

**CURRICULUM VITAE**  
**Manuel L. Brown, M.D.**  
**Chairman, Department of Radiology**  
**Zolton J. Kovacs Endowed Chair**  
**Henry Ford Hospital and Health Network**

**BIOGRAPHICAL**

**Home Address:** 317 Berwyn  
Birmingham, MI 48009

**Date of Birth:** May 20, 1946

**Place of Birth:** Detroit, Michigan

**Citizenship:** U.S.A.

  

**Business Address:** 2799 W. Grand Blvd., Detroit, MI 48202

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**Current Position:** Chair, Department of Radiology  
Henry Ford Health System

Professor of Radiology  
Wayne State University School of Medicine

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**EDUCATION AND TRAINING**

**UNDERGRADUATE:**

Zoology	University of Michigan Ann Arbor, Michigan Bachelor of Science	1964-68
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**GRADUATE:**

Medicine	Wayne State University School of Medicine Detroit, Michigan Doctor of Medicine	1968-72
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**POST GRADUATE:**

Rotating I (Medicine)	St. Joseph Mercy Hospital Ann Arbor, Michigan	1972-73
Radiology Residency	Rochester General Hospital Rochester, New York	1973-75
Radiology Residency	University of Michigan Medical Center Ann Arbor, Michigan	1975-76
Nuclear Medicine Fellowship	University of Michigan Medical Center Ann Arbor, Michigan	1975-77

**APPOINTMENTS AND POSITIONS****ACADEMIC:**

<b>Years Inclusive</b>	<b>Name and Location of Institution/Organization</b>	<b>Rank/Title</b>
1976 - 1977	University of Michigan Medical Center Ann Arbor, Michigan	Instructor, Radiology
1977 - 1983	Mayo Clinic Rochester, Minnesota	Assistant Professor Radiology Laboratory Medicine
1983 - 1987	Mayo Clinic Rochester, Minnesota	Associate Professor Radiology Laboratory Medicine
1987 - 1991	Mayo Medical School Rochester, Minnesota	Professor, Radiology
1991 - 2001	University of Pittsburgh School of Medicine Pittsburgh, PA	Professor, Radiology
2001 – 2004	University of Pittsburgh School of Medicine Pittsburgh, PA	Adjunct Professor of Radiology
2004 – Present	Wayne State University School of Medicine Detroit, MI	Professor, Radiology
2022 – Present	Michigan State University College of Human Medicine	Professor, Radiology

**NON-ACADEMIC:**

<b>Years Inclusive</b>	<b>Name and Location of Institution</b>	<b>Rank/Title or Position</b>
1977 - 1991	St. Mary's Hospital Methodist Hospital Rochester, MN	Consultant, Radiology Director, Nuclear Medicine
1991 - 2001	Department of Radiology University of Pittsburgh Medical Center Pittsburgh, PA	Chief, Division of Nuclear Medicine
1995 – 2001	Department of Radiology University of Pittsburgh Medical Center Pittsburgh, PA	Vice-Chairman
1993 - 2001 1999 - 2001	Board of Directors, CISI/HCD Board of Alliance Diagnostics Venture, LLC	Member Chief Medical Officer
2000 - 2001	Board of Directors Main Medical Ventures, LLC	Member
2001 – Present	Department of Radiology Henry Ford Health System Detroit, MI	Chairman
2006-2010	Board of Trustees Henry Ford Health System	Member
2006 – 2018	Board of Governors Henry Ford Medical Group	Member
2012-2014	Board of Governors Henry Ford Medical Group	Vice-Chair
2014- 2015	Board of Governors Henry Ford Medical Group	Chair
2014-2015	Board of Trustees Henry Ford Health System	Member
2014-2015	Board of Trustees Henry Ford Hospital	Member
2014-2015	Board of Trustees Finance Committee Henry Ford Health System	Member

2014-2015	Board of Trustees Quality Committee Henry Ford Health System	Member
2015	Board of Trustees Henry Ford West Bloomfield Hospital	Member

## CERTIFICATION AND LICENSURE

### Certifying Board

### Year

American Board of Radiology  
Diagnostic Radiology

June 18, 1976

American Board of Nuclear Medicine  
Certificate No. 04343

September 17, 1977

### Medical or Other Professional Licensure:

State of New York  
State of Michigan  
State of Minnesota  
State of Arizona  
State of Pennsylvania

(#116694, July 12, 1973) - inactive  
(#35229, July 2, 1975)  
(#23298, May 13, 1977) - inactive  
(#17224, October 30, 1987) - inactive  
(#MD-043553-L, January 3, 1991) - inactive

## MEMBERSHIPS IN PROFESSIONAL AND SCIENTIFIC SOCIETIES

<u>Organization</u>	<u>Year</u>
<b>American Board of Radiology</b>	
Examiner	1982-1985-1987-1989-1994 1997-1998, 2000, 2003, 2008, 2010
Co-Chair MOC Exam Committee	2009-2012
Exam Standard Setting (Angoff) Group	2015-2023
OLA question rater	2018 -2022
<b>American College of Nuclear Physicians</b>	1980-1990
House of Delegates Representative - Minnesota	1983-1989
Standardization of Nuclear Medicine Instrumentation Committee	1985-1989
Government Affairs Committee - Vice-chairman	1986-1988
House Rules Committee - Chairperson	1985-1988
<b>Fellow (FACNP)</b>	1988
<b>American College of Radiology</b>	1978-Present
Committee on Professional Self Evaluation and Continuing Education	
Section of Nuclear Radiology IV	1984-1990
Committee on Systematized Refresher Courses	1988-1991
Vice-Chairman of Faculty, Nuclear Radiology	
Nuclear Medicine Accreditation Committee	1994-1995
Nuclear Radiology Syllabus V Committee	1994-1996
Committee on Standards and Accreditation	1992-1996
<b>Fellow (ACR)</b>	1994
Committee on Standards and Accreditation of the Commission on Nuclear Medicine	1992-2003
Commission on Nuclear Medicine	1997-2003, 2005- 2008-09
<b>Chair, Commission on Nuclear Medicine</b>	
Chair of the Committee on Government and Public Relations of the Commission on Nuclear Medicine	1997-2003
Commission on Government and Public Relations	1997-2003
<b>Board of Chancellors</b>	2005- 2011
Committee on Awards and Honors	2006-09, 2011-12, 2012-13, 2022-2024
Audit Committee	2006-2012
Chair, Audit Committee	2008-2011
Task Force on Hospital Relations	2008-2009

## MEMBERSHIPS IN PROFESSIONAL AND SCIENTIFIC SOCIETIES (continued)

<u>Organization</u>	<u>Year</u>
<b>American College of Radiology (continued)</b>	
Task Force on Conflict of Interest and Industry Relations	2008- 2011
Board Nominating Committee, Appointed Chancellor	2008- 2009
ACR/SNM Taskforce on Nuclear Medicine Training	2008-2010
ACR/SNM Taskforce II on NM Training	2011
Executive Committee Board of Chancellors	2010 – 2012
<b>President</b>	2011-2012
Commission on International Relations Diplomacy and Steering Committee	2012-2014
Judiciary Committee	2012-2015
Chair, Judiciary Committee	2015-2016
Alternate Councilor (from Michigan)	2014–2016
Councilor (from Michigan)	2017-2020
<b>Gold Medal</b>	2019
<b>American Roentgen Ray Society</b>	
Scientific Program Committee, Nuclear Medicine Subcommittee	1977-Present 1998-2001
<b>Association of University Radiologists</b>	
Finance Committee	2008- 2014
Academic – Industry Roundtable	2019-2022
<b>Michigan Radiological Society</b>	
Member, MRS Board	2001-Present 2003-Present
Program Committee	2004-2014
Strategic Planning Committee	2004-2014
Chair, Ad Hoc Committee on Nuclear Medicine	2004-2014
Awards Committee	2007-2015
Fellowship Committee	2016-2022
Nominating Committee	2016-2020
Alternate Councilor (ACR)	2014-2015
Councilor (ACR)	2016-2020
<b>Gold Medal</b>	2015

<b>Minnesota Medical Association</b>	1977-1991
<b>Minnesota Radiological Society</b>	1977-1991
Chairman, Committee on Nuclear Radiology	1983-1990
<b>The Radiological Society of North America</b>	1977-Present
Refresher Course Committee	1979-1984
Moderator, RSNA Friday Film Reading Panel	1984
Intersociety Systematized Refresher Course Committee	1991 – 1994
RadioGraphics Committee	2014-2021
Nuclear Medicine and Molecular Imaging Subcommittee Panel	
<b>Society of Nuclear Medicine</b>	1976-Present
Academic Council - Executive Committee	1988-1994
Academic Council - President	1994-1996
Board of Trustees	1989-1993
Chapter Presidents Committee	1986-1988
Committee on Council Coordination	1994-1995

## MEMBERSHIPS IN PROFESSIONAL AND SCIENTIFIC SOCIETIES (continued)

### Organization

### Year

#### (Society of Nuclear Medicine continued)

Committee on Practice Policies & Quality Assurance	1991-1993
Computer Council, Publicity Chairman	1978-1979
Editorial Board - Journal of Nuclear Medicine	1990-1996
Education and Training Committee	1983-1986
Chairman, Subcommittee on Core Curricula	1985-1986
Medical Student Education Subcommittee	1979-1982
Health Care Policy Committee	1991-1994
Health Care Reform Committee, Technology & Outcomes Assessment Committee	1994-1995
Nominating Committee	1987-1988
Scientific Exhibits Subcommittee	1980-1981
Scientific Committee	1979,1981,1983,1985 1986,1989,1994,1995
Gastrointestinal Subchairman	1983
Bone Subchairman	1985-1986-1989-1990
Hematology/Infectious Disease Subchairman	1990-1991
Standing Committee on Competence and Certification	1989-1997
Unit Chairman, General Clinical Tract of Continuing Education Courses	1987-1988
SNMMI Appropriate Use Criteria Workgroup	
Hepatobiliary	2015-2017
Government Relations Committee	2017-2021
<b>Central Chapter Society of Nuclear Medicine</b>	1977-1991, 2001-Present
Program Committee	1981-1985
Publications Committee, Chairman	1981-1985
Board of Governors	1983-1986-1988-1990, 2005-2007
Chairman, Fall, Central Chapter SNM Meeting, Rochester, Minnesota	1984
<b>President</b>	1987-1988
Chairman, Nominating Committee	1988-1989
Pittsburgh Chapter, Society of Nuclear Medicine	
Executive Board	1991-2001
Second Vice President	1991-1994
<b>ACGME</b>	
Radiology RRC	
ACGME-I Singapore Site Visitor	2011
<b>Pittsburgh Roentgen Society</b>	1991-2001
<b>Pennsylvania Radiological Society</b>	
Nuclear Medicine Committee	1999-2001
<b>Highmark of Pennsylvania Blue Shield</b>	
Carrier Advisory Committee	2000-2001



## MEMBERSHIPS IN PROFESSIONAL AND SCIENTIFIC SOCIETIES (continued)

<u>Organization</u>	<u>Year</u>
Michigan State Medical Society	2001-Present
American Medical Association	2001-Present
Wayne County Medical Society	2001-Present
Association of University Radiologists	2001-Present
Society of Chairmen of Academic Radiology Departments	2001-Present
Academy of Molecular Imaging	2002-2006
Society of Computer Applications in Radiology	2002-2006

## HONORS

<u>Title of Award</u>	<u>Year</u>
Junior and Senior Honors University of Michigan	1967 - 1968
Sigma XI	1979
Editor's Recognition Award – <u>Radiology</u>	1986-1989, 1993
Fellow - American College of Nuclear Physician	1988
Fellow - American College of Radiology	1994
Listed under "Best Doctors in Pittsburgh" Pittsburgh Magazine	1992
Listed in "Best Doctors in America"	1992-93, 1993-94 1995-96, 1998-99 2003–20
Listed in "Best Doctors in Michigan"	2003 - 2022
Distinguished Service Award – American Board of Radiology	2002
Zolton J. Kovacs Endowed Chair, Department of Radiology Henry Ford Health System	2008
Gold Medal – Michigan Radiologic Society	2015
Gold Medal – American College of Radiology	2019

**PUBLICATIONS**  
**Refereed Articles**

1. Mangla JC, Brown ML: Diagnosis of Barrett's Esophagus by Pertechnetate Radionuclide. Am J Digest Dis 1976; 21:324-327
2. Kim YC, Brown ML, Thrall JH: Scintigraphic Patterns of Gallium-67 Uptake in the Breast. Radiology 1977; 124:169-175
3. Kim YC, Massari PU, Brown ML, Thrall JH, Chang B, Keyes JW: Clinical Significance of 99m Technetium Sulfur Colloid Accumulation in Renal Transplant Patients. Radiology 1977;124:745-748
4. Brown ML, Thrall JH, Cooper RA, Kim YC: Radiography and Scintigraphy In Tumoral Calcinosis. Radiology. 1977;124:757-758
5. Brown ML, Keyes JW, Leonard PF, Thrall JH, Kircos LT: Facial Bone Scanning by Emission Tomography. J Nucl Med 1977;18(12):1184-1188.
6. Kaufman RA, Thrall JH, Keyes JW, Brown ML, Zakem JF: False Negative Bone Scans in Neuroblastoma Metastatic to the Ends of Long Bones. AJR 1978;130:131-135
7. Thrall JH, Freitas JE, Swanson D, Rogers WL, Clare JM, Brown ML, Pitt B: Clinical Comparison of Cardiac Blood Pool Visualization with Technetium-99m Red Blood Cells Labelled In Vivo and with Technetium-99m Human Serum Albumin. J Nucl Med 1978;19:796-803.
8. Brown ML, O'Donnell JB, Thrall JH, Votaw ML, Keyes JW: Gallium-67 Scintigraphy in Untreated and Treated Non-Hodgkin Lymphomas. J Nucl Med 1978;19(8):875-879.
9. Brown ML, Swee RG, Olson RS, Bender CE: Pulmonary Uptake of <sup>99m</sup>Tc-Diphosphonate in Alveolar Microlithiasis. AJR 1978;131:703-704.
10. Federman J, Brown ML, Tancredi RG, Smith HC, Wilson DB, Becker GP: Multiple-Gated Acquisition Cardiac Blood-Pool Isotope Imaging: Evaluation of Left Ventricular Function Correlated with Contrast Angiography. Mayo Clin Proc 1978;53(10):625-633.
11. \*Baggenstoss BJ, Omdahl AL, Brown ML, Wahner HW: The LeVeen Shunt--A Technique for Testing Shunt Patency. J Nucl Med Technol 1978;6:202-204.
12. Keyes JW, Brown ML, Swanson DP: A Simple Model for Anatomic Bone Scanning Studies. Radiology 1979;130:532-533.
13. Robertson JS, Brown ML, Colvard DM: Radiation Absorbed Dose to the Lens in Dacryoscintigraphy with <sup>99m</sup>TcO<sub>4</sub><sup>-</sup>. Radiology 1979;133:747-750.
14. Malagelada JR, Carter SE, Brown ML, Carlson GL: Radiolabeled Fiber: A Physiological Marker for Gastric Emptying and Intestinal Transit of Solids. Am J Digest Dis Sci 1980;25(2):81-87.

15. \*Connell TR, Stephens DH, Carlson HC, Brown ML: Upper Abdominal Abscess: A Continuing and Deadly Problem. AJR 1980;134:759-765. \*Trainee
16. Brown ML, Wahner HW, Hay ID, Hammell TC, Gray JE: Adrenal Scintigraphy: Comparison of the Anger Tomographic Scanner and Large-Field Gamma Camera: Concise Communication. J Nucl Med 1980;21:729-732.
17. Lantz EJ, Forbes GS, Brown ML, Laws ER, Jr: Radiology of Cerebrospinal Fluid Rhinorrhea. AJNR 1980;1:391-398.
18. \*Lantz EJ, Forbes GS, Brown ML, Laws ER, Jr: The Radiology of Cerebrospinal Fluid Rhinorrhea. AJR 1980;135:1023-1030.
19. \*Bruschwein DA, Brown ML, McLeod RA: Gallium Scintigraphy in the Evaluation of Disk-Space Infections: Concise Communication. J Nucl Med 1980;21:925-927.
20. Rosenow EC, III, Osmundson PJ, Brown ML: Pulmonary Embolism: A Review. Mayo Clin Proc 1981;56:161-178.
21. Brown ML, Freitas JE, Wahner HW: Useful Hepatic Parenchymal Imaging in Hepatobiliary Scintigraphy. AJR 1981;136:893-895.
22. Robertson JS, Dewanjee MK, Brown ML, Fuster V, Chesebro JH: Distribution and Dosimetry of Indium-111-Labeled Platelets. Radiology 1981;140:169-176.
23. White WL, Wahner HW, Brown ML, James EM: Sequential Liver Imaging in the Hypereosinophilic Syndrome: Discordant Images with Scintigraphy, Ultrasound, and Computed Tomography. Clin Nucl Med 1981;6:75-77.
24. Clements IP, Strelow DA, Becker GP, Vlietstra RE, Brown ML: Radionuclide Evaluation of Peripheral Circulatory Dynamics: New Clinical Application of Blood Pool Scintigraphy for Measuring Limb Venous Volume, Capacity, and Blood Flow. Am Heart J 1981;102(December)Part I:980-983.
25. Cortot A, Fleming CR, Brown ML, Go VLW, Malagelada JR: Isolated Retained Antrum: Diagnosis by Gastrin Challenge Tests and Radioscintillation Scanning. Digest Dis Sci 1981;26:748-751.
26. Dunn WL, Brown ML: Distortion Introduced in Radionuclide Camera Views by Multiformat Imagers. Med Phys 1981;8(5):714-715.
27. Sostman HD, Brown M, Toole A, Bobrow S, Gottschalk A: Perfusion Scan in Pulmonary Vascular/Lymphangitic Carcinomatosis: The Segmental Contour Pattern. AJR 1981;137:1072-1074.
28. Clements IP, Brown ML, Smith HC: Radionuclide Measurement of Left Ventricular Volume. Mayo Clin Proc 1981;56:733-739.

29. Carryer PW, Brown ML, Malagelada J-R, Carlson GL, McCall JT: Quantification of the Fate of Dietary Fiber in Humans by a Newly Developed Radiolabeled Fiber Marker. *Gastroenterology* 1982;82(6):1389-1394.
30. Brown ML: Significance of the Solitary Lesion in Pediatric Bone Scanning: Concise Communication. *J Nucl Med* 1983;24:114-115.
31. Prakash UBS, Barham SS, Rosenow EC, Brown ML, Payne WS: Pulmonary Alveolar Microlithiasis. A Review Including Ultrastructural and Pulmonary Function Studies. *Mayo Clin Proc* 1983;58:290-300.
32. \*Nutton RW, Fitzgerald RH, Brown ML, Kelly PJ: Dynamic Radioisotopic Bone Imaging as a Noninvasive Indicator of Canine Tibial Blood Flow. *J Orthop Res* 1984;2:67-74.
33. Dewanjee MK, Chowdhury S, Jenkins D, Brown ML, Wahner HW: Identification of Abscesses and Thrombi by Imaging of <sup>111</sup>In-Labeled Blood Cells. *Mayo Clin Proc* 1984;59:49-50.
34. Clements IP, Offord KP, Baron DW, Brown ML, Bardsley WT, Harrison CE: Cardiovascular Hemodynamics of Bicycle and Handgrip Exercise in Normal Subjects Before and After Administration of Propranolol. *Mayo Clin Proc* 1984;59:604-611.
35. \*Merkel KD, Fitzgerald RH, Brown ML: Scintigraphic Examination of Total Hip Arthroplasty: Comparison of Indium with Technetium-Gallium in the Loose and Infected Canine Arthroplasty. Published in the *Hip Society. The Hip - Proceedings of the 12th Open Scientific Meeting of the Hip Society* 1984, edited by Richard B. Welch, C.V. Mosby Co., St. Louis, 1984;163-192.
36. Malagelada JR, Robertson JS, Brown ML, \*Remington MM, Duenes JA, Thomforde GM, Carryer PW: Intestinal Transit of Solid and Liquid Components of a Meal in Health. *Gastroenterology* 1984;87:1255-1263.
37. \*Merkel KD, Brown ML, Dewanjee MK, Fitzgerald RH, Jr.: Comparison of Indium-Labeled-Leukocyte Imaging with Sequential Technetium-Gallium Scanning in the Diagnosis of Low-Grade Musculoskeletal Sepsis: A Prospective Study. *J Bone Joint Surg* 1985;67-A:465-476.
38. \*Lyons CW, Berquist TH, Lyons JC, Rand JA, Brown ML: Evaluation of Radiographic Findings in Painful Hip Arthroplasties. *Clinical Orthopaedics and Related Research* 1985;195:239-251.
39. \*Swensen SJ, Brown ML, Sheps SG, Sizemore G, Gharib H, Grant CS, van Heerden JA: <sup>131</sup>I-MIBG in the Evaluation of Suspected Pheochromocytoma. *Mayo Clin Proc* 1985;60:299-304.
40. \*Jack CR, Forbes GS, Dewanjee MK, Brown ML, Ernest F: Ivalon: Particle Size and Morphology. *AJNR* 1985;6:595-597.
41. Williamson B, Jr, Hartman GW, Charboneau JW, Johnson CM, Brown ML, Hattery RR: Diagnostic Imaging of Renal Masses: An Update. *Arch Clin Img* 1985;1:76-85.
42. Thomforde GM, Brown ML, Malagelada JR: Practical Solid and Liquid Phase Markers for Studying Gastric Emptying in Man. *J Nucl Med Technol* 1985;3(1):11-14.

43. Sheps SG, Brown ML: Localization of Mediastinal Paragangliomas (Pheochromocytoma). *Chest* 1985;87:807-809.
44. \*Welch TJ, Sheedy PF, Johnson CM, Stephens DH, Charboneau JW, Brown ML, May GR, Adson MA: Imaging of Benign Liver Tumors. *Radiology* 1984;153(P):246-247 (abst 717).
45. \*Welch TJ, Sheedy PF, Johnson CM, Stephens DH, Charboneau JW, Brown ML, May GR, Adson MA, McGill DB: Focal Nodular Hyperplasia and Hepatic Adenoma: Comparison of angiography, CT, US, and Scintigraphy. *Radiology* 1985;156:593-595.
46. Berquist TH, Brown ML, Fitzgerald RH, May GR: Magnetic Resonance Imaging: Application in Musculoskeletal Infection. *Magnetic Resonance Imaging* 1985;3:219-230.
47. \*Zinberg EM, Wood MB, Brown ML: Vascularized Bone Transfer: Evaluation of Viability by Postoperative Bone Scan. *Journal Reconst. Microsurgery*, 1985;2(10):13-19.
48. \*Camilleri M, Malagelada J-R, Brown ML, Becker G, and Zinsmeister AR: Relation Between Antral Motility and Gastric Emptying of Solids and Liquids in Humans. *Am J Physiol* 249 (Gastrointest. Liver Physiol. 1985;12:G580-585.
49. \*O'Connell PR, Kelly KA, Brown ML: Scintigraphic Assessment of Neorectal Motor Function. *J Nuc Med* 1986;27:460-464.
50. Brown ML, Hauser MF, Aznarez A, Fitzgerald RH: Indium-111 Leukocyte Scanning: The Skeletal Photogenic Lesion. *Clin Nucl Med* 1986;11(9):611-613.
51. \*Camilleri M, Brown ML, Malagelada JR: Relationship Between Impaired Gastric Emptying and Abnormal Gastrointestinal Motility. *Gastroenterology* 1986;91(July):94-99.
52. \*Camilleri M, Brown ML, Malagelada JR: Impaired Transit of Chyme in Chronic Intestinal Pseudo-Obstruction. *Gastroenterology* 1986;91:619-626.
53. \*Merkel KD, Brown ML, Fitzgerald RH Jr: Sequential Technetium 99m-Gallium-67 Imaging for the Evaluation of Infection in the Painful Prosthesis. *J Nucl Med* 1986;27:1413-1417.
54. \*Jack CR, Dewanjee MK, Brown ML, Forbes G, Chowdhury S: The Radiolabeled Polyvinyl Alcohol Particles: A Potential Agent to Monitor Embolization Procedures. *Nuclear Medicine Biology Volume of the International Journal of Radiation and Applied Instrumentation*, 1986;13(Part B):3:235-243.
55. Brown ML, Swee RG, Johnson KA: Bone Scintigraphy of the Calcaneus: An Atlas. *Clin Nucl Med* 1986;11(7):530-536.
56. \*Spiller RC, Brown ML, Phillips SF: Decreased Fluid Tolerance, Accelerated Transit, and Abnormal Motility of the Human Colon Induced by Oleic Acid. *Gastroenterology* 1986;91(July):100-107.

57. \*Kellow JE, Borody TJ, Phillips SF, Haddad AC, Brown ML: Sulfapyridine Appearance in Plasma After Salicylazosulfapyridine: After Simple Measure of Intestinal Transit. *Gastroenterology* 1986;91:396-400.
58. Clements IP, Zinsmeister AR, Gibbons RJ, Brown ML, Chesebro JH: Exercise Radionuclide Ventriculography in Evaluation of Coronary Artery Disease. *Am Heart J* 1986;112(3):582-588.
59. \*Spiller RC, Brown ML, Phillips SF, Azpiroz F: Scintigraphic Measurements of Canine Ileocolonic Transit. Direct and Indirect Effects of Eating. *Gastroenterology* 1986;91:1213-20.
60. Paras P, Harris CC, Benua RS, Brill AB, Brown ML, Croft BY, Lull RL, Wiley AL: Initial testing and quality control for radionuclide dose calibrators. *Nuclear Medicine Communications* 1986;7:555-565.
61. \*O'Connell PR, Pemberton JH, Brown ML, Kelly KA: Determinants of Stool Frequency After Ileal Pouch-anal Anastomosis. *Am J Surg* 1987;153:157-164.
62. Gibbons RJ, Clements IP, Zinsmeister AR, Brown ML: Exercise Response of the Systolic Pressure to End Systolic Volume Ratio in Patients with Coronary Artery Disease. *J Am Coll Card* 1987;10:33-39.
63. Gertz MA, Brown ML, Hauser MF, Kyle RA: Utility of Technetium Pyrophosphate Bone Scanning in the Cardiac Amyloidosis. *Arch Intern Med* 1987;147:1039-1044.
64. Gibbons RJ, Hu DC, Clements IP, Mankin HT, Zinsmeister AR, Brown ML: Anatomic and Functional Significance of a Hypotensive Response During Supine Exercise Radionuclide Ventriculography. *Am J Card* 1987;60:1-4.
65. \*Spiller RC, Brown ML, Phillips SF: Emptying of the Terminal Ileum in Intact Man - Influence of Meal Residue and Ileal Motility. *Gastroenterology* 1987;92:724-729.
66. Griffin MR, Stanson AW, Brown ML, Hauser MF, O'Fallon WM, Anderson HM, Kazmier FJ, Melton III LJ: Deep Venous Thrombosis and Pulmonary Embolism. *Arch Intern Med* 1987;147:1907-1911.
67. Clements IP, Gibbons RJ, Mankin HT, Zinsmeister AR, Brown ML: Guidelines for the Interpretation of the Exercise Radionuclide Ventriculogram for Diagnosing Coronary Artery Disease. *Am J Card* 1987;60:1265-1268.
68. Brown ML, \*Vaquerio M, Clements IP, Gibbons RJ, Fisher LD: Stability of Radionuclide Left Ventricular Volume Measurements. *Nucl Med Commun* 1988;9:117-122.
69. Gibbons RJ, Fyke FE III, Clements IP, Lapeyre AC III, Zinsmeister AR, Brown ML: Noninvasive Identification of Severe Coronary Artery Disease Using Exercise Radionuclide Angiography. *J Am Coll Card* 1988;11:28-34.
70. Dewanjee MK, Brown ML, Chowdhury S, Thomforde G, Malagelada J: The Search for an Indium-111 Agent for the Solid Component of Gastric Emptying. *Nucl Med Biol* 1988;15:165-170.

71. Chowdhury S, Brown ML, Dewanjee MK, Forstrom LA, Katzmann JA: Labeled Polymorphonuclear Leukocytes: A Comparison of Methodology. *Nucl Med Biol, Int J Rad Applic Instrum* 1988;15(B):511-515.
72. \*Barkel DC, Pemberton JH, Pezim ME, Phillips SF, Kelly KA, Brown ML: Scintigraphic Assessment of the Anorectal Angle in Health and After Ileal Pouch-Anal Anastomosis. *Ann Surg* 1988;208:42-49.
73. Clements IP, Nelson MA, O'Connor MK, Becker GP, Gibbons RJ, Brown ML: Diastolic measurements from alternate R-wave gating. *Am Heart J* 1988;116:113-117.
74. \*Kumar D, Phillips SF, Brown ML: Reflux from ileum to colon in the dog. Role of external ligamentous attachments. *Dig Dis Sci* 1988;33:345-352.
75. O'Connor MK, Brown ML, \*Kamath PS, Phillips SF, Oswald W: Use of profile analysis for the measurement of organ dimensions. *Eur J Nucl Med* 1988;14:562-564.
76. \*Magnuson JE, Brown ML, Hauser ML, Berquist TH, Fitzgerald RH, Klee GG: In-111-labeled leukocyte scintigraphy in suspected orthopedic prosthesis infection: comparison with other imaging modalities. *Radiology* 1988;168:235-239.
77. \*Vatterott PJ, Gibbons RJ, Hu DCK, Brown ML, Clements IP: Assessment of left ventricular volume changes during exercise radionuclide angiogram in coronary artery disease. *Am J Cardiol* 1988;61:912-914.
78. Wahner HW, Dunn WL, Brown ML, Morin RL, Riggs BL: Comparison of dual-energy x-ray absorptiometry and dual photon absorptiometry for bone mineral measurements of the lumbar spine. *Mayo Clin Proc* 1988;63:1075-1084.
79. Forstrom LA, Dewanjee MK, Chowdhury S, Brown ML: Indium-111 labeled purified granulocytes in the diagnosis of synthetic vascular graft infection. *Clin Nucl Med* 1988;8:59-62.
80. \*Soper NJ, Orkin BA, Kelly KA, Phillips SF, Brown ML: Gastrointestinal transit after colectomy with ileal pouch-anal anastomosis or ileostomy. *J Surg Res* 1989;46:300-305.
81. \*Jain NK, Boivin M, Zinsmeister AR, Brown ML, Malagelada JR, DiMagno EP: Effect of ileal perfusion of carbohydrates and amylase inhibitor on gastrointestinal hormones and emptying. *Gastroenterology* 1989;96:377-387.
82. Woods JE, Freedman AM, Brown ML: Lymphoscintigraphy as a guide to treatment in malignant melanoma. *Ann Plast Surg* 1989;22:150-155.
83. \*Hanley PC, Zinsmeister AR, Clements IP, Bove AA, et al: Gender-related differences in cardiac response to supine exercise assessed by radionuclide angiography. *J Am Coll Cardiol* 1989;13(3):624-629.
84. Camilleri M, Malagelada J-R, Abell TL, Brown ML, Hench V, Zinsmeister AR: Effect of six weeks of treatment with Cisapride in gastroparesis and intestinal pseudoobstruction. *Gastroenterology* 1989;96:704-712.

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109. Perez-Monte J, Shah A, Brown ML, Watson C, Carty S. Is SPECT necessary for accurate detection and localization of parathyroid adenomas using Tc-99m sestamibi? *JNM* 1995;36(5):228P.
110. Ranger NT, Horne H, Collins L, Shah A, Brown M. A network-based database for the management of quantitative clinical data. *JNM* 1995;36(5):177P.
111. Kinehan PE, Jadali F, Sashin D, Brown ML, Mintun MA, Baron RL, Townsend DW. A comparison of 2D and 3D abdominal PET imaging. *JNM* 1995;36(5):7P.
112. Karel S, Gorham-Ostrom P, Brown ML, Stalteri M, Landreneau R, Keenan R, Holbert M. The role of ventilation/perfusion imaging in evaluating patients for thorascopic laser reduction surgery. *J Nucl Med Technology* 1995;23(2):118.
113. Shah AN, Brown ML, Watson CG, Carty SE, Perez-Monte J. Parathyroid adenoma: value of early and delayed sestamibi SPECT scan. *RSNA, Chicago, IL, 1995;214-215 (abst)*.
114. Brown ML, Charron M, Shah AN, Lister J, Kirkwood JM, Stalteri MF. Tumor imaging with Ga-67 citrate: a cost effective strategy. *RSNA, Chicago, IL, 1995;385 (abst)*.
115. Perez-Monte JE, Brown ML, Shah AN, Ranger NT, Watson CG, Carty SE, Clarke MR. Parathyroid adenomas: accurate detection and localization with Tc-99m sestamibi SPECT. *Radiology* 1996;201(1):85-91.
116. Holbert JM, Brown ML, Scirba F, Landreneau R, Keenan R, Holzer A. Changes in lung and emphysema volumes after unilateral lung reduction surgery in severe emphysema. *Radiology* 1996;3:793-7.
117. Ranger NT, Murtha P, Collins L, Shah AN, Brown, ML: Network-integrated functional database solution for Nuclear Medicine applications. *RSNA, Chicago, IL, 1996;564 (abst)*.
118. Lee JD, Scirba FC, Brown ML, Landreneau RJ, Holbert M, Griffith BP, Ferson, PF, Luketich, JD, Keenan, RJ. Better Physiologic Outcome in Upper Compared To Lower Lung Predominant Emphysema Following Lung Reduction Surgery - Early Results of Unilateral and Bilateral Approaches. *Western Thoracic Society. (abst)*.

119. Holbert JM, Brown ML, Scieurba F, Landreneau R, Keenan R, Holzer A. Changes in lung volume and volume of emphysema after unilateral lung reduction surgery: analysis with CT lung densitometry. *The Year Book of Diagnostic Radiology* 1998; 63-64.
120. Griffith B, Kelly M, Osborn D, Jain R, Brown ML: A Guide to Improving Imaging (Over-) Utilization through Practice Quality Improvement. Certificate of Merit at the 98<sup>th</sup> Annual Meeting of RSNA, Chicago, Nov. 2012
121. Agarwal R, Myers D, Karvelis K, Brown ML: Spectrum of findings in <sup>99m</sup>Tc-MAA SPECT/CT and their significance in treatment planning for <sup>90</sup>Y-microsphere radioembolization for hepatocellular carcinoma. *The Journal of Nuclear Medicine* 2011; 52 (Supplement 1):1081
122. Astani SA, Brown ML, Getzen T, Steusloff K: Comparison of procedure cost of various percutaneous tumor ablation modalities: microwave ablation, radiofrequency ablation, cryoablation, and irreversible electroporation. *Journal of Vascular and Interventional Radiology*. 2014; 25(3 Supplement):S187

### **Other Publications**

1. Hay ID, Brown ML, Wahner HW: Computer Assistance: An Essential for Adrenal Imaging? (Letter to the Editor) *Br J Radiol* 1979;(2)52:161-162.
2. Wahner HW, Brown ML, Dickson ER: Gallium Accumulation in the Stomach: A False Positive Scan Suggesting Abscess. (Letter to the Editor) *J Nucl Med* 1979;20(6):577-578.
3. Brown ML, Wahner HW, Freitas JE: Early Multiprojectional Hepatic Imaging in Tc-99m PIPIDA Cholescintigraphy: Reply. (Letter to the Editor) *J Nucl Med* 1981;22:290-291.
4. Brown ML, Dunn WL, Tuscan M: Formatter Linearity. (Letter to the Editor) *J Nucl Med* 1980;21(12):1200-1201.
5. Clements IP, Brown ML, Smith HC: Rectification of Published Procedure for Radionuclide Measurement. *Mayo Clin Proc* May 1982;57:329 (Letter to the Editor).
6. Brown ML, Fitzgerald RH, Magnuson JE, Merkel KD: Sequential Technetium-99m HMDP-Gallium 67 Citrate Imaging for Evaluation of Infection in the Painful Prosthesis. (Letter to the Editor). *J Nucl Med* 1987;28(5):926-927.
7. Siegel BA, Alderson PO, Brown ML, Mettler FA, Miller TR: RSNA Meeting Notes: Nuclear Medicine. *Radiology* 1988;166:615-617.
8. Brown ML. *The Year Book of Nuclear Medicine* 1980 (book review). *JAMA*; 1981:245:2099.
9. Initial Testing and Quality Control for Radionuclide Dose Calibrators. Prepared by members of the Committee on Standardization of Nuclear Medicine Instrumentation. David A. Weber, PhD, Chairman, and Manuel L Brown, MD, member, American College of Nuclear Physicians; 1984

10. Charron M, Brown M: V/Q Scan Can Quantitate Right to Left Shunt. *Am J Respiratory and Critical Care Medicine* 1995;151(1):253 (Letter to the Editor).
11. Gur D, Rockette HE, Armfield DR, Blachar A, Bogan JK, Brancatelli G, Britton CA, Brown ML, David PL, et al: Prevalance Effect in a Laboratory Enviornment. *Radiology* 2003; 228:10-14. (Special Reports)

## **SCIENTIFIC PRESENTATIONS**

### **Scientific and Educational Exhibits**

1. Brown ML, Hay ID, Wahner HW, Hammell TC: Adrenal Scintigraphy: Comparison of the Anger Tomographic Scanner and Large Field Gamma Camera. Society of Nuclear Medicine Meeting, Atlanta, Georgia, 1979.
2. Hay ID, Brown ML, Salassa RM, Carpenter PC, Northcutt RC, Wahner HW: Adrenal Gland Imaging with Multiplane Tomography in Cushing's Disease. Sixth International Congress on Endocrinology, February 10-16, 1980, Melbourne, Australia.
3. Dunn WL, Brown ML, Tuscan M: Distortion Introduced in Radionuclide Camera Views by Multiformat Imagers, 1981.
4. Imaging of Benign Liver Tumors, RSNA, Washington, DC, 1984.
5. Brown ML, Gottschalk A, Mettler FA, Muroff LR, Thrall JH: Nuclear Medicine Film Interpretation Session, RSNA, Washington, DC, 1984.
6. Welch, TJ, Sheedy PF, Johnson CM, Stephens DH, Charboneau JW, Brown ML, May GR, Adson MA: Imaging of Benign Liver Tumors. *Radiology* 153(P):363, November 1984.
7. Wahner HW, Brown ML, Dunn WL, Morin R, Stein J: Evaluation of a New Instrument for Bone Mineral Analysis Based on Quantitative Digital Radiography. 2nd International Workshop on Non-Invasive Bone Measurements. Leuven, Belgium, September 24-25, 1987.
8. Frytak S, Creagan ET, Brown ML, Chowdhury S, Burton JK, Fasching MC: Diagnostic Scanning with Technetium (99mTc) Labeled Monoclonal Antibody in Patients with Malignant Melanoma. Third International Conference. San Diego, California, February 1988.
9. Morin RL, Wahner HW, Brown ML: A Comparison of Normal Values for QCT Bone Mineral Measurement. Second Bath Conference on Osteoporosis and Bone Mineral Measurement, Bath, United Kingdom, June 1990.
10. Stivland TA, Vassalo M, Camilleri M, Pemberton JH, Phillips SF, Thomforde GM, Rath DM, Brown ML: Definition of Regional Gut Transit in Idiopathic Constipation Using Encapsulated Radiolabelled Solid Pellets. Society of Nuclear Medicine 37th Annual Meeting, Washington, DC, June 19-22, 1990.

11. Aggarwal A, Camilleri M, Phillips S, Thomforde G, Brown M: Effects of olestra, a nondigestible, nonabsorbable fat, on human gastrointestinal transit. Sixth Biennial Meeting of American Motility Society, Newport, RI, October 14-17, 1990
12. Vassallo M, Camilleri M, Phillips S, Brown M, Chapman N, Thomforde G: Regional transit disturbances in the unprepared gut in diarrhea-predominant irritable bowel syndrome (IBS). Sixth Biennial Meeting of American Motility Society, Newport, RI, October 14-17, 1990.
13. Hung JC, Wilson ME, Brown ML: Fast preparation and quality control method for technetium-99m mertiatide (Tc-99m MAG3). The Society of Nuclear Medicine 38th Annual Meeting, Cincinnati, OH, June 11-14, 1991. Poster Presentation
14. Hung JC, Wilson ME, Brown ML, Gibbons RJ: Rapid quality control method for technetium-99m 2-methoxy isobutyl isonitrile (Tc-99m Sestamibi). The Society of Nuclear Medicine 38th Annual Meeting, Cincinnati, OH, June 11-14, 1991. Poster Presentation
15. Hsu JJ, Kim CH, O'Connor MK, Brown ML: The effect of menstrual cycle on esophageal emptying of liquid and solids. American College of Gastroenterology, 56 Annual Scientific Meeting, Boston, MA, October 14-16, 1991. Poster Presentation
16. Miketic LM, Brown M, Kirkwood J: Gallium staging in metastatic melanoma. American Roentgen Ray Society, 92nd Annual Meeting, May 10-15, 1992, Orlando, FL. View Box Exhibit.
17. Patel K, Charron M, Brown ML, Rogers KD, Hoberman A, Bellinger MF: Intra-and interobserver variability for a standardized rating scale for DMSA renal scans. The Society of Nuclear Medicine 39th Annual Meeting, Los Angeles, CA, June 9-12, 1992.
18. Mokotoff M, Jonnalagadda S, Swanson D, Levine G, Brown M, Epperly M: <sup>99m</sup>Tc and <sup>111</sup>In-Laminin Peptide Fragments for Malignancy Diagnosis. Pittsburgh Cancer Institute Scientific Retreat, Farmington, PA March 28, 29, 1993.
19. Sastry S, Jonnalagadda J, Mokotoff M, Swanson DP, Brown ML, Epperly MW: <sup>111</sup>In labeled laminin fragments as potential diagnostic agents for metastatic cancers. Presented at the 13th American Peptide Symposium, Edmonton, Alberta, Canada June 20-25, 1993.
20. Gorham-Ostrom P, Ranger N, Brown ML, Conti, S: Optimization of foot imaging for orthopaedic applications. Presented at the 41st Annual Meeting of the Society of Nuclear Medicine, Orlando, Florida, June 6, 1994.
21. Schuetz TA, Brown ML, Posner MC, Malhi BS, Ranger NT: I-131 Human serum albumin to evaluate isolation limb perfusion therapy for intransit metastatic melanoma. Presented at the 41st Annual Meeting of the Society of Nuclear Medicine, Orlando, Florida, June 6, 1994.
22. Perez-Monte J, Shah A, Brown ML, Watson C, Carty S. Is SPECT necessary for accurate detection and localization of parathyroid adenomas using Tc-99m sestamibi? Society of Nuclear Medicine Annual Meeting 1995.
23. Ranger NT, Horne H, Collins L, Shah A, Brown M. A network-based database for the management of quantitative clinical data. Society of Nuclear Medicine Annual Meeting 1995.

24. Brown ML, Holbert JM, Stalteri M, Scieurba F, Gorham-Ostrom P, Karel S, Keenan M, Landreneau R. Unilateral thoracoscopic lung reduction surgery: preliminary nuclear medicine results. Society of Nuclear Medicine Annual Meeting 1995.
25. Kinehan PE, Jadali F, Sashin D, Brown ML, Mintun MA, Baron RL, Townsend DW. A comparison of 2D and 3D abdominal PET imaging. Society of Nuclear Medicine Annual Meeting 1995.
26. Karel S, Gorham-Ostrom P, Brown ML, Stalteri M, Landreneau R, Keenan R, Holbert M. The role of ventilation/perfusion imaging in evaluating patients for thorascopic laser reduction surgery. Society of Nuclear Medicine Annual Meeting 1995.
27. Holbert JM, Brown ML, Scieurba F, Landreneau R, Keenan R, Holzer A. Changes in lung and emphysema volumes after unilateral lung reduction surgery in severe emphysema. RSNA, 1995.
28. Perez-Monte J, Shah AN, Brown ML, Watson CG, Carty SE. Parathyroid adenoma: value of early and delayed sestamibi SPECT scan. RSNA, 1995.
29. Holbert JM, Brown ML, Scieurba FC, Landreneau RB, Keenan RB, Holzer AD, Baron RL. Ability of CT to demonstrate changes in lung volume and volume of emphysema after unilateral lung reduction surgery. Presented at the Nineteenth Annual Course: Society of Computed Body Tomography and Magnetic Resonance in Scottsdale, AZ, March 18-22, 1996.
30. Mates JL, Karvelis KC, Pantelic MV, Brown ML: Lack of utility of scintigraphy in the evaluation of leukocytosis without fever. RSNA, 2002
31. Tanner J, Myers DT, Karvelis KC, Pantelic MV, Brown ML: Enhancing the Diagnostic Yield: Recognition of Genitourinary Variants and Pathology on Skeletal Scintigraphy. Electronic Exhibit presented at American Roentgen Ray Society, Miami Beach, May 2-7, 2004 (*Awarded Certificate of Merit*)
32. Brown DJ, Jain, R, Bonnett J, Brown ML: Augmenting the Diagnostic Yield: Value of 3D Post-Processing Techniques in Patients with Penetrating Trauma. RSNA, Chicago, 2010
33. Agrawal R, Myers D, Karvelis K, Brown ML: Spectrum of findings in 99mTc-MAA SPECT/CT and their significance in treatment planning for 90Y-microsphere radioembolization for hepatocellular carcinoma. SNM, San Antonio, 2011 (Educational Top 10 Poster Award Finalist)
34. Brown, ML: ACR Update. National Medical Association, Chicago, July 24, 2011
35. Brown, ML: ACR Federal Legislative Update. Washington State Radiologic Society, November 5, 2011
36. Brown, ML: Generational Differences. Washington State Radiologic Society, November 5, 2011
37. Brown, ML: American College of Radiology Update. New York State Radiologic Society, March 31, 2012



38. Brown, ML: Presidential Address – Engagement in Times of Uncertainty. American College of Radiology Annual Meeting, DC, April 22, 2012
39. Brown, ML: Quality and Safety Metrics in the United States: Potential Global Application. International Congress of Radiology, Sao Paulo, Brazil, May 5, 2012
40. Brown, ML: Accreditation Programs: Quality for Patient Safety. International Congress of Radiology, Sao Paulo, Brazil, May 5, 2012
41. Brown ML: The Future of the ACR and Healthcare Reform. Michigan Radiologic Society, Livonia Township, MI, May 31, 2012
42. Moriarity AK, Brown ML: More jobs on the horizon? Work and retirement preferences of practicing radiologists predict an impending workforce shortage. Oral presentation and 1st place scientific trainee prize at the Association of University Radiologists, 2014 Annual Meeting, Baltimore, MD, April, 2014
43. Annigeri P, Krupinski E, Brown ML, Poisson LM, Griffith B. Second or Last? Most Appropriate Author Position for the Faculty Mentor: Results of an AUR Survey. Presented at AUR Annual Meeting, Orlando, FL, May, 2018.

## **PROFESSIONAL ACTIVITIES**

### **TEACHING - Visiting Professorship**

- |          |  |
|----------|--|
| 09/03/81 | Sinai Hospital, Detroit, MI<br>Radiation Risks in Perspective  |
| 01/28/87 | Medical Grand Rounds, Columbia University, New York, NY<br>The Evaluation of Musculoskeletal Sepsis: An Imaging Approach |
| 01/29/87 | Columbia University, New York, NY<br>MIBG-A Neuroendocrine Agent   |
| 03/21/90 | Massachusetts General Hospital, Boston, MA<br>Topics in Skeletal Scintigraphy  |
| 09/12/90 | Medical College of Wisconsin, Madison, WI<br>Diagnostic Strategies in Musculoskeletal Sepsis                             |
| 10/05/90 | Harbor General Hospital, Los Angeles, CA<br>Bone Scintigraphy  |
| 06/05/91 | Gundersen Medical Foundation, Ltd, LaCrosse, WI<br>Musculoskeletal Infections and Use of Nuclear Medicine Techniques     |
| 03/16/93 | University of Maryland, Baltimore, MD<br>Bone Scan and Sports Medicine Trauma  |

- 05/08/94 Columbia University, New York, NY  
Imaging Approach to Musculoskeletal Sepsis
- 05/08/94 13th Annual Philip M. Johnson Memorial Lecture, Columbia University, New York, NY  
Bone Scanning and Sports Medicine
- 03/10/97 11th Annual Daniel R. Bello Memorial Lecture, Mallinckrodt Institute of Radiology,  
Washington University School of Medicine, St. Louis, MO  
The Role of Nuclear Medicine in the Workup of Infections
- 10/23/98 University of Maryland, Baltimore, MD  
Nuclear Medicine Techniques for Complicated Orthopaedic Problems

## TEACHING - Invited Lectures

- 11/13/79 Michigan State Medical Society, Dearborn, MI  
Current Status of Lung Ventilation Perfusion Studies in Pulmonary Embolism
- 01/25/85 American Academy of Orthopedic Surgeons Refresher Courses; Las Vegas, NV  
Radionuclide Imaging of the Musculoskeletal System
- 04/14/85 Cleveland Nuclear Medicine Club, Cleveland, OH  
Clinical Update on Bone Scanning
- 02/14/87 Radiologic Society of Southern California, Indian Wells, CA  
Bone Scanning Evaluation of Metastatic Disease
- 02/14/87 Radiologic Society of Southern California, Indian Wells, CA  
Indium Scanning in Musculoskeletal Sepsis
- 11/02/87 Southern Medical Association, San Antonio, TX  
Overview of SPECT Imaging
- 11/02/87 Southern Medical Association, San Antonio, TX  
Bone Mineral Analysis and Osteoporosis
- 10/04/90 Los Angeles Radiologic Society, Los Angeles, CA  
Nuclear Medicine Studies in Musculoskeletal Sepsis
- 01/24/92 American Society of Gastrointestinal Endoscopy, Washington, D.C.  
Radionuclide GI Bleed Studies
- 03/13/93 Kaiser Permanente Nuclear Medicine Day, Los Angeles, CA  
Bone Scan and Sports Medicine Trauma
- 03/13/93 Kaiser Permanente Los Angeles, CA Imaging in Musculoskeletal Sepsis  
Nuclear Medicine Day
- 03/16/93 Maryland Radiologic Society, Baltimore, MD  
Imaging in Musculoskeletal Sepsis
- 01/15/97 University of Pittsburgh Cancer Institute's Continuing Education Outreach Program  
Latrobe, PA  
New Topics in Nuclear Oncology
- 11/01/01 University of Michigan Medical School, Ann Arbor, MI  
GI Transit Studies  
Grand Rounds: Evaluation of Infection and Inflammation – A Nuclear Medicine  
Perspective

## TEACHING - Society Lectures

- 05/06/78 Minnesota Society of Radiologic Technologists, Rochester, MN,  
Symposium on Radiologic Technology  
New Advances in Nuclear Medicine
- 10/22/78 Central Chapter of the Society of Nuclear Medicine, Ann Arbor, MI  
Special Problems in Pediatric Neoplasia
- 02/22/79 Central Chapter Society of Nuclear Medicine, Chicago, IL  
Meckel's Diverticulum Imaging
- 06/17/82 Society of Nuclear Medicine Refresher Course, Miami, FL  
Skeletal Imaging in Malignant Bone Diseases
- 11/28/82 Radiologic Society of North America Refresher Course, Chicago, IL  
Bone Scintigraphy in Benign and Malignant Diseases
- 11/16/83 Radiologic Society of North America Refresher Course, Chicago, IL  
Bone Scintigraphy in Benign and Malignant Diseases
- 04/05/84 Central Chapter Society of Nuclear Medicine, Indianapolis, IN  
Diagnostic Strategy in Pulmonary Embolism - Bayesian Approach
- 09/30/84 Central Chapter Society of Nuclear Medicine, Rochester, MN  
The White Blood Cell Scan for Musculoskeletal Sepsis
- 05/11/85 Radiologic Society of North America, Chicago, IL  
Refresher Course, Categorical Course in Nuclear Medicine  
Bone Scanning in Malignant Diseases
- 06/21/86 A Special Symposium, Society of Nuclear Medicine, Washington, DC  
Bone Scanning in the Evaluation of Skeletal Metastases
- 06/21/86 A Special Symposium, Society of Nuclear Medicine, Washington, DC  
Infection and Inflammation Disease: A Radionuclide Approach
- 11/12/86 Central Chapter Society of Nuclear Medicine, Chicago, IL  
Potpourri of Pediatric Bone Conditions
- 03/19/87 Central Chapter Society of Nuclear Medicine, Chicago, IL  
Scintigraphy Detection of Primary Malignant Bone Tumors and Bone Metastases
- 12/04/87 Radiologic Society of North America, Chicago, IL  
Bone Imaging
- 04/09/88 Central Chapter Society of Nuclear Medicine, Minneapolis, MN  
Osteomyelitis: What Is It and Can We Make The Diagnosis

- 12/01/88 Radiologic Society of North America, Chicago, IL  
Topics in Skeletal Scintigraphy
- 12/01/88 Radiologic Society of North America, Chicago, IL  
Advanced Imaging of Musculoskeletal Tumors
- 09/10/89 American College of Radiology, Seattle, WA  
Musculoskeletal Sepsis
- 09/26/89 Minnesota Radiological Society, Minneapolis, MN  
Bone Scanning in Primary Metastatic Tumors
- 11/27/89 Radiologic Society of North America, Chicago, IL  
Topics in Skeletal Scintigraphy
- 03/24/90 Society of Nuclear Medicine, Southern California Chapter, Tempe, AZ  
Diagnostic Imaging and Metastatic Bone Disease
- 03/24/90 Society of Nuclear Medicine, Southern California Chapter, Tempe, AZ  
Diagnostic Imaging Evaluation of Osteomyelitis
- 06/20/90 Central Chapter Society of Nuclear Medicine, Washington, DC  
Small Bowel and Colon Transit
- 06/20/90 Central Chapter Society of Nuclear Medicine, Washington, DC  
Indium Leukocytes
- 08/26/90 World Congress of Nuclear Medicine, Montreal Canada  
GI Motility: Small Bowel and Colon Transit
- 05/16/91 Pittsburgh Chapter Society of Nuclear Medicine, Pittsburgh, PA  
GI Transit
- 10/12/91 Pittsburgh Chapter Society of Nuclear Medicine, Pittsburgh, PA  
Radionuclide Peptides in Nuclear Medicine
- 09/14/92 Toronto Nuclear Medicine Society, Toronto, Canada  
Bone Scanning in Sports and Traumatic Injuries
- 09/15/92 Capital Nuclear Medicine Society, Ottawa, Canada  
Bone Scanning in Sports and Traumatic Injuries
- 10/22/92 Society of Nuclear Medicine, Western Regional Meeting, Phoenix, AZ  
Nuclear Imaging in Orthopaedics
- 10/24/92 Society of Nuclear Medicine, Western Regional Meeting, Phoenix, AZ  
Imaging in Musculoskeletal Sepsis

- 03/05/94 Society of Nuclear Medicine, Pittsburgh Chapter, 38<sup>th</sup> Annual Meeting, Warrendale, PA  
Imaging with a Somatostatin Receptor Agent (Octreotide)
- 04/23/94 Sierra Valley Nuclear Medicine 26<sup>th</sup> Annual Spring Symposium, Lake Tahoe, NV  
Imaging Musculoskeletal Infection
- 06/05/94 Society of Nuclear Medicine, 41<sup>st</sup> Annual Meeting, Orlando, FL  
Practical Orthopedic Bone Scanning
- 10/27/95 46th World Congress of Nuclear Medicine, Sydney, Australia  
GI Nuclear Medicine: Transplantation/Receptor/PET
- 12/4/96 Radiological Society of North America, Chicago, IL  
Categorical Course: Bone Scintigraphy in Oncologic Disease
- 06/09/98 Society of Nuclear Medicine, Toronto, Canada  
Correlative Imaging - Read with the Experts
- 10/03/98 Society of Nuclear Medicine, Pittsburgh, PA  
Lung Scintigraphy
- 10/02/99 Los Angeles Radiological Society, Los Angeles, CA  
Radionuclide Evaluation of Musculoskeletal Infection  
Palliative Bone Therapy in Metastatic Bone Disease
- 11/26/00 Radiological Society of North America, Chicago, IL  
Advancement in Musculoskeletal Nuclear Medicine
- 06/25/01 Society of Nuclear Medicine, Toronto, Canada  
Abdominal Imaging
- 11/30/01 Radiological Society of North America, Chicago, IL  
Refresher Course: Advanced Musculoskeletal Nuclear Imaging
- 09/20/02 American Society of Clinic Radiologists, Rochester, MN  
Incentive Models and Productivity Measures
- 05/03/03 Society of Nuclear Medicine Central Chapter Annual Meeting, Detroit, MI  
Radionuclide Evaluation of the Painful Prosthesis
- 05/27/03 Latinoamericana de sociedades de Biología y Medicina Nuclear, Cancun  
Case Reports: Bone Scan  
Plenary Lecture: The Painful Hip Arthroplasty
- 05/27/03 Latin American Society of Nuclear Medicine  
Plenary Lecture: Risks in the Interpretation of Bone Images  
Controversies: Bone P.E.T.

- 01/16/10 Midwest Chairs, Chicago, IL  
Conflict of Interest/Industrial Relationships – Michigan
- 09/24/10 SCARD, Quebec Canada  
Conflict of Interest and Industrial Relationships
- 01/15/11 Midwest Chairs, Chicago, IL  
Hospital Support for Practice Plans/Outside Exams
- 05/06/11 ACR Forum, Reston VA  
Generational Differences and the Future of Radiology
- 01/08/16 Midwest Chairs, Chicago, IL  
Capital Equipment Budgeting
- 01/08/16 Midwest Chairs, Chicago, IL  
Imaging 3.0
- 01/09/16 Midwest Chairs, Chicago, IL  
Lessons From Your Elders
- 01/06/17 Midwest Chairs, Chicago, IL  
Population Health – What it Really Means to an Academic Radiology Department
- 10/12/18 SCARD, Santa Fe, NM  
Challenges fir the Chair: Disruptive Faculty and the High Road of Professionalism
- 04/09/19 AUR, Baltimore, MD  
Academic – Industry Roundtable
- 01/10/20 Midwest Chairs, Chicago, IL  
Who Owns Follow-Up?: Handoff+1
- 01/08/21 Midwest Chairs, Virtual (Chicago, IL)  
The Virtual Interview

**TEACHING - Refresher or CME Courses**

- 10/07/77 Kodak Research Labs, Rochester, NY  
Nuclear Medicine Instrumentation
- 01/11/78 Franciscan Forum Rock Island, IL  
Inhalation Perfusion Scanning
- 02/21/79 University of Michigan Medical Center, Ann Arbor, MI  
Peripheral Vascular Circulation

- 09/21/79 Medical College of Wisconsin, Milwaukee, WI  
New Developments in Gastric Emptying Testing
- 03/25/80 American Association of Critical Care Nurses, Rochester, MN  
Radiation Exposure and Risks in Perspective
- 05/01/80 Nuclear Radiology Workshop, University of Michigan Medical Center, Ann Arbor, MI  
Current Status of Lung Ventilation Perfusion Imaging
- 05/01/80 Nuclear Radiology Workshop, University of Michigan Medical Center, Ann Arbor, MI  
Skeletal Imaging in Benign and Malignant Disease
- 10/09/81 Medical College of Georgia, Augusta, GA  
Radiation Risks in Perspective
- 05/08/82 Nuclear Radiology Workshop, Ann Arbor, MI  
Skeletal Imaging in Benign and Malignant Disease
- 04/21/87 11th Annual Clinical Nuclear Post-Graduate Course, Harvard University  
Indium-111 Labeled White Blood Imaging
- 04/21/87 11th Annual Clinical Nuclear Post-Graduate Course, Harvard University  
Bone Mineral Analysis
- 04/22/87 11th Annual Clinical Nuclear Post-Graduate Course, Harvard University  
Imaging Malignant Bone Disease
- 04/22/87 11th Annual Clinical Nuclear Post-Graduate Course, Harvard University  
Imaging Benign Bone Disease
- 03/28/89 12th Annual Clinical Nuclear Post-Graduate Course, Harvard University  
SPECT-Principles and Concepts
- 03/28/89 12th Annual Clinical Nuclear Post-Graduate Course, Harvard University  
Imaging and Therapy for Thyroid Cancer
- 03/28/89 12th Annual Clinical Nuclear Post-Graduate Course, Harvard University  
Introduction to GI Transit Studies
- 03/29/89 12th Annual Clinical Nuclear Post-Graduate Course, Harvard University  
Introduction to GI Transit Studies
- 03/30/89 12th Annual Clinical Nuclear Post-Graduate Course, Harvard University  
Bone Scanning for Malignancy
- 03/30/89 12th Annual Clinical Nuclear Post-Graduate Course, Harvard University  
Imaging and Therapy for Thyroid Cancer
- 03/31/89 12th Annual Clinical Nuclear Post-Graduate Course, Harvard University



## The Bone Scan and Osteomyelitis

- 03/31/89 12th Annual Clinical Nuclear Post-Graduate Course, Harvard University  
Bone Imaging and Malignant Disease
- 02/22/90 American Association for Medical Transcription, Rochester, MN  
Overview of Medical Transcription
- 02/15/92 Pitt Radiology 1992, Pittsburgh, PA  
Radionuclide Evaluation of Musculoskeletal
- 02/16/92 Weekend Update  
Sepsis
- 04/13/92 Clinical Nuclear Medicine: 1992, Harvard University  
The Bone Scan in Sports Medicine
- 04/13/92 Clinical Nuclear Medicine: 1992, Harvard University  
The Bone Scan in Common Malignancies
- 04/14/92 Clinical Nuclear Medicine: 1992, Harvard University  
In-111 WBC's and Ga-67 in Clinical Practice
- 05/14/94 Mayo Clinic, Rochester, MN  
Advances in PET Research at UPMC

## RESEARCH

### 1. Grants

Co-investigator, 30C334-National Institutes, Gastrointestinal Functions: Neuropeptidergic Control, 1984-1989.

Principle investigator, 040-86, General Electric (Commercial), Multicenter Evaluation of Quantitative Thallium-201, 1986-1987.

Co-investigator, Janssen Grant #7, (Commercial), 1984.

Co-investigator, Kodak (Commercial), "Detection Accuracy in Computerized Tomography and Nuclear Medicine: FROC, Free Response Operating Characteristics, 1977-1982.

Multi-center study of intravenously administered  $^{111}\text{In}$  CYT 356 in the imaging of prostate cancer in patients undergoing staging lymphadenectomy (356IN15). T. Hakala, G. Levine (co-principal investigators), M.L. Brown, H.A. Klein, L. Miketic (co-investigators), Cytogen Corporation, Princeton, NJ, (\$3400/patient).

Detection of Occult Colorectal Carcinoma by Multiple Diagnostic Imaging of Fab  $^1$  Fragment of the Anti-CEA Antibody IMMU-4 Labeled with Tc99m (92-93, 1018A). R. Herberman, G. Levine (Co-principal Investigators), M.L. Brown, L. Miketic, D. Trump, M. Posner, D. Smith, M. Lotze (co-investigators), Geoffrey Levine, Ph.D. Project Coordinator with Immunomedics and Liaison with the PCI. Immunomedics, Inc., Warren, NJ, March 1993-1994 (\$2,000/patient), March 1994-1995.

A Multi-center Clinical Study Using a Technetium Labeled Monoclonal Antibody for Imaging Patients with Small Cell Lung Cancer (92-93). G. Levine (Principal Investigator), M. Levitt, M.L. Brown, D. Trump, D. Smith. L. Miketic (co-investigators). NeoRx Corporation, Seattle, WA 1993 (\$3,475/patient).

Evaluation of the Safety and Efficacy of  $^{99\text{m}}\text{Tc}$  Labeled Anti-Granulocyte Antibody Fab $^1$  Fragment (Immu-MN-3) for the Diagnosis of Osteomyelitis in Patients with Diabetic Foot Ulcers. S. Conti, G. Levine, M.L. Brown, L. Miketic, D. Trump, R. Herberman (co-investigators). Immunomedics, Inc., Morris Plains, NJ, 1993-1994, 1994-1995.

An Open-Labeled, Multi-Center, Clinical Study Assessing the Safety and Efficacy of Indium In-111 Pentetretotide in Patients with Hodgkin and Non-Hodgkin Lymphoma. Brown ML (PI), Lister J, Swanson D, Ragni M, Bontempo F, Miketic L (co-investigators) - source Mallinckrodt Medical, 1994 (\$2,090.79/patient).

An Open Label Multicenter Trial to Investigate the Diagnostic Accuracy of Technetium Tc-99m Sestamibi Scintigraphic Images in Identifying Malignant Breast Lesions. Brown ML (PI), Harris K, Sumkin J, etc. - source DuPont Merck Pharmaceuticals, Inc., 1994-1995 (\$1,580.00/patient).

A Pilot Trial of Tc-99m Sestamibi with Cyclosporine A and Vinblastine in Patients with Advanced Cancer: An Assessment of Functional Imaging of MDR Modulation. Smith D. (PI), Brown ML, Swanson D, Trump D, Mintun M. - source DuPont Merck Pharmaceuticals, Inc., 1994-1995 (\$13,433.00).

Optimizing TSH Suppression in the Treatment of Well Differentiated Thyroid Cancer. Lynn A. Burmeister, M.D. (PI), Manuel L. Brown, M.D. (Co-Investigator), Boots Pharmaceuticals, 1/95 - 12/95 Extended through 9/98 (\$31,436.00).

Glycophorin A Biodosimetry in I-131 Treated Patients. William Bigbee, M.D. (PI), Manuel Brown, M.D. (Co-Investigator), NIH grant, 9/94 - 9/97 Extended through 9/98(\$230,127).

A combined PET and X-ray CT Tomograph for Clinical Use. David W. Townsend (PI), Manuel L. Brown, M.D. (Co-Investigator), NIH grant, 7/95 - 6/98 (\$1,010,303.00)

A Multicenter, Within-Patient Clinical Study to Evaluate the Safety and Efficacy of Technetium Tc-99m P829 for Detection and Localization of Somatostatin Receptor-Expressing Neuroendocrine Tumors. Manuel L. Brown, M.D. (PI), Martin Charron, M.D., Sally E. Carty, M.D., C. Watson, M.D., Brian I. Carr, M.D., A. M. Harrison, M.D., J. W. Marsh, M.D., J. D. Luketich, M.D. Diatide.

A Multicenter Study Evaluating the Safety and Efficacy of Technetium Tc99m P829 for the Detection and Localization of Malignant Melanoma. Manuel L. Brown, M.D. (PI), John M. Kirkwood, M.D., Martin Charron, M.D., Dennis P. Swanson, M.S., Sanjiv Agarwala, M.D., Rubin Sheng, M.D., MPH, Daniel D. Littlefield, R.Ph., M.B.A., Howard C. Stoops, R.Ph., BCNP. Diatide

A Multicenter Trial to Characterize Lesions Which Were Not Detected by Physical Examination or Mammography but Which Were Identified by Technetium Tc 99m Sestamibi Scintigraphic Images of DuP 843-044 and DuP843-045. Manuel L. Brown, M.D. (PI). DuPont Merck Pharmaceuticals, Inc.

Center of Excellence in Radiation Science Post Doctoral Fellowship Program. Niel Wald (PI), William Bigbee, M.D. (Co-Investigator), Manuel Brown, M.D. (Research Rotation Mentor). Department of Energy, 5/97 - 4/2002 (\$598,998.00).

Imaging of Pediatric Inflammatory Bowel Disease with a Tc-99m Antigranulocyte Monoclonal Antibody. Martin Charron, M.D. (PI), Manuel Brown, M.D. (Co-Investigator). Grant #IM-D-NM3-21, Immunomedics Inc. New Jersey, 8/98-.

National Emphysema Treatment Trial. Robert Keenan, M.D. (PI), Frank Sciruba, M.D., (Co- PI), Manuel L. Brown, M.D. (Co-Investigator).IRB#971012, 1 of 17 sites of this Multi-Center Trial, HICFA. 1/98-2002.

Development of Target Ultrasound Contrast Agents for the Echocardiographic Assessment of Endothelial Functions. Flordeliza Villanueva, M.D. (PI), Manuel L. Brown, M.D.(Collaborator). Established Investigator Grant, American Heart Association, January 1, 2001 – 2004 (\$75K/year)

IND Evaluations:

99mTc-PYP RBC Mallinckrodt  
131I-MIBG University of Michigan-Mayo Funded  
99mTc-RP 30A NEN Dupont  
111In-WBC Mayo - Mayo Funded  
111In-Platelets Mayo - Mayo Funded  
99mTc-NRML05 MoAb NeoRx  
99mTc LU10 MoAb NeoRx  
111In-OTLV3 MoAb Centecor  
99mTcSC Veegum Mayo - Mayo Funded  
99mTc-Sn antimony  
sulfur colloid Cadema - Mayo Funded  
99mTc-Amberlite IRA-410  
Pellets Mayo - Mayo Funded  
111In-Amberlite IR-120 Plus  
Pellets Mayo - Mayo Funded  
131I-MIBG Mayo - Mayo Funded  
123I-SMS 204-090 Mayo - Mayo Funded  
99mTc-Lu10 NeoRx  
111In Somatostatin Mallinckrodt  
111In CYT 356 Cytogen  
Immu-MN-3 Immunomedics  
99mTc-Sestamibi DuPont  
99mTc P829 Diatide

## SERVICE

### 1. University and Medical School

#### **Mayo**

Institutional:

IRB, 1978 - 1979, 1983 - 1984

Radiation Control Committee, 1978 - 1981, Chairman 1980 - 1981

Clinical Update, Editorial Board, 1980 - 1984

Systems Imaging Task Force, 1986 - 1991

Systems Imaging Committee, Chairman 1988 - 1991

PET Imaging Task Force (Chairman)

Cancer Research Committee, 1986-1987

#### **Mayo**

Department:

Radiology Education Committee, 1977 - 1981

Director, Nuclear Radiology Residency, 1977 - 1991

Clinical Practice Committee

Executive Committee, 1988 - 1991

#### **University of Pittsburgh Medical Center**

Institutional:

PET Task Force, 1991

Cancer Committee, 1991-1995

Cross-functional Services Committee, Member, 1995-1998

Board of Directors of Central Imaging Services, Inc., 1993-2001

Board of Directors of Health Center Development, Inc., 1993-2001

UPMC Scheduling/Testing Task Force Committee, Member, 1993-1995

UPMC Scientific Advisory Committee Functional Imaging Research Committee,  
Member, 1994-2001

UPMC Vista Executive Committee, Member, 1994-1995

UPMC Credentials Committee, Member, 1994- 2000

UPMC Total Quality Council, Member, 1994-1995/1998-2001

UPMC Non-Tenured Faculty Promotions & Appointments, 1995–1998, Chair 1998-1999

UPMC-PUH Medical Executive Committee, Member, 1997-2001

UPMC-PUH Vice President of the Medical Staff, 1997-1999

UPMC-PUH Leadership Committee, Member, 1997-1999

UPMC-PUH Medical Staff Bylaws Committee, Chairman, 1998-2000

UPMC-PUH Credentials Committee, Member, 1997-2000

UPMC-PUH Credentials Task Force, Chairman 1998

UPMC Cancer Committee, Member, 1998-2001

UPMC Cancer Quality Improvement Committee, Member, 1998-1999

UPMC Tristate Credentials Committee, 1998-2001

UPMC Alliance Diagnostics Venture, LLC, Chief Medical Officer, 1999-2001

UPP Clinical Operations Committee, 1999- 2001

UPMC Radiation Safety Committee, Member, 2000 - 2001

Department:

Department of Radiology Computer Committee  
Radiology Resident Education Committee  
Radiology Operations Committee  
Radiology Academic Division Chiefs Committee

## **Henry Ford Health System**

### **HFHS:**

Operations Management Committee

Leadership Execution and Planning

Henry Ford Health System Board of Trustees 2008-2010

Henry Ford Health System Board of Trustees Quality Committee 2008-2010

Henry Ford Health System Board of Trustees 2014-2015

Henry Ford Health System Board of Trustees Quality Committee 2014-2015

Henry Ford Health System Board of Trustees Finance Committee 2014-2015

Henry Ford Hospital Board of Trustees 2014-2015

Henry Ford West Bloomfield Hospital Board of Trustees 2015

Co-Chair, System Radiology Alignment/Integration Task Force

Medical Leader HFHS Radiology Product Line

HFHS Vendor Policy Committee

HFHS Conflict of Interest Task Force

Chair, Philanthropy/Community Giving, Professional Group Campaign (Past)

### **HFMG/HFH:**

Chairs' Council

Clinical Practice Steering Committee

Henry Ford Medical Group Executive Committee

Josephine Ford Cancer Center Executive Committee (Past)

Heart and Vascular Institute Operations Committee (Past)

Neuroscience Institute, Executive Committee

Henry Ford Medical Group Board of Governors 2006- present

HFMG BOG Human Resources Committee (Past)

Vice Chair 2012-2013  
Chair 2014-2015  
PAST-Chair 2016-2017  
Medical Staff Quality Committee  
Salary Management Committee  
Space Committee  
Finance Committee  
Salary Management Committee  
Multidisciplinary Provider System Council

New Technology Assessment Committee (Past)  
Telemedicine Task Force, Co-Chair

Hospital Medical Executive Committee (HMEC)

Research Committee (Past)  
Detroit Campus Space Committee  
South of the Boulevard Development Team

Surgical Department Review Committee (Past)  
Orthopedic Surgery Department Review Committee (Past)

Department of Internal Medicine Chair Search Committee (Past)  
Department of Emergency Medicine Chair Search Committee (Past)  
Chair, Department of Neurology Chair Search Committee (Past)  
Chair, Division of Cardiology Search Committee (Past)  
Chair, Department of Neurosurgery Chair Search Committee (Past)  
Chair, Department of Dermatology Chair Search Committee

## 2. Consulting Positions

Yearbook Medical Publishers, 1982 - 1983

Hoechst-Roussel Pharmaceutical, 1982

Ad Hoc Member of site Visit Team for General Clinical Research Centers  
National Institutes of Health, 1983

Editorial Board, Journal of Nuclear Medicine, 1990 - 1995

Reviewer:

Journal of Nuclear Medicine  
Radiology  
Gastroenterology  
Digestive Diseases and Science  
Gynecologic Oncology  
AJR

