
Indianapolis, IN March, 1994

Cervical Spine Research Society Meeting  
Baltimore, MD November, 1994

Cervical Spine Disorders Instructional Course (CRS)  
Baltimore, MD December, 1994

American Academy of Orthopaedic Surgeons Annual Meeting  
Orlando, FL February, 1995

Biostatistics for Clinicians Indiana University  
Indianapolis, IN March, 1995

Scoliosis Research Society Meeting  
Asheville, NC September, 1995

North American Spine Society Meeting  
Washington, DC October, 1995

Garceau Wray Orthopaedic Lectureship Indiana University  
Indianapolis, IN November, 1995

Cervical Research Society Meeting  
Santa Fe, NM November, 1995

Laparoscopic Approaches to the Thoracic and Lumbar Spine  
Cincinnati, OH September, 1995

Scoliosis Research Society Annual Meeting  
Ottawa, Canada September, 1996

BAK Anterior Fusion Course  
Minneapolis, MN October, 1996

American Academy of Orthopaedic Surgeons Annual Meeting  
San Francisco, CA February, 1997

Scoliosis Research Society Annual Meeting  
St. Louis, Mo September, 1997

Scoliosis Research Society Annual Meeting  
New York, NY September, 1998

North American Spine Society Annual Meeting  
San Francisco, CA October, 1998

Scoliosis Research Society Annual Meeting  
San Diego, CA September, 1999

North American Spine Society Annual Meeting  
Chicago, IL October, 1999

Cervical Spine Research Society Annual Meeting  
Seattle, WA December, 1999

Scoliosis Research Society Annual Meeting  
Cairns, Australia October 2000

Scoliosis Research Society Annual Meeting  
Cleveland, OH September, 2001

Essentials of Spinal Deformity  
Cleveland, OH September, 2001

North American Spine Society Annual Meeting  
Seattle, WA October, 2001

Cine-Med Continuing Medical Education  
**AMA Physician's Recognition Award** of 2 hours of Category 1 credit  
toward the Human Participant Education for Research Teams  
Via Internet February, 2002

Scoliosis Research Society Annual Meeting  
Seattle, WA September, 2002

North American Spine Society Annual Meeting  
Montreal Canada October, 2002

Emerging Technologies in Spine  
Vail, Colorado March, 2003

ISOLA Spine Study Meeting  
Boston, MA August, 2003

Advancement of Spinal Instrumentation  
Quebec City, Canada September, 2003

Scoliosis Research Society Annual Meeting  
Quebec City, Canada September, 2003

North American Spine Society  
Chicago, IL October, 2004

American Academy of Orthopaedic Surgeons Annual Meeting  
Chicago, IL February, 2005

Indianapolis Orthopaedic Society Meeting

Indianapolis, IN June, 2005

Scoliosis Research Society Annual Meeting  
Miami, FL October, 2005

Scoliosis Research Society Spinal Deformity Meeting  
Miami, FL October, 2005

American Academy of Orthopaedic Surgeons Annual Meeting  
Chicago, IL March, 2006

Scoliosis Updates Symposia  
Monterey, CA 2006

Scoliosis Research Society Annual Meeting  
Monterey, CA Sept 2006

Clinical Research doing it Legally, Ethically and Scientifically  
Seattle WA Oct 2006

North American Spine Society Annual Meeting  
Seattle WA Oct 2006

rhBMP-2 Update Symposia  
Seattle, WA Oct 2006

Emerging Spine Technologies Meeting  
Vail, CO Feb 2007

Prestige Cervical Disc Training  
Memphis, TN Aug 2007

Congenital Scoliosis Update  
Edinburgh, Scotland Sept 2006

Scoliosis Research Society Annual Meeting  
Edinburgh, Scotland Sept 2007

North American Spine Society  
Austin, TX Oct 2007

St. Vincent Leadership Forum  
Cincinnati, OH Oct 2007

St Vincent Leadership Forum  
Cincinnati, OH Apr 2008

Scoliosis Research Society Annual Meeting

Salt Lake City, UT Sept 2008

North American Spine Society Annual Meeting  
Toronto, Canada Oct 2008

St Vincent Leadership Forum  
Cincinnati, OH Oct 2008

Scoliosis Research Society's Annual Meeting  
San Antonio, TX Nov 2009

North American Spine Society Annual Meeting  
San Francisco, CA Nov 2009

Indianapolis Orthopaedic Society Meeting  
April 2010

North American Spine Society Annual Meeting  
Orlando, FL Oct 2010

Scoliosis Research Society's Annual Meeting  
Louisville, KY Sept. 2011

North American Spine Society Annual Meeting  
Chicago, IL Nov. 2011

Scoliosis Research Society Annual Meeting  
Chicago, IL Sept. 2012

North American Spine Society Annual Meeting  
Dallas, TX Oct. 2012

American Academy of Orthopaedic Surgeons Annual Meeting  
Chicago, IL March 2013