

CURRICULUM VITAE

JAY A. KAISER, M.D.

CORPORATE ADDRESS California Advanced Imaging Medical Associates, Inc.
P.O. Box 6102
Novato, CA 94948-6102

EDUCATION

Undergraduate University of Illinois
Degree: Bachelor of Arts, With High Honors
Year of Graduation: 1968

Medical School Washington University
St. Louis, Missouri
Degree: Doctor of Medicine
Year of Graduation: 1972

PROFESSIONAL TRAINING

Internship University of California, San Francisco
San Francisco, California
Department of Medicine
1972 - 1973

Residency University of California, San Francisco
San Francisco, California
Department of Radiology
1973 - 1975

Chief Resident University of California, San Francisco
San Francisco, California
Department of Radiology
1975

MEDICAL LICENSURE AND BOARD CERTIFICATION

Diplomate, National Board of Medical Examiners, 1973
Diplomate, American Board of Radiology, 1976

State of California Medical License	State of Colorado Medical License
State of Washington Medical License	State of Ohio Medical License
State of New York Medical License	State of Maryland Medical License
State of Oklahoma Medical License	State of Illinois Medical License
State of New Jersey Medical License	State of Texas Medical License (telemedicine)

CURRENT PRACTICE

President California Advanced Imaging Medical Associates
National Orthopedic Imaging Associates
Novato, California
1982 to Present

Medical Director Marin Magnetic Imaging
Greenbrae, California
1985 to Present

Medical Director San Francisco Neuro Skeletal Imaging Center
Daly City, California
1988 to Present

Medical Director Vail Imaging Center
Vail, Colorado
1991 to Present

Medical Director California Advanced Imaging at Atherton
Atherton, California
2002 to Present

Medical Director Pro Sports Imaging
Cleveland, Ohio
1992 to Present

Medical Director Fort Collins MRI
Fort Collins, Colorado
1993 to Present

Medical Director Southwest Washington Diagnostics MRI
Centralia, Washington
1995 to Present

Medical Director California Pacific Advanced Imaging Center
San Francisco, California
2002 to Present

Staff Radiologist Marin General Hospital
Greenbrae, California
1982 to Present

Staff Radiologist Novato Community Hospital
Novato, California
1982 to Present

Staff Radiologist Vail Valley Medical Center
Vail, Colorado
1991 to Present

(Current Practice continued)

Medical Director New Century Imaging
 Paramus, New Jersey
 2001 to Present

Consultant Radlink Imaging Centre
 Singapore
 2000 to Present

CURRENT RESEARCH

- Prognostic Value of Lumbar Spine MRI
- Multidisciplinary Clinical Research Center in Musculoskeletal Diseases
- Department of Orthopedic Surgery, Dartmouth Medical School

APPOINTMENTS

Assistant Clinical University of California, San Francisco
Professor San Francisco, California
 Department of Radiology

Editorial *Spine Journal*
Review Panel

California Medical Association Scientific Advisory Panel on Radiology
Assistant Secretary 1996-1998

California Managed Imaging
President 1992-1994
Secretary 1994-1996
Board Member 1992-1997

Advisory Panel on Radiology - United HealthCare

PROFESSIONAL SOCIETIES

- President, Alpha Omega Alpha, 1975
- Phi Beta Kappa, 1968
- Edmund J. James Scholar, 1964 -1968
- Phi Kappa Phi, 1968
- Marin Medical Society
- California Medical Association
- San Francisco Radiological Society
- Radiological Society of North America
- American Roentgen Ray Society
- American College of Radiology
- North American Spine Society

LECTURES AND PRESENTATIONS

California College of Podiatric Medicine, San Francisco, California, December 1975.

Presentation: Osteomyelitis

Medical Grand Rounds, Ross General Hospital, Ross, California, September 1976.

Presentation: Computed Tomography

Novato General Hospital, Novato, California, November 1976.

Presentation: Computed Tomography

Marin Society of Radiologic Technicians, November 1976.

Presentation: Basics of Computed Tomography

CT Symposium, Milwaukee, Wisconsin, July 1977.

Presentation: Neuro and Body Applications of Computed Tomography

CT Clinical Symposium, Sapphire, North Carolina, September 1977.

Presentations: Neuro Applications of Computed Tomography
Cases and Observations

Medical Grand Rounds, Broadway Hospital, Vallejo, California, October 1977.

Presentation: Computed Tomography

Second Annual Body Imaging Conference, Kauai, Hawaii, October 1977.

Presentation: Renal Computed Tomography

Marin Surgical Society, February 1978

Presentation: Abdominal Computed Tomography

Kaiser Foundation Hospital, San Rafael, California, March 1978

Presentation: Body Computed Tomography

Woodland Hospital, Woodland, California, April 1978.

Presentation: Neurological Applications of Computed Tomography

CT Seminar, Philadelphia, Pennsylvania, July 1978.

Presentations: Computed Tomography as the Procedure of Choice
Use of Contrast in Computed Tomography

CT Seminar, San Mateo, California, October 1978

Presentations: Computed Tomography as the Procedure of Choice
Use of Contrast in Computed Tomography

St. Joseph's Hospital, State of the Art: Medical Staff Conference, San Francisco, California, December 1978.

Presentation: Computed Tomography of the Body

Visiting Professor, University of British Columbia, Vancouver, British Columbia, Canada, April 1979.

Radiology Grand Rounds, Vancouver General Hospital, University of British Columbia, Vancouver, British Columbia, Canada, April 1979.

Presentation: Computed Tomography

(Lectures and Presentations continued)

Department of Medicine Grand Rounds, Vancouver General Hospital, April 1979.

Presentation: Clinical Indications for Body Computed Tomography

Visiting Professor, University of Bergen, Norway, Lectures on Computed Tomography of the Chest and CT Diagnostics of Splenic Laceration, August 1979.

Medical Grand Rounds, Central Hospital, University of Oslo, Norway, August 1979.

Presentation: Clinical Utilization of CT Body Scanning

Drammen Hospital, Drammen, Norway, September 1979.

Presentation: Body CT Scanning

Post Graduate Course, University of California, San Francisco, San Francisco, California, October 1981.

Seminar: CT of the Lumbar Spine

Eastern Radiological Society Meeting, Pebble Beach, California, April 1982:

Presentation: CT of the Post-Operative Spine

CT of the Lumbar Spine Post Graduate Course, University of California, San Francisco, San Francisco, California, April 1982.

Presentation: Pitfalls in Computed Tomography of the Lumbar Spine

Seminar: Introduction to CT of the Lumbar Spine

Western Technologists Symposium, San Francisco, California, November 1982.

Presentations: Why Backs Fail

Clinical Aspects of CT scanning of the Lumbar Spine

East Bay Radiological Society, Alameda, California, November 1982.

Presentation: CT of the Postoperative Spine

Challenge of the Lumbar Spine, San Francisco, California, December 1982.

Presentation: CT of the Lumbar Spine

NMR, Interventional and Diagnostic Imaging Modalities Meeting, University of California, San Francisco, San Francisco, California, January 1983.

Presentation: CT of the Postoperative Lumbar Spine

California Society of Physical Medicine and Rehabilitation, San Francisco, California, June 1982.

Presentation: CT of the Postoperative Lumbar Spine

Spine Update: 1983, San Francisco, California, October 1983.

Presentation: Critical Evaluation of CT versus Myelography in Assessing Low Back Pain

Panelist: Diagnosis and Management of Lumbar Disc Disease

Joint Alpine Symposium, Innsbruck, Austria, February 1984.

Presentation: CT of Chemonucleolysis

CAMP International Symposium: Conservative Management of Low Back Pain, San Francisco, California, March 1985.

Presentation: CT of the Lumbar Spine

(Lectures and Presentations continued)

Challenge of the Lumbar Spine '85, Minneapolis, Minnesota, September 1985.

Presentations: Is Myelography Obsolete?
The Glenn vs. Heitoff CT Formats

MPDI, CT of the Lumbar Spine Symposium, San Francisco, San Francisco, California, November 1986.

Presentation: MRI of the Lumbar Spine

Challenge of the Lumbar Spine 1986, San Francisco, California, November 1986.

Presentations: Multiplanar CT of the Lumbar Spine
CT-MRI Update

University of California, San Francisco: Spine Update 1987, San Francisco, May 1987.

Presentation: Optimization of Spinal Imaging with a Permanent Magnet

Workman's Appeals Board Convention, San Francisco, California, June 1987

Presentation: Use of MRI and CT in Disability Evaluation

California Chapter of American Physical Therapists Association, San Francisco, California, September 1987.

Presentation: MRI and CT of the Spine

Industrial Claims Association Convention, Oakland, California, September 1988.

Presentation: Imaging of the Lumbar Spine

San Francisco Spine Institute, Lumbar Spine State of the Art '88, San Francisco, California, December 1988.

Presentation: CT Versus MRI of the Spine

Modern Approaches to the Postoperative Spine, Scottsdale, Arizona, January 24, 1989.

Presentation: Discography of the Lumbar Spine

San Francisco Spine Institute, Aggressive Non-Surgical Rehabilitation of Lumbar Spine and Sports Injuries, San Francisco, California, March 24, 1989.

Presentation: Imaging of Injuries of the Axial Skeleton.

Neuroskeletal Imaging and Surgery, Minneapolis, Minnesota, May 9, 1989.

Presentation: High Tech Imaging of the Lumbar Spine

North American Spine Society Annual Meeting, Quebec, Canada, June 29, 1989.

Presentation: CT vs. MRI in the Imaging of Spondylolisthesis

San Francisco Spine Institute, The Injured Worker Dilemma: Definitive Solutions, San Francisco, California, September 21, 1989.

Presentations: CT Evaluation of the Injured Worker
CT vs. MRI in Lateral Stenosis

Dusseldorf Herbst Symposium, Dusseldorf, Germany, September 23, 1989.

Presentation: Lateral Stenosis of the Lumbar Spine

San Francisco Spine Institute, The Cervical Spine and Upper Extremity in Sports and Industry, San Francisco, California, April 2, 1990.

Presentation: Diagnostic Imaging of the Cervical Spine

(Lectures and Presentations continued)

California Society of Physical Medicine and Rehabilitation, Managing the Low Back Pain Patient, Monterey, California, May 19, 1990.

Presentation: CT and MRI in the Diag. of Lumbar Spinal Disorders

New York Chiropractic, Low Back Pain '90 Symposium, New York, New York, September 13-16, 1990.

Presentations: CT vs. MRI in the Lumbar Spine
Advanced Diagnostic Imaging of the Lumbar Spine

International Symposium: New Developments in Lumbar Spine Surgery and Low Back Treatment, Munich, Germany, November 1-2, 1990.

Presentations: CT, Myelography, Discography and MRI in the Radiographic Evaluation of
the Herniated Disk
Radiographic Evaluation of Instability

Industrial Claims Association, San Francisco, California, December 5, 1990.

Presentation: Imaging of the Lumbar Spine

First International Symposium, "Lasers in Orthopedic Surgery", San Francisco, California, September 1991.

Presentation: Imaging of Degenerative Disc Disease

Operative Stabilisierung der Wirbelsaule, Swiss AO Society, Davos, Switzerland, December 19, 1991.

Presentations: Radiology of Traumatic and Degenerative Changes of the Spine
Radiology of Metastases

Keystone Spine Meeting, Keystone, Colorado, January 19, 1992

Presentations: Current Issues in Spinal Imaging
Current Issues in Economics of Spine Imaging

Keystone Spine Meeting, Keystone, Colorado, January 10, 1993

Presentation: Spinal Imaging in the New World of Managed Competition

Fifth International Spine Work Shop, Cleveland, Ohio, February 25, 1993.

Presentation: Imaging of the Lumbar Spine

The Painful Spine: What To Do and How To Do It., San Francisco, California, April 30, 1993.

Presentation: The Appropriate Use of Imaging in the Lumbar Spine

Nordeutsche Orthopadenvereinigung 42, Jahrestagung (North German Orthopedic Society) Hannover, Germany, June 11-13, 1993.

Presentations: MRI of the Knee and Shoulder
MRI in Sports Medicine I - The Spine
MRI in Sports Medicine II - The Knee
MRI in Sports Medicine III - The Shoulder and Ankle

Current Issues of Magnetic Resonance Imaging in Orthopaedics and Sports Medicine, A National Symposium, San Francisco, California, September 9, 1993.

Presentation: MRI of the Lumbar Spine

North Georgia Diagnostic Imaging Conference, Atlanta, Georgia, November 13, 1993.

Presentations: MR of the Lumbar and Cervical Spine

(Lectures and Presentations continued)

Los Angeles Radiological Society, 46th Annual Midwinter Conference, Los Angeles, California, January 28-30, 1994.

Presentations: Imaging Evaluation of the Post-Operative Spine
Imaging of the Degenerative Cascade in the Lumbar Spine
Discography: Its Role in Spinal Disease

Current Issues of Magnetic Resonance Imaging in Orthopaedics and Sports Medicine, Third Annual National Symposium, San Francisco, California, September 22, 1994.

Presentation: MRI of the Lumbar Spine

Steadman Hawkins Clinic - National Orthopaedic Imaging Group Fellowship in Sports Medicine Imaging, Vail, Colorado, December 26-31, 1995.

Presentations: MRI of the Knee
MRI of the Shoulder
MRI of the Spine
MRI of the Foot and Ankle

Seventh Annual AcroMed International Workshop. The Advanced Course in Spinal Reconstructive Surgery of the Lumbar and Thoracolumbar Spine. Cleveland, Ohio. February 23, 1995.

Presentations: Advances in Spinal Imaging
Assessment of the Post-operative Spine

Current Issues of Magnetic Resonance Imaging in Orthopaedics and Sports Medicine, Fourth Annual National Symposium, San Francisco, California, September 7, 1995.

Presentations: MRI of the Lumbar Spine
Panel Discussion

Refocusing the Image of Radiology Services: How to Survive and Thrive in Managed Care, Phoenix, Arizona, February 22, 1996.

Presentation: Development of a National Sports Medicine Imaging Network

Current Issues of MRI in Orthopaedics and Sports Medicine, Fifth Annual Symposium, San Francisco, California, September 5, 1996.

Presentations: MRI of the Lumbar Spine
Panel Discussion

Current Issues of Magnetic Resonance Imaging in Orthopaedics and Sports Medicine, 6th Annual Symposium, San Francisco, California, Sept. 4, 1997.

Presentations: Session Moderator
MRI of the Spine: Case presentations

Spine Journal Focus Workshop on the Cervical Spine, Washington D.C., May 14-18, 1998.

Presentation: Imaging of the Cervical Spine

Current Issues of Magnetic Resonance Imaging in Orthopaedics and Sports Medicine, 7th Annual Symposium, San Francisco, California, Sept. 8, 1998.

Presentations: Session Moderator
MRI of the Spine: Case presentations
Moderator Panel Discussion

(Lectures and Presentations continued)

Tahoe Knee and Shoulder Update 1998, South Lake Tahoe, California, Dec. 12, 1998.

Presentations: Cost Effectiveness of MRI of the Knee
Current Status of Extremity Only MRI

Current Issues of Magnetic Resonance Imaging in Orthopaedics and Sports Medicine, 8th Annual Symposium, San Francisco, California, Sept. 1, 1999.

Presentations: Session Moderator
A Sports Medicine Approach to Spine MRI
Moderator Panel Discussion

Clinical Management of Lumbar Disc Herniation. North American Spine Society Online Course. April 6, 2000.

Faculty Member

RadLink Asia Meeting, Singapore, May 22, 2000.

Presentation: The Use of Teleradiology and the Internet to Provide Subspecialty
Radiology Expertise

Current Issues of Magnetic Resonance Imaging in Orthopaedics and Sports Medicine, 9th Annual Symposium, San Francisco, California, Aug. 26, 2000.

Presentations: Session Moderator
A Sports Medicine Approach to Spine MRI
Moderator Panel Discussion

Advanced IDET Course, Stanford, California, March 24, 2001.

Presentation: Specificity in MRI of the Lumbar Spine

Current Issues of Magnetic Resonance Imaging in Orthopaedics and Sports Medicine, 10th Annual Symposium, San Francisco, California, Aug. 26, 2001.

Presentations: Session Moderator
A Sports Medicine Approach to Spine MRI
Moderator Panel Discussion

Current Issues of Magnetic Resonance Imaging in Orthopaedics and Sports Medicine, 11th Annual Symposium, San Francisco, California, Aug. 28, 2002.

Presentations: Session Moderator
Spine MRI: Case Presentations
Moderator Panel Discussion

World Spine II, Second Interdisciplinary Congress on Spine Care, Chicago, Illinois, August 10, 2003.

Presentation: Imaging of Spinal Pain

American Academy of Pain Medicine, 20th Annual Meeting, Orlando, Florida, March 3, 2004.

Presentation: Imaging of the Post Operative Spine

POSTER PRESENTATIONS

O'Neil, C, Kaiser, J, et al. MRI Findings as Predictors of Discography Results, Annual Meeting of the International Society for the Study of the Lumbar Spine, Edinburg, Scotland, June 21-23, 2001.

PUBLICATIONS, ARTICLES

- 1) Kaiser JA, Jacobs RP, Korobkin M: Submucosal hemorrhage of the renal collecting system. American Journal of Roentgenology 125(2):311-313, October 1975.
- 2) Kaiser JA, Jacobs RP, Korobkin M: Submucosal hemorrhage of the renal collecting system. Year Book of Radiology:310-311, 1977.
- 3) Marks WA, Korobkin M, Callen PW, Kaiser JA: CT diagnosis of tumor thrombosis of the renal vein and inferior vena cava. American Journal of Roentgenology 131:843-846, November 1978.
- 4) Korobkin M, Moss AA, Callen PW, DeMartini WJ, Kaiser JA: CT diagnosis of subcapsular splenic hematoma. Clinical & Experimental Studies Radiology 129:441-445, November 1978.
- 5) Kaiser JA, et al: Diagnosis of Caroli Disease by computed tomography: Report of Two Cases 132:661, 1979.
- 6) Mall JC, Kaiser JA: CT diagnosis of splenic laceration. American Journal of Roentgenology 134:265-269, February 1980.
- 7) Mall JC, Kaiser JA, Federle MP: Imaging of the spleen in trauma. American Journal of Roentgenology 136:226, January 1981.
- 8) Federle MP, McAnish JW, Kaiser JA, et al: Computed Tomography of urinary calculi. American Journal of Roentgenology 136:255-258, February, 1981.
- 9) Federle MP, Goldberg HI, Moss AA, Kaiser JA: Evaluation of abdominal trauma by CT. Radiology 138:638-644, March 1981.
- 10) Federle MP, Kaiser JA, et al: The role of computed tomography in renal trauma, Radiology 144:455-460, November 1981.
- 11) Mark A, Moss AA, Lusby R, Kaiser JA: CT evaluation of complications of abdominal aortic surgery. Radiology 145:409-414, 1982.
- 12) Webb WR, Gamsu G, Speckman JM, Kaiser JA, Federle MP, Lipton MJ: CT demonstration of mediastinal aortic arch anomalies. Journal of Computed Assisted Tomography 6(3):445-451, June 1982.
- 13) Webb WR, Gamsu G, Speckman JM, Kaiser JA: Pictorial essay, computed tomographic demonstration of mediastinal venous anomalies. American Journal of Radiology 139:157, 1982.
- 14) Mall JC, Kaiser JA: Post chymopapain (chemonucleolysis) and CT correlation: Preliminary results, Skeletal Radiology 12:270-275, 1984.
- 15) Mall JC, Kaiser JA: The usual appearance of the post-operative lumbar spine. Radiographics 7(2):245-269, March 1987.
- 16) Mall JC, Kaiser JA: Spinal stenosis. Contemporary Radiology 1987.

(Publications, Articles continued)

- 17) Chafetz NI, Wexler C, Kaiser JA: Neuromuscular thermography of the lumbar spine with CT correlation. *Spine* 13(11):992, November 1988.
- 18) Zucherman J, Derby R, Hsu K, Picetti G, Kaiser JA, Schofferman J, Goldthwaite N, White AH: Normal magnetic resonance imaging with abnormal discography. *Spine* 13(12):1355-1359, December 1988.
- 19) Hsu K, Zucherman J, Shea W, Kaiser JA, White AH, Schofferman J, Amelon C: High lumbar disc degeneration: Incidence and etiology. *Spine* 15(7):679-682, July 1990.
- 20) Herzog RJ, Kaiser JA, Saal JA, Saal JS: The importance of the posterior epidural fat pad in lumbar central canal stenosis. *Spine* 16(6S) 227-233, June 1991.
- 21) Fritz RC, Kaiser JA, et al; MRI of a thoracic intraspinal synovial cyst, *Spine* 19:487-490, 1994.
- 22) Kaiser, JA and Holland BA: Current approach to imaging of the lumbar spine. *Journal of Musculoskeletal Medicine* 12(7): 20-35, July 1995.
- 23) Point of View on the High Intensity Zone, *Spine*, Vol. 21, #1,p. 86, January 1996.
- 24) Kaiser, JA: Point of View on "Natural History of Thoracic Disc Herniations, *Spine* Vol. 22, #5, 529-530, March 1997.
- 25) Kaiser, JA and Holland BA, Imaging of the Cervical Spine. *Spine*, Vol. 24, pp 2701-2712, 1998.
- 26) Kaiser, JA: Point of View on Bone Regrowth in Spinal Stenosis, *Spine* Vol. 24 (3), pp 288-289, 1999.
- 27) Kaiser, JA. Point of View on the High Intensity Zone. *Spine*, Vol. 24(18) p 120, 1999.

PUBLICATIONS, BOOK CHAPTERS

- 1) Mall JC, Kaiser JA: CT of the post-operative lumbar spine. *Interventional Radiology and Diagnostic Imaging Modalities*. HI Goldberg, ed., pp. 155-162, 1982.
- 2) Kaiser JA, Mall JC: Pitfalls in computed tomography of the lumbar spine. *Computed Tomography of the Lumbar Spine*. HK Genant et al., eds., pp. 173-187, 1982.
- 3) Mall JC, Kaiser JA: Computed tomography of the post-operative spine. *Computed Tomography of the Lumbar Spine*. HK Genant et al., eds., pp. 145-253, 1982.
- 4) Mall JC, Kaiser JA, Heithoff KB: CT of the post-operative spine. *Computed Tomography of the Spine and Spinal Cord*. TN Newton and DG Potts, eds., pp. 187-204, 1983.
- 5) Kaiser JA, Mall JC: Computed tomography of the post-operative spine. *NMR Interventional Radiology and Diagnostic Imaging Modalities*. AA Moss, ed., pp. 135-144, 1983.
- 6) Mall JC, Kaiser JA: Critical evaluation of CT vs. myelography in assessing low back pain. *Spine Update*. San Francisco, University of California Press, pp. 97-105, 1984.
- 7) Chafetz NI, Kaiser JA, Mall JC: Computed tomography of the post-operative spine. *Diagnostic Radiology 1985*. AR Margulis and C Gooding, eds., pp. 457-463, 1985.

(Publications, Book Chapters continued)

- 8) Chafetz, NI, Kaiser JA, Mall JC: Imaging of the post-operative spine: CT and MRI. *Failed Back Surgery: State of the Art Reviews*, Philadelphia, Hanley & Belfus. Volume 1, Number 1:65-91, September, 1986.
- 9) Kaiser JA: Optimization of spinal imaging with a permanent magnet. *Spine Update 1987*. HK Gennant, ed., San Francisco, University of California Press, pp. 55-62, 1987.
- 10) Chafetz NI, Rothman SLG, Genant HK, Kaiser JA: Computed Tomography and Magnetic Resonance Imaging of the Spine, *Computed Tomography of the Body with Magnetic Resonance Imaging*, Second Edition. Albert A. Moss et al., eds., W.B. Saunders and Co., 1992.
- 11) Sacco DC and Kaiser JA: Imaging of Hyperextension Injuries of the Spine, Motor Vehicle Collision Injuries, Mechanisms, Diagnosis and Management, Lawrence S. Nordhoff, Jr. D.C., editor, Aspen Publishers, 1996.
- 12) Stoller, David, Kaiser Jay A. and Hu, Serena. MRI of the Spine, *Magnetic Resonance Imaging in Sports Medicine and Orthopaedics*, Third Edition, David Stoller, Editor, Lippincot, 1997.