

Curriculum Vita

PART I: General Information

DATE PREPARED: May 10, 2001
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Place of Birth: Athens, Greece

Education:

1984-90	M.D.	Athens University Medical School, Athens Greece
1990-94	Ph.D. (Medicine/Clin. Microbiol.)	Athens University Medical School, Athens Greece

Postdoctoral Training:

Year	Title	Specialty/Discipline	Place of Training
1990-91	Resident	Anesthesiology	Tzaneion Hospital, Pireas Greece
1991-94	Resident	Internal Medicine	New England Medical Center, Boston MA
1994-97	Fellow	Cardiology/Nuclear Cardiology	Univ. of Connecticut Health Center, Farmington CT
1997-98	Fellow	Cardiac MRI	Beth Israel Deaconess Medical Center, Boston, MA

Licensure and Certification:

1990	Educational Commission for Foreign Medical Graduates (ECFMG)
1992	Federation Licensure Examination (FLEX)
1994	Diplomate, American Board of Internal Medicine
1995-97	Licensed Physician, State of Connecticut
1997	Licensed Physician, State of Massachusetts
1997	Diplomate, American Board of Internal Medicine / Cardiovascular Disease
1997	Certification Board of Nuclear Cardiology (CBNC)

Academic Appointments:

1998-99	Instructor in Medicine	Harvard Medical School, Boston MA
2000-	Assistant Professor in Medicine	Harvard Medical School, Boston MA

Hospital Appointments:

1998- Director of Nuclear Cardiology Beth Israel Deaconess Medical Center, Boston, MA
1998- Physician, Active Staff Beth Israel Deaconess Medical Center, Boston, MA

Service Responsibilities:

1998- Attending Physician, Exercise Laboratory Beth Israel Deaconess Medical Center, Boston, MA
1998- Attending Physician, Consultation and Ward Service Beth Israel Deaconess Medical Center, Boston, MA

Major Administrative Responsibilities:

1998- Director, Nuclear Cardiology Beth Israel Deaconess Medical Center, Boston, MA
1999- Secretary New England Hellenic Medical and Dental Society
1999,2000 Chairman/Organizer, Annual Research Symposium, New England Hellenic Medical and Dental Society
2000 Chairman/Organizer, Cardiology Fellows Tutorial in Nuclear Cardiology, New England
2001 Chairman/Organizer, Nuclear Cardiology in the Outpatient Setting

Professional Societies:

1994- American College of Cardiology Member
1994- American Heart Association Member, Clinical Cardiology Council
1997- Society of Cardiac Magnetic Resonance Member
1998- American Society of Nuclear Cardiology Member
1999- New England Hellenic Medical and Dental Society Member

Awards and Honors:

1984-87, 1989 National Scholarship Foundation Award, Greece
1985-90 Papadakis Memorial Award, University of Athens, Greece
1988 Parkinson Disease Foundation Research Scholarship
1991-94 Kriezis Memorial Award, University of Athens, Greece
1993 American College of Physicians - Associates' Competition Research Award
1995 American College of Cardiology/Intermedics Learning Center Scholarship
1995 American College of Cardiology/Bristol-Myers Squibb Travel Award
1996 American College of Cardiology/Intermedics Learning Center Scholarship
1996 American Heart Association/Genentech Travel Award
1997 American Heart Association/ Bristol-Myers Squibb Travel Award
1998 Fellow, American College of Cardiology
1999 Harvard-M.I.T. / Beth Israel Deaconess Medical Center – Pfizer C.I.T.P. fellowship

Nominations:

1999 Harvard Medical School S. Robert Stone Teaching Award
1999 American College of Cardiology W. Proctor Harvey MD Young Teacher Award
2000 Harvard Medical School Faculty Award for Excellence in Clinical Teaching
2000 Harvard Medical School S. Robert Stone Teaching Award

Part II: Research, Teaching and Clinical Contributions

A. Report of Research, Teaching and Clinical Contributions

The use of novel noninvasive imaging technology to diagnose and evaluate the extent of coronary artery disease has been the main theme of my research. I have used nuclear cardiology and magnetic resonance imaging techniques to assess the presence and severity of coronary stenoses. In particular, I have investigated the use of gated single-photon emission tomography with Tc-99m simultaneous myocardial perfusion and systolic function to differentiate ischemic and nonischemic cardiomyopathies. Currently, I am investigating the use of this technique to assess the presence of coronary disease in branch vessels. I have also used cardiac magnetic resonance imaging to study and improve free-breathing techniques for visualization of the coronary arteries. For this purpose I have investigated the relationship of coronary and diaphragmatic respiratory motion, and the use of diaphragmatic navigators to measure cardiac motion and to guide image acquisition for coronary magnetic resonance angiography. Presently I am investigating the use of novel intravascular agents that change the magnetic properties of blood and allow high resolution (submillimeter) imaging of the coronaries. I am also investigating the cardiac abnormalities in obesity (using cardiac magnetic resonance imaging) and their association with serum hormone levels.

My current teaching responsibilities include the coordination of the cardiology fellows' training in nuclear cardiology. For this purpose, I organize and supervise regular reading sessions during which I guide the fellows through the interpretation of nuclear cardiac studies. I also coordinate a weekly nuclear cardiology conference, during which interesting cases are presented and discussed. Finally, I am organizing monthly nuclear cardiology journal clubs and research meetings. On a national level I serve as a member of the Training and Credentialing Committee of the American Society of Nuclear Cardiology and I have been appointed as the chairman for the ASNC/SNM Trainee Tutorial Programs in Nuclear Cardiology.

My clinical responsibilities include serving as the inpatient service, stress test and consult cardiology attending for a period of 6 weeks/year. During this time I supervise the work of one cardiology fellow, 4 residents and 2-3 3rd and 4th year medical students.

B. Funding Information

1994	Hartford Hospital	PI: Gary V. Heller, MD, PhD	Gated SPECT and cardiomyopathy
1998	Am. Heart Assoc. Grant-in-Aid	PI: Ming Hui Chen, MD	MRI for heart position and XRT
1999	Dupont Radiopharmaceuticals	PI: Peter G. Danias, MD, PhD	SPECT for branch CAD
1999	EPIX Medical, Inc.	PI: Peter G. Danias, MD, PhD	MS-325 enhanced-coronary MRA
1999	Dupont Radiopharmaceuticals	PI: Peter G. Danias, MD, PhD	Gated SPECT for RV evaluation
2000	Eli Lilly & Co.	PI: Peter G. Danias, MD, PhD	Raloxifene and aortic elasticity

C. Report of Current Research Activities

Coronary MRA using intravascular contrast agents	Principal Investigator (5%)
Hormonal determinants of cardiac function in obesity	Principal investigator (10%)
Use of SPECT cardiac imaging to evaluate branch CAD	Principal investigator (5%)
Use of gated SPECT for assessment of the RV	Principal investigator (5%)
Measurement of aortic elasticity using MRI	Principal Investigator (20%)
Assessment of coronary MRA for evaluation of CAD	Principal Investigator: Warren J. Manning, MD (5%)
The MARRVEL study: LV function post MI by MRI	Principal Investigator: Nathaniel Reichek, MD (5%)

D. Major Research Interests

Coronary magnetic resonance angiography
Assessment of aortic elasticity using magnetic resonance imaging
Nuclear cardiac imaging in patients with systolic left ventricular dysfunction

E. Report of Teaching

1. Local contributions

a. University of Athens Medical School, Greece

1985-86	Biology Laboratory Teaching Assistant	50 students	8 hours/year
1986-87	Anatomy Laboratory Teaching Assistant	25 students	100 hours/year

b. University of Connecticut, School of Medicine

1993-94	Physical Therapy Course in Cardiology	50 students	2 hours/year
1994	Cardiology Course (ECG) 2 nd Year Medical Students	50 Students	2 hours/year

b. Harvard Medical School Courses

1998-	Cardiology Consultation/Ward elective Attending	6-9 students/year	6 weeks/year
1999-	Patient-Doctor II Course 3 rd Year Medical Students	35 students	8 hours/year
1999-	Comprehensive Examination 4 th Year Medical Students	10 students	4 hours/year

c. Graduate Medical Courses (ongoing)

1998-	Nuclear Cardiology Teaching Sessions, Organizer and Discussant		150 hours/year
1998-	Nuclear Cardiology Clinical Conferences, Discussant		40 hours/year
1998-	Cardiology Lecture Series – Cardiology Fellows		20 hours/year
1998-	Nuclear Medicine Lecture Series – Nuclear Medicine Residents		1 hour/year

2. National Contributions

1998-	Reviewer and contributor of questions for ABIM Cardiovascular Disease Certification Examination
1999-	Reviewer, Journal of American College of Cardiology
1999-	Reviewer, Journal of Magnetic Resonance Imaging

- 2000- Reviewer, American Journal of Cardiology
- 2000- Reviewer, American Journal of Medicine
- 2000- Reviewer, Journal of Nuclear Medicine
- 2000- Member, Training and Credentialing Committee, American Society of Nuclear Cardiology
- 2000- Chair, CME Task Force “Fellow Tutorial”, American Society of Nuclear Cardiology

3. Invited Lectures

- 04/99 The Clinical and Biological Basis of the Ehlers-Danlos Syndrome, Banbury Center, Cold Spring Harbor Laboratory, New York
Topic: Non-Invasive Assessment of the Elastic Properties of Medium Size Arteries
- 08/99 BIDMC Cardiology Research Seminar
Topic: Nuclear Cardiology Research – An update
- 10/99 Cardiovascular MR Imaging for the Cardiac Patient. The MRI Centers of New England, Springfield MA
Topic: Coronary MR Angiography
- 12/99 Cardiology Conference, St. Elizabeth’s Medical Center, Boston MA
Topic: Cardiac MRI. Current Status and Future Perspectives
- 01/00 5th Annual Course on Interventional Cardiology and Angiology. “Live Course 2000”, Hamburg Germany
Topic: Angio MR of the Coronary Arteries. Present and Future
- 03/00 Philips MR Symposium, Anaheim CA
Topic: Coronary MR Angiography
- 05/00 Cardiology Fellows Tutorial in Nuclear Cardiology, New England, Boston MA
Topics: How to interpret a gated SPECT myocardial perfusion study
Gated SPECT for diagnosis of CAD and assessment of prognosis
Nuclear cardiology in women
- 06/00 Meeting on Current Status and Future Perspectives of Cardiac Magnetic Resonance, Athens Greece
Topic: Coronary Imaging using Cardiac MR
- 08/00 Cardiovascular MR Symposium, Houston, TX
Topic: Coronary Magnetic Resonance Angiography. Reality or Fiction?
- 08/00 Cardiology Conference, University of Alabama at Birmingham, Birmingham AL
Topic: MRI Applications and Potential for Assessment of Ischemic Heart Disease
- 09/00 Cardiology Conference, Medical University of South Carolina, Charleston SC
Topic: Nuclear Cardiology Applications in CHF
- 09/00 5th Annual American Society of Nuclear Cardiology Symposium and Scientific Session, Chicago IL
Working Group Challenges
- 09/00 III International Symposium: New Perspectives in Atherosclerosis, Hypertension and Heart Failure, Lisbon Portugal

- Topic: Contribution of MRI to evaluate heart failure and ischemia
- 10/00 Medical Grand Rounds, Beth Israel Deaconess Medical Center, Boston MA
Topic: Nuclear Cardiology: An outdated technology or a powerful diagnostic and prognostic tool in cardiology?
- 02/01 Medical Grand Rounds, Berkshire Medical Center, Pittsfield, MA
Topic: An update on Nuclear Cardiology
- 03/01 Lecture Series (#5) on advanced MR imaging organized by Philips Medical Systems
Hong Kong, Hong Kong (cosponsored by the Hong Kong Society of Magnetic Resonance Imaging Technology); Taipei, Taiwan; Beijing, China; Seoul, Korea; Sydney, Australia
Topic: Advanced Cardiac MR Imaging
- 04/01 Nuclear Cardiology in the Outpatient Setting, Newton MA
Topics: Gated SPECT for diagnosis and assessment of prognosis
Getting the most out of stress testing: Exercise and pharmacologic protocols
- 05/01 Cardiovascular Grand Rounds, Vanderbilt Medical Center, Nashville TN
Topic: Advances in cardiac Magnetic Resonance Imaging

F. Report of Clinical Activities

- 1998- Cardiology Consultation/Ward Service Attending 6 weeks/year
1. Inpatient cardiology and consultation service
Exercise Laboratory
 2. Inpatient Cardiology Ward Service (average census 5-6 patients/day)
Adult Cardiology Consult Service (average census 3-5 patients/day)
Exercise Laboratory Interpreting Physician (average load 20-25 stress tests/day)

Part III: Bibliography:

Original Articles

1. Mytilineou C, Danias P. 6-Hydroxydopamine toxicity to dopamine neurons in culture: Potentiation by superoxide dismutase and N-acetylcysteine. *Biochem Pharmacol* 1989;38:1872-1875.
2. Danias P, Nicklas WJ, Ofori S, Shen J, Mytilineou C. Mesencephalic dopamine neurons become less sensitive to 1-Methyl-4-Phenyl-1,2,3,6-tetra-hydropyridine toxicity during development in vitro. *J Neurochem* 1989;53:1149-1155.
3. Danias P, Papalois B, Souras N, Danias J, Dangas G, Vyssoulis G, Toutouzas P. Correlation of smoking habit to the type of personality in a population of hypertensive patients. *Archives of Hellenic Medicine* 1991;8:173-177.

4. Mylonakis E, Chalevelakis G, Saroglou G, Danias PG, Argyropoulou A, Paniara O, Raptis S. Efficacy of desoxycholate amphotericin B and unilamellar liposomal amphotericin B in prophylaxis of experimental aspergillus fumigatus endocarditis. *Mayo Clin Proc* 1997;72:1022-1027.
5. Weigner MJ, Caulfield TA, Danias PG, Silverman DI, Manning WJ. Risk for clinical thromboembolism associated with conversion to sinus rhythm in patients with atrial fibrillation lasting less than 48 hours. *Ann Intern Med* 1997;126:615-620.
6. Danias PG, McConnell MV, Khasgiwala VK, Chuang ML, Edelman RR, Manning WJ. Prospective navigator correction of image position for coronary MR angiography. *Radiology* 1997;203:733-736.
7. Danias PG, Caulfield T, Weigner M, Silverman DI, Manning WJ. Likelihood of spontaneous conversion of atrial fibrillation to sinus rhythm. *J Am Coll Cardiol* 1998;31:588-592.
8. Danias PG, O'Mahony S, Radford MJ, Korman L, Silverman DI. Serum cholesterol levels are underevaluated and undertreated. *Am J Cardiol* 1998;81:1353-1356.
9. Danias PG, Stuber M, Botnar RM, Kissinger KV, Chuang ML, Manning WJ. Navigator assessment of breath-hold duration: Impact of supplemental oxygen and hyperventilation. *Am J Roentgenol* 1998;171:395-397.
10. Danias PG, Chalevelakis G, Mylonakis EE, Argyropoulou A, Paniara O, Saroglou G, Raptis SA. Comparative in vitro and in vivo efficacy of roxithromycin and erythromycin against a strain of methicillin-susceptible *Staphylococcus epidermidis*. *Diagn Microbiol Infect Dis*. 1998;32:51-54.
11. Danias PG, Ahlberg AW, Clark III BA, Messineo F, Levine MG, McGill CC, Russell A, Clive J, Dougherty JE, Waters DD, Heller GV. Combined assessment of myocardial perfusion and ventricular function with exercise technetium-99m sestamibi gated single-photon emission computed tomography imaging, to differentiate ischemic and nonischemic dilated cardiomyopathies. *Am J Cardiol* 1998;82:1253-1258.
12. Danias PG, Chuang ML, Parker RA, Beaudin RA, Mooney MG, Manning WJ, Douglas PS, Hibberd MG. Relation between the number of image planes and the accuracy of three-dimensional echocardiography for measuring left ventricular volumes and ejection fraction in humans. *Am J Cardiol* 1998;82:1431-1434.
13. Danias PG, Stuber M, Botnar RM, Kissinger KV, Edelman RR, Manning WJ. Relationship between motion of coronary arteries and diaphragm during free-breathing: Lessons from real-time MR imaging. *Am J Roentgenol* 1999;172:1061-1065.
14. Stuber M, Botnar RM, Danias PG, Kissinger KV, Manning WJ. Submillimeter three-dimensional coronary MR angiography with real-time navigator correction: Comparison of navigator locations. *Radiology* 1999;212:579-587.
15. Botnar RM, Stuber M, Danias PG, Kissinger KV, Manning WJ. Improved coronary artery definition with T2-weighted free-breathing three-dimensional coronary MRA. *Circulation* 1999;99:3139-3148.
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17. Stuber M, Botnar RM, Danias PG, Kissinger KV, Manning WJ. Breath-hold three-dimensional coronary magnetic resonance angiography using real-time navigator technology. *Journal of Cardiovascular Magnetic Resonance* 1999;1:233-238.
18. Pescatello LS, Miller B, Danias PG, Werner M, Hess M, Baker C, De Souza MJ. Dynamic exercise normalizes resting blood pressure in mildly hypertensive premenopausal women. *Am Heart J* 1999;138:916-921.
19. Botnar RM, Stuber M, Danias PG, Kissinger KV, Manning, WJ. A fast 3D approach for coronary MRA. *J Magn Reson Imaging* 1999;10:821-825.
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21. Stuber M, Spiegel MA, Fisher SE, Scheidegger MB, Danias PG, Boesiger P. Single breath-hold slice-following CSPAMM myocardial tagging. *MAGMA* 1999;9:85-91.
22. Chuang ML, Danias PG, Riley MF, Beaudin RA, Hibberd MG, Manning WJ, Douglas PS. Effect of increased body mass index on accuracy of 2-dimensional echocardiography for measurement of left ventricular volume, ejection fraction and mass. *Am J Cardiol* 2001;87:371-374.
23. Stuber M, Danias PG, Botnar RM, Sodickson DK, Kissinger KV, Manning WJ. Superiority of prone position in free-breathing 3D coronary MRA in patients with coronary disease. *J Magn Reson Imaging* 2001;13:185-191.

Proceedings of Meetings

1. Danias PG, McConnell MV, Khasgiwala VC, Chen MC, Chuang ML, Edelman RR, Manning WJ. Adaptive navigator correction of slice position in real-time for MR coronary angiography. *Proc Int Soc Magn Reson Med* 1996;177.
2. Stuber M, Botnar R, McConnell M, Danias P, Kissinger KV, Edelman R, Manning WJ. Coronary artery imaging with the intravascular contrast agent MS-325. *Proc Int Soc Magn Reson Med* 1998;1:316.
3. Botnar R, Stuber M, McConnell MV, Danias PG, Kissinger KV, Manning WJ. Functional cardiac imaging using the intravascular contrast agent MS-325. *Proc Int Soc Magn Reson Med* 1998;2:925.
4. Danias PG, Kissinger KV, Stuber M, Chuang ML, Botnar RM, Manning WJ. Breath-hold duration: navigator echo assessment of supplemental oxygen and hyperventilation. *Proc Int Soc Magn Reson Med* 1998;3:2122.
5. Danias PG, Stuber M, Kissinger KV, Botnar RM, Manning WJ. Relationship of cardiac and diaphragmatic respiratory motion assessed by real-time magnetic resonance imaging. *Proc Int Soc Magn Reson Med* 1998;1:721.
6. Botnar R, Stuber M, Kissinger KV, Danias PG, Manning WJ. T2 preparation prepulses for contrast enhancement in 3D-coronary MRA: Implementation with real-time left ventricular navigator tracking. *Proc Int Soc Magn Reson Med* 1998;1:23.
7. Stuber M, Kissinger KV, Botnar RM, Danias PG, Manning WJ. Fast 3D coronary artery imaging using real time navigator tracking and breath holding. *Proc Int Soc Magn Reson Med* 1998;2:847.

8. Stuber M, Danias PG, deBecker J, Botnar RM, Kissinger KV, Manning WJ. Real-time imaging and 3 point planscan – A methodological approach to improve on navigator based slice tracking techniques. *Proc Int Soc Magn Reson Med* 1998;3:1953.
9. Stuber M, Botnar RM, McConnell MV, Danias PG, Kissinger KV, Edelman RR and Manning WJ. Coronary artery imaging with the intravascular contrast agent MS-325. *Proc Int Soc Magn Reson Med* 1998;1:316.
10. Botnar R, Stuber M, Kissinger KV, Danias PG, Manning WJ. Free-breathing 3D coronary MRA with a fast TFE-EPI acquisition technique. *Proc Int Soc Magn Reson Med* 1999;1:233.
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12. Danias PG, Stuber M, Tritos NA Salton C, Kissinger KV, Manning WJ. CSPAMM assessment of systolic and diastolic left ventricular apical rotation in obesity. *Proc Int Soc Magn Reson Med* 2000;3:1613.
13. Stuber M, Kissinger KV, Chen MH, Danias PG, Manning WJ. Non-ECG triggered multi-slice real-time cardiac dobutamine stress imaging. *Proc Int Soc Magn Reson Med* 2000;1:194.
14. Stuber M, Danias PG, Manning WJ. Systolic and diastolic tagging contrast for single-breathhold CSPAMM myocardial tagging. *Proc Int Soc Magn Reson Med* 2000;1:198.

Reviews, Chapters

1. Mytilineou C, Friedman LK, Danias P. Studies on the toxicity of MPTP to dopamine neurons in tissue and cell cultures. In Hefti FF & Weiner WJ eds. *Progress in Parkinson Research*, Plenum Press, NY, 1988; pp. 127-136.
2. Danias P, Hantzistefanou K, Tsopelas Ch, Galani E, Kastellanos S. Infectious endocarditis. In: *Issues in Cardiology*, Cardiologic Clinic, Athens University 1989; pp. 57-98.
3. Waters DD and Danias PG. Coronary artery spasm: Diagnosis and Treatment. In Brown DL (ed.), *Textbook of Cardiac Intensive Care*, WB Saunders Co, Philadelphia, PA, 1998 p. 347-355.
4. Danias PG, Edelman RR, Manning WJ. Coronary MR angiography. *Cardiol Clin* 1998;16:207-225.
5. Weigner MJ, Caulfield TA, Danias PG, Silverman DI, Manning WJ. Conversion-related thromboembolism in patients with atrial fibrillation lasting less than 48 hours. *Cardiology Review* 1998;15:12-14.
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16. Danias PG, Stuber M, Manning W. Coronary MRA – Clinical results. In Manning WJ, Pennell DJ (eds). 2001 (In press).
17. Botnar RM, Stuber M, Danias PG, Kissinger KV, Manning WJ. Coronary Magnetic Resonance Angiography (MRA) – Methods. In Manning WJ, Pennell DJ (eds). 2001 (In press).

Editorials, Letters

1. Danias PG, Silverman DI, Manning WJ. Significant arrhythmias during pericarditis are due to concomitant heart disease. (Letter - reply). *J Am Coll Cardiol* 1998;32:552.
2. Danias PG, Silverman DI. Physician noncompliance with the 1993 national cholesterol education program (NCEP-ATPII) guidelines. (Letter) *Circulation* 1999;99:3325-3326.
3. Danias PG. Stress testing and electron beam computed tomography for evaluation of patients with suspected coronary artery disease. (Letter) *J Am Coll Cardiol* 2001;37:1:334-335.
4. Danias PG. Gadolinium-enhanced cardiac magnetic resonance imaging: Expanding the spectrum of clinical applications. (Editorial) *Am J Med* 2001;110:591-2.

Clinical Communications

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2. Danias PG and Katz AM. Images in Cardiovascular Medicine. Canyon T waves seen as narrowing of anterolateral T-wave inversions in a patient with recurrent chest pain presumed to be due to anterolateral ischemia. *Circulation* 1997;96:344.
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Thesis

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Nonprint materials

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Abstracts

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6. Levine MG, McGill CC, White MP, Ahlberg AW, Danias PG, Fossati AT, Giri S, Waters D, Heller GV. Myocardial viability: a prospective comparison of technetium-99m sestamibi gated SPECT versus rest-redistribution thallium-201 myocardial perfusion imaging. *Circulation* 1997;96 (Suppl I):443.
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