

VICTOR F. FROELICHER, M.D.

ECG Publications

Froelicher VF. The application of ECG screening and exercise testing in preventive cardiology. *Preventive Med* 1973;2:592-607.

Yanowitz F, Froelicher VF, Keiser N, and Lancaster MC. Quantitative exercise ECG in the evaluation of patients with early coronary artery disease. *Aerospace Med* 1974;45:443-448.

Froelicher VF, Wolthius R, Keiser N, Stewart A, and Triebwasser J. A comparison of two bipolar electrocardiographic leads to lead V5. *Chest* 1976;70:611-616.

Whinnery J, Froelicher VF, Stewart A, Longo M, and Triebwasser J. The electrocardiographic response to maximal treadmill exercise of asymptomatic men with right bundle branch block. *Chest* 1977;71:335-340.

Whinnery JE, Froelicher VF, Stewart AF, Longo MR, Triebwasser JH, and Lancaster MC. The electrocardiographic response to maximal treadmill exercise of asymptomatic men with left bundle branch block. *Am Heart J* 1977;94:316-324.

Wolthuis RA, Froelicher VF, Hopkirk A, Fischer JR, and Keiser N. Normal ECG waveform characteristics during treadmill exercise testing. *Circulation* 1979;60:1028-1035.

Battler A, Froelicher VF, Slutsky R, and Ashburn W. Relationship of QRS amplitude changes during exercise to left ventricular function, volumes, and the diagnosis of coronary artery disease. *Circulation* 1979;60:1004-1013.

Bhargava V, Watanabe K, Froelicher VF, Swan E, McKirnan D, and Strong M. Computer techniques for assessing serial changes in the ECG/VCG response to exercise testing and training. *Computers in Medicine* 1979, 335-337.

Watanabe K, Bhargava V, and Froelicher VF. Computer analysis of the exercise ECG: A review. *Prog Cardiovasc Dis* 1980;22:423-446.

Battler A, Gallagher K, Froelicher VF, Kumada T, Kemper WS, and Ross J. Detection of latent coronary stenosis in conscious dogs: Regional functional and electrocardiographic responses to isoprenaline. *Cardiovascular Research* 1980;14:476-481.

Battler A, Froelicher VF, Gallagher KP, Kumada T, McKown D, Kemper S, and Ross J. Effects of changes in ventricular size on regional and surface QRS amplitudes in the conscious dog. *Circulation* 1980;62:174-180.

Battler A, Froelicher VF, Gallagher KP, Kemper S, and Ross J. Dissociation between regional myocardial dysfunctions and ECG changes during ischemia in the conscious dog. *Circulation* 1980;62:735-744.

Goldberger AL, Bhargava V, Froelicher VF, Covell J, and Mortara D. Effect of myocardial infarction on the peak amplitude of high frequency QRS potentials. *J Electrocardiol* 1980;13:367-372.

Watanabe K, Bhargava V, and Froelicher VF. The relationship between exercise-induced R wave amplitude changes and QRS vector loops. *J Electrocardiol* 1981;14:129-138.

Goldberger AL, Bhargava V, Froelicher VF, Covell J, and Mortara D. Effect of myocardial infarction on high frequency QRS potentials. *Circulation* 1981;64:34-41.

Froelicher VF, Wolthuis R, Fischer J, and Uhl G. Variations in normal ECG response to treadmill testing. *Am J Cardiol* 1981;47:1161-1167.

Bhargava V, Watanabe K, and Froelicher VF. Progress in computer analysis of the exercise ECG. *Am J Cardiol* 1981;47:1143-1151.

Watanabe K, Bhargava V, and Froelicher VF. Computerized approach to evaluating rest and exercise-induced ECG/VCG changes after cardiac rehabilitation. *Clin Cardiol* 1982;5:27-34.

Young SG, Abouantoun S, Savvides M, Madsen EB, and Froelicher VF. Limitations of electrocardiographic scoring systems for estimation of left ventricular function. *J Am Coll Cardiol* 1983;1:1479-1488.

Gamble P, McManus H, Jensen D, and Froelicher VF. A comparison of the standard 12-lead electrocardiogram to exercise electrode placement. *Chest* 1984;85:616-622.

Ahnve S, Gilpin E, Madsen E, Froelicher VF, Henning H, and Ross J. Prognostic importance of QTc interval at discharge after acute myocardial infarction: A multicenter study of 865 patients. *Am Heart J* 1984;108:395-400.

Myers J, Ahnve S, Froelicher VF, and Sullivan M. Spatial R wave amplitude changes during exercise: Relation with left ventricular ischemia and function. *J Am Coll Cardiol* 1985;6:603-08.

Ahnve S, Sullivan M, Myers J, and Froelicher VF. Computer analysis of exercise-induced changes in QRS duration in patients with angina pectoris and in normal subjects. *Am Heart J* 1986;111:903-08.

Froning JN, Froelicher VF. Detection and measurement of the P-wave and T-wave during exercise testing using combined heuristic and statistical methods. *J Electrocardiology* 1987;145-156.

Myers J, Ahnve S, Froelicher VF, Sullivan M, Friis R. Influence of exercise training on spatial R-wave amplitude in patients with coronary artery disease. *J Appl Physiol* 1987;62:1231-1235.

Froning JN, Froelicher VF. Combined heuristic and statistical decision-logic for improved performance during serial analyses of the exercise ECG using a measurement-history data-base. *Computers in Cardiology*, 1987.

Froning JN, Froelicher VF. Application and limitations of continuous baseline estimation and removal using a cubic-spline technique during exercise ECG testing. *Computers in Cardiology*, 1987.

Atwood JE, Myers J, Forbes S, Hall P, Friis R, Marcondes G, Mortara D, Froelicher VF. High frequency electrocardiography: An evaluation of lead placement, measurements, and reproducibility. *Am Heart J* 1988;116:733-739.

Froning JN, Froelicher VF, Olson MD. A real-time data-logger system using an optical disk worm for archiving continuous 12-lead ECG data during exercise testing. *J Electrocardiology* 1988;21(S):S141-S148.

Froning JN, Olson MD, Froelicher VF. Problems and limitations of ECG baseline estimation and removal using a cubic spline technique during exercise ECG testing. Recommendations for proper implementation. *J Electrocardiology* 1988;21(S):S149-S157.

Lehmann KG, Shandling AH, Yusi AU, Froelicher VF. Altered ventricular repolarization in central sympathetic dysfunction associated with spinal cord injury. *Am J Cardiol* 1989;63:1498-1504.

Atwood JE, Myers J, Sandhu S, Lachterman B, Friis R, Oshita A, Forbes S, Walsh D, Froelicher VF. Optimal sampling interval to estimate heart rate at rest and during exercise in atrial fibrillation. *Am J Cardiol* 1989;63:45-48.

Hall P, Atwood JE, Myers J, Froelicher VF. The signal averaged surface electrocardiogram and the identification of late potentials. *Prog Cardiovascular Disease* 1989;31:295-317.

Ross EA, Graettinger WF, Atwood JE, Myers J, Hall AX, Froelicher VF. Effects of altered cardiac ventricular chamber size on the electrocardiogram and position of the heart. *Am J Cardiol* 1990;65:943-946.

Ribisl PM, Liu J, Mousa I, Herbert WG, Miranda CP, Fronig JN, Froelicher VF. A comparison of computer ST criteria for diagnosis of severe coronary artery disease. *Am J Cardiol* 1993; 71:546-551.

Yen RS, Miranda C, Froelicher VF. Diagnostic and prognostic accuracy of the exercise electrocardiogram in patients with preexisting right bundle branch block. *Am Heart J* 1994; 127:1521-1525.

Froelicher VF; Lehmann KG; Thomas R; Goldman S; Morrison D; Edson R; Lavori P; Myers J; Dennis C; Shabetai R; Do D; Froning J. The electrocardiographic exercise test in a population with reduced workup bias: diagnostic performance, computerized interpretation, and multivariable prediction. Veterans Affairs Cooperative Study in Health Services #016 (QUEXTA) Study Group. Quantitative Exercise Testing and Angiography. *Ann Intern Med* 1998 Jun 15;128(12 Pt 1):965-74

Atwood JE; Do D; Froelicher V; Chilton R; Dennis C; Froning J; Janosi A; Mortara D; Myers J. Can computerization of the exercise test replace the cardiologist? *Am Heart J* 1998 Sep;136 (3):543-52

Do D, Marcus R, Froelicher F, Janosi A, West J, Atwood E, Myers J, Chilton R, Froning J. Predicting Severe Angiographic Coronary Artery Disease Using Computerization of Clinical and Exercise Test Data. *CHEST*, November 1998; 114(5):1437-1445

Fearon WF, Lee DP, Froelicher VF. The effect of resting ST segment depression on the diagnostic characteristics of the exercise treadmill test. *J Am Coll Cardiol*. 2000 Apr;35(5):1206-11.

Ashley EA, Raxwal VK, Froelicher VF. The prevalence and prognostic significance of electrocardiographic abnormalities. *Curr Probl Cardiol*. 2000 Jan;25(1):1-72.

Ashley EA, Froelicher VF. Computer applications in the interpretation of the exercise electrocardiogram. *Sports Med*. 2000 Oct;30(4):231-48.

Ashley EA, Raxwal V, Froelicher V. An evidence-based review of the resting electrocardiogram as a screening technique for heart disease. *Prog Cardiovasc Dis*. 2001 Jul-Aug;44(1):55-67.

Prakash M, Raxwal V, Froelicher VF, Kalisetti D, Vieira A, O'Mara G, Marcus R, Myers J, Kiratli J, Perkash I. Electrocardiographic findings in patients with chronic spinal cord injury. *Am J Phys Med Rehabil*. 2002 Aug;81(8):601-8.

Marcus RR, Kalisetti D, Raxwal V, Kiratli BJ, Myers J, Perkash I, Froelicher VF. Early repolarization in patients with spinal cord injury: prevalence and clinical significance. *J Spinal Cord Med.* 2002 Spring;25(1):33-8;

Yue P, Atwood JE, Froelicher V. Watch the p wave: it can change! *Chest* 2003;124(2):424-6.
Froelicher VF, Marcus R, Heidenreich PA. Prognostic Value Of Computer Electrocardiography In Veteran Outpatients. *Fed Pract.* 2004;21(3):11-12, 17-20.

Engel G, Beckerman JG, Froelicher VF, Yamazaki T, Chen HA, Richardson K, McAuley RJ, Ashley EA, Chun S, Wang PJ. Electrocardiographic arrhythmia risk testing. *Curr Probl Cardiol.* 2004 Jul;29(7):365-432.

Shah BR, Yamazaki T, Engel G, Cho S, Chun SH, Froelicher VF. Computerized QT dispersion measurement and cardiovascular mortality in male veterans. *Am J Cardiol.* 2004 Feb 15;93(4):483-6.

Richardson K, Engel G, Yamazaki T, Chun S, Froelicher VF. Electrocardiographic damage scores and cardiovascular mortality. *Am Heart J.* 2005 Mar;149(3):458-63.

Yamazaki T, Froelicher VF, Myers J, Chun S, Wang P. Spatial QRS-T angle predicts cardiac death in a clinical population. *Heart Rhythm.* 2005 Jan;2(1):73-8.

Beckerman J, Yamazaki T, Myers J, Boyle C, Chun S, Wang P, Froelicher V. T-wave abnormalities are a better predictor of cardiovascular mortality than ST depression on the resting electrocardiogram. *Ann Noninvasive Electrocardiol.* 2005 Apr;10(2):146-51.

Yamazaki T, Myers J, Froelicher VF. Prognostic importance of isolated T-wave abnormalities. *Am J Cardiol.* 2005 Jan 15;95(2):300-4.

Hsieh BP, Pham MX, Froelicher VF. Prognostic value of electrocardiographic criteria for left ventricular hypertrophy. *Am Heart J.* 2005 Jul;150(1):161-7.

Desai AD, Yaw TS, Yamazaki T, Kaykha A, Chun S, Froelicher VF. Prognostic Significance of Quantitative QRS Duration. *Am J Med.* 2006 Jul;119(7):600-6.

Engel G, Cho S, Ghayoumi A, Yamazaki T, Chun S, Fearon WF, Froelicher VF. Prognostic significance of PVCs and resting heart rate. *Ann Noninvasive Electrocardiol.* 2007 Apr;12(2):121-9.

Perez MV, Yaw TS, Myers J, Froelicher VF. Prognostic value of the computerized ECG in Hispanics. *Clin Cardiol.* 2007 Apr;30(4):189-94.

Dewey FE, Kapoor JR, Williams RS, Lipinski MJ, Ashley EA, Hadley D, Myers J, Froelicher VF. Ventricular arrhythmias during clinical treadmill testing and prognosis. *Arch Intern Med.* 2008 Jan 28;168(2):225-34.

Dewey FE, Rosenthal D, Murphy DJ Jr, Froelicher VF, Ashley EA. Does size matter? Clinical applications of scaling cardiac size and function for body size. *Circulation.* 2008 Apr 29;117(17):2279-87.

Tan SY, Engel G, Myers J, Sandri M, Froelicher VF. The Prognostic Value of T Wave Amplitude in Lead aVR in Males. *Ann Noninvasive Electrocardiol.* 2008 Apr;13(2):113-9.

Tan SY, Sungar GW, Myers J, Sandri M, Froelicher V. A simplified clinical electrocardiogram score for the prediction of cardiovascular mortality. *Clin Cardiol.* 2009 Feb;32(2):82-6. PMID: 19215007

Perez MV, Dewey FE, Tan SY, Myers J, Froelicher VF. Added value of a resting ECG neural network that predicts cardiovascular mortality. *Ann Noninvasive Electrocardiol.* 2009 Jan;14(1):26-34. PMID: 19149790

