

CURRICULUM VITAE

BETSY A. HOLLAND, M.D.

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

EDUCATION

Undergraduate Barnard College
Columbia University
New York, New York
1972 - 1973

Stanford University
Stanford, California
Degree: B.S., Biology
1973 - 1976

Medical School Cornell University Medical College
New York, New York
Degree: Doctor of Medicine
1976 - 1980

PROFESSIONAL TRAINING

Internship U.C. - Moffitt Hospitals
Medicine University of California, San Francisco, California
1980 - 1981

Residency U.C. - Moffitt Hospitals
Radiology University of California, San Francisco, California
1981 - 1984

Chief Resident U.C. - Moffitt Hospitals
Radiology University of California, San Francisco, California
1983 - 1984

Chief Fellow U.C. - Moffitt Hospitals
Neuroradiology University of California, San Francisco, California
1984 - 1985

MEDICAL LICENSURE AND BOARD CERTIFICATION

Certified, Diagnostic Radiology, American Board of Radiology, 1984
Certificate of Added Qualification, Neuroradiology, American Board of Radiology, 1996

(Medical Licensure and Board Certification continued)

State of Alabama Medical License	State of New Jersey Medical License
State of Arizona Medical License	State of New York Medical License
State of California Medical License	State of Ohio Medical License
State of Colorado Medical License	State of Oklahoma Medical License
State of Illinois Medical License	State of Texas Medical License
State of Maryland Medical License	State of Washington Medical License

CURRENT PRACTICE

Radiologist	Marin General Hospital Greenbrae, California 1986 to present
Assistant Clinical Professor of Radiology	University of California San Francisco, California 1986 to present
Radiologist	Novato Community Hospital Novato, California 1987 to present
Radiologist	Seton Medical Center Daly City, California 1995 to present
Radiologist	Kentfield Rehabilitation Hospital Kentfield, California 1990 to present
Consultant	Vail Valley Medical Center Vail, Colorado 1991 to present
Consultant	Orthopedic Hospital of Oklahoma Tulsa, OK 2002 to present
Medical Director	Marin Magnetic Imaging Greenbrae, California 1986 to present
Medical Director	Tahoe Basin MRI, LLC South Lake Tahoe, California 1989 to present
Medical Director	California Advanced Imaging at Atherton (Formerly: Sand Hill & Bayside Imaging Centers) Atherton, California 1990 to present

PREVIOUS POSITIONS HELD

Clinical Instructor of Radiology	University of California San Francisco, California 1984 - 1985
Assistant Professor of Radiology	University of California San Francisco, California 1985 - 1986
Chief, Neuroradiology	San Francisco General Hospital San Francisco, California 1985 - 1986
Consultant, Radiology	San Francisco General Hospital San Francisco, California 1986 - 1991
Medical Director	Parnassus Magnetic Imaging San Francisco, California 1987 - 1992

PRESENT TITLES

Radiologist/Medical Director
California Advanced Imaging Medical Associates, Inc.
P.O. Box 6102
Novato, CA 94948-6102

Radiologist/Consultant
National Orthopedic Imaging Associates, Inc.
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HONORS AND AWARDS

1972	New York State Regents Scholar Barnard College
1973	Dean's List Barnard College
1975	Phi Beta Kappa Stanford University
1976	With Honors B.S., Biology Stanford University
1979	Alpha Omega Alpha National Medical Honor Society Cornell University Medical College

(Honors and Awards continued)

1984 Elmer Ng Award for Most Outstanding Resident
Department of Radiology
University of California, San Francisco

PROFESSIONAL ORGANIZATIONS

1979 Alpha Omega Alpha
1984 Radiological Society of North America
1986 Western Neuroradiological Society
1986 Marin Medical Society
1987 Senior Member, American Society of Neuroradiology
1987 California Medical Association
1987 American Medical Association

ARTICLES

1980 Levi, R., Burke, J.A., Holland, B.A., Green, F.J.: Immediate Hypersensitivity Reactions of the Heart: Reduction of Tachycardia and Arrhythmias by the SRS-A Antagonist FPL 55712. *Immunopharmacology* 2:173-7.

1983 Holland, B.A., Jeffrey, R.B., Brant-Zawadzki, M.: Intravenous Digital Angiography in the Demonstration of Femoral Pseudoaneurysms. *AJR* 141:607-8.

1984 Holland, B.A., Brant-Zawadzki, M.: High Resolution CT of Temporal Bone Trauma. *AJNR* 5:291-5; *AJR* 143:391-5.

1985 Holland, B.A., Brant-Zawadzki, M., Norman, D., Newton, T.H.: Magnetic Resonance Imaging of Primary Intracranial Tumors; A Review. *International Journal of Radiation Oncology, Biology, & Physics* 11:315-321.

1985 Holland, B.A., Kucarczyk, W., Brant-Zawadzki, M., Norman, D., Haas, D., Harper, P.S.: MR Imaging of Calcified Intracranial Lesions. *Radiology* 157:353-356, 1985.

1986 Holland, B.A.: CT of Skull Base Trauma. *Contemporary Diagnostic Imaging* 9(1):1-6.

1986 Holland, B.A., Perrett, L., Mills, C.: Meningovascular Syphilis: CT and MR Findings. *Radiology* 158:439-442.

1986 Holland, B.A., Haas, D., Norman, D., Brant-Zawadzki, M., Newton, T.H.: MRI of Normal Brain Maturation. *AJNR* 7:201-208.

1995 Kaiser, J.A., Holland, B.A.: Current Approach to Imaging of the Lumbar Spine. *Journal of Musculoskeletal Medicine* Vol. 12, No. 7 pp. 20-35, July 1995.

ABSTRACTS

1978 Levi, R., Zavec, J., Holland, B.A., Becker, C.G.: Cardiac and Pulmonary Anaphylaxis Induced by Tobacco Glycoproteins. *Federation Proceedings* 37:590.

(Abstracts continued)

- 1979 Levi, R., Burke, J.A., Holland, B.A.: Slow Reacting Substance of Anaphylaxis (SRS-A): Possible Role in Cardiac Hypersensitivity Reactions. *Federation Proceedings* 38:261.
- 1985 Berry, I., Brant-Zawadzki, M., Brasch, R.C., Osaki, L., Holland, B.A., Rosenbloom, S., McMurdo, K., Haas, D., Harper, P., Norman, D., Newton, T.H.: T1- and T2-values in Enhancing (Gd-DTPA) vs. Nonenhancing Brain Lesions on MRI Imaging. *Radiological Society of North America, 71st Annual Meeting, Chicago, Illinois, 37.*
- 1985 Voorhees, D., Yeates, A., Woodneff, W.W., Heinz, E.R., Diang, W.T., Holland, B.A.: Thoracic Disc Herniation: Importance of CT Evaluation. *Radiological Society of North America, 71st Annual Meeting, Chicago, Illinois, 179.*
- 1986 Brant-Zawadzki, M., Berry, I., Osaki, L., Holland, B.A., Rosenbloom, S., McMurdo, S.K., Haas, D.K., Harper, P.S., Keyes, W.D., Norman, D., Newton, T.H., Brasch, R.C., Wilson, C.B.: Gd-DTPA in Clinical MRI of the Brain; Enhancement of Extra-axial Lesions and Normal Brain Structures. *American Society of Neuroradiology, 24th Annual Meeting, San Diego, California.*
- 1986 Kelly, W., Holland, B.A., Davis, D.O., Norman, D., Newton, T.H.: MR of Craniopharyngiomas. *American Society of Neuroradiology, 24th Annual Meeting, San Diego, California.*

BOOK CHAPTERS

- 1986 Holland, B.A., Brant-Zawadzki, M., Pitts, L.: CT of Head Trauma. *CT in the Evaluation of Trauma.* Federle, M.P., Brant-Zawadzki, M., eds. Baltimore: Williams and Wilkins (2nd Edition).
- 1987 Holland, B.A.: Disorders of White Matter. *Magnetic Resonance Imaging of the Central Nervous System.* Brant-Zawadzki, M., Norman, D., eds. New York: Raven Press, pp. 259-277.
- 1995 Holland, B.A., Sacco, D.C.: Imaging of the Spine. *Spine Care.* White, A., Schofferman, J.A., eds. St. Louis: Mosby-Yearbook, Inc., pp. 140-190.

EDITORIAL ACTIVITIES

- 1983-85 Holland, B.A., Hricak, H.: Regular contributor to "Abstracts of the Current Literature", *Radiology.* Reviews of major articles in the fields of urology, interventional radiology and ultrasound.
- 1986 Book reviewer, *Radiology.*

PRESENTATIONS AT REGIONAL MEETINGS

- 1984 MRI of Calcified Intracranial Lesions, Western Neuroradiological Society Meeting, Santa Barbara, California.
- 1985 MRI of Abnormal Brain Maturation, Western Neuroradiological Society Meeting, Monterey, California.
- 1985 High Resolution Computed Tomography of Destructive Lesions of the Intratemporal Facial Nerve, Western Neuroradiological Society Meeting, Monterey, California.

PRESENTATIONS AT NATIONAL MEETINGS

- 1983 High Resolution CT of Temporal Bone Trauma, American Society of Neuroradiology, 21st Annual Meeting, San Francisco, California.
- 1985 MRI of Normal and Abnormal Brain Maturation, American Society of Neuroradiology, 23rd Annual Meeting, New Orleans, Louisiana.
- 1985 Limitations in MR Imaging as a Screening Technique of Central Nervous System Disorders, Radiological Society of North America, 71st Annual Meeting, Chicago, Illinois.
- 1986 Magnetic Resonance Imaging of Pineal Region Tumors, American Society of Neuroradiology, 24th Annual Meeting, San Diego, California.
- 1986 MRI of the Lumbosacral Spine. Challenge of the Lumbar Spine, San Francisco, California.
- 1989 MRI of Spinal Tumors. Challenge of the Lumbar Spine, San Francisco, California.
- 1991 Imaging of the Cervical Spine - Pitfalls and Solutions, Cervical and Lumbar Spine. State of the Art '91, San Francisco, California.

PRESENTATIONS AT COURSES

Sponsored by University of California, San Francisco

- 1985 MRI of the Head, Advances in Imaging Technology, San Francisco, California.
- 1985 CT of Skull Base Trauma, Trauma and the Acutely Ill Patient: Imaging Update, San Francisco, California.
- 1985 Skull Base and Temporal Bone Trauma, Head and Neck Radiology: Advanced Techniques in Diagnostic Imaging, San Francisco, California.
- 1986 Normal and Abnormal Myelination. Interventional, MRI, and Neuroradiology, San Francisco, California.
- 1986 Functional Anatomy. Interventional, MRI, and Neuroradiology, San Francisco, California.
- 1986 MRI of CNS Tumors and Spinal Cord. Diagnostic Imaging 1986, Kauai, Hawaii.
- 1986 CT and MRI of the Nasopharynx. Diagnostic Imaging 1986, Kauai, Hawaii.
- 1986 CNS Abnormalities in the Immunocompromised Host. Diagnostic Imaging 1986, Kauai, Hawaii.
- 1986 Functional Anatomy. Diagnostic Imaging 1986, Kauai, Hawaii.
- 1986 MR of Normal and Abnormal Myelination. Magnetic Resonance Imaging, San Francisco, California.
- 1986 Functional Anatomy. Magnetic Resonance Imaging, San Francisco, California.

OTHER

- 1984 Advances in Neuro CT. General Electric Seminars, San Francisco, California.
- 1985 Neuroanatomy: CT & MRI. Bay Area EEG Society Workshop, Napa, California.

(Other continued)

- 1985-86 MR of White Matter Disease. San Francisco Magnetic Resonance Center, San Francisco, California.
- 1986 Magnetic Resonance Imaging: Clinical Applications. Medical Grand Rounds, Marin General Hospital, Greenbrae, California.
- 1986 Magnetic Resonance Imaging: Clinical Applications. Medical Grand Rounds, Novato Community Hospital, Novato, California.
- 1986 MRI in Pediatrics. Pediatric Grand Rounds, Marin General Hospital, Greenbrae, California.
- 1990 MRI of the Spine. Barton Memorial Hospital, South Lake Tahoe, California.
- 1990 MRI of the Abdomen. Barton Memorial Hospital, South Lake Tahoe, California.
- 1992 MR Angiography. Medical Grand Rounds, Marin General Hospital, Greenbrae, California.
- 2000 MRI: Nose to Toes, Griffith Imaging Seminar, Baltimore, Maryland.