

**DAVID M. MIRVIS, M.D.  
CURRICULUM VITAE**

Date Prepared: January 2012

**Name:** David Marc Mirvis

Current Positions: Professor (adjunct)  
Department of Public Health  
University of Tennessee, Knoxville  
Knoxville, Tennessee

Senior Research Fellow  
Methodist LeBonheur Center for Healthcare Economics  
University of Memphis  
Memphis, Tennessee

Visiting Scientist  
Harvard School of Public Health  
Boston, Massachusetts

Professor (Emeritus)  
University of Tennessee Health Science Center  
Memphis, Tennessee

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**Birthday:** December 20, 1945

**Birth Place:** Hampton, Virginia, USA

**Education**

Undergraduate:	Yeshiva College, New York, NY	1963-1966
Medical School:	Albert Einstein College of Medicine Yeshiva University, Bronx, NY	1966-1970
	M.D. degree	
Internship:	University of Tennessee Affiliated Hospitals, Memphis, TN	
	Straight Medical Internship	1970-1971

Residency:	University of Tennessee Affiliated Hospitals, Memphis, TN	
	Assistant Resident in Medicine	1973-1974
	Chief Resident in Medicine	1974-1975
Fellowship:	University of Tennessee Affiliated Hospitals, Memphis, TN	
	Cardiovascular Diseases	1975-1977

**Honors/Awards:**

National Research Service Award	
National Heart, Lung and Blood Institute	1976-1977
Research Career Development Award	
National Heart, Lung and Blood Institute	1979-1984
Alpha Omega Alpha Honor Society	1993-
Special Recognition for Public Service, Tennessee General Assembly	2005
Listed in Who's Who in America, Who's Who in Health Care, Who's Who in Education	

**Board Certification:**

National Board of Medical Examiners	1972
American Board of Internal Medicine	1975

**Licensure:**

State of Tennessee, No. 9534

**Military Service:**

US Public Health Service, National Institutes of Health	1971-1973
Research Associate, Cardiovascular Physiology	

**Society Memberships:**

American Federation for Clinical Research (elected 1977)  
 American Heart Association Council on Circulation [Fellow] (elected 1981)  
 American Society for Clinical Investigation (elected 1982)  
 Central Society for Clinical Investigation (elected 1979)  
 Society of Sigma Xi (elected 1979)  
 Southern Society for Clinical Investigation (elected 1979)  
 Alpha Omega Alpha (elected 1993)

**University Appointments:**

*University of Tennessee Health Science Center*  
 College of Medicine

Instructor of Medicine	1974-1975
Assistant Professor of Medicine	1975-1978
Associate Professor of Medicine	1978-1983
Chief, Section of Medical Physics	1977-1988
Associate Chief, Division of Circulatory Diseases	1983-1988
Professor of Medicine	1983-
Associate Dean for VA Medical Center Affairs	1988-1997

Professor of Preventive Medicine	1992-2010
Director, Division of Health Services and Health Policy Research, Department of Preventive Medicine	1994-1999
Director, The Center for Health Services Research	1999-2006
Professor Emeritus, College of Medicine College of Graduate Health Sciences	2010-
Graduate Faculty, Masters Program in Epidemiology	1999- 2010
Graduate Faculty, Graduate Program in Health Sciences Administration	1999-2010
Director, Health Policy Focus, Graduate Program in Health Science Administration	2000-2006
Director, MD-MS Program in Health Systems Studies	2008-2009
<i>University of Tennessee, Knoxville</i>	
Department of Public Health	
Adjunct Professor	2010-
Howard Baker Center for Applied Public Policy	
Health Policy Fellow	2010-2011

**Hospital/Clinic Appointments:**

<i>VA Medical Center, Memphis, TN</i>	
Chief, Cardiology Section	1984-1988
Chief of Staff	1987-1997
Cardiology Section	1997-2000

**Practice/Professional Experience:**

UT Medical Group, Cardiology Practice	1978-1987
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**Other Academic Appointments:**

<i>University of Memphis</i>	
Herff College of Engineering	
Adjunct Graduate Faculty	1989-
Fogelman College of Business and Economics	1994-
Adjunct Professor	
Senior Research Fellow, Methodist LeBonheur Center for Health Care Economics	2010-
Consultant, Sparks Bureau for Economic Research	2010-
<i>Harvard University/Beth Israel Medical Center</i>	2002-2006
NIH Research Resource Advisory Committee Chair	2003-2004
<i>Harvard School of Public Health, Harvard University</i>	
Visiting Scientist	2005-

University of Arkansas for Medical Sciences  
Faye Boozeman School of Public Health  
Adjunct Professor

2006-

**Private Sector Experience:**

*Research, Incorporated*  
Board of *Directors* (Founding President)

*UpToDate, Inc.*  
Associate Editor, Section on Electrocardiography

**Teaching Experience:**

*Principles of Health Policy and Systems*  
Developed and taught 2002 - 2010

*Health Policy and Politics*  
Developed and taught 2003-2006

*Health Policy and Rhetoric*  
Developed and taught 2006, 2011

*International Public Health*  
Developed and taught 2008

*Public Health Leadership*  
Developed and taught 2006-2009

*Doctoral Seminar in Health Policy*  
Developed and taught 2011

*Doctoral committees*, students in the health policy focus,  
Graduate Program in Health Sciences Administration

*Other*  
Lectures in health systems and policy, various courses in  
Colleges of Medicine and other Health Science Center colleges.

**Editorial Appointments:**

Editor, Health Policy Series, *Tennessee Medicine*

Editorial Board, *Journal of Health and Human Resource Administration*

Editorial Board, *American Journal of Cardiology*

Editorial Board, *Journal of Electrocardiology*

Editorial Board, *American Journal of Noninvasive Cardiology*

Abstract Review Committee, American Heart Association

Abstract Review Committee, American College of Cardiology

Reviewer, *American Heart Journal*

Reviewer, *Chest*

Reviewer, *Circulation*

Reviewer, *Circulation Research*

Reviewer, *Journal of the American College of Cardiology*

Reviewer, *Journal of the American Geriatric Society*

Reviewer, *Journal of the American Medical Association*

Reviewer, *Journal of Cardiovascular Electrophysiology*

Reviewer, *Journal on Health Care for the Poor and Uninsured*

Reviewer, *Milbank Quarterly*

Reviewer, *Medical Care*

Reviewer, *Public Library of Science (Medicine)*

## **Committees and Offices Held:**

### *University of Tennessee Health Science Center*

University of Tennessee – Hadassah Hebrew University Medical Center  
Medical Student Exchange Program (Director)  
Planning Group for University of Tennessee School of Public  
Health (Chair)  
Public Health Education Coordinating Group (Chair)

### *University of Tennessee College of Medicine*

Task Force on Generalist Education  
Medical Scientist Training Program Advisory Committee (Chair)  
Faculty Advisor, Student Health Policy Interest Group  
Tennessee Interdisciplinary Health Policy Program (Director)  
Medical Student Certificate Program in Health Policy  
and Leadership, Advisory Committee (Founder and Chair)  
Master of Science Program in Health Systems and Policy (Founder and  
Director)

### *Tennessee State Government*

Early Action Committee Advisory Committee (Member)  
Tennessee State Health Planning Commission (Consultant)

### *Shelby County Government*

Shelby County Regional Health Planning Council (Member)  
Shelby County and Memphis Air Pollution Control Board (Member)

### *Department of Veterans Affairs*

Medical District 11 Planning Board (chair)  
Southern Region Planning Board  
National Health Care Reform Task Force  
Departmental Task Force on Presidential Performance Measures

### *American Heart Association*

Committee on Electrocardiography  
Subcommittee on Coronary Care Unit Monitoring (Chair)  
Subcommittee on ECG Standards  
Fellow, American Heart Association

### *Association for Advancement of Medical Instrumentation*

Subcommittee on Ambulatory ECG Monitoring

### *JDC-Brookdale Institute for Gerontology and Human Development in Israel*

Sabbatical Scholar (May-September, 1992)

### *Journal of the Tennessee Medical Association*

Editor, *From the Prevention Center Series*  
Editor, *Health Policy Reports Series*

### *Mid-South Foundation for Medical Care, QSource*

Consultant

## **Other Professional Affiliations and Activities (Selected):**

Consortium for Health and Economic Development in the Delta Region,  
Chair, Steering Committee

Tennessee Consortium for Public Health Workforce Development  
(Executive Director)

WKNO TV, *It Matters Series* on the uninsured (Associate Producer)  
Pfizer, Inc., Pharmaceutical Economics and Policy Council (member)  
NIH Cardiovascular and Renal Study Section  
NIH Special Review Committees  
NIH, NHLBI Clinical Investigator Review Committees

**Research and Other External Support (major and recent only):**

Agency for Healthcare Research and Quality, "Health as Economic Engine"  
Conference Grant, 2003-4

Robert Wood Johnson Foundation, "State Forums Partnership Program:  
2003-2005

Tennessee Department of Health, "Tennessee Consortium for Public Health  
Workforce Development", 2003 – 2009

Tennessee Department of Commerce and Insurance, "State Planning  
Grant" 2004-5

## Books and Book Chapters:

1. Mirvis, D.M.: Isopotential mapping in acute myocardial infarction. In "Electrocardiographic Body Surface Mapping", R. Th. van Dam and A. van Oosterom, eds. Martinus Nijhoff, Boston, 1986.
2. Mirvis, D.M. [editor]: "Body Surface Isopotential Mapping", Kluwer Academic Publishers, Boston, 1988.
3. Mirvis, D.M.: Palpitations. In "Clinical Methods", H.K. Walker, W.D. Hall, J.W. Hurst, eds. Butterworth, Boston, 1990.
4. Mirvis, D.M.: "Electrocardiography: A Physiologic Approach". Mosby Year Book, Boston, 1993.
5. Mirvis, D.M., Prywes M: Medical education in Israel: History, structure and current challenges. In "International Handbook of Medical Education", A.W. Sajid. C. H. McGuire, R.M. Veatch, L.R. Aziz, and L.K.Gunzburger, eds. Greenwood Press, Westport, CT, 1994.
6. Mirvis, D.M.: "Body Surface Potential Mapping." In "Cardiac Arrhythmia: Mechanism, Diagnosis and Management," P.J. Podrid, P.R. Kowey, eds. Williams and Wilkins, Boston, 1995.
7. Mirvis, D.M.: "Physician Behavior". In "Handbook of Health Administration", J. Johnson and A.O. Kilpatrick, eds. Marcel Dekker, Boston, 1999, pp. 439-460.
8. Barth TJ, Mirvis DM, Hill KP, Mulholland KL: "Strategic Planning in a VA Medical Center". In "Handbook of Health Administration", J. Johnson and A.O. Kilpatrick, eds. Marcel Dekker, Boston, 1999, pp 655-668.
9. Mirvis DM, Plonsey R: "The Electrocardiogram and Electrophysiological Analysis". In "Cardiac Arrhythmias", M. Rosen and P. Spooner, eds. Marcel Dekker, Boston, 2000.
10. Mirvis DM, Goldberger AL: "Electrocardiography." In "Heart Disease", E. Braunwald, D. Zipes and P. Libby, eds. W.B. Saunders, Philadelphia, 2001.
11. Mirvis, D.M.: "Billing", "Carve-Outs", "Patient Expectations" and "Per-Diem". Sections in Encyclopedia of Health Care Management, M. Stahl, ed. Thousand Oaks, CA: Sage Publications, 2003.
12. Mirvis, D.M.: "Physician Behavior". In "On-Line Handbook of Health Administration", A.O. Kilpatrick, ed. Marcel Dekker, Boston, 2004.
13. Mirvis DM, Goldberger AL: "Electrocardiography." In "Heart Disease", E. Braunwald, D. Zipes and P. Libby, eds, 7<sup>th</sup> edition. Lippincott, Philadelphia, 2005.
14. Mirvis DM, Goldberger AL: "Electrocardiography." In "Heart Disease", E. Braunwald, D. Zipes and P. Libby, eds, 8<sup>th</sup> edition. Lippincott, Philadelphia, 2007.
15. Mirvis DM, Goldberger AL: "Electrocardiography." In "Heart Disease", E. Braunwald, D. Zipes and P. Libby, eds, 9<sup>th</sup> edition. Lippincott, Philadelphia, 2011.
16. Hall-Campbell A, Connor P, Tipton N, Mirvis DM: "The Tennessee Public Health Workforce Development Consortium: A Multi-Campus Model of

Online Learning for the Public Good". In "Higher Education, emerging Technologies and Community Partnerships." MA Bowdon, RG Carpenter, eds., Hershey, PA: IGI Global.

#### **Peer-Reviewed Journal Articles:**

1. Mirvis, D.M., Kopf, G.S., Potalla, E.W.: The effect of low frequency response catheter systems on the calculation of force velocity parameters in the intact heart. Proceedings 10th Rocky Mountain Bioengineering Symposium, pp. 84-88, 1973.
2. Kopf, G.S., Mirvis, D.M., Myers, R.E.: Central nervous system tolerance to cardiac arrest during profound hypothermia. Journal of Surgical Research 18(5): 29-34, 1975.
3. Mirvis, D.M., Bandura, J.P., and Brody, D.A.: Wenckebach-type exit block from an ectopic focus as a cause of variable coupling. Journal of Electrocardiology 9 (4): 365-370, 1976.
4. Mirvis, D.M., Keller, F.W., Cox, J.W., Jr. and Dowdie, R.F.: Digital computer quantitation of exercise electrocardiograms with construction of precordial isopotential maps. Biomedical Sciences Instrumentation 15:123-127, 1977.
5. Brody, D.A., Mirvis, D.M., Keller, F. W., Cox, J.W., Jr. and Ideker R.E.: The electrocardiographic image surface revisited. Journal of Electrocardiology 10(1): 79-85, 1977.
6. Brody, D.A., Mirvis, D.M., Ideker, R.E., Cox, J.W., Jr., Keller, F.W., Larsen, R.A. and Bandura, J.P.: Relative dipolar behavior of the equivalent T-wave generator: Quantitative comparison with ventricular excitation. Circulation Research 40(3): 263-268, 1977.
7. Mirvis, D.M., Bandura, J.P. and Brody, D.A.: Symptomatic swallowing-induced paroxysmal supraventricular tachycardia. American Journal of Cardiology 39(5): 741-743, 1977.
8. Ideker, R.E., Bandura, J.P., Cox, J.W., Jr., Keller, F.W., Mirvis, D.M., and Brody, D.A.: Path and significance of heart vector migration during QRS and ST-T complexes of ectopic beats in isolated perfused rabbit hearts. Circulation Research 41(4): 558-564, 1977.
9. Mirvis, D.M., Bandura, J.P. and Brody, D.A.: Rate dependent variation in the duration of the QRS complex with left anterior fascicular block,. Chest 72(4): 524-526, 1977.
10. Mirvis, D.M., Keller, F.W., Ideker, R.E., Cox, J.W., Jr., Zettergren, D.G. and Dowdie, R.F.: Values and limitations of surface isopotential mapping techniques in the detection and localization of multiple discrete epicardial events. Journal of Electrocardiology 10(4): 347-358, 1977.
11. Mirvis, D.M., Keller, F.W., Ideker, R.E., Cox, J.W., Jr., Dowdie, R.F. and Zettergren, D.G.: Detection and localization of multiple epicardial electrical generators by a two-dipole ranging technique. Circulation Research 41(4): 551-557, 1977.



12. Mirvis, D.M., Keller, F.W., Cox, J.W., Jr., Zettergren, D.G., Dowdie, R.F. and Ideker, R.E.: Left precordial isopotential mapping during supine exercise. *Circulation* 56(2): 245-252, 1977.
13. Mirvis, D.M., Kopf, G.S. and Potalla, E.W.: Harmonic analysis of the left ventricular pressure waveform of the primate. *Cardiology* 63(2): 79-83, 1978.
14. Mirvis, D.M., Keller, F.W. and Cox, J.W., Jr.: Experimental comparison of four inverse electrocardiographic constructs in the isolated rabbit heart. *Journal of Electrocardiology* 11(1): 57-65, 1978.
15. Mirvis, D.M., Keller, F.W., Ideker, R.E., Zettergren, D.G. and Dowdie, R.F.: Equivalent generator properties of acute ischemic lesions in the isolated rabbit heart. *Circulation Research* 42(5): 767-785, 1978.
16. Mirvis, D.M. and Bandura, J.P.: Atrioventricular nodal gap conduction as a manifestation of dual nodal pathways. *American Journal of Cardiology* 41(5): 1115-1118, 1978.
17. Mirvis, D.M. and Erwin, S.W.: Ventricular pre-excitation and prolonged Q-T interval syndromes in a patient with mitral valve prolapse. *American Heart Journal* 96(4): 529-532, 1978.
18. Ideker, R.E., Mirvis, D.M., Keller, F.W. and Pilkington, T.C.: Dipole crosstalk in an inverse cardiac generator. *IEEE Transaction in Biomedical Engineering* BME-25(5): 476-479, 1978.
19. Mirvis, D.M. and Keller, F.W.: A microprocessor controlled timing device for cardiac electrical stimulation. *Journal of Electrocardiology* 12(1): 83-87, 1979.
20. Mirvis, D.M.: Electrocardiographic QRS changes induced by acute coronary ligation in the isolated rabbit heart. *Journal of Electrocardiology* 12(2): 141-150, 1979.
21. Mirvis, D.M. and Larsen, R.A.: Experimental evaluation of a moving dipole-octapole pair equivalent cardiac generator. *Journal of Electrocardiology* 12(2): 169-177, 1979.
22. Cox, J.W., Laughter, J.S., Brandon, C.W., Keller, F.W., Dowdie, R.F., Phillips, H.A. and Mirvis, D.M.: A system oriented electrocardiographic amplifier. *Cardiovascular Research* 13(4): 238-241, 1979.
23. Mirvis, D.M.: Experimental evaluation of the mean electrical equivalent generator of the isolated rabbit heart. *Journal of Electrocardiology* 12(4): 387-394, 1979.
24. Demetriou, C.A. and Mirvis, D.M.: Application of cluster analysis to electrocardiographic lead selection. *Biomedical Sciences Instrumentation* 16:11-14, 1980.
25. Mirvis, D.M.: Body surface distribution of electrical potential during atrial depolarization and repolarization. *Circulation* 62(1): 167-173, 1980.
26. Mirvis, D.M.: Comparison of isopotential surface mapping and dipole ranging methods for assessing equivalent cardiac generator properties. *Cardiovascular Research* 14(6): 360-368, 1980.

27. Mirvis, D.M.: Body surface distributions of repolarization forces during acute myocardial infarction. I. Isopotential and isoarea mapping. *Circulation* 62(4): 878-887, 1980.
28. Mirvis, D.M.: Body surface distributions of exercise induced QRS changes in normal subjects. *American Journal of Cardiology* 46(6): 988-993, 1980.
29. Myers, R.E., Kopf, G.S. and Mirvis, D.M.: Hemodynamic response to profound hypoxia in intact monkeys. *Stroke* 11(4): 389-393, 1980.
30. Mirvis, D.M.: Body surface distributions of repolarization potentials after acute myocardial infarction. II. Relationship between isopotential mapping and ST-segment potential summation methods. *Circulation* 63(3): 623-631, 1981.
31. Mirvis, D.M.: Isoarea distributions during ectopic stimulation of isolated rabbit hearts. *Journal of Electrocardiology* 14(2): 159-168, 1981.
32. Mirvis, D.M., Holbrook, M.A.: Body surface distributions of repolarization potentials after acute myocardial infarction. III. Dipole ranging in normal subjects and in patients with acute myocardial infarction. *Journal of Electrocardiology* 14(4): 387-398, 1981.
33. Mirvis, D.M.: Evaluation of normal variations in ST-segment patterns by body surface isopotential mapping. *American Journal of Cardiology* 50(1): 122-128, 1982.
34. Mirvis, D.M.: The electrogenesis of terminal QRS notches in normal subjects. *Journal of Electrocardiology* 16(2): 113-122, 1983.
35. Mirvis, D.M.: Effects of thoracotomy on volume conductor properties of the canine torso. *Journal of Electrocardiology* 16(3): 279-286, 1983.
36. Mirvis, D.M., Gordey, R.L.: Electrocardiographic effects of myocardial ischemia induced by atrial pacing in dogs with coronary stenosis. I. Repolarization changes with progressive left circumflex coronary arterial narrowing. *Journal of American College of Cardiology* 1(4): 1090-1098, 1983.
37. Marin-Garcia, J., Moller, J.H., Mirvis, D.M.: The pulmonic valve echogram in the assessment of pulmonary hypertension in children. *Pediatric Cardiology* 4(3): 209-214, 1983.
38. Mirvis, D.M.: Differential electrocardiographic effects of myocardial ischemia induced by atrial pacing in dogs with varying coronary stenosis. *Circulation* 68(5): 1116-1126, 1983.
39. Mirvis, D.M.: Management guidelines for acute myocardial infarction. *Advances in Internal Medicine* 28: 1-29, 1983.
40. Mirvis, D.M.: Electrocardiographic effects of myocardial ischemia induced by atrial pacing in dogs with coronary stenosis. II. Comparison of QRS changes in normal dogs and in dogs with left circumflex arterial narrowing. *Journal of Electrocardiology* 17(1): 33-42, 1984.
41. Ramanathan, K.B., Knowles, J., Connor, M.J., Tribble, R., Kroetz, F.W., Sullivan, J.M., Mirvis, D.M.: Natural history of chronic mitral insufficiency. Relationship of peak systolic pressure/end systolic volume ratio to morbidity and mortality. *Journal of the American College of Cardiology* 3(6): 1412-1415, 1984.

42. Marin-Garcia, J., Mirvis, D.M.: Myocardial disease in Rocky Mountain Spotted Fever: Clinical, functional and pathologic findings. *Pediatric Cardiology* 5 (1): 149-154, 1984.
43. Kang, E.S., Mirvis, D.M.: Reversible highly-localized alterations in fatty acid metabolism in the chronically ischemic canine myocardium. *American Journal of Cardiology* 54 (2): 411-414, 1984.
44. Gettes, L.S., Zipes, D.P., Gillette, P.C., Josephson, M.E., Laks, M.M., Mirvis, D.M., Scheinman, M.M., Sheffield, L.T., Wu, D.: Personnel and equipment required for electrophysiologic testing. *Circulation* 69(6): 1219A-1221A, 1984.
45. Mirvis, D.M., Marin-Garcia, J.: Effects of tachycardia with normal and ectopic ventricular activation on S-T segment potentials and patterns in the dog. *Journal of Electrocardiology* 18(3): 223-232, 1985.
46. Mirvis, D.M.: Ability of standard ECG parameters to detect body surface isopotential abnormalities of pacing induced myocardial ischemia in the dog. *Journal of Electrocardiology* 18(1): 77-86, 1985.
47. Nichols, T.L., Mirvis, D.M.: Frequency content of the electrocardiogram. Spatial features and effects of myocardial infarction. *Journal of Electrocardiology* 18(2): 185-194, 1985.
48. Ideker, R.E., Mirvis, D.M., and Smith, W.M.: Late, fractionated potentials. *The American Journal of Cardiology* 55: 1614-1621, 1985.
49. Mirvis D.M.: Electrocardiographic correlates of myocardial ischemia induced atrial and ventricular pacing in dogs with coronary stenosis. *Cardiovascular Research* 19: 254-263, 1985.
50. Mirvis, D.M.: Spatial variation of Q-T intervals in normal persons and in patients with acute myocardial infarction. *Journal of the American College of Cardiology* 5(3): 625-631, 1985.
51. Sheffield, L.T., Berson, A., Bragg-Remschel, D., Gillette, P.C., Hermes, R.E., Hinkle, L., Kennedy, H., Mirvis, D.M., Oliver, C.: Recommendations for standards of instrumentation and practice in the use of ambulatory electrocardiography. *Circulation* 71(3): 626A-636A, 1985.
52. Mirvis, D.M., Ingram, L.A., Holly, M.K., Wilson, J.L., and Ramanathan, K.B.: Electrocardiographic effects of experimental nontransmural myocardial infarction. *Circulation* 71(6): 1206-1214, 1985.
53. Mirvis, D.M., Wilson, J.L., Ramanathan, K.B.: Effects of experimental myocardial infarction on the S-T segment response to tachycardia. *Journal of the American College of Cardiology* 6(3): 665-673, 1985.
54. Samaha, J.K., Conner, M.J., Tribble, R., Kroetz, F.W., Sullivan, J.M., Mirvis, D.M.: Natural history of left anterior descending coronary artery disease. Significance of proximal location of stenoses. *Clinical Cardiology* 8(8): 415-422, 1985.
55. Wilson, J.L., Netherland, D.E., Ingram, L.A., Ramanathan, K.B., Mirvis, D.M.: Myocardial infarction following acute occlusion and reperfusion of the septal coronary artery. *Basic Research in Cardiology* 80(6): 670-676, 1985.

56. Mirvis, D.M., Wilson, J.L.: Determination of the spatial and intensity properties of atrial repolarization potentials in the dog. *Journal of Electrocardiology* 19(2): 99-108, 1986.
57. Mirvis, D.M., Ramanathan, K.B., Wilson, J.L.: Regional blood flow correlates of ST segment depression in tachycardia-induced myocardial ischemia. *Circulation* 73(2): 365-373, 1986.
58. Mirvis, D.M., Ingram, L.A., Ramanathan, K.B., Wilson, J.L.: R and S wave changes produced by experimental nontransmural and transmural myocardial infarction. *Journal of the American College of Cardiology* 8(3): 675-681, 1986.
59. Ramanathan, K.B., Vander Zwaag, R., Lemp, G.F., Kroetz, F.W., Sullivan, J.M., Mirvis, D.M.: Prognostic value of the pressure-volume ratio in patients with coronary artery disease. *American Journal of Medical Sciences* 30(3): 159-163, 1987.
60. Mirvis, D.M.: Current status of body surface electrocardiographic mapping. *Circulation* 75(4): 684-688, 1987.
61. Mirvis, D.M.: Termination of ventricular bigeminy by conversion to concealed forms. *Journal of Electrocardiology* 20(2): 110-113, 1987.
62. Mirvis, D.M.: Detection of experimental right ventricular infarction by isopotential body surface mapping during sinus rhythm and during ectopic ventricular pacing. *Journal of American College of Cardiology*, 10(1): 157-163, 1987.
63. Mirvis, D.M., Ramanathan, K.B.: Alterations in transmural blood flow and body surface ST segment abnormalities produced by ischemia in the circumflex and left anterior descending coronary arterial beds of the dog. *Circulation* 76(3): 697-704, 1987.
64. Straka, R.J., Lalonde, R.L., Pieper, J.A., Bottorff, M.B., Mirvis, D.M.: Nonlinear pharmacokinetics of unbound propranolol after oral administration. *Journal of Pharmaceutical Sciences* 76(7): 521-524, 1987.
65. Lalonde, R.L., Straka, R.J., Pieper, J.A., Bottorff, M.B., Mirvis, D.M.: Propranolol pharmacodynamic modeling using unbound and total concentrations in healthy volunteers. *Journal of Pharmacokinetics and Biopharmaceutics* 15(6): 569-582, 1987.
66. Lalonde, R.L., Pieper, J.A., Straka, R.J., Bottorff, M.B., Mirvis, D.M.: Propranolol pharmacokinetics and pharmacodynamics after single doses and at steady state. *European Journal of Clinical Pharmacology* 32(3): 315-318, 1987.
67. Nichols, T.L., Lawson, M.A., Mirvis, D.M.: Determination of cardiac equivalent generator properties using a numerical expansion method. *Journal of Electrocardiology* 20(5): 352-356, 1987.
68. Lemp, G.F., Vander Zwaag, R., Hughes, J.P., Maddock, V., Kroetz, F., Ramanathan, K.B., Mirvis, D.M., Sullivan, J.M.: Association between the severity of diabetes mellitus and coronary arterial atherosclerosis. *American Journal of Cardiology* 60(13): 1015-1019, 1987.
69. Sullivan, J.M., Vander Zwaag, R., Lemp, G.F., Hughes, J.P., Maddock, V., Kroetz, F.W., Ramanathan, K.B., Mirvis, D.M.: Postmenopausal estrogen

- use and coronary atherosclerosis. *Annals of Internal Medicine* 108(3): 358-363, 1988.
70. Mirvis, D.M., Ramanathan, K.B., Wilson, J.L.: Comparative electrocardiographic and myocardial blood flow effects of rapid atrial pacing and dipyridamole infusion in dogs with chronic coronary artery occlusion. *American Heart Journal* 115(5): 984-992, 1988.
  71. Ramanathan, K.B., Wilson, J.L., Mirvis, D.M.: Effects of coronary occlusion on transmural distribution of blood flow in the interventricular septum and in the left ventricular free wall. *Basic Research in Cardiology* 83(3): 229-237, 1988.
  72. Insel, J., Halle, A.A., Mirvis, D.M.: Efficacy of pentoxifylline in patients with stable angina pectoris. *Angiology* 39(6): 514-519, 1988.
  73. Vander Zwaag, R., Lemp, G.F., Hughes, J.P., Ramanathan, K.B., Sullivan, J.M., Schick, E.C., Mirvis, D.M.: The effect of cigarette smoking on the pattern of coronary atherosclerosis: A case-control study. *Chest* 94(2): 290-294, 1988.
  74. Rutledge, D.R., Pieper, J.A., Mirvis, D.M.: Effects of chronic phenobarbital on verapamil disposition in humans. *Journal of Pharmacology and Experimental Therapeutics* 246(1): 7-13, 1988.
  75. Mirvis, D.M.: Physiologic bases for anterior ST segment depression in patients with acute inferior wall myocardial infarction. *American Heart Journal* 116(5): 1308-1322, 1988.
  76. Wilson, J.L., Ramanathan, K.B., Ingram, L.A., Mirvis, D.M.: Effects of residual stenosis on infarct size and regional transmural myocardial blood flow after reperfusion. *American Heart Journal* 116(6): 1523-1529, 1988.
  77. Kang, E.S., Deaton, P.R., Epstein, D., Ingram, L.A., Mirvis, D.M.: Procainamide *N*-acetyltransferase: Modulation by clofibrate and a microsomal form. *General Pharmacology* 20(2): 223-227, 1989.
  78. Insel, J., Mirvis, D.M.: Effect of changes in the definition of ventricular tachycardia on the prevalence of complex ventricular ectopy. *Journal of Electrocardiology* 22(1): 21-25, 1989.
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