



REFERENCES

Adamson P.B.; Huang M.H.; Vanoli E.; Foreman R.D.; Schwartz P.J. and Hull S.S.J.R. (1994):

Unexpected interaction between B-adrenergic blockade and heart rate variability before and after myocardial infarction: a longitudinal study in dogs at high and low risk for sudden death.

Circulation, 90: 976-982.

Ajiki K.; Murakawa Y.; Yanagisawa-Miwa A.; Usui M.; Yamashita T and Oikawa N. et al. (1993):

Autonomic nervous system activity in idiopathic dilated cardiomyopathy and in hypertrophic cardiomyopathy.

Am. J. Cardiology, 71: 1316-1320.

Akselrod S.; Gordon D.; Ubel F.A.; Shannon D.C.; Barger A.C. and Cohen R.J. (1981):

Power spectrum analysis of heart rate fluctuation: a quantitative probe of beat to beat cardiovascular control.

Science, 214: 220-222.

Algra A.; Pool J. and lubsen J. (1993):

Heart rate variability from 24-hour electrocardiography.

Circulation 88: 180-185.

Amorim D.S.; Heer K.; Jenner D.; Richardson P.; Dange H.J. and Brown M. et al., (1981):

Is there autonomic impairment in congestive (dilated) cardiomyopathy?.

Lancet, 1: 525-527.

Andrew D.; Flapan M.R.C.P. and David J. (1992):

Effect of captopril on cardiac parasympathetic activity.

Am. J. Cardiol., 69: 532-535.

Appel M.L.; Berger R.D.; Saul J.P.; smith J.M. and Cohen R.J. (1989):

Beat to beat variability in cardiovascular variables: noise or music ?

J. Am. Coll Cardiol, 14: 1139-1148.

Arai Y.; Saul J.P.; Albrecht P.; Hartley L.H.; Lilly L.S.;Cohen R.J. and Colucci W.S. (1989):

Modulation of cardiac autonomic activity during and immediately after exercise.

Am. J. Physiol, 256: H132-H141.

Babloyantz A. and Destexhe A. (1988):

Is the normal heart a periodic oscillator ?

Biol Cybern, 58: 203-211.

Bailey J.J.; Berson A.S.; arson A.J.R.; Horan L.G.; Macfarlane P.W.; Mortara D.W. and Zywiets C. (1990):

Recommendations for standardization and specifications in automated electrocardiography.

Circulation, 81: 730-739.

Benjamin I.J.; Schuster E.H. and Bulkley B.H. (1981):

Cardiac hypertrophy in idiopathic dilated cardiomyopathy:

A clinicopathic study.

Circulation, 64: 442-447.

Bergr R.D.; Akselord S.; Gordon D and Cohen R.J. (1986):

An efficient algorithm for spectral analysis of heart rate variability.

IEEE trans Biomed Eng. 33: 900-904.



Bianci A.M.; Mainardi L.T.; Petrucci E.; Signorini M.G.; Mainardi M. and Cerutti S. (1993):

Time variant power spectrum analysis for the detection of transient episodes in HRV signal.

IEEE Trans Biomed Eng. 40: 136-144.

Bigger J.T.; Fleiss J.L.; Steinman R.C.; Rolnitzky L.M.; Kleiger R.E. and Rottman J.N. (1992):

Frequency domain measures of heart period variability and mortality after myocardial infarction.

Circulation, 85: 164-171.

Bigger J.T.Jr.; Fleiss J.L.; Rolnitzky L.M.; Steinman R.C.; Schneide W.J. (1991):

Time course of recovery of heart period variability after myocardial infarction.

J. Am. Coll. Cardiol, 18: 1643-1649.

Bigger J.T.Jr.; Rolnitzky L.M.; Steinman R.C. and Fleiss J.L. (1994):

Predicting mortality after myocardial infarction from the response of RR variability to antiarrhythmic drug therapy.

J. Am. Coll Cardiol, 23: 733-740.

Bigger J.T.Jr.; Fleiss J.L.; Steinman R.C.; Rolnitzky L.M.; Schneider W.J. and Stein, P.K. (1995):

RR variability in healthy, middle age persons compared with patients with chronic coronary heart disease or recent acute myocardial infarction.

Circulation, 91: 1936-1943.

Binkley P.F.; Nunziata E.; Haas G.J.; Nelson S.D. and Cody R.J. (1991):

Parasympathetic withdrawal is an integral component of autonomic imbalance in congestive heart failure: demonstration in human subjects and verification in a paced canine model of ventricular failure.

J. Am. Cardiol, 18: 464-472.

Boykin M.; Hartshorne M.F.; Bauman J.M. and Byrd B.F. (1987):

The last surviving wall.

Clin. Nucl. Med., 12: 751-754.

Brandenberg R.O.; Charzov E.; Cherian G.; Falase A.O.; Grosogeat Y. and Kawai C. (1980):

Report of the who/ ISFC (task force on the defination and classification of cardiomy opathies.

Br. Heart. J.; 44: 672-673.

Braunwald (1992):

A textbook of cardiovascular medicine

P: 1398-1399.

Brown A.M. and Malliani A. (1971):

Spinal sympathetic reflexes initiated by coronary receptors.

J. Physiol, 212: 685-705.

Brown H.F.; Difrancesco D. and Noble S.J. (1979):

How does adrenaline accelerate the heart ?

Nature 280: 235-236.

Casolo G.; Balli E.; Taddei T.; Amuhasi J. and Gori C. (1989):

Decreased spontaneous heart, rate variability in congestive heart failure.

Am. J. Cardiology, 64: 116-1167.

Casolo G.C.; Stroder P.; Signorini C.; Calzolari F.; Zucchini M. and Balli E. (1992):

Heart rate variability during acute phase of myocardial infarction.

Circulation, 85: 2073-2080.

Casolo G.C.; Stroder P.; Sulla A.; Chelucci A.; Freni A. and Zerauschek M. (1995):

Heart rate variability and functional severity of congestive heart failure secondary to coronary artery disease.

Eur. Heart J., 16: 360-367.

Cerati D. and Schewartz P.J. (1991):

Single cardiac vagal fiber activity, acute myocardial ischemia, and risk for sudden death.

Circ. Res., 69: 1389-1401.

Cheitlin D.M.; Sokolow M. and McIlroy M. (1995):

Clinical cardiology.

Prentice Hall, Englewood cliffs, New Jersey.

Chess G.F.; Tam R.M.K. Calaresu F.R. (1975):

Influence of cardiac neural inputs on rhythmic variations of heart period in the cat.

Am. J. Physiol, 228: 775-780.

Chidsey C.A.; Braunwald E. and Morrow A.G. (1977):

Catecholeamine excretion and cardiac stores of epinephrine in congestive heart failure.

Am. J. Med., 39: 442-448.

Cleland J.F.G.; Dargic H.J.; Findlay I.N. and Wilson J.T. (1987):

Clinical haemodynamic and antiarrhythmic effects of long term treatment with amiodarone of patients in heart failure
Br. Heart J. 57: 436-445.

Coumel P.H.; Hermida J.S.; Wennerblom B.; Leenharat A.; Maisson Blanche P. and Cauchemez B. (1991):

Heart rate variability in myocardial hypertrophy and heart failure, and the effects of beta-blocking therapy: a non. Spectral analysis of heart rate oscillations.

Eur. Heart. J., 12: 412-422.

Dec C.W.; Palacios I.F.; Fallon J.T.; Artez H.T. Millis J.; Lee D.G. and Johnson R.A. (1985):

Active myocarditis in the spectrum of acute dilated cardiomyopathy: clinical features, histologic correlates and clinical outcome.

N. Engl. J.; Med.; 312: 885-890.

De Ferrari G.M.; Vanoli E. and Schwartz P.J. (1995):

Cardiac vagal activity, myocardial ischemia and sudden death.

Cardiac Electrophysiology : from Cell to Bedside.

Philadelphia, Pa: W.B.; saunders, 422-434.

Demaria A.N.; Bommer W. and Lee G. (1980):

Value and limitations of two dimensional echocardiography in assessment of cardiomyopathy.

Am. J. Cardiol., 46: 1224-1231.

De Scheerder I.; Praet M.; Cuvelien C.; deBuyzere M. and Clement

D.L. (1978):

Right ventricular endomyocardial biopsy: clinicopathologic correlates in 64 consecutive patients.

Acta. Cardiol., 92: 11-21.

Diaz R.A.; Nihoyannopoulo S.; Athanasspoulos G. and Oakley G.M.

(1991):

Usefulness of echocardiography to differentiate dilated cardiomyopathy from coronary induced congestive heart failure.

Am. J. Cardiol., 68: 1224-1227.

Dick M.R.; Unverferth D.V. and bata N. (1982):

The pattern of myocardial degeneration in non-ischemic congestive cardiomyopathy.

Hum. Pathol., 13: 740-794.

Difrancesco D. and Tromba C. (1988):

Muscarinic control of the hyperpolarizing activated current
 I_f in rabbit sino-atrial node myocytes.

J. Physiol. (London), 405: 493-510.

Difrancesco D. (1991):

The contribution of the pacemaker current (I_f) to generation of spontaneous activity in rabbit sino-atrial node myocytes.

J. Physiol. (London), 434: 23-40.

Dreifus L.S.; Agrwal J.B.; Botvinick E.H.; Ferdinand K.C.; fish and C.; Fisher J.D. (1993):

Heart rate variability for risk stratification of life threatening arrhythmias.

J. am. Coll. Cardiol., 22: 948-950.

Dzau V.J.; Colucci W.S.; Holenbery N.K. and Williams G.H. (1981):

Relation of the renin-angiotensin aldosterone system to clinical state in congestive heart failure.

Circulation, 63: 645-651.

Eckberg D.L.; Drabinsky M. and Braunwald E. (1971):

Defective cardiac parasympathetic control in patients with heart disease.

N. Engl. J. Med., 285: 877-883.

Ewing D.J.; Neilson J.M.N. and Travis P. (1984):

New method for assessing cardiac parasympathetic activity using 24 hour electrocardiograms.

Br. Heart, J., 52: 396-402.

Ewing D.J.; Martin C.N.; Youg R.J. and Clarke B.F (1985):

The value of cardiovascular autonomic function tests: 10 years experience in diabetes.

Diabetes Care, 8: 491-498.

Factor S.M. and Sonnenblick E.H. (1985):

The pathogenesis of clinical and experimental congestive cardiomyopathies: recent concepts.
Prog. Cardiovas. Dis., 27: 395-420.

Falk R.H.; foste E. and Coat M.H. (1992):

Ventricular thrombi and thromboembolism in dilated cardiomyopathy: A prospective follow-up study.
Am. Heart. J.; 123: 136-142.

Fallen E.L.; Kamath M.V.; Ghisa D.N. and Fitchett D. (1988):

Spectral analysis of heart rate variability following human heart transplantation: evidence for functional reinnervation.
J. Auton. Nerv. Syst., 23: 199-206.

Fast J.H.; Kubat K.; Vanhaelst U.J.G.M. and Stekhoven J.H.S. (1986):

The usefulness of an endomyocardial biopsy in heart disease of unknown etiology.
Int. J. Cardiol., 11: 317-328.

Fenoglio J.J.; Uresell P.C.; Kellogg C.F.; Drusin R.E and Weiss M.B. (1983):

Diagnosis and classification of myocarditis by endomocardial biopsy.
N. Engl. J. Med., 308: 12-18.

Figulla H.R.; kellermann A.B.; Siegener M.S.; Heim A. and Kreuzer H. (1992):

Significance of coronary angiography, left heart cathetrization, and endomyocardial biopsy for the diagnosis of idiopathic dilated cardiomyopathy.

Am. Heart, J. 124: 1251-1257.

Flapan A.D.; Nolan J.; Neilson J.M.M. and Ewing D.J. (1990):

Captopril therapy increases parasympathetic activity in patients with congestive cardiac failure.

Circulation, 82 (suppl. III): 382.

Fouad F.M. Trarazi R.C.; Ferrario C.M.; Fighaly S. and Alicandri C. (1984):

Assessment of parasympathetic control of heart rate by a non invasive method.

Am. J. Physiol., 15: H 838-H 842.

Furlan R.; Guzzetti S.; Crivellaro W.; Dassi S.; Tinelli M. and basell G. (1990):

Continuous 24-hour assessment of the neural regulation of systemic arterial pressure and RR variabilities in ambulant subjects. Circulation, 81: 537-547.

Gang Y.; Jonathan H. and Marek M. (1997):

Heart rate variability in idiopathic dilated cardiomyopathy.

Heart, 77: 108-114.

Gardin J.M.; Iseri L.T. Elkayan U.; Tobis J.; Childs W.; Burn C.S and Henry W.L. (1983):

Evaluation of dilated cardiomyopathy by pulsed Doppler echocardiography.

Am. Heart., j. 106: 1075-1065.

REFERENCES

Goldman M.R. and Boucher C.A. (1980):

Value of radionuclide imaging techniques in assessing cardiomyopathy.

Am. J. Cardiol., 46: 1232-1236.

Grossman P.; Van Beek J. and Wientjes C. (1990):

A comparison of three quantification methods for estimation of respiratory sinus arrhythmia.

Psychophysiology, 27: 702-714.

Hiroto y.; Shimizu G.; Kaku X.; Saito T.; Kino M. and Kawanura K.
(1984):

Mechanisms of compensation and decompensation in dilated cardiomyopathy.

Am. J. Cardiol., 54: 1033-1038.

Hon E.H. and Lee S.T. (1965):

Electronic evaluations of the fetal heart rate patterns preceding fetal death: further observations.

Am. J. Obstet. Gynecol., 87: 814-826.

Hurst W.T.; Loue B.R.; Rackly E. C.; Schallant C.R.; Sonnenblick H.G.;

Wallace A. and Wenger K.N.L. (1994):

“The Heart”.

Mc. graw- Hill Inc. 8th edition.

Inoue K.; Miyake S.; Kumashiro M.; Ogata and Yoshimura O. (1990):

Power spectral analysis of heart rate variability in traumatic quadriplegic humans.

Am. J. Physiol., 258: H 1722-H 1726.

Irisawa H.; Brown H.F. and Giles W.R. (1993):

Cardiac pacemaking in the sinoatrial node.

Physiol. Rev. 73: 197-227.

Irisawa H. and Giles W.R. (1990):

Sinus and atrioventricular node cells; cellular electrophysiology.

In: Zipes, D.P., Jalife, J., eds. Cardiac Electrophysiology:

From cell to Bedside. Philadelphia, Pa: W.B. Saunders Co. 95-102.

Iskandrian A.S.; Helfeld H.; Lemlek J.; Lee J.; Iskandrian B. and Heo J. (1992):

Differentiation between primary dilated cardiomyopathy and ischemic cardiomyopathy based on right ventricular performance.

Am. Heart, J. 123: 768-773.

Jalife J. and Michaels D.C. (1994):

Neural control of sinoatrial pacemaker activity.

In : Levy, M.N.; Schwartz, P.J. eds. Vagal Control of the heart: Experimental basis and Clinical Implications.

Armonk, N.Y: Futura 173-205.

Jannett S.; Lamb J.F. and Travis P. (1982):

Sudden large and periodic changes in heart rate in healthy young men after short periods of exercise.

B. M.J., 285: 1154-1156.

Kamath M.V. and Falen E.L. (1991):

Diurnal variations of neurocardiac rhythms in acute myocardial infarction.

Am. J. cardiol., 68: 155-160.

Katona P.G. and Jih F. (1975):

Respiratory sinus arrhythmia: a noninvasive measure of parasympathetic cardiac control.

J. Appl. Physiol., 39: 801-805.

Kautzner J. (1995):

Reproducibility of heart rate variability measurement.

In: Malik, M., Camm, A.J.; Eds. Heart rate variability.

Armonk, N.Y.: Future, 165-171.

Kay S.M. and Marple S.L. (1981):

Spectrum analysis: a modern prospective.

Prof. IEEE, 96: 1380-1419.

Kennedy M.H. (1992):

Ambulatory (Holter) electrocardiography technology.

Clin. Cardiol., 10: 341-356.

REFERENCES

Khan G.M. (1993):

Cardiac and Pulmonary management.

Lea and Febiger, Philadelphia. London.

Kienzle M.G.; Ferguson D.W.; Birkett C.L.; Myers G.A.; Berg W.J. and Mariano D.J. (1992):

Clinical hemodynamic and sympathetic neural correlates of heart rate variability in congestive heart failure.

Am. J. Cardiol., 69: 761-767.

Kitney R.L.; Byrne S.; Edmonds M.E.; Watkins P.J. and Roberts V.C.
(1982):

Heart rate variability in the assessment of autonomic diabetic neuropathy.

Automedica, 4: 155-167.

***Kleiger R.E.; Bigger J.T.; Bosner M.S.; Chung M.K.; Cook J.R.;
Roinitzky L.M.; Steinman R. and Fleiss J.L. (1991):***

Stability over time of variability and its association with increased mortality after acute myocardial infarction.

Am. J. Cardiol., 68: 626-630.

Kleiger R.E.; Miller J.P.;l Bigger J.T.; Moss A.J. and the Multicentre postinfarction group (1987):

Decreased heart rate variability and its association with increased mortality after acute myocardial infarction.

Am. J. Cardiol., 59: 256-262.

Koh J.; Bron T.E.; beightol L.A.; Ha C.Y. and Eckberg D.L. (1994):

Human autonomic rhythms: vagal cardiac mechanisms in tetraplegic patients.

J.Physiol. 474.3 : 483-495.

Kono T.; Sabban H.N.; Stein P.D.; Brymer J.F. and Khaja F. (1991):

Left ventricular shape as a determinant of functional mitral regurgitation in patients with severe heart failure, Secondary to either coronary artery disease or idiopathic dilated cardiomyopathy.

Am. J. Cardiac., 68: 355-359.

Kopecky S.L. and Gersh B.J. (1987):

Dilated cardiomyopathy and myocarditis: Natural history, etiology, clinical manifestations and management.

Curr. Probl. Cardiol. 12: 569-647.

Larovere M.T.; Mortara A.; Sandrone G. and Lombard F. (1992):

Autonomic nervous system adaptation to short term exercise training. Chest, 101: 299-303.

Levine T.B.; Francis G.S.; goldsmith S.R. and Cohn J.N. (1981):

Activity of the sympathetic nervous system and renin-angiotensin system assessed by plasma hormone levels and their relation to hemodynamic abnormalities in congestive heart failure.

Am. J. Cardiol., 41: 233-243.

Levy M.N. (1971):

Sympathetic parasympathetic interactions in the heart.
Circ. Res., 29; 437-445.

Levy M.N. and Schwartz P.J. (1994):

Experimental basis and clinical implications.
Future;

Little W.A. (1989):

Dilated cardiomyopathy.
In Julian, D.G.; a textbook of diseases of the heart.
Bailliere Tindall, London, Philadelphia, Toronto, Sydney.
Tokyo, P: 926-932.

Lombardi F.; Sandrone G.; Pernpruner and S. (1987):

Heart rate variability as an index of sympathovagal interaction
after acute myocardial infarction.
Am. J. Cardiol., 60: 1239-1245.

Lombardi F.; Torzillo D.; Sandrone G.; Dalla Vecchia L.; Finocchiaro M.L.; Bernasconi R. and Cappiello E. (1992):

Beta-blocking effect of propafenone based on spectral
analysis of heart rate variability.
Am. J. Cardiol., 70: 1028-1034.

Lombardi F.; Sandrone G. and Mortarala (1992):

Circadian variation of spectral indices of HRV after AMI.
Am. Heart. J., 123: 1521-1529.

Malik M. and Camm A.J. (1993):

Components of heart rate variability: what they really mean
and what we really measure.
Am. J. Cardiol., 72: 821-822.

Malik M. and Camm A.J. (1994):

Heart rate variability and clinical cardiology.

Br. Heart, J. 71: 1-2.

Mallk M.; Cripps T.; Farrell T. and Camm A.J. (1989):

Prognostic value of heart rate variability after myocardial
intarction: a comparison of different data processing
methods.

Med. Biol. Eng. Comput., 27: 603-611.

***Malik M.; Xia R.; Odeuyiwa O.; Staunton A.; Poloniccki J. and Camm
A.J. (1993):***

Influence of the recognition artefact in the autonomic
analysis of long-term electrocardiograms on time domain
measurement of heart rate variability.

Med. Biol. Eng. Comput., 31: 539-544.

Mallani A.; Recordati G. and Schwartz P.J. (1973):

Nervous activity of afferent cardiac sympathetic fibres with
atrial and ventricular endings.

J. Physiol. (London), 229: 457-469.

Malliani A. (1982):

Cardiovascular sympathetic afferent fibers.

Rev. Physiol. Biochem. Pharamacol., 94: 11-74.

Malliani A.; pagani M.; Lombardi F. and Cerutti S. (1991):

Cardiovascular neural regulation expored in the frequency domain.

Circulation, 84: 1482-1492.

Malliani A.; Lombardi F. and Pagani M. (1994):

Power spectral analysis of heart rate variability: a tool to explore neural regulatory mechanisms.

Br. Heart, J. 71; 1-2.

Mancia G. (1990):

Neurohormonal activation in congestive heart failure.

Am. Heart, J., 120: 1532-1537.

Mc Areavey D.; Neilson J.M.M.; Ewing D.J. and Russell D.C. (1989):

Cardiac parasympathetic activity during the early hours of acute myocardial infarction.

Br. Heart, J., 62: 165-170.

Meese R.; Adams D. and Kisslo J. (1986):

Assessment of valvular regurgitation by conventional and color-flow doppler in dilated cardiomyopathy

Echocardiography; 35-511.

Merri M.; Farden D.C.; Mottley J.G. and Titlebum E.L. (1990):

Sampling frequency of the electrocardiogram for the spectral analysis of heart rate varaiability.

IEEE, Trans, biomed. Eng., 37: 99-106.

Michels V.V.; moll P.P.; Miller F.A.; Chus J.S. and Driscoll D.J. (1992):

The frequency of familial dilated cardiomyopathy in a series of patients with DCM

N. Engl. J. Med., 326: 77-82.

Montano N.; Ruscone T.G.; Porta A.; Lombard F.; pagani M. and Malliani A. (1994):

Power spectrum analysis of heart rate variability to assess the changes in sympathovagal balance during graded orthostatic tilt.

Circulation, 90: 1826-1831.

Nolan J.; Flapan A.D.; Capewell S.; Macdonald T.M.; Neilson J.M. and Ewing D.J. (1992):

Decreased cardiac parasympathetic activity in chronic heart failure and its relation to left ventricular function.

Br. Heart, J., 67: 482-485.

Noma A. and Trautwein (1978):

Relaxation of ACh induced potassium current.

Fugers arch. 377: 193-200.

O'connor G.T.; buring J.E.; Yusuf S.; Goldhaber S.Z.; Omstead E.M.; Pffenbarger R.S.J.R. and hennekens C.H. (1989):

An overview of randomized trials of rehabilitation with exercise after myocardial infarction.

Circulation, 80: 234-244.

Pagani M.; Malfatto G.; Pierini S.; Casati R.; Mau A.M.; Poli M.; Guzzetti S. and Lombard F.; Cerutti S.; Malliani A. (1988):

Spectral analysis of heart rate variability in the assessment of autonomic diabetic neuropathy.

J. Auton. Nerv. Syst. 23: 143-153.

Pomeranz B.; Macauley R.J.B. and Caudill M.A. (1985):

Assessment of autonomic function in humans by heart rate spectral analysis.

Am. J. Physiol, 48: H 151H 153.

Pope J.C. (1991):

Cardiomyopathies.

In craig, M: a textbook of echocardiography. By J.B.; Lippincott company; Philaephia, New York, London, Hagerstown, P: 221-253.

Popma J.J.; Cigarroa R.G.; Buja L.M. and Hillis L.D. (1989):

Diagnostic and prognostic utility of right-sided catheterization and endomyocardial biopsy in idiopathic dilated cardiomyopathy.

Am. J. Cardiol., 63: 955-958.

Popp R.L. (1982):

M-mode echocardiographic assessment of LV function.

Am. J. Cardiol., 49: 1312.

Quinones M.N. and Alexander J.K. (1978):

Detection of ejection fraction

Chest, 44:59.

Potter E.K. (1982):

Angiotensin inhibits the action of vagus nerve at the heart.

Br. J. Pharmacol., 88: 231-235.

***Rich M.W.; Saini J.S.; Kleiger R.E.; Carney R.M.; Tevelde A. and
Freedland K.E. (1988):***

Correlation of heart rate variability with clinical and angiographic variables and late mortality after coronary angiography.

Am. J. Cardiol., 62: 714-717.

Rimoldi O.; Pierni S.; Ferrari A.; Cerutti S.; Pagani m. and malliani A. (1990):

Analysis of short term oscillations of R-R and arterial pressure in conscious dogs.

Am. J. Physiol., 258: H 976-H 976.

Roberts W.C.; Siegel R.J. and Manus B.M. (1987):

Idiopathic dilated cardiomyopathy: analysis of 152 necropsy patients.

Am. J. Cardiol., 60: 1340-1355.

Sandrone G.; Mortara A.; Torzillo D.; La Rovere M.T.; Malliani A. and Lombardi F. (1994):

Effects of beta blockers (atenolol or metoprolol) on heart rate variability after acute myocardial infarction.

Am. J. Cardiol., 74: 340-345.

Sands K.E.; Appel M.L.; Lilly L.S.; Schoen F.J.; Mudge G.H.; Jr. and Cohen R.J. (1989):

Power spectrum analysis of heart rate variability in human cardiac transplant recipients.

Circulation, 79: 76-82.

Saul J.P.; Albrecht P.; Berger R.D. and Cohen R.J. (1987):

Analysis of long term heart rate variability: methodss. 1/f scaling and implciations.

In : computers in cardiology 1987. Washing ton, D.C.: IEEE Computer society press, 5419-422.

Saul J.P.; Arai Y.; Berger R.D.; Lily L.S.; Wilson S.; Colucci W.S. and Cohen R.J. (1988):

Assessment of autonomic regulation in chronic congestive heart failure by the heart rate spectral analysis.

Am. J. Cardiol., 61: 1292-1299.

Saul J.P.; Rea R.F.; Eckberg D.L.; Berger R.D. and Cohen R.J. (1990):

Heart rate and muscle sympathetic nerve variability during reflex changes of autonomic activity.

Am. J. Physiol., 258: H 713-H 721.

Sayers B.M. (1973):

Analysis of heart rate variability.

Ergonomics, 16: 17-32.

Schechtman V.L.; Kluge K.A. and Harper R.M. (1988):

Time-domain system for assessing variation in heart rate.

Med. Biol. Eng. Comput., 26: 367-373.

Scherer P.; Ohler J.P.; Hirche H. and Hopp H.W. (1993):

Definition of a new beat-to-beat parameter of heart rate variability.

PACE Pacing clin. Electrophysiol., 16: 939. Abstract.

Schwartz P.J.; Pagani M.; Lombardi F.; Malliani A. and Brown A.M. (1973):

A cardio cardiac sympathovagal reflex in the cat.

Circ. Res., 32: 215-220.

Schwartz P.J.; Vanoli E.; Stramba-Badiale M.; De Ferrari G.M.; Billman G.E. and Foreman R.D. (1988):

Autonomic mechanisms and sudden death: new insights from the analysis of barore ceptor reflexes in conscious dogs with and without a myocardial infarction.
Circulation, 78: 969-979.

Schwartz P.J.; and Deferrari G.M. (1995):

Interventions changing heart rate variability after acute myocardial infarciton.
Armonk, N.Y. Future, 407-420.

Schwarz F.; Moll G.; Zebe H.; Blickle J.; Derks H.; Monthey J. and Kubler W. (1983):

Quantitative morphologic findings of the myocardium in idiopathic dilated cardiomyapathy.
Am. J. Cardiol., 51: 501-506.

Schwarz F.; Moll G.; Zebe h.; Schmitzer E.; Martley J.; Scheurien H. and Kubler W. (1984):

Determinants of survival in patients with congestive cardiomyopathy: quantitative morphological findings and left ventricular hemodyanamics.
Circulation, 70: 923-928.

Shannon D.C.; Carley D.W. and Benson H. (1987):

Aging modulation of heart rate.
Am. J. Physiol., 255: H 879-H 877.

Shin S.J.; Tapp W.N.; Reisman S.S. and Natelson B.H. (1989):

Assessment of autonomic regulation of heart rate variability
by the method of complex demodulation.
IEEE trans. Biomed. Eng., 36: 274-283.

***Smith M.L.; Ellenbogen K.A.; Eckberg D.L.; Szentpetery S. and
Thames M.C. (1981):***

Subnormal heart period variability in heart failure: effect of
cardiac transplantation.
J. Am. Coll. Cardiol., 14: 106-111.

Stefenelli T.; Bergler K.J.; Globits S.; Pacher R. and Glogar D. (1992):

Heart rate behaviour at different stages of congestive heart
failure.
Eur.Heart J., 13: 902-907.

Sunnerhagen K.S.; Bharagne, V. and Shabetai R. (1990):

Regional left ventricular wall motion abnormalities in
idiopathic dilated cardiomyopathy.
Am. J. cardiol., 65: 364-370.

***Takenaka K.; Dabestani A.L.; Gardin J.M.; Russell D.; Clark S.; Allfie
A. and Henry W.L. (1986):***

Pulsed doppler Echocardiography, study of left ventricular
filling in dilated cardiomyopathy.
Am. J. Cardiol., 58: 145-147.

Tanganelli D.; Lenardo A.; Bianciardia G.; Salvi A.; Silvestri F.; Mestromi L. and Camerini F. (1989):

Correlation between histomorphometric findings on endomyocardial biopsy and clinical findings in idiopathic. Dilated cardiomyopathy.
Am. J. Cardiol., 64: 504-506.

Taskforce of The European society of cardiology and the north American Society of Pacing and Electrophysiology (1996):

Heart rate variability-standards of measurements, physiological interpretation, and clinical use.
Circulation, 1996; 93: 1043-1065.

Tuininga Y.S.; Vanveidhuisen D.J.; brouwer J.; Haaksma J. and Crijns HGM. (1994):

Heart rate variability in left ventricular dysfunction and heart failure.,
Br. Heart J. 72: 509-513.

Trautwein W. and Kameyama M. (1986):

Intracellular control of calcium and potassium currents in cardiac cells.
Jpn. Heart, J., 27: 31-50.

Unverferth D.V.; Fetters J.K.; Unverferth B.J.; Leier C.V.; Magarien R. D.; Arn R.D. and Baker O.B. (1983):

Human myocardial histologic characteristic in congestive heart failure.
Circulation, 68: 1194-1200.

Wallis D.E.; O'connel J.B.; Henkin R.E.; Costanzo-Nordin and M.R.

Scanlon P.G. (1984):

Segmental wall motion abnormalities in dilated cardiomyopathy. A common finding and prognostic sign.

J.A.C.C., 4: 674-679.

Wenger N.K.; abelmann W.H. and Roberts W.C. (1990):

Cardiomyopathy and specific heart muscle disease:

In Hurst, J.W.; a text book of "the Heart, Arteries and Veins".

Seventh Edition, Mc Graw-hill information services co.

New York, St Louis, San Francisco. P: 1278.

Wilensky R.; Yudelman P.; Cohen A.I.; Fletcher R.D.; Atkinson I.;

Virmani R. and Roberts W.C. (1988):

Serial electrocardiographic changes in idiopathic dilated cardiomyopathy confirmed at necropsy.

Am. J. Cardiol., 62 - 276-283.

Wilson J.R.; Douglas P. and Hickey W.F. (1987):

Experimental congestive heart failure produced by rapid ventricular pacing in the dog: cardiac effects.

Circulation, 75: 857-867.

Wolf M.N.; Varigos G.A.; Hunt D. and Sloman J.G. (1978):

Sinus arrhythmia in acute myocardial infarction.

Med. J. Aust., 2: 52-53.



Wynne J. and Braunwald E. Ed. 4th ed (1992):

Cardiomyopathy and myocarditis.

Philadelphia: Saunders, 1992: 1398-1399.

Yamamoto Y. and Hughson R.L. (1991):

Coarse-graining spectral analysis: new method for studying heart rate variability.

J. Appl. Physiol., 71: 1143-1150.

Zabel M.; Klingenheben T. and Hohnloser S.H. (1994):

Changes in autonomic tone following thrombolytic therapy for acute myocardial infarction: assessment by analysis of heart rate variability.

J. Cardiovasc. Electrophysiol., 5: 211-218.

Zuanetti G.; Latini R.; Neilson J.M.M.; Schwartz P.j. and Ewing D.J. (1991):

Heart rate variability in patients with ventricular arrhythmias; effect of antiarrhythmic drugs.

J. Am. Coll. Cardiol, 17: 604-612.