

CURRICULUM VITAE

Name: Frans J. Th. Wackers, M.D, Ph.D.

Education:

1945-1951 Primary School, Amsterdam, The Netherlands
1951-1958 Secondary School, The Hague, The Netherlands
1958-1965 University of Amsterdam, School of Medicine, Med Drs.
1965-1970 University of Amsterdam, School of Medicine, MD, PhD

Career:

1963 Student-Research Associate, Laboratory of Pathological Anatomy, (Prof. J.F. Hampe, Prof. C.A. Wagenvoort)
University of Amsterdam, Amsterdam, The Netherlands

12/64-06/65 Research Associate, Laboratory of Pathological Anatomy,
National Cancer Institute, "Antoni van Leeuwenhoekhuis"
Amsterdam, The Netherlands

1964-1968 Chairman, Medical Education Committee,
Association Medical Students (MFAS), University of Amsterdam

06/65-06/66 Rotating internships: University Hospital Amsterdam,
Wilhelmina Gasthuis, Amsterdam, The Netherlands

09/66-02/69 Research Associate, Laboratory of Pathological Anatomy
University of Amsterdam, Amsterdam, The Netherlands

09/66-02/67 Specia Scholarship. Institut Gustave Roussy, Villejuif, France
(Professor G. Vogt-Hoerner. MD)

03/69-03/70 Rotating Internship: University of Amsterdam School of Medicine,
Amsterdam, Netherlands

04/70 Doctoral Thesis (PhD): University of Amsterdam School of Medicine.

06/70 Graduation, University of Amsterdam, School of Medicine, (M.D.)

09/70-02/72 Military Service, Medical Officer.
Chief, General Medicine Department
Dutch Commando Troops
Roosendaal, The Netherlands

03/72-02/74 Internal Medicine Residency
Department of Internal Medicine

(Prof. Koster, Prof. Vreken)
Wilhelmina Gasthuis
University of Amsterdam, Amsterdam, The Netherlands

- 03/74-03/77 Cardiology Fellowship
Department of Cardiology
(Prof. Durrer, Prof. Wellens)
Wilhelmina Gasthuis
University of Amsterdam, Amsterdam,
The Netherlands
- 04/77-06/77 Cardiology Consultant, Department of Cardiothoracic Surgery
Wilhelmina Gasthuis
University of Amsterdam, Amsterdam,
The Netherlands
- 07/77-07/81 Assistant Professor of Medicine and Diagnostic Radiology
Yale University School of Medicine
Department of Internal Medicine, Cardiology Section
New Haven, Connecticut, USA
- 07/81-03/84 Associate Professor of Medicine and Radiology
Director, Nuclear Cardiology
University of Vermont College of Medicine
Department of Medicine, Cardiology Section
Medical Center Hospital of Vermont
Burlington, Vermont, USA
- 04/84-1986 Associate Professor of Diagnostic Radiology
and Medicine (Tenured)
Yale University School of Medicine, New Haven, Connecticut
- 04/84-12/05 Director, Cardiovascular Nuclear Imaging
Department of Diagnostic Imaging, Nuclear Medicine Section
and Department of Medicine, Cardiology Section
Yale University School of Medicine, New Haven, Connecticut 06510
- 1984–present Director, Radionuclide Core Laboratory
Yale University School of Medicine
- 09/85-12/05 Director, Exercise Laboratory, Yale University School of Medicine
- 07/86-12/07 Professor of Diagnostic Radiology and Medicine (Tenured)
Yale University School of Medicine, New Haven, Connecticut
- 10/99–12/05 Co-Director, Chest Pain Center
Section of Emergency Medicine, Department of Surgery
Yale-New Haven Hospital

01/08 Professor Emeritus of Diagnostic Radiology and Medicine
Yale University School of Medicine, New Haven, Connecticut

01/08-present Senior Research Scientist, Department of Medicine
Yale University School of Medicine, New Haven, Connecticut

Degrees and Licenses

04/70 Doctoral degree (Ph.D); University of Amsterdam

06/70 Dutch Medical License; University of Amsterdam

01/77 ECFMG: Certificate # 278-266

03/79 U.S. Medical License: Connecticut: #20985

08/81 U.S. Medical License: Vermont: #42-000662

1996 Yale University Managing Performance Seminars

Board Certification:

03/77 Royal Netherlands Medical Association Registration of Medical Specialists in
Specialty of Cardiology; Recertification: valid through Nov 15 2008.

10/96 Certification Council of Nuclear Cardiology, Certification Nuclear Cardiology,
Certificate #1, recertification October 2006.

Memberships/Professional Societies:

1968 Founder Vereniging Botterbehoud (The Netherlands)

01/77 Fellow, American College of Cardiology (emeritus 2008)

1977 Member, American Federation of Clinical Research

01/79 Member, Society of Nuclear Medicine #106061

1993 American Society of Nuclear Cardiology

12/93 Founding Member, American Society of Nuclear Cardiology

1996 Certification Council of Nuclear Cardiology (1996)(later renamed: Certification Board of
Nuclear Cardiology)

1997 Intersocietal Commission for Accreditation of Nuclear Laboratories-Nuclear Cardiology
Nuclear Medicine

2001 Member, European Society of Cardiology

2001 Member, Netherlands Society of Cardiology

2003 Fellow, American Heart Association (emeritus 2008)

Awards and Honors:

09/66-02/67 SPECIA Student Scholarship Institut Gustave Roussy, Villejuif, France

06/76 Society of Nuclear Medicine, Best Scientific, Abstract

1982-1986 Member, Editorial Board, Journal of American College of Cardiology

1984-present Listed in: Who's Who in Frontier Science and Technology (Marquis)

01/87 Honorary Degree - MA, Yale University

1988-1992 Member, Board of Directors, Cardiovascular Council, The Society of Nuclear Medicine

10/88 Rescar Award, University of Limburg, The Netherlands

1989-1993 Member, Committee on Advanced Imaging and Technology, American Heart Association

1992-1993 President, Cardiovascular Council, The Society of Nuclear Medicine, 1992-1993.

11/93 Founder, of the American Society of Nuclear Cardiology, New Orleans.

1993-present Member, Board of Directors, American Society of Nuclear Cardiology.

1991-1995 Member, Editorial Board, Journal of American College of Cardiology.

1992-present Listed in: The Best Doctors in America(Woodward/White, Inc, publishers)

1993-2004 Associate Editor, Journal of Nuclear Cardiology

2004-present Member, Editorial Board, Journal of Nuclear Cardiology.

1993-2000 Chairman, Training and Credentialing Committee, The American Society of Nuclear Cardiology

1993-1994 Sub-chairman Scientific Program Committee, Society of Nuclear Medicine.

1994-1996 Vice-chairman Scientific Program Committee, Society of Nuclear Medicine.

1994-1995 President, The American Society of Nuclear Cardiology.

1994-present Listed in: Men and Women of Science

1994-1999 Yale Medical Library Committee

1995-present Member, Editorial Board, American Journal of Cardiology

06/95 Herrman L. Blumgart Lectureship Award, New England Chapter of the Society of Nuclear Medicine

1995-present Listed In Who's Who in the East (Marquis), 1995-present

03/96 Founder, Certification Council of Nuclear Cardiology (CCNC), Orlando, Florida.

1996-1997 President, Certification Council of Nuclear Cardiology

1996-2007 Member, Board of Directors, Certification Council of Nuclear Cardiology

06/96 Listed in The Best Doctors in Connecticut. Connecticut Magazine

1996-present Listed in the Best Doctors in America: Northeast Region

1997-present Listed In Who's Who in Medicine and Healthcare (Marquis)

10/97 Homi Baba Award, Indian Nuclear Cardiological Society, Mumbai, India

1997 Founder, Intersocietal Commission for the Accreditation of Nuclear Laboratories (ICANL), Orlando, Florida

1997-2006 President, Intersocietal Commission for the Accreditation of Nuclear Laboratories Nuclear Cardiology.

1997-2007 Member, Board of Directors, Intersocietal Commission for the Accreditation of Nuclear Laboratories (ICANL).

02/99 Eugene Drake Award, American Heart Association, Maine

03/99 Distinguished Service Award, The American Society of Nuclear Cardiology

1999-2000 President, Intersocietal Accreditation Commission (IAC)

07/00 Editorial Consultant, Journal of the American College of Cardiology (JACC)

03/00 Member, Human Investigation Committee, Yale University School of Medicine

10/00-10/01 Member, ACC Ad hoc Task Force to Plan a Cardiac Catheterization Laboratory Evaluation/CQI tool

03/01-03/04 Member, ACC Learning Center Committee

03/00-03/03 Chairman, Continuing Medical Education Committee ASNC

04/03 Fellow, American Heart Association, Council on Clinical Cardiology

04/03 Co-Chair, Sixth International Conference of Nuclear Cardiology (ICNC-6), Florence, Italy

2003 European Board for the Specialty of Cardiology, European Cardiologist

05/05	Annual Scientific Meeting, New York, NY Co-Chair, Seventh International Conference of Nuclear Cardiology (ICNC-7), Lisbon, Portugal
10/04	Wenckebach Lecturer, Netherlands Society of Cardiology
09/04	Third Mario S. Verani, M.D. Memorial Lecturer, Am Soc Nuc Cardiology
1992-2006	Best Doctors in America
11/06	Fifth Mario Verani Lecturer, Methodist DeBakey Heart Institute, Houston, Texas
2008	Guide to America's Top Physicians, 2008 Edition
2008	Professor Emeritus, Yale University School of Medicine.
2009	Fellow, Henry Koerner Center for Emeritus Faculty
01/10	Elite Reviewer Journal of the American College of Cardiology 2009.
10/10	Editorial Consultant Journal of the American College of Cardiology.

Publications:

1. Wackers FJTh: Werkplan Kernopleiding. MFAS, Amsterdam (Report on Medical Education), October 1965
2. Wackers FJTh: Het "Werkplan Kernopleiding" van de Medische Faculteit der Amsterdamse Studenten. ("Working-plan Core-Education" of the Amsterdam Medical Students). Ned T Geneesk 110, 1:34-37, January 1966
3. Wackers FJTh: Feedback, rapport over didactiek en communicatie student- docent tijdens de medisch opleiding. MFAS, Amsterdam. (Report on Medical Education), 1967
4. Wackers FJTh, Vogt-Hoerner G: Presence d'une bionecrose locale dans la couche intra-epitheliale des acini de la glande mammaire humaine. (Local necrosis in the epithelium of the acini of the human breast). Ann Anat Pathol 12, 1:21-34, 1967
5. Wackers FJTh: Een intraepitheliale necrose in de menselijke mamma. (Intraepithelial necrosis in the human breast). 17e Jaarboek voor. Kankeronderzoek en Kankerbestrijding. Nederland, 49-58, 1967
6. Wackers FJTh: Bevindingen aan menselijke mammaweefsel bij de vrouw. De morfologie van de lobulus. (The human female breast. Morphology of the lobule). Ned T Geneesk 112, 23:1100-1110, 1968
7. Wackers FJTh, Hampe JF, van der Schoot JB: Primair leiomyosarcoom van de truncus pulmonalis. (Primary leiomyosarcoma of the pulmonary trunk). Ned T Geneesk 112, 47:2169-2170, 1968
8. Wackers FJTh, van der Schoot JB, Hampe JF: Sarcoma of the pulmonary trunk associated with hemorrhagic tendency. A case report and review of the literature. Cancer 23, 2:339-351, 1969

9. Wackers FJTh: Normale menselijke mamma en relatie tot mastopathie. Morfologische studies. (The normal human breast and relationship to cystic disease. Morphological studies). Thesis. University of Amsterdam, 1970
10. Wackers, FJTh: Normale menselijke mamma en relatie tot mastopathie. Morfologische studies. (The normal human breast and relationship to cystic disease. Morphological studies). 20e Jaarboek v. Kankeronderzoek en Kanker-bestrijding. 239-241, 1970
11. Wackers FJTh: Het dragen van contactlenzen tijdens de Commando opleiding en het Valschermspringen. (The wearing of contact lenses during commando training and parachute jumping). Ned Milit Geneesk T 24:266-269, 1971
12. Wackers FJTh, Tijtgat GN, Vreeken J: Necrotizing vasculitis and ulcerative colitis. BriMed J 4:83-84, 1974
13. Wackers FJTh, van der Schoot JB, Busemann Sokole E, Samson G, van Niftrik GJC, Lie KI, Durrer D, Wellens HJJ: Noninvasive visualization of acute myocardial infarction in man with thallium-201. Brit Heart J 37:741-744, 1975
14. van der Schoot JB, Busemann Sokole E, Samson G, van Niftrik GJC, Wackers FJTh: Myocardial scintigraphy with thallium-201. Proceedings 13. Internationale Jahrestagung der Gesellschaft für Nuclear medizin E.V. 59.1-59.5, 1975
15. Wackers FJTh: Myocardscintigrafie. (Myocardial scintigraphy). Ned T Geneesk 120:620-621, 1976.
16. Lie KI, Durrer D, Wackers FJTh: Moderne hartbewaking, een kostenbewuste benadering. (Modern coronary care, a cost-conscious approach). Ned T Geneesk 120:1016, 1976.
17. Wackers FJTh, Busemann Sokole E, Samson G, van der Shoot JB, Lie KI, Liem KL, Wellens HJJ: Value and limitations of thallium-201 scintigraphy in the acute phase of myocardial infarction. New Engl J Med 295:1-5, 1976
18. Wackers FJTh, Busemann Sokole E, Samson G, van der Schoot JB, Wellens HJJ: Myocardial imaging in coronary heart disease with radio-nuclides, with emphasis on thallium-201. Europ J Cardiol 4/3:273-282, 1976
19. Wackers FJTh: Myocardial scintigraphy. Medica Mundi 21:201, 1976
20. Wackers FJTh, De Jong RBJ: Myocardial imaging with thallium-201. Medica Mundi 21:103-113, 1976
21. Wackers FJTh, Busemann Sokole E, Samson G, van der Schoot JB, Lie KI, Liem KL, Durrer D, Wellens HJJ: Myocardscintigrafie bij patienten met acute en chronische coronaire insufficiëntie. (Myocardial scintigraphy in patients with acute and chronic coronary insufficiency). Ned T Geneesk 49:2151-2156, 1976

22. Wackers FJTh, Lie KI, Becker AE, Durrer D, Wellens HJJ: Coronary artery disease in patients dying from cardiogenic shock or congestive heart failure in the setting of acute myocardial infarction. *Brit Heart J* 38:906-910, 1976
23. Samson G, Wackers FJTh, Becker AE, Busemann Sokole E, van der Schoot JB: Distribution of thallium-201 in man. In: *Nuklear Medizin. Verhandlungs Bericht der 14 Internationalen Jahrstaging der Gesellschaft für Nuclear Medizin, Berlin, 14-18, September 1976, Band I.* also: *Nuklear Medizin* 1:385-389.
24. Wackers FJTh, Busemann Sokole E, Samson G, van der Schoot JB, Lie KI, Durrer D, Wellens HJJ: thallium-201 for visualization of acute myocardial infarction in the presence of left bundle branch block. *Herz* 2:163-166, 1977
25. Trobaugh GB, Wackers FJTh, Sokole EB, DeRouen TA, Ritchie JL, Hamilton GW: Thallium-201 myocardial imaging: An interinstitutional study of observer variability. *J Nucl Med* 19:359-363, 1977
26. Wackers FJTh, Busemann Sokole E, Samson G, van der Schoot JB: Atlas of 201-Tl Myocardial Scintigraphy. *Clin Nucl Med* 2:64-74, 1977
27. Wackers FJTh, Becker AE, Samson G, Busemann Sokole E, van der Schoot JB, Vet AJTM, Lie KI, Durrer D, Wellens HJJ: Location and size of acute transmural myocardial infarction estimated from thallium-201 scintiscans. A clinicopathological study. *Circulation* 56:72-78, 1977
28. Wackers FJTh, Liem KL, Lie KI, Sokole EB, Samson G, van der Schoot JB, Durrer D: The value of thallium-201 scintigraphy in early myocardial infarction: In: *The first 24 hours in myocardial infarction. International Symposium, Vienna, Jun 16-18, 1977.* Edited by F. Kaindl, O. Pachinger, P. Probst Verlag Gerhard Witzstrock-Baden-Baden-Koln-New York, 81-82, 1977
29. Vreeken J, Tijtgat GN, Wackers FJTh, de Groot, WP: Inflammatory Bowel Disease: Cutaneous manifestations. *Comprehensive Therapy* 4:20-24, 1978
30. Wackers FJTh, Lie KK, Liem KL, Sokole EB, Samson G, van der Schoot JB, Durrer D: Thallium-201 scintigraphy in unstable angina pectoris. *Circulation* 57:738-742, 1978
31. Wackers FJTh, Lie KI, Sokole EB, Res R, van der Schoot JB, Durrer D: Prevalence of right ventricular involvement in inferior wall infarction, assessed with myocardial imaging with thallium-201 and 99m-Tc-Pyrophosphate. *Am J Cardiol* 42:358-362, 1978
32. Wackers FJTh, Sokole EB, Samson G, van der Schoot JB: Anatomy of the normal myocardial image. In: *Thallium-201 Myocardial Imaging (Chapter 4)* ed. J.L. Ritchie, Raven Press, New York, 1978
33. Wackers FJTh, Sokole EB, Samson G, van der Schoot JB, Lie KI, Wellens HJJ: Acute myocardial infarction imaging. In: *Thallium-201 myocardial imaging (chapter 6)* ed. J.L. Ritchie, Raven Press, New York, 1978
34. Wackers FJTh, Sokole EB, Samson G, van der Schoot JB: Imaging in non-coronary

- heart disease. In: Thallium-201 myocardial imaging (chapter 9) ed. J.L. Ritchie, Raven Press, New York, 1978
35. Wackers FJTh, Lie KI, Liem KL, Sokole EB, Samson G, van der Schoot J, Durrer D: Potential value of thallium-201 scintigraphy as a means of selecting patients for the Coronary Care Unit. *Brit Heart J* 41:111-117, 1979
 36. Johnstone DE, Wackers FJTh, Berger HJ, Hoffer P, Kelley MJ, Gottschalk A, Zaret B: Effect of patient positioning on left lateral thallium-201 images. *J Nucl Med* 20:183-188, 1979
 37. Wackers FJTh, Berger HJ, Johnstone DE, Goldman L, Reduto LA, Langou RE, Gottschalk A, Zaret BL: Multiple gated cardiac blood pool imaging for left ventricular ejection fraction: validation of the technique and assessment of variability. *Am J Card* 43:1159-1166, 1979
 38. Wackers FJTh: Myocardial imaging in the diagnosis of myocardial ischemia and acute myocardial infarction. *Practical Cardiology*. 5:45-59, 1979
 39. Reduto LA, Berger HJ, Johnstone DE, Hellenbrand W, Wackers FJTh, Whittemore R, Cohen LS, Gottschalk A, Zaret BL: Radionuclide assessment of right and left ventricular exercise reserve following total correction of tetralogy of Fallot. *Am J Card* 45:1013-1018, 1980
 40. Wackers FJTh: Thallium-201 and Technetium-99m-Pyrophosphate Myocardial Imaging in the CCU. Martinus Nijhoff Medical Division, The Hague, London, Boston, 1980
 41. Wackers FJTh: Current status of radionuclide imaging in the management and evaluation of patients with cardiovascular disease. In: *Advances in Cardiology: Current Concepts in Clinical Cardiology*. 27:40-50, 1980
 42. Wackers FJTh: Radionuclide evaluation of patients in the coronary care unit. In: *Advances in Cardiology: Current Concepts in Clinical Cardiology*. 27:105-113, 1980
 43. Johnstone DE, Sands JM, Berger HJ, Reduto LA, Lachman AB, Wackers FJTh, Cohen LS, Gottschalk A, Zaret BL: Comparison of exercise radionuclide angiocardiology and thallium-201 myocardial perfusion imaging in coronary artery disease. *Am J Card* 45:1113-1119, 1980
 44. Wackers FJTh: Thallium-201 myocardial scintigraphy in acute myocardial infarction and ischemia. *Semin Nucl Med*. 10:127-145, 1980
 45. (also published in: *Cardiovascular Nuclear Medicine. Current Methodology and Practice*. pp 217-235, edited by Freeman LL and Blaufox MD, Grune and Stratton, New York, New York, 1980)
 46. Davies RA, Thakur ML, Berger HJ, Wackers FJTh, Gottschalk A, Zaret BL: Imaging the inflammatory response to acute myocardial infarction in man using Indium-111-labeled autologous leukocytes. *Circulation* 63:826-832, 1981

47. Berger HJ, Sands MJ, Davies RA, Wackers FJTh, Alexander J, Lachman AS, Williams BW, Zaret BL: Exercise left ventricular performance in patients with chest pain, ischemic-appearing exercise electrocardiograms, and angiographically normal coronary arteries. *Ann Int Med* 94:186-191, 1981
48. Rutlen DL, Wackers FJTh, Zaret BL: Radionuclide assessment of peripheral intravascular capacity: A technique to measure intravascular volume changes in the capacitance circulation in man. *Circulation* 64:146-152, 1981
49. Kelly MJ, Giles RW, Simon TR, Berger HJ, Langou RA, Zaret BL, Wackers FJTh: Multigated equilibrium radionuclide angiocardiology: Improved detection of left ventricular wall motion abnormalities and aneurysms by the addition of the left lateral view. *Radiology* 139:167-173, 1981
50. Wackers FJTh, Lie KI, David G, Koster RM, Wellens HJJ: Assessment of the value of electrocardiographic signs for myocardial infarction in left bundle branch block. In: *What's New In Electrocardiology*, pp 37-57. Editors, Wellens, H.J.J. and Kulbertus, H.E. Martinus Nijhoff Publishers. The Hague, Boston, London, 1981
51. Wackers FJTh, Zaret BL: Using thallium-201 myocardial imaging to find the cause of patients with chest pain. *J Cardiovasc Med* 6:971-996, 1981
52. Wackers FJTh, Klay JW, Laks H, Schnitzer J, Zaret BL, Geha AS: Pathophysiologic correlates of right ventricular thallium-201 uptake in a canine model. *Circulation* 64:1256-1264, 1981
53. Davies RA, Laks H, Wackers FJTh, Berger HJ, Williams B, Hammond GL, Geha AS, Gottschalk A, Zaret BL: Radionuclide assessment of left ventricular function in patients requiring intraoperative balloon pump assistance. *Ann Thoracic Surg* 33:123-131, 1982
54. Lewis SM, Riba AL, Berger HJ, Davies RA, Wackers FJTh, Alexander J, Sands MJ, Cohen LS, Zaret BL: Radionuclide angiographic exercise left ventricular performance in chronic aortic regurgitation: relationships to resting echographic ventricular dimensions and systolic wall stress index. *Am Heart J* 103:498-504, 1982
55. Wackers FJTh, Berger HJ, Zaret BL: Radionuclide ventriculography. In: *Myocardial Infarction, Measurement and Intervention*. Editor, Wagner, G.S. Martinus Nijhoff Medical Division, The Hague, Boston, 199-233, 1982
56. Wackers FJTh, Giles RW, Hoffer PB, Lange RC, Berger HJ, Zaret BL: Gold-195m, a new generator produced short-lived radionuclide for sequential assessment of ventricular performance by first-pass radionuclide angiocardiology. *Am J Card* 50:89-94, 1982
57. Wackers FJTh, Berger HJ, Weinberg MA, Zaret BL: Spontaneous changes in left ventricular function over the first 24 hours of acute myocardial infarction: implications for evaluating early therapeutic interventions. *Circulation* 66:748-754, 1982
58. Wackers FJTh: Radionuclide techniques and interpretation of the electrocardiogram. In: *Computerized Interpretation of the Electro-cardiogram*. Editors, Bonner, R.E., Pryor,

- T.A., Laks, M.M., Cole, S.S. Engineering Foundation. New York, NY 95-113, 1982
59. Choi BW, Berger HJ, Schwartz PE, Alexander J, Wackers FJTh, Gottschalk A, Zaret B: Serial radionuclide assessment of doxorubicin cardiotoxicity in cancer patients with abnormal baseline resting left ventricular performance. *Am Heart J* 106:638-643, 1983
 60. Jaffin BW, Gundel WD, Capeless MA, Castaneda AR, Rabinovitch M, Wackers FJTh: Aneurysm of the pulmonary artery as a cause of severe chest pain. *Arch Intern Med* 143:1484-1485, 1983
 61. Wackers FJTh, Stein R, Pytlik L, Plankey MW, Lange R, Hoffer PB, Sands MJ, Zaret BL, Berger HJ: Gold-195m for serial first pass radionuclide angiocardigraphy during upright exercise in patients with coronary artery disease. *J Am Coll Card* 2:497-505, 1983
 62. Haines DE, Raabe DS, Gundel WD, Wackers FJTh: Anatomic and prognostic significance of new T-wave inversion in unstable angina. *Am J Card* 52:14-18, 1983
 63. Wackers FJTh: Complete left bundle branch block: Is the diagnosis of myocardial infarction possible? *Int J Cardiol* 2:521-529, 1983
 64. Wackers FJTh: Radionuclide techniques in the diagnosis and management of right ventricular infarction. *Masters in Cardiology* 1:16-19, 1983
 65. Wackers FJTh: Book Review: Radionuclide ventricular function studies. Correlation with EKG, ECHO and X-ray data. by P.J. Ell, S. Walton and P.H. Jaritt. *Clin Nucl Med* 8:576, 1983
 66. Wackers FJTh: Radionuclide techniques for assessment of cardiac function in man. In: *Techniques in the Life Sciences*. Editor, Linden, R.J. Elsevier Scientific Publishers Ireland, LTD. County Clare, Ireland, P3/II, Cardiovascular Physiology, P320, pp. 1-26, 1984
 67. Wackers FJTh: Characteristics of radiopharmaceuticals in nuclear cardiology. Implications for practical cardiac imaging. In: *Nuclear Imaging in Clinical Cardiology*. Editor, Simoons, M.L. and Reiber, J.H.C. Martinus Nijhoff Publishers, The Hague, Boston, London. 19-37, 1984
 68. Sinusas AJ, Hardin NJ, Clements JP, Wackers FJTh: Pathoanatomic correlates of regional left ventricular wall motion assessed by radionuclide angiocardigraphy: a postmortem correlation. *Am J Cardiol*. 54:975-981, 1984
 69. Benoit L, Wackers FJTh, Clements JP: Case Report: Clotting of Tc-99m labeled red cells. *Nucl Med Tech* 12:59-60, 1984
 70. Wackers FJTh, Berger HJ, Hoffer PB, Lange RC, Zaret BL: 195m Gold for assessment of cardiac function. In: *Radioisotope Studies in Cardiology*. Editors, Biersack, H., and Cox, P.H. Martinus Nijhoff Publishers. Dordrecht, Boston, Lancaster. 197-221, 1985
 71. Wackers FJTh: Radionuclide techniques for diagnosing and sizing of myocardial

- infarction. In: Acute Coronary Care, Principles and Practice. Editors, Califf, R.M. and Wagner, G.S. Martinus Nijhoff Publishers, The Hague, Boston, London. 179-187, 1985
72. Wackers FJTh: Various modes of administration of gold-195m. Potential clinical applications. In: Single-Photon Ultrashort-lived Radionuclides. Editors, Paras P, Thiessen JW. Office of Scientific and Technical Information, United States Department of Energy, Springfield, VA. 41-44, 1985
 73. Wackers FJTh: Assessment of myocardial infarction with thallium-201. In: Myocardial Imaging. Editors, McLaughlin, P.R., Morch, J.E. Addison-Wesley Publishing Company, Inc., Menlo Park, CA. 38-51, 1985
 74. Wackers FJTh, Fetterman RC, Mattera JA, Clements JP: Quantitative planar thallium-201 stress scintigraphy: A critical evaluation of the method. *Semin Nucl Med* 15:46-66, 1985
 - 74a. Wackers FJTh, Fetterman RC, Mattera JA, Clements JP: Kwantitative analyse van thallium-201-inspanningsscintigrafie: een kritische beschouwing van de methode. *Hart Bulletin* 17:4-20, 1986
 75. Wackers FJTh, Fetterman RC, Clements JP: Planar myocardial perfusion imaging with thallium-201. In: Issues and Updates #3. Trends in Nuclear Medicine/Cardiac Imaging. Editor, Berger, H.J. Mallinckrodt, St. Louis, 1985
 76. Wackers FJTh, Russo DJ, Russo D, Clements JP: Prognostic significance of normal quantitative planar thallium-201 stress scintigraphy in patients with chest pain. *J Am Coll Card* 6:27-30, 1985
 77. Brush JE, Brand DA, Acampora D, Chalmer B, Wackers FJTh: Use of the Initial Electrocardiogram to Predict In-hospital Complications of acute myocardial infarction. *N Engl J Med* 312:1137-1141, 1985
 78. Duncan JS, Fetterman RC, McKenzie W, Green R, Wackers FJTh, Zaret B, Sheehan F, Bolson E, Dodge H: An approach to quantitation of left ventricular regional wall motion using multiple-view radionuclide angiography and the centerline method. In: Proceedings of Computers in Cardiology. IEEE Computer Society, Linkoping, Sweden. 265-268, September 8-11, 1985
 79. Lee FA, Fetterman R, Zaret BL, Wackers FJTh: Rapid radionuclide derived systolic and diastolic cardiac function using cycle-dependent background correction and Fourier Analysis. In: Proceedings of Computers in Cardiology. IEEE Computer Society, Linkoping, Sweden. 443-446, September 8-11, 1985
 80. van der Wall EE, van Lingen A, den Hollander W, Visser FC, Heidendal GAK, Roos JP, Wackers FJTh: Short-lived 195mAu for evaluation of left ventricular function by first-pass radionuclide angiography. *J Nuc Med* 24:191-192, 1985
 81. Brush JE Jr, Brand DA, Acampora D, Wackers FJTh: Predicting in-hospital complications of acute myocardial infarction. *Cardiol Board Rev* 2:37-42, 1985

82. Wackers FJTh: Thallium-201 stress scintigraphy: Is quantitative analysis worth the trouble? Yearbook of Nuclear Medicine 1986, Yearbook Medical Publishers. 13-26, 1986
83. Wackers FJTh: First-pass radionuclide angiocardiology. In: Cardiac Nuclear Medicine: Implications for Clinical Decision Making. Editor, Gerson, M.C., McGraw-Hill Book Company, 1st edition, 2nd edition, 1987
84. Zaret BL, Wackers FJTh: Measurement of right ventricular function. In: Cardiac Nuclear Medicine: Implications for Clinical Decision Making. Editor, Gerson, M.C., McGraw-Hill Book Company, 1st edition, 2nd edition, 1987
85. Cabin HS, Clubb KS, Wackers FJTh, Zaret BL: Right ventricular infarction with anterior wall left ventricular infarction: an autopsy study. Am Heart J 113:16-23, 1987
86. Zaret BL, Wackers FJTh: Radionuclide methods of evaluating the results of thrombolytic therapy. Circulation 76(suppl.):8-17, 1987
87. Schulman DS, Francis CK, Black HR, Wackers FJTh: Thallium-201 stress imaging in hypertensive patients. Hypertension 10:16-21, 1987
88. Brown KA, Benoit L, Clements JP, Wackers FJTh: Fast washout of Tl-201 from area of myocardial infarction: possible artifact of background subtraction. J Nucl Med 28:945-949, 1987
89. Wackers FJTh: Radionuclide techniques for evaluation of patients with acute myocardial infarction. In: Nuclear Medicine Annual 1987. Freeman LM, Weissman HS (eds.), Raven Press Publishers, New York. 103-130, 1987
90. Schwartz RG, McKenzie WB, Alexander J, Sager P, D'Souza A, Manatunga A, Schwartz P, Berger HJ, Wackers FJTh, Surkin L, Setaro J, Zaret BL: Congestive heart failure and left ventricular dysfunction complicating doxorubicin therapy: a seven year experience using serial radionuclide angiocardiology. Am J Med 82:1109-1118, 1987
91. Wackers FJTh: Metabolic imaging: The future of cardiovascular nuclear imaging? In: Noninvasive Imaging of Cardiac Metabolism. van der Wall EE, (ed.), Martinus Nijhoff Publishers, Dordrecht, Boston, Lancaster. 9-10, 1987
92. Brown KA, Weiss RM, Clements JP, and Wackers FJTh: Usefulness of residual ischemic myocardium within prior infarct zone for identifying patients at high risk late after acute myocardial infarction. Am J Cardiol 60:15-19, 1987
93. Wackers FJTh: Practical aspects and clinical usefulness of quantitative planar thallium-201 stress imaging. In: Cardiac Imaging. Visser CA, Knoll BV, Editors, Almerc, The Netherlands. 33-63, 1987
94. Wackers FJTh: The diagnosis of myocardial infarction in the presence of left bundle branch block. Cardiol Clin 5:393-401, 1987
95. Wackers FJTh: Quantitative planar thallium-201 stress imaging. In: Imaging and Visual

Documentation in Medicine. Wamsteker K, Jonas U, Van der Veen G, Van Waes PFGM, Editors, Excerpta Medica, Amsterdam. 211-213, 1987

96. Kayden DS, Wackers FJTh, Zaret BL: The role of nuclear cardiology in the assessment of acute myocardial infarction. In: *Cardiology Clinics. Management of Acute Myocardial Infarction*. Cabin, H.S. (editor), W.B. Saunders Publishers. 6:81-95, 1988.
97. Sager PT, Perlmutter RA, Rosenfeld LE, McPherson CA, Wackers FJTh, Batsford WP: Electrophysiologic effects of thrombolytic therapy with a transmural anterior myocardial infarction complicated by left ventricular aneurysm formation. *J Am Coll Cardiol* 12:19-24, 1988.
98. Wackers FJTh: Myocardial perfusion imaging. Chapter 21. *Diagnostic Nuclear Medicine*, 2nd Edition, Gottschalk A, Hoffer, PB, Potchen EJ (eds.), Williams & Wilkins Publishers, Baltimore. 1:291-354, 1988.
99. Wackers FJTh, Mattera JA: Evaluation of cardiac function by radionuclide angiocardiology: in particular of the right ventricle. In: *Dynamic Cardiovascular Nuclear Imaging (a video and print journal)*, 1(4):292-301.
100. Chan CK, Loke J, Snyder PE, Wackers FJTh, Mattera J, Matthay RA: Oral terbutaline augments cardiac performance in chronic obstructive pulmonary disease. *Am J Med Sci* 296(1):33-38, 1988.
101. Kayden DS, Mattera JA, Zaret BL, Wackers FJTh: Demonstration of reperfusion after thrombolysis with Tc-99m isonitrile myocardial imaging. *J Nucl Med* 29:1865-1867, 1988.
102. Bowman LK, Lee FA, Jaffe CC, Mattera A, Wackers FJTh, Zaret BL: Peak filling rate normalized to mitral stroke volume: a new Doppler echocardiographic filling index validated by radionuclide angiographic techniques. *J Am Coll Cardiol* 12:937-943, 1988.
103. Duncan JS, Fetterman R, Greene R, Davis K, McKenzie, Wackers FJTh, Zaret BL: Quantification of left ventricular wall motion from multiple view equilibrium radionuclide angiocardiology (ERNA) *Automedica* 10:1-15, 1988.
104. Wackers FJTh: New horizons for myocardial perfusion imaging with technetium-99m-labeled isonitriles. In: *New Concepts in Cardiac Imaging*, Pohost GM, Higgins CB, Nanda NC, Ritchie JL, Schelbert HR (eds.), Year Book Medical Publishers. Chicago. 93-107, 1989.
105. Wackers FJTh, Berman DS, Maddahi J, Watson DD, Beller GA, Strauss HW, Boucher CA, Picard M, Holman BL, Fridrich R, Inglese E, Delaloye B, Bischof-Delaloye A, Camin L, McKusick K: Technetium-99m hexakis 2-methoxyisobutyl isonitrile: human biodistribution, dosimetry, safety, and preliminary comparison to thallium-201 for myocardial perfusion imaging. *J Nucl Med* 30:301-311, 1989.
106. Wackers FJTh, Terrin ML, Kayden DS, Knatterud G, Forman S, Braunwald E, Zaret BL, and TIMI Investigators: Quantitative radionuclide assessment of regional ventricular function after thrombolytic therapy for acute myocardial infarction: Results of Phase I

- Thrombolysis in Myocardial Infarction (TIMI) Trial. *J Am Coll Cardiol* 13:998-1005, 1989.
107. Rogers WJ, Bourge RC, Papapietro SE, Wackers FJTh, Zaret BL, Forman S, Dodge HT, Robertson TL, Passamani ER, Braunwald E: Variables predictive of good functional outcome following thrombolytic therapy in the Thrombolysis in Myocardial Infarction Phase II (TIMI II) Pilot Study. *Am J Cardiol* 63:503-512, 1989.
 108. Wackers FJTh: Clinical assessment of myocardial perfusion with thallium-201. In: *Proceedings of the 1987 Capri Workshop on Myocardial Perfusion*, Biblioteca Cardiologica, Rengo, F., editor, Karger, A.G. Publishers, Basel, Switzerland, 44:60-78, 1989.
 109. Zahler R, Chelmow D, Gore J, Wilkens K, Pope C, Sostman HD, Meese R, Negro-Vilar R, Herfkens RJ, Wackers FJTh, Zaret BL: Heterogeneous signal intensity in magnetic resonance images of hypertrophied left ventricular myocardium. *Magn Resonance Imaging* 7:517-528, 1989.
 110. LaVeau PJ, Rozanski A, Krantz DS, Cornell CE, Cattanach L, Zaret BL, Wackers FJTh: Transient left ventricular dysfunction during provocation mental stress in patients with coronary artery disease. *Am Heart J*, 118:1-8, 1989.
 111. Gibbons RJ, Verani MS, Behrenbeck T, Pellikka PA, O'Connor MK, Mahmarian JJ, Chesebro JH, Wackers FJTh: Feasibility of tomographic technetium-99m-hexakis-2-methoxy-2-methylpropyl-isonitrile imaging for the assessment of myocardial area at risk and the effect of acute treatment in myocardial infarction. *Circulation*, 80:1277-1286, 1989
 112. Wackers FJTh, Gibbons RJ, Verani MS, Kayden DS, Pellikka PA, Behrenbeck T, Mahmarian JJ, Zaret BL: Serial quantitative planar technetium-99m-isonitrile imaging in acute myocardial infarction: efficacy for noninvasive assessment of thrombolytic therapy. *J Am Coll Cardiol* 14:861-73, 1989.
 113. Farlow DC, Ezekowitz MD, Ram Rao S, Martinez C, Denny DF, Morse SS, Decho JS, Wackers FJTh, Strauss E: Early imaging acquisition after administration of indium-111 platelets in patients with clinically suspected deep venous thrombosis. *Am J Cardiol* 64:363-368, 1989.
 114. Wackers FJTh, Zaret BL, Kayden DS, Terrin ML, Knatterud G, Forman S, Braunwald E: Letter to the Editor, ref: Streptokinase or tissue plasminogen activator and left ventricular function after myocardial infarction. *N Engl J Med*, 321:687-688, 1989.
 115. Schulman D, Soufer R, Lange R, Levine E, Wackers FJTh: Normal resting thallium-201 myocardial kinetics in man. *Am J Cardiac Imaging* 4:59-67, 1990
 116. Rogers WJ, Baim DS, Gore JM, Brown BG, Roberts R, Williams DO, Chesebro JH, Babb JD, Sheehan FH, Wackers FJTh, Zaret BL, Robertson TL, Passamani ER, Ross R, Knatterud GL, Braunwald E, TIMI II-A investigators: Comparison of immediate

- invasive, delayed invasive and conservative strategies following tissue plasminogen activator, results of the thrombolysis in myocardial infarction (TIMI) phase II-A trial. *Circulation* 81:1457-1476, 1990.
117. Koster K, Wackers FJTh, Mattera J, Fetterman R: Quantitative analysis of planar Tc-99m-Sestamibi myocardial perfusion images using modified background subtraction. *J Nucl Med* 31:1400-1408, 1990
 118. Wackers FJTh: Thrombolytic therapy for myocardial infarction: Assessment of efficacy by myocardial perfusion imaging with Tc-99m-Sestamibi. *Am J Card* 66:36E-41E, 1990
 119. Pellikka P, Behrenbeck T, Verani M, Mahmorian J, Wackers FJTh, Gibbons R: Serial changes in myocardial perfusion using tomographic technetium-hexakis-2-methoxy-2-methylpropyl-isonitrile imaging following reperfusion therapy of myocardial infarction. *J Nucl Med* 31:1269-1275, 1990
 120. Kayden D, Wackers FJTh, Zaret B: Silent left ventricular dysfunction during routine activity following thrombolytic therapy for acute myocardial infarction. *J Am Coll Card* 15:1500-7, 1990
 121. Zaret B, Wackers FJTh: Myocardial perfusion scintigraphy as an aid in understanding electrocardiographic changes of ischemia and infarction. In *Electrocardiography Past and Future*. Coumel P, Garfein OB, (eds). Ann N.Y. Acad. of Science 601 107-118, 1990
 122. Wackers FJTh, Zahler R: Will magnetic resonance imaging replace radionuclide techniques for evaluation of ischemic heart disease? *J Myoc Ischemia* 2:75-87, 1990
 123. Wackers FJTh, Mattera J: Optimizing planar Tl-201 imaging: Computer Quantification. *Cardio* 7:103-112, 1990
 124. Wackers FJTh: Pharmacologic Stress with dipyridamole: How lazy can one be? Editorial, *J Nucl Med* 31:1024-1027, 1990.
 - 124a. Wackers FJTh, Mattera J: Also published as: Thallium stress images lack consistent quality. *Diagnostic Imaging International* 6:24-32, 1990
 125. Wackers FJTh: Adenosine - thallium imaging: Faster and better? Editorial, *J Am Coll Card* 16:1384-1386, 1990
 126. Wackers FJTh: Planar, SPECT, PET: The Quest to Predict the Unpredictable? Editorial, *J Nucl Med* 31:1906-1908, 1990
 127. Maniawski PJ, Morgan HT, Wackers FJTh: Orbit related variation in spatial resolution as a source of artifactual defects in Tl-201 SPECT. *J Nucl Med* 32:871-875, 1991
 128. Sigal SL, Soufer R, Fetterman RC, Mattera JA, Wackers FJTh: Reproducibility of planar thallium-201 scintigraphy: Quantitative criteria for reversibility of myocardial perfusion defects. *J Nucl Med* 32:759-765, 1991
 129. Roberts R, Rogers W, Mueller HS, Lambrew CT, Diver DJ, Smith HC, Willerson JT,

- Knatterud GL, Forman S, Passamani E, Zaret BL, Wackers FJTh, Braunwald E: Immediate versus deferred beta-blockade following myocardial infarction: Results of the thrombolysis in myocardial infarction (TIMI) II-B Study. *Circulation* 83:422-437, 1991.
130. Kayden DS, Remetz MS, Cabin HS, Deckelbaum LI, Cleman MW, Wackers FJTh, Zaret BL: Validation of continuous radionuclide left ventricular functioning monitoring in detecting silent myocardial ischemia during balloon angioplasty of the left anterior descending coronary artery. *Am J Cardiol* 67:1339-1343, 1991.
131. Wackers FJTh. Editorial Comment: Adenosine or Dipyridamole: Which Is Preferred for Myocardial Perfusion Imaging? *J Am Coll Cardiol* 17, 6:1295-1296, 1991
132. Smits P, Corsten F, Aengevaeren W, Wackers FJTh, Thien TH: False negative dipyridamole-thallium 201 myocardial imaging after caffeine. *J Nucl Med* 32:1538-1541, 1991
133. Kayden DS, Sigal S, Soufer R, Mattera J, Zaret BL, Wackers FJTh: Thallium-201 for assessment of myocardial viability: quantitative comparison of 24 hour redistribution imaging with imaging after reinjection at rest. *J Am Coll Cardiol* 18:1480-1486, 1991
134. Zaret BL, Wackers FJTh: Established and developing nuclear cardiology techniques. Part 1. *Mod Con of Cardio Disease* 60:7;37-47, 1991
- 134a. Zaret BL, Wackers FJTh: Established and developing nuclear cardiology techniques. Part 2. *Mod Con of Cardio Disease* 60:7;37-47, 1991
135. Zaret BL, Wackers FJTh, Soufer R: Nuclear cardiology. In: *Heart Disease, a textbook of cardiovascular medicine*, 4th Edition, Braunwald E. (ed.). 1:(10)276-311 W.B. Saunders, Philadelphia, 1991
136. Wackers FJTh: Myocardial perfusion imaging in ischemic heart disease anno 1990. *Current Opinions in Cardiol* 6:590-601, 1991
137. Bonow RO, Berman DS, Gibbons RJ, Johnson KK, Rumberger, Schwaiger M, Wackers FJTh: Cardiac Positron Emission Tomography. *Circulation* 84:447-454, 1991
138. Wackers FJTh: Artifacts in planar and SPECT myocardial perfusion imaging. *Am J Cardiac Imaging* 6:42-58, 1992
139. Zaret BL, Wackers FJTh, Terrin ML, Ross R, Weiss M, Slater J, Morrison J, Bourge RC, Passamani E, Knatterud G, Braunwald E: for the TIMI investigators: Assessment of global and regional left ventricular performance at rest and during exercise following thrombolytic therapy for acute myocardial infarction: results of the thrombolysis in myocardial infarction (TIMI) II study. *Am J Cardiol* 69:1-9, 1992
140. Boucher CA, Wackers FJTh, Zaret BL, Mena IG, and the multicenter cardioluteR study group: Technetium-99m-sestamibi myocardial imaging at rest for the assessment of myocardial infarction and first pass ejection fraction: a multicenter trial. *Am J Cardiol*

69:22-27, 1992

141. Wackers FJTh, Maniawski P: Quantitative computer assessment of regional contractility from ECG-gated planar Tc-99m sestamibi images. In: Nuclear Medicine and MRI, Reiber JHC, van der Wall EE (eds), Kluwer Academic Publishers BV Dordrecht, Netherlands 153-162, 1992
142. Wackers FJTh: Tc-99m-sestamibi will it replace Tl-201 in clinical cardiology? In: Nuclear Medicine and MRI, Reiber JHC, van der Wall EE (eds), Kluwer Academic Publishers BV Dordrecht, Netherlands. 239-248, 1992
143. Wackers FJTh: Exercise. In: Yale University School of Medicine, Heart Book, Zaret BL, Moser, M, Cohen LS, Subah-Sharpe GJ (eds.), Wiliam Morrow and Co, Inc. 85-94, 1992
144. Wackers FJTh: Comparison of thallium-201 and technetium-99m-methoxyisobutyl isonitrile. *Am J Cardiol* 70:E30-E34, 1992
145. Wackers FJTh, Jaffe CC, Lynch PJ: Equilibrium and gated first pass radionuclide angiocardiology. Image PSL, St. Paul, MN Image Disc Library 1992 (video disc).
146. Wackers FJTh, Bodenheimer M, Fleiss JL, Brown M, and the MSSMI Tl-201 Investigators: Factors affecting uniformity in interpretation of planar Tl-201 imaging in a multicenter trial. *J Am Coll Cardiol* 21:1064-1074, 1993
147. Wackers FJTh. Single photon emission computed tomography. In: *Frontiers in Cardiovascular Imaging* Editors: Zaret BL, Kaufman L, Berson AS, Dunn RA, Raven Press, New York. 85-100, 1993
148. Wackers FJTh. Diagnostic pitfalls of myocardial perfusion imaging in women *J Myoc Ischemia* 14:23-37, 1993
149. Wackers FJTh, Maniawski P, Sinusas AJ: Evaluation of left ventricular wall function by ECG-gated Tc-99m-Sestamibi imaging. *Nuclear Cardiology: State of the Art and Future Direction* Editors: Beller GA, Zaret BL, Mosby. 201-208, 1993
150. Wackers FJTh: Which pharmacological stress is optimal? A technique dependent choice. *Circulation* 87:646-648, 1993
151. Sinusas AJ, Wackers FJTh: Assessing myocardial reperfusion with technetium-99m labeled myocardial perfusion agents: Basic concepts and clinical applications. *Am J Cardiac Imaging* 7:24-38, 1993
152. Zaret BL, Wackers FJTh: Medical Progress. *Nuclear Cardiology*. *New Engl J Med* 3(29:11:773-783), 329:12:855-863. 1993
153. Van de Werf F, Janssens L, Brzostek T, Mortelmans K, Wackers FJTh, Willems GM, Heidbuchel H, Lesaffre E, Scheys SI, Collen D, DeGeest H: Short-term effects of early intravenous treatment with a B-blocker or a specific bradycardiac agent in patients with acute myocardial infarction receiving thrombolytic therapy. *J Am Coll Cardiol* 22:407-416, 1993

154. Moss AJ, Goldstein RE, Hall W, Bigger JT, Fleiss JL, Greenberg H, Bodenheimer M, Krone RJ, Marcus FI, Wackers FJTh, Benhorin J, Brown MW, Case R, Coromilas J, Dwyer EM, Gillespie JA, Gregory JJ, Kleiger R, Lichstein E, O'Parker J, Raubertas RF, Stern S, Tzivoni D, Van Voorhees L, for the Multicenter Myocardial Ischemia Research Group: Detection and significance of myocardial ischemia in stable patients after recovery from an acute coronary event. *J Am Med Assoc* 269:2379-2385, 1993
155. Jain D, Wackers FJTh, Mattera J, McMahon M, Sinusas AJ, Zaret BL: Biokinetics of ^{99m}Tc-tetrofosmin, a new myocardial perfusion imaging agent: Implications for a one day imaging protocol. *J Nucl Med* 34:1254-1259, 1993
156. Haronian H, Remetz MS, Sinusas AJ, Baron JM, Miller HI, Cleman MW, Zaret BL, Wackers FJTh: Myocardial risk area defined by technetium-99m-sestamibi imaging during percutaneous transluminal coronary angioplasty: comparison to coronary angiography. *J Am Coll Cardiol* 22:1033-43, 1993
157. Sinusas AJ, Shi QX, Vitols PH, Fetterman RC, Maniawski P, Zaret BL, Wackers FJTh: Impact of regional ventricular function, geometry and dobutamine stress on quantitative Tc-99m-sestamibi defect size. *Circulation* 88: 2224-2234, 1993
158. Berger PB, Ruocco NA, Ryan TJ, Jacobs AK, Zaret BL, Wackers FJTh, Frederick MM, Faxon DP, and the TIMI Research Group. Frequency and significance of right ventricular dysfunction during inferior wall left ventricular myocardial infarction treated with thrombolytic therapy (results from the thrombolysis in myocardial infarction [TIMI] II Trial) *Am J Cardiol* 71:1148-1152 1993
159. Sinusas AJ, Wackers FJTh: Assessing myocardial reperfusion with technetium-99m-labeled myocardial perfusion agents: basic concepts and clinical applications. *Am J Cardiac Imaging* 7:1-15, 1993
160. Marmor A, Jain D, Cohen LS, Nevo E, Wackers FJTh, Zaret BL: Left ventricular peak power during exercise: A noninvasive approach for assessment of contractile reserve. *J Nucl Med* 34:1877-1885, 1993
161. Mortelmans L, Nuyts J, Scheys I, Wackers F, Lesaffre E, Brzostek T, DeRoo M, DeGeest H, Suetens P, Verbrugen A, vandewerf F: A new quantitative method for the analysis of cardiac perfusion tomography (SPECT): validation in post-infarction patients treated with thrombolytic therapy. *Eur J Nucl Med* 20:1193-1200, 1993
162. Wackers FJTh: Myocardial perfusion imaging to assess myocardial viability. *J Myoc Ischemia*. 6:41-44, 1994
163. Wackers FJTh: The role of radionuclide imaging in the diagnosis of coronary bypass graft failure. In: *Coronary Artery Graft Disease: Mechanisms and Prevention*, Luscher TF, Turina M., Braunwald E, (eds), Springer Publishers Heidelberg-Berlin-New York. 87-98, 1994
164. Haronian HL, Sinusas AJ, Remetz MS, Brennan JJ, Cabin HS, Zaret BL, Wackers FJTh: Effects of altered left ventricular geometry on quantitative Tc-99m sestamibi defect size

- in man: perfusion imaging during coronary angioplasty. *J Nucl Cardiol* 1:150-158, 1994
165. Wackers FJTh: The maze of myocardial perfusion imaging protocols anno 1994. *J Nucl Cardiol* 1:180-186, 1994
 166. Wackers FJTh: Science, art and artifacts: How important is quantification for the practicing physician interpreting myocardial perfusion studies. *J Nucl Cardiol* S109-117, 1994
 167. Cerqueira MD, Wackers FJTh: The knowledge base for nuclear cardiology training. *J Nucl Cardiol* 1:114-116, 1994
 168. Wackers FJTh: Risk assessment after acute myocardial infarction. In: CME curriculum series for The American Journal of Cardiology, Medicine and Surgery. Editor: Iskandrian AS, Healthcare Publications, NY, NY. 11-15, 1994
 169. Wackers FJTh: Radionuclide evaluation of coronary artery disease in the 1990's Choosing the best stress, best tracer, best technique. *Cardiology Clinics*, Editor Verani MS, Philadelphia, PA, W.B. Saunders Comp. 12:385-389, 1994
 170. DePuey EG, Borer JS, Brown KA, Cerqueira MD, LaManna M, Moore WH, Wackers FJTh, Cardiovascular Nuclear Medicine Training Guidelines *J Nucl Med* 35:169-178, 1994
 171. Wackers FJTh: Exercise Myocardial Perfusion Imaging. *J Nucl Med* 35:726-729, 1994
 172. Sinusas AJ, Shi QX, Saltzberg MT, Vitols P, Jain DJ, Wackers FJTh, Zaret BL: Technetium-99m-tetrofosmin to assess myocardial blood flow: Experimental validation in an intact canine model of ischemia. *J Nucl Med* 35:664-671, 1994
 173. Bodenheimer MM, Wackers FJTh, Schwartz RG, Brown M and Multicenter Myocardial Ischemia Research Group: Prognostic significance of a fixed thallium defect one to six months after onset of acute myocardial infarction or unstable angina. *Am J Cardiol* 74:1196-2000, 1994.
 174. Winn HN, Hess O, Goldstein I, Wackers FJTh, Hobbins JC: Fetal responses to maternal exercise: Effect on fetal breathing and body movement. *Am J Perinatology* 11:263-266, 1994
 175. Raiker K, Sinusas AJ, Wackers FJTh, Zaret BL: One year prognosis of patients with normal planar and single photon emission computerized tomography technetium-99m-labeled sestamibi exercise imaging. *J Nucl Cardiol* 1:449-456, 1994
 176. Liu YH, Sinusas AJ, Shen MYH, Dione DP, Duncan JS, Wackers FJTh: An automated approach for quantification of relative regional myocardial blood flow, using SPECT Tc99m-sestamibi: Preliminary validation in a canine model. In: Proceedings of the 16th Annual International Conference of the IEEE Engineering in Medicine and Biology Society Baltimore, MD. 636-638, 1994
 177. Krone RJ, Gregory JJ, Freedland KE, Kleiger RE, Wackers FJTh, Bodenheimer MM, Benhorn J, Schwartz RG, Parker JO, VanVoorhees L, Moss AJ, for the Multicenter

Myocardial ischemia Research Group: Limited usefulness of exercise testing and thallium scintigraphy in evaluation of ambulatory patients several months after recovery from an acute coronary event: Implications for management of stable coronary heart disease. *J Am Coll Cardiol* 24:1274-1281, 1994

178. Zaret BL, Rigo P, Wackers FJTh, Hendel RC, Braat SH, Iskandrian AS, Sridhara BS, Jain DJ, Itti R, Serafini N, Goris ML, Lahiri A: The Tetrofosmin International Trial Study Group: Myocardial perfusion imaging with ^{99m}Tc-tetrofosmin. Comparison to ²⁰¹Tl imaging and coronary angiography in a phase III multicenter trial. *Circulation* 91:313-319, 1995
179. Ritchie JL, Gibbons RJ, Johnson LL, Maddahi J, Schelbert HR, Wackers FJTh, Zaret BL: Task Force 5: Training in Nuclear Cardiology. *J Am Coll Cardiol* 25:19-23, 1995
180. Soufer R, Dey HM, Lawson AJ, Wackers FJTh, Zaret BL: Relationship between reverse redistribution on planar thallium scintigraphy and regional myocardial viability: A correlative PET study. *J Nucl Med* 36:180-187, 1995
181. Wackers FJTh: The birth of new radiopharmaceutical: Clinical investigative perspective. *J Nucl Cardiol* 2:75-77, 1995
182. Zaret BL, Wackers FJTh, Terrin ML, Forman SA, Williams DO, Knatterud GL, Braunwald E: Value of radionuclide rest and exercise left ventricular ejection fraction in assessing survival of patients after thrombolytic therapy for acute myocardial infarction: Results of thrombolysis in myocardial (TIMI) Phase II Study. *J Am Coll Cardiol* 26:73-9, 1995
183. Wackers FJTh, Zaret BL: Radionuclide stress myocardial perfusion imaging: The future gatekeeper for coronary angiography. *J Nucl Cardiol* 2:358-359, 1995
184. Jain D, Wackers FJTh, Zaret BL: Radionuclide imaging techniques in the thrombolytic era. In: *The Modern Era of Coronary Thrombolysis* Becker RC. (ed.), Kluwer, Boston, MA. 196-217, 1995
185. Wackers FJTh: Radionuclide assessment of ventricular function. *International J Cardiac Imaging* 11(suppl 1):63-64, 1995
186. Mortelmans LA, Wackers FJTh, Nuyts JL, Scheys IA, Brzostek T, Schiepers CW, Lesaffre EE, Suetens PL, Verbruggen AM, Van de Werf FJ: Tomographic and planar quantitation of perfusion defects on technetium ^{99m}-labeled sestamibi scans: Evaluation in patients treated with thrombolytic therapy for acute myocardial infarction. *J Nucl Cardiol* 2:133-143, 1995
187. Shi CQX, Sinusas AJ, Dione DP, Singer MJ, Young FH, Heller EN, Rinker BD, Wackers FJTh, Zaret BL: Technetium-^{99m} nitroimidazole (BMS181321) a positive imaging agent for detecting myocardial ischemia. *J Nucl Med* 36: 1078-1086, 1995
188. Wackers FJTh: Stress radionuclide imaging for detecting and assessing prognosis of coronary artery disease. In: *Atlas of Heart Diseases, a textbook of cardiovascular medicine*, 5th Edition, Braunwald E. (ed.).1(3):320-326. Current Medicine, Philadelphia,

1995

189. Fleisher LA, Rosenbaum SH, Nelson AH, Jain D, Wackers FJTh, Zaret BL: Preoperative dipyridamole thallium imaging and ambulatory electrocardiographic monitoring as a predictor of perioperative cardiac events and long term outcome. *Anesthesiology*, 83:906-917, 1995
190. Wackers FJTh: Clinical applications of myocardial perfusion imaging interactive computer program. Mosby Publications, 1995 (CD Rom)
191. Wackers FJTh: The Heart: Myocardial Perfusion Imaging. In: *Nuclear Medicine Diagnosis and Therapy*, Editors: Harbert JC, Eckelman WC, Neumann RD: 445-459, 1995
192. Port SC, Wackers FJTh: Clinical application of radionuclide angiography. *J Nucl Cardiol* 2:551-558, 1995
193. Wackers FJTh: Serial myocardial perfusion imaging with Tc-99m-labeled myocardial perfusion imaging agents in patients receiving thrombolytic therapy for acute myocardial infarction. In: *Imaging and Intervention in Cardiology*, Editors: Nienaber CA, Sechtem U, Kluwer Academic Publishers, 1-12, 1996
194. Liu YH, Sinusas AJ, Wackers FJTh: Validation of a new SPECT quantification method using computer simulation. 1995 IEEE Nuclear Science Symposium and Medical Imaging Conference Record, pg 1506-1509, October 1995
- 194a. Hendel RC, Wackers FJTh: Clinical and Economic Myocardial Perfusion Imaging. *American College of Nuclear Physicians*: 1-23, 1995.
195. Liu YH, Sinusas AJ, Shi QX, Shen MYH, Dione DP, Duncan JS, Wackers FJTh: Quantification of Tc99m-sestamibi single photon emission tomography based on mean counts improves accuracy for assessment of relative regional myocardial blood flow: experimental validation in a canine model. *J Nuc Cardiol*. 3:312-320, 1996
196. van Royen N, Jaffe CC, Krumholz HK, Johnson KM, Lynch PJ, Natale D, Atkinson P, Deman P, Wackers FJTh: Comparison and reproducibility of visual echocardiographic and quantitative radionuclide left ventricular ejection fraction. *Am J Cardiol* 77: 843-850, 1996
197. Wackers FJTh: Myocardial Perfusion Imaging. Chapter 25. In: *Diagnostic Nuclear Medicine* 3rd edition, ed: Sandler MP, Coleman RE, Wackers FJTh, Patton JA, Gottschalk A, Hoffer PB: Williams & Wilkins. 443-516, 1996
198. Moriel M, Benhorin J, Brown MW, Raubertas RF, Severski PK, Van Voorhees L, Bodenheimer MM, Tzivoni D, Wackers, FJTh, Moss AJ and The Multicenter Myocardial Ischemia Research Group: Detection and significance of myocardial ischemia in women versus. men within six months of acute myocardial infarction or unstable angina. *Amer J Cardiol* 77:798-804, 1996
199. Wackers, FJTh: Certification in Nuclear Cardiology. *J Nucl Cardiol* 3:183-4, 1996

200. Verhoeven PPAM, Lee FA, Ramahi TM, Franco KL, Mendes de Leon C, Amatruda J, Gorham NA, Mattera JA, Wackers FJTh: Prognostic value of noninvasive testing at one year following orthotopic cardiac transplantation. *J Am Coll Cardiol* 28:183-89, 1996
201. Dey HM, Soufer R, Hoffer P, Wackers FJTh, Black HR: Comparison of Nifedipine GITS and Hydrochlorothiazide in the management of elderly patients with stage I-III diastolic hypertension. *Am J Hypertens* 9:589-606, 1996
202. Hendel RC, Verani MS, Miller DD, Wackers FJTh, Cerqueira MD, Botvinick EH, Kvolis L, McMahon M, Gerson MC: Diagnostic utility of tomographic myocardial perfusion imaging with technetium-99m furifosmin (Q-12) compared with thallium-201: Results of a phase III multicenter trial. *J Nucl Cardiol* 3:291-300, 1996
203. Wackers FJTh: Equilibrium radionuclide angiocardiology. In: *Cardiac Nuclear Medicine*. 3rd Edition, Gerson MC (ed.), McGraw Hill, Inc. (Chapter 11) 315-345, 1996
204. Wackers FJTh: Radionuclide detection of myocardial ischemia and myocardial viability: Is the glass half empty or half full? (Editorial Comment) *J Am Coll Cardiol*. 27:1598-1600, 1996
205. Birnbaum Y, Kloner RA, Sclarowsky S, Cannon CP, McCabe CH, Davis VG, Zaret BL, Wackers FJTh, Braunwald E: Distortion of the terminal portion of the QRS on the admission electrocardiogram in acute myocardial infarction and correlation with infarct size and long term prognosis (Thrombolysis in myocardial infarction 4 trial). *Am J Cardiol*, 78:396-403, 1996
206. Siebelink HMJ, Natale D, Sinusas AJ, Wackers FJTh: Quantitative comparison of single-isotope and dual-isotope stress-rest SPECT imaging for defect reversibility. *J Nucl Cardiol* 3:483-93, 1996
207. Wackers FJTh, Soufer R, Zaret BL: Nuclear cardiology. In: *Heart Disease, a textbook of cardiovascular medicine*, 6th Edition, Braunwald E. (ed.), (chapter 9) 273-316, W.B. Saunders, Philadelphia, 1996
208. Naruse H, Daher E, Sinusas AJ, Jain D, Natale D, Mattera J, Makuch R, Wackers FJTh: Quantitative comparison of planar and SPECT normal data files of thallium-201, technetium-99m-tetrofosmin and technetium-99m furifosmin. *J Nucl Med* 37:1783-1788, 1996
209. Wackers FJTh: First-pass radionuclide angiocardiology. In: *Cardiac Nuclear Medicine*. 3rd Edition, Gerson MC (ed.), McGraw Hill, Inc. 10:303-314, 1996
210. Zaret BL, Wackers FJTh: Measurement of right ventricular function. In: *Cardiac Nuclear Medicine*. 3rd Edition, Gerson MC (ed.), McGraw Hill, Inc. 14:387-398, 1996
211. Wackers FJTh: Are separate normal data files required for quantitative pharmacologic stress radionuclide myocardial perfusion imaging? *J. Nucl Cardiol (suppl)* 3:S31-S40, 1996

212. Wackers FJTh, Bateman TM: Blue print of the certification examination in nuclear cardiology. *J Nucl Card* 164-168, 1997
213. Jain D, Thompson B, Wackers, FJTh, Zaret BL, TIMI-IIIB study investigators: Relevance of increased lung thallium uptake on stress imaging in patients with unstable angina and non-Q-myocardial infarction: Results of TIMI-III B study. *J Am Coll Cardiol* 30:421-429, 1997
214. Liu YH, Rangarajan A, Gagnon D, Therrien M, Sinusas AJ, Wackers FJTh, Zubal G: New methods for SPECT imaging and pre-reconstruction restoration. *Proceedings Information Processing in Medical Imaging, 15th International Conference, IPMI'97, Duncan J, Gindi G (ed), 531-536, 1997*
215. Arrighi JA, Ng CK, Dey HM, Wackers FJTh, Soufer R: Effect of left ventricular function and the assessment of myocardial viability by ^{99m}Tc-sestamibi and correlation with positron emission tomography in patients with healed myocardial infarcts or stable angina pectoris or both. *Am J Cardiol* 80:1007-1013, 1997
216. Wackers FJTh: Key issues in perfusion imaging: optimizing the imaging agent for the clinical indication. *Quarterly J Nucl Med* 41:18 (suppl 1), 1997
217. Wackers FJTh: The role of emergency radionuclide imaging in the evaluation of patients with acute chest pain syndromes. *Quarterly J Nucl Med* 41:39 (suppl 1), 1997
218. Wackers FJTh, Verhoeven PPAM, Lee FA: Detection of accelerated graft vasculopathy after heart transplantation. *Quarterly J Nucl Med* 41:140 (suppl 1), 1997
219. Khattar RS, Hendel RC, Crawley JC, Wackers FJTh, Rigo P, Zaret BL, Sridhara BS, Lahiri A: Improved diagnostic accuracy of planar imaging with technetium-99m-labeled tetrofosmin compared with thallium-201 for the detection of coronary artery disease. *J Nucl Cardiol* 4:291-297, 1997
220. Gradel C, Jain D, Batsford WP, Wackers FJTh, Zaret BL: Relationship of scar and ischemia to the results of programmed electrophysiological stimulation in patients with coronary artery disease. *J Nucl Cardiol* 4:379-86. 1997
221. Wackers, FJTh: Myocardial perfusion defects in left bundle branch block: true or false? Fact or artifact? *J Nucl Cardiol* 4: 550-552, 1997
222. Heller EN, DeMan P, Liu YH, Dione DP, Zubal GI, Wackers FJTh, Sinusas AJ: Extra cardiac activity complicates quantitative cardiac SPECT imaging using a simultaneous transmission-emission approach. *J Nucl Med* 38:1882-1890, 1997
223. Daher E, Wackers FJTh: Radionuclide imaging in the cardiac intensive care unit. In: *Textbook of Cardiac Intensive Care*. Brown DL (ed.), W.B. Saunders Comp. (Chapter 51):631-634, 1998
224. Abbott BG, Wackers FJTh: Emergency department chest pain units and the role of radionuclide imaging. *J Nucl Cardiol* 5:73-79, 1998

225. Jain D, Shaker SM, Burg M, Wackers FJTh, Soufer R, Zaret BL: Effects of mental stress on left ventricular and peripheral vascular performance in patients with coronary artery disease. *J Am Coll Cardiol* 31:1314-1322, 1998
226. Wu JC, Yun JJ, Heller HN, Dione DP, DeMan Paul, Liu Yi-Hwa, Zaret BL, Wackers FJTh, Sinusas AJ: Limitations of dobutamine for enhancing flow heterogeneity in the presence of single coronary stenosis: Implications for technetium-99m-sestamibi imaging. *J Nucl Med* 39:417-425, 1998
227. Heller GV, Stowers SA, Hendel RC, Herman SD, Daher E, Ahlberg AW, Baron JM, Mendes-deLeon CF, Rizzo JA, Wackers FJTh: Clinical value of acute rest technetium-99m-tetrofosmin tomographic myocardial perfusion imaging in patients with acute chest pain and nondiagnostic electrocardiograms. *J Am Coll Cardiol* 31:1011-1017, 1998
228. DePuey EG, Port S, Wackers FJTh, Rozanski A, Botvinick EH, Dae MW, Tamaki N: Nonperfusion applications in nuclear cardiology: Report of a task force on the American Society of Nuclear Cardiology. *J Nucl Cardiol* 5:218-231, 1998
229. Strauss HW, Miller DD, Wittry MD, Cerqueira MD, Garcia EV, Iskandrian AS, Schelbert HR, Wackers FJTh: Procedure guideline for myocardial perfusion imaging. *J Nucl Med* 39:918-923, 1998
230. Mattera JA, Arain SA, Sinusas AJ, Finta L, Wackers FJTh: Exercise testing with myocardial perfusion imaging in patients with normal baseline electrocardiograms: Cost savings using a step-wise diagnostic strategy. *J Nucl Cardiol* 5:498-506, 1998
231. Liu YH, Rangarajan A, Gagnon D, Therrien M, Sinusas AJ, Wackers FJTh, Zubal G: A novel geometry for SPECT imaging associated with EM-type blind deconvolution method. *IEEE Transaction Journal*. 45(4):2095-2101, 1998
232. Wackers, FJ Th Chapter 16: in *Nuclear Cardiology*: Editors: Zaret BL, Beller GA, State of the art in coronary artery disease detection: technetium-99m-labeled myocardial perfusion imaging agents. 16:273-280, 1998
- 232a. Wallis JW, Wackers FJTh, Motion artifact. in: *Nuclear Radiology (Fifth Series)*, Test and Syllabus. Editor Keyes JW. 229-235, 1998.
233. Urena PE, Lamas GA, Mitchell G, Flaker GC, Smith SC, Gersh BJ, DPhil C, Wackers FJTh, McEwan P, Pfeffer MA: Ejection fraction by radionuclide ventriculography and contrast ventriculogram: A tale of two techniques. *J Am Coll Cardiol* 33:180-5, 1999
234. Wackers FJTh. Blueprint of the Accreditation Program of the Intersocietal Commission for the Accreditation of Nuclear Medicine Laboratories *J Nucl Cardiol* 6:372-374, 1999
235. Shen MYH, Liu Y, Sinusas AJ, Fetterman R, Bruni W, Drozhinin OE, Zaret BL, Wackers FJTh. Quantification of Regional Myocardial Wall Thickening on ECG-Gated SPECT Imaging. *J Nucl Cardiol* *J Nucl Cardiol* 6:583-595, 1999
236. Liu YH, Sinusas AJ, Deman P, Zaret BL, Wackers FJTh. Quantification of SPECT myocardial perfusion images: Methodology and validation of the Yale-CQ method. *J.*

- Nucl Cardiol 6:190-203; 1999
237. Wackers FJTh and Zaret BL. Risk Stratification Soon After Acute Infarction. Editorial, *Circulation* 100:2040-2042, 1999
 238. Wackers FJTh. The clinical importance of quantification of stress-rest SPECT radionuclide myocardial perfusion images. *ACC Current Journ Rev* 8:65-70, 1999
 239. Wackers FJTh. Attenuation Correction, or the Emperor's New Clothes. editorial, *J Nucl Med* 40:1310-1312; 1999
 240. Samady H, Elefteriades JA, Abbott BG, Mattera JA, McPherson CA, Wackers FJTh Failure to improve left ventricular function after coronary revascularization for ischemic cardiomyopathy is not associated with worse outcome. *Circulation* 100:1298-1304, 1999
 241. Wackers FJTh. Can acute rest imaging shorten evaluation in chest pain centers? Editorial, *J Nucl Cardiol* 6:676-678, 1999
 242. Stowers SA, Eisenstein EL, Wackers FJTh, Berman DS, Blackshear JL. An Economic Analysis of an Aggressive Diagnostic Strategy with Single Photon Emission Computer Tomography Myocardial Perfusion Imaging and Early Exercise Stress Testing in Emergency Department Patients Who Present with Chest Pain but Nondiagnostic Electrocardiograms: Results From a Randomized Trial. *Ann Emerg Med* 35: 17-25, 2000
 243. Abbott BG, Wackers FJTh. The Role of Radionuclide Imaging in the Triage of Patients with Chest Pain in the Emergency Department. *Rev Port Cardiol*; 19(supl I):53-61, 2000
 244. Vallejo E, Dione DP, Bruni WL, Constable RT, Borek PP, Soares JP, Carr JG, Condos SG, Wackers FJTh, Sinusas AJ. Reproducibility and Accuracy of Gated SPECT for Determination of Left Ventricular Volumes and Ejection Fraction: Experimental Validation Using MRI. *J Nucl Med* 41:874-882, 2000
 245. Wackers FJTh. ICANL and ACR Nuclear Medicine Accreditation: A Comparison. *J Nucl Med* 41:26N-28N, 2000
 246. Wackers FJTh. Imaging in Women with Chest Pain. *Quarterly J Nucl Med* 44:suppl 1 8-9, 2000
 247. Wackers FJTh. Algorithms for Evaluation of Patients with Chest Pain in a Chest Pain Center. *Quarterly J Nucl Med* 44:suppl 1 25-27, 2000
 248. Wackers FJTh. Intersocietal Commission for the Accreditation of Nuclear Medicine Laboratories (ICANL) Position Statement on Standardization and Optimization of Nuclear Cardiology Reports. *J Nucl Cardiol* 7:397-400, 2000
 249. Kirac S, Wackers FJTh, Lui Y-H. Validation of the Yale Circumferential quantification Method Using 201Tl and 99mTc: A Phantom Study. *J Nucl Med* 41:1436-1441, 2000
 250. Vallejo E, Dione DP, Sinusas AJ, Wackers FJTh. Assessment of Left Ventricular Ejection Fraction with Quantitative Gated SPECT: Accuracy and Correlation with First-

pass Radionuclide Angiography. *J Nucl Cardiol* 7:461-470, 2000

251. Mattera JA, Mendes de Leon C, Wackers FJTh, Williams CS, Wang Y, Krumholz HM. Association of Patients' Perception of Health Status and Exercise Electrocardiogram, Myocardial Perfusion Imaging, and Ventricular Function Measures. *Am Heart J* 140:409-18, 2000
252. Hong L, Wackers FJTh, Dewar M, Kashgarian M, Askenase PW. Atypical Fatal Hypocomplementemic Urticarial Vasculitis with Involvement of Native and Homograft Aortic Valves in an African American Man. *J Allergy Clin Immunol* 106:1196-1198: 2000
253. Kim RW, Ugurlu BS, Tereb DA, Wackers FJTh, Tellides G, Elefteriades JA. Effect of Left Ventricular Volume on Results of Coronary Artery Bypass Grafting. *Am J Cardiol* 86:1261-1264; 2000
254. Ramahi TM, Longo MD, Cadariu AR, Rohlf K, Carolan SA, Engles KM, Samady H, Wackers FJTh. Left Ventricular Inotropic Reserve and Right Ventricular Function Predict Improvement of Left Ventricular Ejection Fraction after Beta-Blocker Therapy in Non-ischemic Cardiomyopathy. *J Am Coll Cardiol.* 37:818-824, 2001
255. Ramahi TM. Longo MD. Cadariu AR. Rohlf K. Slade M. Carolan S. Vallejo E. Wackers FJTh. Dobutamine-induced augmentation of left ventricular ejection fraction predicts survival of heart failure patients with severe non-ischemic cardiomyopathy. *Eur Heart J.* 22: 849-856, 2001
256. Abbott BG, Abdel-Aziz I, Nagula S, Monico EP, Schriver JA, Wackers FJTh. Selective Use of SPECT Myocardial Perfusion Imaging In a Chest Pain Center. *Am J Cardiol* 87: 1351-1355; 2001
257. Russell RR, Chyun D, Song S, Sherwin RS, Tamborlane WV, Forrester AL, Pfeifer MA, Rife F, Wackers FJTh, Young LH. Cardiac responses to insulin-induced hypoglycemia in nondiabetic and intensively treated type 1 diabetic patients. *Am J Physiol. Endocrinol. Metab.* 281:E1029-E1036, 2001
258. Wackers FJTh, Soufer R, Zaret BL. Nuclear Cardiology. In *Heart Disease, A Textbook of Cardiovascular Medicine (Chapter 9, 6th Edition)*. Braunwald E, Zipes DP, Libby P (eds). W.B. Saunders Company, Philadelphia, 273-316, 2001
259. Abbott BG, Wackers FJTh. Radionuclide imaging for detection of infarction and ischemia in patients with acute chest pain. *International Congress Series* 1228;87-91, February 2002
260. Wackers FJTh. Should SPECT attenuation correction be more widely employed in routine clinical practice? Against. *Eur. J. Nucl Med.* 29:412-415, 2002
261. Wackers FJTh and Zaret BL. Detection of Myocardial Ischemia in Patients with Diabetes Mellitus. *Circulation*, 105:5-7, 2002

262. Shi CQ, Young LH, Daher E, DiBella EVR, Liu Y-HL, Heller EN, Zoghbi S, Wacker FJTh, Soufer R, Sinusas AJ. Correlation of Myocardial p-123I-Iodophenylpentadecanoic Acid Retention with 18F-FDG Accumulation during Experimental Low-Flow Ischemia. *J. Nuclear Med*, 43:421-431, 2002
263. Samady H, Wackers FJTh, Joska TM, Zaret BL, and Jain D. Pharmacologic stress perfusion imaging with adenosine: Role of simultaneous low-level treadmill exercise. *J Nucl Cardiol* 9:188-196, 2002
264. Wackers FJTh, Brown KA, Heller GV, Kontos MC, Tatum JL, Udelson JE, Ziffer JA. American Society of Nuclear Cardiology position statement on radionuclide imaging in patients with suspected acute ischemic syndromes in the emergency department or chest pain center. *J Nucl Cardiol* 9:246-250, 2002
265. Wackers FJTh. Editorial: Attenuation compensation of cardiac SPECT: A critical look at a confusing world. *J Nucl Cardiol* 9:438-44, 2002
266. Liu YH, Lam PT, Sinusas AJ, Wackers FJTh. Differential Effect of 180° and 360° Acquisition Orbits in the Accuracy of SPECT Imaging: Quantitative Evaluation in Phantoms. *J Nucl Med* 43:1115-1124, 2002
267. Abbot BG, Afshar M, Berger AK, Wackers FJTh. Prognostic Significance of Ischemic Electrocardiographic Changes during Adenosine Infusion in Patients with Normal Myocardial Perfusion Imaging. *J Nucl Cardiol* 10:9-16, 2003
268. Wackers, FJT. Myocardial Perfusion Imaging. *Diagnostic Nuclear Medicine*, 4th Ed. Sandler, Coleman, Wackers, Patton, Gottschalk (eds), Lippincott, Williams & Wilkins, Philadelphia. 273-317, 2003
269. Sinusas AJ, Wackers FJTh. Myocardial Perfusion Imaging in the Assessment of Therapeutic Interventions. In: *Nuclear Cardiac Imaging: Principles and Applications*. 3rd Edition. Iskandrian AF, Verani MS (eds), 2003
270. Wackers FJTh. Accreditation of Nuclear Cardiology Laboratories: An Educational Process. Editorial, *J Nucl Cardiol* 10:205-7, 2003
271. Samady H, Liu YH, Choi CJ, Ragosta M, Pfau SE, Cleman MW, Powers ER, Kramer CM, Wackers FJTh, Beller GA, Watson DD. Electromechanical Mapping for Detecting Myocardial Viability and Ischemia in Patients with Severe Ischemic Cardiomyopathy. *Amer J Cardiol* 91: 807, 2003
272. Abbott BG, Wackers FJTh. Use of radioisotope imaging in acute coronary syndromes. *Curr Cardio Rep* 5:25-31, 2003
273. Kosiborod M, Wackers FJTh. Assessment of right ventricular morphology and function. *Seminars in Respiratory and Critical Care Medicine* 24: 245-261, 2003
274. Navare SM, Wackers FJTh, Liu YH. Comparison of 16-frame and 8-frame gated SPECT

- imaging for determination of left ventricular volumes and ejection fraction. *Eur J Nuc Med Mol Imaging* 30:1330-1337, 2003
275. Arrighi JA, Abbott BG, Wackers FJTh. Planar and SPECT Equilibrium Radionuclide Angiography. In: *Nuclear Cardiology. Technical Applications*. Eds Heller GV, Mann A, Hendel RC. McGraw Hill Medical 2009, New York, Chapter 19, pg 301- 311.
 276. Hendel RC, Wackers FJTh, Berman DS, Ficaro E, DePuey EG, Tilkemeir P, Klein L, Cerqueira M. Reporting of radionuclide myocardial perfusion imaging studies. *J Nuc Cardiol* 10:705-708, 2003
 277. Udelson JE, Heller GV, Wackers FJ Th, Chai A, Hinchman D, Coleman PS, Dlsizian V, DiCarli M, Hachamovitch R, Johnson JR, Barrett RJ, Gibbons RJ. Randomized, controlled dose-ranging study of selective adenosine A2A receptor agonist binodenoson for pharmacological stress as an adjunct to myocardial perfusion imaging. *Circulation* 109:r15-r22, 2004
 278. Johnson BF, Nesto RW, Pfeifer MA, Slater WR, Vinik AI, Chyun DA, Law G, Wackers FJ Th, Young LH. Cardiac abnormalities in diabetic patients with neuropathy: Effects of aldose reductase inhibitor administration. *Diabetes Care* 27:448-454, 2004
 279. Curtis JP, Ko DT, Yun Wang MS, Wackers FJ Th, Foody JM. The Prognostic Value of Vasodilator Myocardial Perfusion Imaging in Octogenarians. *Am J of Ger Cardiol* 13: 239-247, 2004
 280. Wackers FJ Th, Young LH, Inzucchi SE, Chyun DA, Davey JA, Barrett EJ, Taillerfer R, Wittlin SD, Heller GV, Filipchuk N, Engel S, Ratner RE, Iskandrian AE, for the Detection of Ischemia in Asymptomatic Diabetics (DIAD) Investigators. Detection of Silent Myocardial Ischemia in Asymptomatic Patients with Type 2 Diabetes (The DIAD Study). *Diabetes Care* 27; 1954-1961, 2004
 281. Papaioannou GI, Seip RL, Grey NJ, Katten D, Taylor A, Inzucchi SE, Young LH, Chyun DA, Davey JA, Wackers FJTh, Iskandrian AE, Ratner RE, Robinson EC, Carolan S, Engel S, Heller GV. Brachial artery reactivity in asymptomatic patients with type 2 diabetes mellitus and microalbuminuria (from the detection of ischemia in asymptomatic diabetics-brachial artery reactivity study) *Am J Cardiol* 94; 294-299, 2004
 282. Wackers FJTh. SPECT detection of Coronary artery disease. In: *Atlas of Nuclear Cardiology*. Eds. Dilsizian V, Narula J. Current Medicine Inc, Philadelphia, PA, pp 63-77,2003
 283. Wackers FJTh. Coronary Artery Disease, Exercise Stress. In: *Clinical Nuclear Cardiology, State of the art and future directions*. 3rd Edition. Eds Zaret BL, Beller GA. Elsevier Mosby, 215-232, 2004
 284. Wackers FJTh. Stress myocardial perfusion imaging inpatients with diabetes mellitus. In: *Clinical Nuclear Cardiology, State of the art and future directions*. 3rd Edition. Eds Zaret BL, Beller GA. Elsevier Mosby, 349-355, 2004
 285. Kontos MC, Wackers FJTh. Acute rest myocardial perfusion imaging for chest pain.*J*

- Nucl Cardiol 11; 470-481, 2004
286. Inzucchi SE, Young LH, Chyun DA, Wackers FJTh. Screening for coronary artery disease in diabetic patients: The DIAD Study. *Brit J Diab Vasc Dis* 4:317-319, 2004
 287. Wackers, FJTh, Bruni W, Zaret BL. *Nuclear Cardiology: The Basics, how to set up and maintain a laboratory*. 1st Edition, Humana Press, Totowa, New Jersey, 2004
 288. Liu, Y-H, Sinusas, A.J., Khaimov, Gebuza, BI, Wackers FJTh. New hybrid count- and geometry-based method for quantification of left ventricular volumes and ejection fraction from ECG-gated SPECT: Methodology and validation. *J of Nucl Cardiol*; 12:55-65, 2005
 289. Wackers FJ Th. Diabetes and coronary artery disease: the role of stress myocardial perfusion imaging. *Cleveland Clinic J Med* 72:21-33, 2005
 290. Wackers FJTh. On the bright right side. *J Nucl Cardiol* 12:378-80, 2005
 291. Wackers FJTh. Third Annual Mario S. Verani M.D. Memorial Lecture: The future of clinical nuclear cardiology. *J Nucl Cardiol*;12:381-91, 2005
 292. Masood Y, Liu Y, DePuey EG, Taillefer R, Araujo LI, Allen S, Delbeke D, Anstett F, Peretz A, Zito MJ, Tsatkin V, Wackers FJTh. Clinical validation of attenuation correction using x-ray CT-derived attenuation maps. Multi-center clinical trial with angiographic correlation. *J Nuc Cardiol* 12(6):676, 2005
 293. Jang IK, Pettigrew V, Picard MH, Kowey PR, Demmel V, Zile MR, Tatsuno J, Wackers FJTh, Hibberd M. A randomized, double-blind, placebo-controlled study of the safety and efficacy of intravenous MCC-135 as an adjunct to primary percutaneous coronary intervention in patients with acute myocardial infarction: rationale and design of the evaluation of MCC-135 for left ventricular salvage in acute MI (EVOLVE) study. *J Thromb Thrombolysis*. 20:147-53, 2005.
 294. Jang IK, Weissman NJ, Picard MH, Zile MR, Pettigrew V, Shen S, Tatsuno J, Hibberd MG, Wackers FJTh and the EVOLVE Investigators. A randomized, double-blind, placebo-controlled study of the safety and efficacy of intravenous MCC-135 as an adjunct to primary percutaneous coronary intervention in patients with acute myocardial infarction. *Am Heart Journal*;155-1;113.e1-113.e8, 2008.
 295. Wackers, FJTh, Davey JA. Detection of silent coronary artery disease in asymptomatic patients with type 2 diabetes mellitus. *US Cardiology*;44-46, 2006
 296. Scholte JHA, Bax JJ, Wackers FJTh. Screening of asymptomatic patients with type 2 diabetes mellitus for silent coronary artery disease. Combined use of stress myocardial perfusion imaging and coronary calcium scoring. *J Nuc Cardiol*; 13:11-18, 2006
 297. Cerqueira MD, Berman DS, DiCarli MF, Schelbert HR, Wackers FJTh, Williams KA. Task Force 5: Training in Nuclear Cardiology. *J Am Coll Cardiol*. 47:898-904, 2006

298. Chyun DA, Katten DM, Melkus GD, Talley S, Davey JA, Wackers FJTh. The impact of screening for asymptomatic myocardial ischemia in individuals with type 2 diabetes. *J Cardio Nursing*. 21:E1-E7, 2006
299. Miller TD, Redberg RF, Wackers FJTh. Screening asymptomatic diabetic patients for coronary artery disease. Why not? *J Am Coll Cardiol*;48:761-764, 2006
300. Wackers FJTh. Asymptomatic patients with diabetes mellitus should be screened for coronary artery disease. *J Nucl Cardiol*;13:609-615, 2006
301. Chyun DA, Melkus GD, Katten DM, Price WJ, Davey JA, Grey N, Heller G, Wackers FJTh. The Association of Psychological Factors, Physical Activity, Neuropathy, and Quality of Life in Type 2 Diabetes. *Biological Research for Nursing*;7(4):279-288, 2006.
302. Bax JJ, Abbott BG, Berman DS, Garcia EV, Gropler RS, Hendel RC, Jain D, Mieres JH, Russell RR, Shaw LJ, Udelson JE, Wackers FJTh. Highlights of the 2005 Scientific Sessions of the American Society of Nuclear Cardiology: Seattle, Washington. *J Am Coll Cardiol* 47:1478-1484, 2006
303. Tilkemeier PL, Wackers FJTh. Myocardial perfusion planar imaging. *J Nucl Cardio*. 13:e91-6, 2006
304. Papaioannou GI, Kasapis C, Seip RL, Grey NJ, Katten D, Wackers FJTh, Inzucchi SE, Engel S, Taylor A, Young LH, Chyun DA, Davey JA, Iskandrian AE, Ratner RE, Robinson EC, Carolan S, Heller GV. Value of peripheral vascular endothelial function in the detection of relative myocardial ischemia in asymptomatic type 2 diabetic patients who underwent myocardial perfusion imaging. *J Nucl Cardiol* 12: 362-368, 2006.
305. Abu-Khalaf M, Juneja V, Chung G, DiGiovanna M, Sipples R, McGurk M, Zeltermann D, Haffty B, Reiss M, Wackers FJTh, Lee F, Burtness B. Long term assessment of cardiac function after dose –dense and –intense sequential doxorubicin (A), paclitaxel (T) and cyclophosphamide (C) as adjuvant therapy for high risk breast cancer. *Breast Cancer Research and Treatment*; 104:341-349, 2007.
306. Bax JJ, Abbott BG, Beanlands RS, Bengel F, Berman DS, Garcia EV, Hendel RC, Mieres JH, Shaw LJ, Wackers FJTh. Highlights of the 2006 Scientific Sessions of the American Society of Nuclear Cardiology. *J Am Coll Cardiol*; 49:502-508, 2007
307. Russell RR, Abbott BG, Arrighi JA, Mengel FM, Cohen MC, Garcia EV, Hendel RC, Holly TA, Mieres JH, Shaw LJ, Thomas GS, Thompson RC, Wackers FJTh, Bax JJ. Highlights of the 2007 Scientific Sessions of the American Society of Nuclear Cardiology. *J Am Coll Cardiol*; 50:2336-2343, 2007
308. Wackers FJTh. Quantification of SPECT myocardial perfusion images. In: *Nuclear Cardiac Imaging: Principles and Applications*. 4th Edition. Iskandrian AE, Garcia EV (eds), Chapter 6, pg 102-116, 2008.
309. Cerqueira MD, Berman DS, Carli MF, Schelbert HR, Wackers FJTh, Williams KA. Task Force 5: Training in Nuclear Cardiology. *J Am Coll Cardiol* 51: 368-374, 2008.

310. Wackers FJTh, Bruni W, Zaret BL. Nuclear Cardiology, The Basics; How to Set Up and Maintain a Laboratory. Second Edition, Humana Press, NJ, 2008.
311. Wackers FJTh, Chyun DA, Young LH, Heller GV, Iskandrian AE, Davey JA, Barrett EJ, Taillefer R, Wittlin SD, Filipchuk N, Ratner RE, Inzucchi SE. Resolution of Asymptomatic Myocardial Ischemia in Patients with Type 2 Diabetes in the Detection of Ischemia in Asymptomatic Diabetes DIAD Study. *Diabetes Care*; 30:2892-2898, 2007.
312. Scholte AJHA, Schuijf JD, Kharagjitsingh AV, Dibbets-Schneider P, Stokkel MP, Jukema JW, vander Wall EE, Bax JJ, Wackers FJTh. Different manifestations of coronary artery disease by stress SPECT myocardial perfusion imaging, coronary calcium scoring and multi-slice CT coronary angiography in asymptomatic patients with Type 2 diabetes mellitus. *J Nucl Cardiol* 15; 503-509, 2008.
313. Knuuti J, Poldermans D, Udelson JE, Wackers FJTh and Bax JJ. Imaging Highlights from the European Society of Cardiology, American Society of Nuclear Cardiology, and Heart Failure Society of America. *J Am Coll Cardiol Img* 1; 119-128, 2008.
314. Russell R, Wackers FJTh, Coronary artery disease, Exercise stress. in: *Clinical Nuclear Cardiology 4th Edition*, Chapter 14, pg 225-243. Editors Zaret, BL and Beller, GA. Mosby-Elsevier, 2010.
315. Wackers FJTh, Bax JJ. Stress myocardial perfusion imaging in patients with diabetes mellitus. in: *Clinical Nuclear Cardiology 4th Edition*, Chapter 29. Pg 459-467 Editors Zaret, BL and Beller, GA. Mosby-Elsevier, 2010.
316. Chia S, Senatore F, Raffel OC, Lee H, Wackers FJTh, Jang IK. Utility of cardiac biomarkers in predicting infarct size, left ventricular function and clinical outcome after primary percutaneous coronary intervention for ST-segment elevation myocardial infarction. *J Am Coll Cardiol Intervention* 1; 415-423, 2008.
317. Russell RR, Abbott BG, Arrighi JA, Bengel FM, James A. Case JA, Faber TL, Holly TA, Mieres JH, Miller TD, Shaw LJ, Wackers FJTh, Bax JJ. Highlights of the 2008 Scientific Sessions of the American Society of Nuclear Cardiology. *J Nucl Cardiol* 2009; 16: 440-446.
318. Strauss HW, Miller Dd, Wittry MD, Cerqueira MD, Garcia EV, Iskandrian AS, Schelbert HR, Wackers FJ, Balon HR, Lang O, Machac J. Procedure guideline for myocardial perfusion imaging 3.3. *J Nucl Med Techn* 36; 155-161, 2008.
319. Senior R, Monaghan M, Main ML, Zamorano JL, Tiemann K, Agati L, Weissmann NJ, Klein AL, Marwick TH, Ahmad M, DeMaria AN, Zabalgaitia M, Becher H, Kaul S, Udelson JE, Wackers FJ, Walovitch RC, Picard MH for the RAMP-1 and RAMP-2 Investigators. Detection of coronary artery disease with perfusion stress echocardiography using a novel ultrasound imaging agent: two phase 3 international trials in comparison with radionuclide perfusion imaging. *Eur J Echocardiography* 10; 26-35, 2009.

320. Wackers FJTh. Chest pain in the emergency department, Role of cardiac imaging. *Heart* 2009; 95: 1023-1030.
321. Liu YH, Wackers FJTh (Editors) *Cardiovascular Imaging*, Manson Publishing, London, UK, 2010.
322. Young LH, Wackers FJTh, Chyun DA, Davey JA, Barrett EJ, Taillefer R, Heller GV, Iskandrian AE, Wittlin SD, Filipchuk N, Ratner RE, Inzucchi SE, for the DIAD investigators. Cardiac outcomes after screening for asymptomatic coronary artery disease in patients with type 2 diabetes in the DIAD study. A randomized controlled trial. *JAMA* 2009; 301: 1547-1555.
323. Chia S, Nagurney JT, Brown DFM, Raffel OC, Bamberg F, Senatore F, Wackers FJTH, Jang IK. Association of leukocyte and neutrophil counts with infarct size, left ventricular function and outcomes after percutaneous coronary intervention for ST-elevation myocardial infarction. *Am J Cardiol* 2009; 103: 333-337.
324. Wackers FJTh. Customized exercise testing. Editorial Comment. *J Am Col Cardiol* 2009; 54: 546-548.
325. Wackers FJTh, Young LH. Lessons learned from the detection of ischemia in asymptomatic diabetics (DIAD) study. *J Nucl Cardiol* 2009; 16: 855-859.
326. Schuijf JD, Achenbach S, Zoghbi WA, Boersman E, Raggi P, Weber M, Nagel E, Narula J, Wackers FJTh, Poldermans D, Bax JJ. How to identify the asymptomatic high-risk patient? *Curr Probl Cardiol* 2009; 34:539-577.
327. Wackers FJTh. Cardiac SPECT myocardial perfusion imaging. Finally up to speed? Editorial Comment. *J Am Col Cardiol* 2010; 55: 1975-1978.
328. Cruz-Gonzales I, Chia S, Raffel OC, Sanchez-Ledesma M, Senatore F, Wackers FJTh, Nathan DM, Jang IK. Hyperglycemia on admission predicts larger infarct size in patients undergoing percutaneous coronary intervention for acute ST-segment elevation myocardial infarction. *Diabetes Research and Clinical Practice* 2010; 88: 97-102.
329. Bansal S, Wackers FJTh, Inzucchi SE, Chyun DA, Davey JA, Staib LH, Young LH, for the DIAD Investigators. Five-Year Outcomes in “High-Risk” Participants in the

- Detection of Ischemia in Asymptomatic Diabetics (DIAD) Study. A Post-Hoc Analysis. *Diabetes Care* 2011; 34:204-209.
330. Wackers FJTh. The art of communicating, the nuclear cardiology report. *J Nucl Cardiol* 18; 833-835, 2011.
 331. Jain M, Nkonde C, Lin BA, Walker A, Wackers FJTh. 85% of maximal age-predicted heart rate is not a valid endpoint for exercise testing. *J Nucl Cardiol* 18: 1026-1035, 2011.
 332. Tandon S, Wackers FJTh, Inzucchi SE, Bansal S, Staib LH, Chyun DA, Davey JA, Young LH. Gender-based divergence of cardiovascular outcomes in asymptomatic patients with type 2 diabetes. Results from the DIAD study. *Diabetes Vasc Dis Res* 2012; 9:124-130.
 333. Wackers FJTh. Acute chest pain of uncertain etiology, the short and long view. *J Nucl Cardiol* 2012; 19: 220-223.
 334. Sechtem U, Achenbach S, Friedrich M, Wackers F, Zamorano JL. Non-invasive imaging in acute chest pain syndromes. *Eur Heart J Card Im* 2012; 13: 69-78.
 335. Hage FG, Wackers FJTh, Bansal S, Chyun DA, Young LH, Inzucchi SE, Iskandrian AE. The Heart Rate Response to Adenosine: A Simple Predictor of Adverse Cardiac Outcomes in Asymptomatic Patients with Type 2 Diabetes. *Int J Cardiol* 2012; 167: 2952-2957.
 336. Jovin IS, Ebisu K, Liu YH, Finta LA, Oprea AD, Brandt CA, Dziura J, Wackers FJTh. Left ventricular ejection fraction and left ventricular enddiastolic volume in patients with diastolic dysfunction. *Congest Heart Fail* 2013; 19:130-134.
 337. Wackers FJTh, Leppo JA. The origins and early years of the American Society of Nuclear Cardiology. *J Nuc Cardiol* 2013; 20: 6-16.

Miscellaneous:

Slide Series

1. Wackers FJTh: Acute Myocardial Infarction: Thallium-201 imaging. Continuing

Medical Education Service, New England Nuclear. ProClinica Inc., 1981.

2. Wackers FJTh: LV ejection fraction studies with Au-195m. Society of Nuclear Medicine Audiovisual Program. Continuing Education Lecture. June 1983.
3. van der Wall EE, Wackers FJTh: Nuclear Cardiology. Boehringer Ingelheim. Postgraduate Medical Services, 1985.
4. van der Wall EE, Wackers FJTh, Laarman GJ: Thallium-201 Exercise Scintigraphy. Boehringer Ingelheim. Postgraduate Medical Services, 1989.
5. Wackers FJTh and Koster K: Thallium-201, the gold standard, the original. Thallium-201 myocardial perfusion imaging. Mallinckrodt Diagnostic, (slides and audiotape), 1989.
6. Wackers FJTh: Myocardial imaging with Tc-99m-SestaMIBI: basic research and clinical application, 1991.
7. Wackers FJTh: Myocardial imaging with Tc-99m-SestaMIBI: Workshop moderator's guide, 1991.
8. Wackers FJTh, Taillefer R: New Myocardial Perfusion Agents in Acute Chest Pains, Society of Nuclear Medicine Meeting, 1991.
9. Taillefer R, Wackers: New Myocardial Perfusion Agents in Acute Chest Pain. Society of Nuclear Medicine, Continuing Education, Lecturer Series, 1992.

Video/Computer Programs:

1. Wackers FJTh: Acute myocardial infarction. Society of Nuclear Medicine Audiovisual Program. Continuing Education Lecture. June 1988.
2. Wackers FJTh: Gated blood pool imaging. Society of Nuclear Medicine Audiovisual Program. Continuing Education Lecture. June 1988.
3. DePuey G, Berman D, Wackers, Mattera J, Guber A. Myocardial imaging with technetium-99m sestamibi (Cardiolite), 1991.
4. Wackers FJTh, Berman D. Myocardial Perfusion imaging Atlas and Videodisc. Yale University School of Medicine, 1992. DC ROM Mosby
5. Wackers FJTh: Clinical Applications of Myocardial Perfusion Imaging, 1995. CD-ROM for Macintosh. Mosby Publishers.
6. Nuclear Cardiology Self-Assessment Program. Contributors: Tilkemeier, PL, Heller GV, Wackers FJTh. (computer slide series for PC and Mac) The American Society of Nuclear Cardiology, 1996.
7. Nuclear Cardiology Self-Assessment Program II Contributors: Tilkemeier, PL, Heller GV, Wackers FJTh. (computer slide series for PC and Mac) The American Society of Nuclear Cardiology, 1998

Other Publications:

1. Wackers FJTh, Gregoire. The use of Tc-99m SestaMIBI in acute ischemia heart disease in: Myocardial imaging with Tc-99m SestaMIBI a workbook. DePuey G, pg 85-94, 1991 and second edition, pg 171-181, 1994.
2. The Cardiovascular imaging committee, American College of Cardiology; The Committee on Advanced Cardiac Imaging and Technology, Council on Clinical Cardiology, American Heart Association; and Board of Directors, Cardiovascular Council, Society of Nuclear Medicine. ACC/AHA/SNM Policy, Statement: Standardization of Cardiac tomographic imaging. JACC 20:255-256 1992, Circulation 86:338-339, 1992; J Nucl Med 33:1434-1435, 1992; J Nucl Cardiol 1:117-119, 1994.
3. Pfeffer MA, Braunwald E, Moye LA, Basta L, Brown EJ, Cuddy TE, Davis BR, Geltman EM, Goldman S, Flaker GC, Klein M, Lamas GV, Packer M, Rouleau J, Rouleau JL, Rutherford J, Wertheimer JH, Hawkins MC, on Behalf of the SAVE Investigators: Effect of captopril on mortality and morbidity in patients with left ventricular dysfunction after myocardial infarction. N Engl J Med 327:669-77, 1992. (as Director Radionuclide Core Laboratory)
4. Schelbert H, Principle Author, and members of the Cardiovascular Council: Bonow RO, Geltman E, Maddahi J, Schwaiger M. Position Statement: Clinical Use of Cardiac Positron Emission Tomography Position Paper of The Cardiovascular Council of the Society of Nuclear Medicine, J Nucl Med 1993, 34:1385-1388.
5. Wackers FJTh: Fixed myocardial defects: More than just infarcts and scars. Imaging Insights pg 5-8, 1992.
6. Rutherford JD, Pfeffer MA, Moye LA, Davis BR, Flaker GC, Kowey PR, Lamas GA, Miller HS, Packer M, Rouleau JL, Braunwald E, on behalf of the SAVE investigators. Effects of captopril on ischemic events after myocardial infarction. Results of the survival and ventricular enlargement trial. Circulation 90:1731-1738, 1994. (as Director Radionuclide Core Laboratory)
7. Ritchie JL, Gibbons RJ, Johnson LL, Maddahi J, Schelbert HR, Wackers FJTh, Zaret BL: Task force 5: Training in Nuclear Cardiology JACC 25:1, 1995; J Nucl Cardiol 2:167-171, 1995.
8. Hendel RC, Wackers FJTh: Clinical and economic value of radionuclide myocardial perfusion imaging. ASNC, ACNP and CVC SNM ISSN 1082-9652, issue 1, September 1995.
9. Wackers FJTh: Editor Chapter 10. Cardiovascular Nuclear Medicine In: The Year Book of Nuclear Medicine 1996. Editors: Gottschalk A, Blaurock MD, McAfee JG, Wackers F, Zubal IG. Mosby Year Book Publishers, pg 279- 363.
10. Wackers FJTh, SPECT detection of coronary artery disease. In: Atlas of Nuclear Cardiology. Dilsizian V, Narula J, editors. Pgs. 63-77, 2003. Current Medicine, Inc., Philadelphia

11. Wackers FJTh, Young L, Inzucchi S, Chyun D, Davey J. The Prevalence of Silent Myocardial Ischemia in Asymptomatic Patients with Type2 Diabetes Mellitus: Results of the DIAD Study. *Diabetes*, 52: A56, 2003.
12. Wackers FJTh, Young L, Inzucchi S, Davey J. What Defines “Excellent” Diabetes Control? : Analysis of Cardiovascular Disease (CVD) Risk Factors in Patients with Type 2 Diabetes at Target HbA1c. *Diabetes*, 52: A157, 2003.
13. Wackers FJTh, Papaionnou G, Grey N, Seip R, Katten R Taylor A, Iskandrain A, Young L, Ratner R Robinso E, Heller G, Engel S, Davey J, Chyun D. Endothelial Dysfunction in Asymptomatic Type 2 Diabetics with and without Microalbuminuria. *Diabetes*, 52: A164, 2003
14. Wackers FJTh, Young L, Inzucchi S, Chyun D, Davey J, Broadbridge C, Powell J. The Relationship of Autonomic Neuropathy (AN) Symptms to Cardia AN. *Diabetes*, 52: A488, 2003

TIMI RADIOLONUCLIDE CORE LABORATORY

1. TIMI Research Group: The Thrombolysis in Myocardial Infarction (TIMI) Trial. *N Engl J Med* 312:932-936, 1986.
2. TIMI Research Group: Comparison of Invasive and Conservative Strategies After Treatment With Intravenous Tissue Plasminogen Activator in Acute Myocardial Infarction. *N Engl J Med* 320:618-627 (March 9), 1989
3. The TIMI Investigators: Effects of Tissue Plasminogen Activator and a Comparison of Early Invasive and Conservative Strategies in Unstable Angina and Non-Q-Wave Myocardial Infarction. Results of the TIMI IIIB Trial *Circulation* 89:1545-1556, 1994
4. The TIMI Investigators: A comparison of front-loaded tissue-type plasminogen activator, anistreplase and combination thrombolytic therapy for acute myocardial infarction: Results of the thrombolysis in myocardial infarction (TIMI) 4 trial. *J Am Coll Cardiol*, 24:1602-1610, 1994.
5. Elliot M Antman, M.D. for the TIMI 9A Investigators: Hirudin in Acute Myocardial Infarction: Safety Report from the thrombolysis and thrombin inhibition in myocardial infarction (TIMI) 9A trial. *Circulation* 90:1624-1630, 1994.
6. Lee LV for TIMI 6 Investigators. Initial experience with hirudin and streptokinase in acute myocardial infarction: Results of the thrombolysis in myocardial infarction (TIMI) Trial.
7. The TIMI V Investigators: A pilot of recombinant desulfatohirudin compared with heparin in conjunction with tissue-type plasminogen activator and aspirin for acute myocardial infarction: Results of the thrombolysis in myocardial infarction (TIMI) 5 Trial. *J Am Coll Cardiol* 23:393-1003, 1994.
8. Lee LV for the TIMI 6 Investigators: Initial experience with hirudin and streptokinase in acute myocardial infarction: Results of the thrombolysis in myocardial infarction (TIMI)

6 trial. Am J Cardiol 757-13, 1995).

9. The TIMI Investigators: One-Year Results of the thrombolysis in myocardial-infarction investigation (TIMI) Phase II Trial. AM J Cardiol 533-542, 1992.

Interviews:

1. Wackers FJTh: Nuclear cardiology comes of age. Interview with Dr. Scott Ratner in Myocardium 1:8-12, 1988.
2. Wackers FJTh interviewed by Hutter AM: Indications for the Use of Nuclear Cardiology in Today's Treatment of Heart Disease, Accell 27, 1995. (CME tape recording)
3. Detection of Ischemia in Asymptomatic Diabetics (DIAD) trial. Interview with Drs Frans Wackers and Michael Shen. On line: www.TheHeart.org June 2, 2009.