

REFERENCE

Abraham T and Nishimura R.: Myocardial strain: can we finally measure contractility? *J Am Coll Cardiol.* 2001; 37: 731–734.

Alfred W, Constantine L, Athanasuleas, Gerald D, and The RESTORE Group: Heart Failure Following Anterior Myocardial Infarction: Heart Failure Reviews 2005;(9) 241-254.

Andrea B., Francesca M, Luigi P, Luca Ri, et al: Echocardiographic Diastolic Dysfunction and Magnetic Resonance Infarct Size in Healed Myocardial Infarction Treated with Primary Angioplasty. *J.Cardiovasc.Pharmacol* 2008; 32:264-282.

Anil V.: Prognostic Implications of Left Ventricular Mass and Geometry Following Myocardial Infarction: the VALsartan In Acute myocardial iNfarcTion (VALIANT) Echocardiographic Study 2005 (www.circulation.com)

Anversa P, Beghi C, Kikkawa Y, et al.: Myocardial response to infarction in the rat: morphometric measurement of infarct size and myocyte cellular hypertrophy. *Am J Pathol.* 1985;118:484–492

Aurigemma G.: Reduced left ventricular systolic pump performance and depressed myocardial contractile function. *Am J Cardiol* 2004 ;76: 702 - 5.

Azhari H, and Beyar R: Study on the human left ventricular shape. *Computers and biochemical research.* 1999; 32:264-282.

Bachenberg T, Shub C, Hauck J, Edwards D, et al: Can anatomical left ventricular mass be estimated reliably by M-mode echocardiography? A clinicopathological study of ninety-three patients. *Echocardiography* 1991, 8:9-15.

Ball S.:The sympathetic nervous system and converting enzyme inhibition.*J.Cardiovasc.Pharmacol.*1989;13(suppl3):S17–S21.

Basu S, Senior R and Raval U .: Beneficial effects of intravenous and oral carvedilol treatment in acute myocardial infarction: a placebo-controlled, randomized trial. *Circulation.* 1997; 96:183–191

Bellenger N.: Cardiac remodeling in the era of aggressive medical therapy .Int J Cardiol.2005;83:217-225.

Bolognese L, and Cerisano G: Influence of infarct zone viability on left ventricular remodeling after myocardial infarction. *Circulation* 1997 96:3353-3359

Bolognese L, Dellavesa P, Rossi L, Sarasso G, et al: Prognostic value of left ventricular mass in uncomplicated acute myocardial infarction and one-vessel coronary artery disease Am J Cardiol. 1994 1;73(1):1-5..

Carebello B.,: Ischemic mitral regurgitation and ventricular remodeling.circul. 1983; 68:498-508.

Carole A. : Relation of amount and distribution of coronary narrowing at necropsy to previous symptoms of myocardial ischemia, left ventricular scarring and heart weight *Circulation*. 2004;113:e396-e398.

Carolyn Y, Scott D and Solomn M: A Clinician's Guide to Tissue Doppler Imaging *Circulation*. 2006;113:e396-e398

Celik T, Yuksel U, Iyisoy A, Kilic S, et al.: The impact of preinfarction angina on electrocardiographic ischemia grades in patients with acute myocardial infarction treated with primary percutaneous intervension . *Ann Noninvasiv Electrocardiol*. 2008;13(3):278-86.

Cerqueir B, Weissman J and Dilsizian V: American Heart Association Writing Group on Myocardial Segmentation and Registration for Cardiac Imaging: Standardized myocardial segmentation and nomenclature for tomographic imaging of the heart: A statement for healthcare professionals from the Cardiac Imaging Committee of the Council on Clinical Cardiology of the American Heart Association. *Circulation* 2002; 105:539.

Cesar A, Santana S, Leslee J, Shaw V et al:The independent value of left ventricular (LV) functional parameters derived from gated fluorine 18 fluorodeoxyglucose (FDG) positron emission tomography (PET) to predict prognosis in patients with ischemic cardiomyopathy undergoing myocardial viability assessment. *Am J Cardiol* 2004 ; 286(11):1356-9

Charles A. and Goldthwaite J.: Mending a Broken Heart. *Circulation*. 2007;116:497–505.

Chinali M, Devereux R, Howard V, Roman M, et al: Comparison of cardiac structure and function in American Indians with and without the metabolic syndrome (the Strong Heart Study). *Am J Cardiol* 2004, 93:40-44.

Chuang M, Beaudin A, Riley F, Mooney G, , et al: Three-dimensional echocardiographic measurement of left ventricular mass: comparison with magnetic resonance imaging and two-dimensional echocardiographic determinations in man. *Int J Card Imaging* 2000, 16:347-357.

Cleutjens J, Kandala J and Guarda E: Regulation of collagen degradation in the rat myocardium after infarction. *J Mol Cell Cardiol*. 1995; 27:1281–1292

Cohen J and Ferrari R,: Cardiac remodeling: concepts and clinical application: A consensus paper from an international forum on cardiac remodeling. *J Am Coll cardiol*.2002; 35:569-582.

Cohn N, and Colucci W : Cardiovascular effect of aldosterone and post-infarction pathophysiology, *Am J Cardiol*. 2006 22;97(10A).

Compell M and Machin L :Medical statistics : A common approach. Second edition John Wiley and Sons Chichester, New Yourk, Brisbane, Toranta and Singapora, 1993.

Dannenber L, Levy D, and Garrison J : Impact of age on echocardiographic left ventricular mass in a healthy population (the Framingham Study). *Am J Cardiol* 1989, 64:1066-1068.

David A, Bluemke T, and Richard A.: The Relationship of Left Ventricular Mass and Geometry to Incident Cardiovascular Events. The MESA Study. *Am Coll Cardiol*, 2008; 52:2148-2155

De la Grandmaison G, Clairand I and Durigon M: Organ weight in 684 adult autopsies. *Forensic Sci Int* 2001, 119:149-154.

De Simone G, Daniels R, Devereux B, Meyer A, et al.: Left ventricular mass and body size in normotensive children and adults: assessment of the relations and impact of overweight. *J Am Coll Cardiol* 1992, 20:1251-1260.

De Simone G, Daniels R, Kimball R, Roman J et al.: Evaluation of concentric left ventricular geometry in humans: evidence for age-related systematic underestimation. *Hypertension* 2005, 45:64-68.

De Simone G, Devereux B, Daniels R, Meyer A et al.: Gender differences in left ventricular growth. *Hypertension* 1995, 26:979-983.

De Simone G, Devereux B, Roman J, Alderman H et al.: Relation of obesity and gender to left ventricular hypertrophy in normotensive and hypertensive adults. *Hypertension* 1994, 23:600-606.

Desmouliere A, Geinoz A, and Gabbiani Y.: Transforming growth factor-beta 1 induces alpha-smooth muscle actin expression in granulation tissue myofibroblasts and in quiescent and growing cultured fibroblasts. *J Cell Biol.* 1993; 122:103–111

Devereux B and Reichek N: Echocardiographic determination of left ventricular mass in man. Anatomic validation of the method. *Circulation* 1977, 55:613-618.

Devereux B: Detection of left ventricular hypertrophy by M-mode echocardiography. Anatomic validation, standardization, and comparison to other methods. *Hypertension* 1987, 9:II9-II26.

Dhalla S and Hill F: Role of oxidative stress in transition of hypertrophy to heart failure *J Am Coll Cardiol* 1996;28:506-514

Donnat K, Thomas N and Philip R: Cardiovasc Ultrasound European Journal of Echocardiography 2003 4(4):313-319.

Doughty R and Whally G: left ventricular remodeling after myocardial infarction *J Am Coll cardiol.* 1997;29:1060-1066.

Edvardsen T, Skulstad H, Aakhus S, Urheim S, Ihlen H et al.: Regional myocardial systolic function during acute myocardial ischemia

assessed by strain Doppler echocardiography. *J Am Coll Cardiol.* 2001; 37: 726–730

Erberto C, Stefano T, Maurizio B, Massimo B, Lucia F, et al.: Prognostic value of left ventricular hypertrophy and geometry in patients with a first, uncomplicated myocardial infarction *Am J Cardiol* 2000, 59:956-960.

Erlebacher A, Weiss L and Weisfeldt L.: Early dilation of the infarcted segment in acute transmural myocardial infarction: role of infarct expansion in acute left ventricular enlargement. *J Am Coll Cardiol.* 1984; 4:201–208.

Fast J: Limits of reproducibility of left ventricular wall thickness and mass by M-mode echocardiography. *Neth J Med* 1989, 34:297-301.

Federico C.: Echocardiographic evaluation of left ventricular systolic function : 3D versus 2D and M- Mode cardiac views volume 9 no.2 June –August 2008

Feener E, and King L: Vascular dysfunction in diabetes mellitus. *Lancet* 1997, 350(Suppl 1):SI9-13.

Foppa M, Bruce B, and Duncan L: Echocardiography based left ventricular mass estimation. *Cardiovascular Ultrasound* 2005,3:17

Gardin J, Adam B and Douglas S: echo –anatomic correlation and image display approach in transthoracicecho, *J Am Soc Echocardiogr.* 2002 ; 15 :275-290.

Gardin M, Siscovick D, Anton-Culver H, Lynch J, et al.: Sex, age, and disease affect echocardiographic left ventricular mass and systolic function in the free-living elderly. The Cardiovascular Health Study. *Circulation* 1995, 91:1739-1748

Gaudron P and Ellis C.: Progressive left ventricular dysfunction and remodeling after myocardial infarction. *Circulation*,1993;87:755-763.

Gensini G.: More meaningful scoring to determine the severity of coronary artery disease *Am. J. Cardiol* 1983;51:606

Goodman S, Fitchett D and Armstrong P: Randomized evaluation of the safety and efficacy of enoxaparin versus unfractionated heparin in high-risk patients with non-ST segment elevation acute coronary syndromes receiving the glycoprotein IIb/IIIa inhibitor eptifibatide. *Circulation* 2003; 107:238-244.

Grayburn A, Appleton C and De Maria A: BEST Trial Echocardiographic Substudy Investigators: Echocardiographic predictors of morbidity and mortality in patients with advanced heart failure: the Beta-blocker Evaluation of Survival Trial (BEST). *J Am Coll Cardiol* 2005; 45:1064.

Gregory D, Pennock K, Douglas Y, Poonam G. et al: Echocardiographic changes after myocardial infarction in a model of left ventricular diastolic dysfunction 2009 Published by Elsevier Inc.

Gruppo Italiano per lo Studio della Sopravvivenza nell'Infarto Miocardico, (GISSI-3): Effects of lisinopril and transdermal glyceryl trinitrate singly and together on 6-week mortality and ventricular function after acute myocardial infarction. *Lancet*. 1994;343:1115–1122.

Hall C.: Interaction and modulation of neurohormones on left ventricular remodeling. *London :Science, Press Ltd;* 1996:89–99

Hazirolan T, Tasbas B, Dagoglu MG, Canyigit M, et al: Comparison of short and long axis methods in cardiac MR imaging and echocardiography for left ventricular function *Diagn Interv Radiol*. 2007; 13(1):33-8

Hochman J, and Bulkley H. Expansion of acute myocardial infarction, *circulation*.1982;65; 1446-1450.

Hradec J, Aschermann M, Vancura J, Petrasek J, et al.: Comparison of M-mode echocardiography and angiography in the evaluation of left ventricular hypertrophy. *Cor Vasa* 1989, 28:341-349.

Iacobellis G, Ribaudo C, Leto G, Zappaterreno A, Vecci E, et al: Influence of excess fat on cardiac morphology and function: study in uncomplicated obesity. *Obes Res* 2002, 10:767-773.

Ilercil A, Devereux B, Roman J, Paranicas M, O'Grady J, et al: Associations of insulin levels with left ventricular structure and function in American Indians: the strong heart study. *Diabetes* 2002, 51:1543-1547.

Isaaz K, Thompson A, Ethevenot G, Cloez J, Brembilla B, et al: Doppler echocardiographic measurement of low velocity motion of the left ventricular posterior wall. *Am J Cardiol* 1989; 64: 66–75.

ISIS-4 (Fourth International Study of Infarct Survival) Collaborative Group.: A randomised factorial trial assessing early oral captopril, oral mononitrate and intravenous magnesium sulphate in 58050 patients with suspected myocardial infarction. *Lancet*. 1995; 345:669–685.

JA H, Zhao S, and Tappia P : Expression of Gq alpha and PLC-beta in scar and border tissue in heart failure due to myocardial infarction. *Circulation*. 1998; 97:892–829.

Jenny S: Scaling of Myocardial Mass to Flow and Morphometry of Coronary Arteries *J Appl Physiol*. 2008 May; 104(5): 1281–1286

Jeremy W, and Allman K: Pattern of left ventricular dilatation during the six months after myocardial infarction. *J. Am. Coll cardiol*. 1989; 13:303 - 310.

Jerosch-Herold M, Muehling O, Wilke N et al: MRI of myocardial perfusion. *Semin Ultrasound CT MR* 2006; 27:2.

Joseph A. and Kisselo M, : Basic echocardiography in heart muscle disease Duke Center for Echo 2002.

Jugdutt J: Effect of reperfusion on ventricular mass, topography, and function during healing of anterior infarction *Heart and Circulatory Physiology*, 1997; Vol 272, Issue 3 1205

Kaikkonen K, Kortelainen M, and Huikuri H.: Comparison of risk profiles between survivors and victims of sudden cardiac death from an acute coronary event. *Ann Med*. Aug 21 2008;1-8.

Katsuki K, Nakatani S, Kanzaki H, Hanatani A, Tanaka N, et al: Clinical validation of accuracy of anatomical M-mode measurements: effect of harmonic imaging *J Cardiol* 2001, 37:35-42.

Katz A .: Physiology of the heart . philadelphia:Lipincott, Williams & Wilkins,2000

Keith A., Collins S, Claudia E., Korca Z et al.: Accuracy of echocardiographic estimates of left ventricular mass. .*Am Heart J.* Sep 2001;142(3):516-9

Koren J: Relation of left ventricular mass and geometry to mortality. *Ann Intern Med* 2001; 114:345-352

Kostis J, Mavrogeorgis E, Slater A, Bellet S., et al: Use of a range-gated, pulsed ultrasonic Doppler technique for continuous measurement of velocity of the posterior heart wall. *Chest* 1972; 62: 597–604.

Kramer M, Rogers J, Theobald M, Power P, et al : Dissociation between changes in intramyocardial function and left ventricular volumes in the eight weeks after first anterior myocardial infarction *Journal of the American College of Cardiology* 1997, vol. 30, pp. 1625-1632.

Kühl, P. Hanrath and A. Franke: M-Mode Echocardiography Overestimates Left Ventricular Mass in Patients with Normal Left Ventricular Shape: A Comparative Study Using Three-Dimensional Echocardiography. *Am J Physiol Heart Circ Physiol* 2003 Vol. 280, Issue 5, H1954.

Kuperstein R, Hanly P, Niroumand M, Sasson Z et al. : The importance of age and obesity on the relation between diabetes and left ventricular mass. *J Am Coll Cardiol* 2001, 37:1957-1962.

Lamas G, Flaker G and Mitchell G : Effect of infarct artery patency on prognosis after acute myocardial infarction. *Circulation.* 1995;92:1101–1109

Lantelme P, Bouchayer D, Gayet C, Lievre M, et al: Influence of a rapid change of left ventricular dimensions on the echocardiographic measurement of left ventricular mass by the Penn convention. *J. Hypertension* 1999, 17:1323-1328.

Lee M, Gardin J, Lynch J, Smith E, Tracy P, Savage P, et al.:Diabetes mellitus and echocardiographic left ventricular function in free-living

elderly men and women: The Cardiovascular Health Study. *Am Heart J* 1997, 133:36-43.

Lenstrup M, Kjaergaard J, Petersen L, Kjaer A, and Hassager C.: evaluation of left ventricular mass measured by 3D echocardiography using MRI as gold standard, *Scand J Clin Lab Invest.* 2006;66(8):647-57.

Letizia S, Mario P and Wanda C :Prognostic Value of Combined Assessment of Regional Left Ventricular Function and Myocardial Perfusion by Dobutamine and Rest Gated SPECT in Patients with Uncomplicated Acute Myocardial Infarction 2003 Elsevier Science Ireland Ltd.

Levy D, Garrison T, Savage R, Kannel E, et al.: Prognostic implications of echocardiographically determined left ventricular mass in the Framingham Heart Study.

Levy D, Savage D, Garrison J, Anderson M, Kannel B, et al.: Echocardiographic criteria for left ventricular hypertrophy: the Framingham Heart Study. *Am J Cardiol* 1987, 59:956-960.

Lew W, Chen Z and Guth B : Mechanisms of augmented segment shortening in nonischemic areas during acute ischemia of the canine left ventricle. *Circ Res.* 1985;56:351–358.

Liao Y, Cooper S, Durazo R, Mensah G, Ghali K et al: Prediction of mortality risk by different methods of indexation for left ventricular mass. *J Am Coll Cardiol* 1997, 29:641-647.

Lips J, DeWindt J, van J, Doevendans P, et al: Molecular determinants of myocardial hypertrophy and failure: alternative pathways for beneficial and maladaptive hypertrophy. *Eur Heart J* 2003, 24:883-896.

Lonnaz M.: Invasive strategy for treatment of myocardial infarction. *J Cardiovasc Pharmacol.* 2004;16 Suppl 5:S120-2.

Mahmorian J.: Transdermal nitroglycerin patch therapy improves left ventricular function and prevents remodeling after acute myocardial infarction: results of a multicenter prospective, randomized, double-blind, placebo-controlled trial. *Circulation.* 1998;97:2017–202

Mann L, and Spinale G.: Activation of matrix metalloproteinases in the failing human heart: breaking the tie that binds. *Circulation*. 1998; 98:1699–1702

Mansier P, Medigue C, and Charlotte N: Decreased heart rate variability in transgenic mice overexpressing atrial beta 1-adrenoceptors. *Am J Physiol* (1999) 271:H1465–H1472

Mark Y, Chan M, Jie L, Sun M, Kristin N, et al.: Long-Term Mortality of Patients Undergoing Cardiac Catheterization for ST-Elevation and Non-ST-Elevation Myocardial Infarction *Circulation*. 2009;119:3110-3117.

Marroquin C and Lamas A.: Beneficial effect of an open artery on the left ventricular remodeling after myocardial *infarction*. *Progr cardiovasc Dis*. 2000;42:471-483

Maruyama K, Hasegawa S, Nakatani D, Paul AK, Kusuoka H et al.: Left ventricular mass index measured by quantitative gated myocardial SPECT with 99mTc-tetrofosmin: a comparison with echocardiography. *Ann Nucl Med* 2003, 17:31-39.

Marwick H, Case C, Leano R, Short L, Baglin T, Cain P, et al.: Use of tissue Doppler imaging to facilitate the prediction of events in patients with abnormal left ventricular function by dobutamine echocardiography. *Am J Cardiol*. 2004; 93: 142–146.

Matyal R, and Subramaniam B. :Transmitral flow propagation velocity and assessment of diastolic function during abdominal aortic aneurysm repair. *J Cardiothorac Vasc Anesth* 2007; 21:486-91.

Mauro S, Ken H, Judd E, Reed A, et al.: Regional left ventricular wall thickness and systolic function during the first year after index anterior wall myocardial infarction: Serial effects of ventricular remodeling *Am J Cardiol*. 2002; 93: 142–146.

McCormick J, Musch I and Bergman C .: Regional differences in LV collagen accumulation and mature cross-linking after myocardial infarction in rats. *Am J Physiol*. 1994; 266:H354–H359.

McGavigan D, Dunn G and Goodfield E : Secondary harmonic imaging overestimates left ventricular mass compared to fundamental echocardiography. *Eur J Echocardiogr* 2003, 4:178-181.

Mckay G, and Pfeffer C: left ventricular remodeling after myocardial infarction circulation.1986; 74:693-702.

Mitchell F and Lamas A: Left ventricular remodeling in the year after first anterior myocardial infarction: A quantitative analysis of contractile segment length and ventricular shape. *J Am Coll cardiol.* 1992; 19:1136-1144.

Moller E. The Doppler echocardiographic myocardial performance index predicts left-ventricular dilation and cardiac death after myocardial infarction. *Cardiology.* 2003; 95(2):105-11.

Montalescot G, Dallongeville J and Van E; 1 year outcomes in acute myocardial infarction as defined by the ESC/ACC definition (the OPERA registry). *Eur Heart J.* 2009; 28(12):1403-4.

Nagase H.: Activation mechanisms of matrix metalloproteinases. *BiolChem.*1997;378:151–160.

Nijiland F, and Kamp O: Long term implication of reocclusion on the left ventricular size and function after successful thrombolysis for first anterior myocardial infarction. *Circulation* 1997;95:111-117.

Nunez E, Arnett K, Benjamin J, Liebson R, Skelton N, et al. Optimal threshold value for left ventricular hypertrophy in blacks: the atherosclerosis risk in communities study. *Hypertension* 2005, 45:58-63.

Ommen R, Nishimura A, Appleton P, Miller A, et al.: Clinical utility of Doppler echocardiography and tissue Doppler imaging in the estimation of left ventricular filling pressures: a comparative simultaneous Doppler-catheterization study. *Circulation.* 2000; 102: 1788–1794.

Orn S, Manhenke C, Anand S, Squire I, et al.: Effect of left ventricular scar size, location, and transmuralty on left ventricular remodeling with healed myocardial infarction. *Am J Cardiol.* 2007 15;99(8):1109-14.

Paczek A, Gardin J, Hardin M, Anton H, et al: Comparison of M-mode and two-dimensional echocardiographic algorithms used to estimate left ventricular mass: the Coronary Artery Risk Development in Young Adults Study. *J Am Soc Echocardiogr* 1995, 8:780-792.

Palmieri V, Dahlof B, DeQuattro V, Sharpe N, et al.: Reliability of echocardiographic assessment of left ventricular structure and function: the PRESERVE study. Prospective Randomized Study Evaluating Regression of Ventricular Enlargement. *J Am Coll Cardiol* 1999, 34:1625-1632

Paolo B.: Atlases and Reference Material for Echocardiography (Echo by Web) November 8, 2001

Park H, Shub C, Nobrega P, Bailey K, Seward J et al: Two-dimensional echocardiographic calculation of left ventricular mass as recommended by the American Society of Echocardiography: correlation with autopsy and M-mode echocardiography. *J Am Soc Echocardiogr* 1996, 9:119-128.

Persson, E. Linder, Klingsell, S. Eeicsson et al: Heart failure after myocardial infarction: the importance of diastolic dysfunction. A prospective clinical and echocardiographic study *Am J Physiol Heart Circ Physiol* 1997;273: H2018-H2029,

Pfeffer M and Braunwald E.: Ventricular remodeling after myocardial infarction, experimental observations and clinical implications. *Circulation*. 1990; 81:1161-1172.

Picano E: Economic and biological costs of cardiac imaging. *Cardiovasc Ultrasound* 2005, 3:13.

Picard M and Wilkins G: Natural history of left ventricular size and function after acute myocardial infarction circulation. 1990; 82: 484-494.

Pierre V., Darchis C, Nicolas N, Livier T, et al.: Left ventricular remodeling is associated with the severity of mitral regurgitation after inaugural anterior myocardial infarction—Optimal timing for echocardiographic imaging *Circ Physiol* 2008;81: 480-494.

Pinto J.: echocardiography in left ventricular dysfunction Ital Heart J. 2004 Jun;5 Suppl 6:41S-47S

Pons G, Carreras F, Borrás X, Llauger J, Palmer J, et al: Comparative study of echocardiography and magnetic resonance imaging in the assessment of left ventricular mass. *Rev Esp Cardiol* 2001, 54:22-28.

Pouleur W, Marfin T and Wallas V. ; the effect of acute myocardial infarction on the systolic and diastolic function J Cardiac Failure 2008;8(suppl):311-313.

Poulsen H, Jensen E and Moller E :Prognostic value of left ventricular diastolic function and association with heart rate variability after a first acute myocardial infarction. *Heart* 1997;86: 376- 80.

Rahimatoola H: The hibernating myocardium. *Am heart. J.*1989; 117:211-221

Ramzi R, Nawwar A, and Siamak M,l: Left ventricular infarct plication restores mitral function in chronic ischemic mitral regurgitation J. Thorac. Cardiovasc. Surg. 2005;129:440-442.

Reichek N: Standardization in the measurement of left ventricular wall mass. M-mode echocardiography. *Hypertension* 1987, 9:II27-II29.

Rohde E, Zhi G, Aranki S, Beckel N, Lee R, Reimold S, et al: Gender-associated differences in left ventricular geometry in patients with aortic valve disease and effect of distinct overload subsets. *Am J Cardiol* 1997, 80:475-480.

Roxy S.: Carvedilol Prevents Remodeling in Patients With Left Ventricular Dysfunction After Acute Myocardial Infarction *Am Heart J* 1999; 137(4):646-652.

Russell S., Kartik G, Richard N., Kitsis C, et al: Nipping at cardiac remodeling . *Clin. Invest.* 117(10): 2751-2753 (2007).

Sadoshima J, Jahn L and Takahashi T : Molecular characterization of the stretch-induced adaptation of cultured cardiac cells: an in vitro model

of load-induced cardiac hypertrophy. *J Biol Chem.* 1992;267: 10551 – 10560.

Schiller B, Shah M, Crawford M, DeMaria A, Devereux R, et al: Recommendations for quantitation of the left ventricle by two-dimensional echocardiography. American Society of Echocardiography Committee on Standards, Subcommittee on Quantitation of Two-Dimensional Echocardiograms. *J Am Soc Echocardiogr* 1989, 2:358-367.

Schlosser T, Mohrs K, Magedanz A, Voigtlander T, et al.: Assessment of left ventricular function and mass in patients undergoing computed tomography (CT) coronary angiography using 64-detector-row CT: comparison to magnetic resonance imaging. *Acta Radiol.* 2007;48 (1)30-5.

Schmermund A, Mohlenkamp S, Berenbein S, et al: Population-based assesment of subclinical coronary atherosclerosis using electron-beam computed tomography. *Atherosclerosis* 2006; 185:117.

Schofer J, and Lins M: Time course left ventricular function recovery after thrombolytic therapy for acute myocardial infarction *Eur Heart J* .1993;14:958-963

Schroder R, and Neuhaus K: impact of late coronary artery reperfusion on left ventricular function one month after acute myocardial infarction *Am J cardiol.* 1989;64:878-884.

Seward H, Tajik A, nicolad J, martinol F, et al. The Echo Manual, 3rd ed. Philadelphia, Lippincott Williams & Wilkins, 2006.

Shalaby S, Montaser A, Hassan B, , Ahmad N, et al: Effect Of Left Ventricular Mass On Mitral Flow Pattern In Patients With Acute Myocardial Infarction: Echodoppler Study. *Egyptian Heart Journal* 2000 Volume 55 - No. 4

Sharpe N and Murphy J: Treatment of patients with symptomsless left ventricular dysfunction after myocardial infarction *Lancet* 2004;364:347-354

Sheehan H and, Doerr R: Early recovery of left ventricular function after thrombolytic therapy for acute myocardial infarction *J Am Coll cardiol*, 1988; 12:289-300

Skelton N, Andrew E, Arnett DK, Burchfiel M, et al: Echocardiographic left ventricular mass in African-Americans: the Jackson cohort of the Atherosclerosis Risk in Communities Study. *Echocardiography* 2003, 20:111-120.

Solomon D: Remodeling and recovery following myocardial infarction. *Ital heart J*. 2003; 4:379-382.

Stanly D, Alfred C, Athanasuleas L, Buckberg G, et al: Heart failure following anterior myocardial infarction : An indication for ventricular restoration, a surgical method to reverse post-infarction remodeling *Heart failure reviews* 2004, vol. 9, pp. 241-254

Stollberger C, Hollander I, Dimitrov L, Slany J et al: Influence of measurement inaccuracies on determination of left ventricular mass by M mode echocardiography. *Heart* 1996, 75:312-313.

Sutherland R, Salvo G and Claus P: Strain and strain rate imaging: a new clinical approach to quantifying regional myocardial function. *J Am Soc Echocardiogr* 2004; 17:788.

Sutton G and Sharpe N.: Left ventricular remodeling after myocardial infarction: pathophysiology and therapy. *Circulation* 2000; 101:2981

Swynghedauw B.: Molecular mechanism of myocardial remodeling. *Am J Physiol*. 1999; 79:215-262.

The Heart Outcomes Prevention Evaluation Study Investigators (HOPE): Effects of an angiotensin-converting-enzyme inhibitor, ramipril, on cardiovascular events in high-risk patients. *N Engl J Med*. 2000; 342:145–153

The SOLVD investigators.: Effect of enalapril on survival in patients with reduced left ventricular ejection fractions and congestive heart failure. *NEngl.J.Med*. 1991; 325:293–302

Theodore P, Rick A, David R, Holmes J, et al: Strain Rate Imaging for Assessment of Regional Myocardial Function *Circulation*. 2002; 105: 1403.

Troy L, Pombo J and Rackley C: Measurement of left ventricular wall thickness and mass by echocardiography. *Circulation* 1972, 45:602-611.

Uwe f, Lutz K, Gertrud W, Susanne M, et al: Development of Ischemic Mitral Regurgitation during Post-Infarction Remodeling *Cardiol*, 2007 Vol. 107, No. 4

Vibhuti N: Follow-up of patients after myocardial infarction. *Clinics*. 2008;63(4):489-96.

Vijayakumar M: Birth weight, weight at one year, and left ventricular mass in adult life. *Br Heart J* 1995, 73:363-367

Vuille C, and Weyman A: General Considerations, assessment of chamber size and function. In *Principles and Practice of Echocardiography*. 2nd edition. Edited by: Weyman A. Malvern, Pennsylvania: Lea & Febinger; 1994:575-624.

Wachtell K, Bella JN, Liebson PR, Gerds E, Dahlof B, et al.: Impact of different partition values on prevalence of left ventricular hypertrophy and concentric geometry in a large hypertensive population : the LIFE study. *Hypertension* 2000, 35:6-12.

Wang Y, Moss J and Thisted R.: Predictors of body surface area. *J Clin Anesth*. 1992; 4(1):4-10.

Warren E, Royal D and Markis E.: Time course of left ventricular dilation after myocardial infarction: influence of infarct-related artery and success of coronary thrombolysis. *J Am Coll Cardiol*. 1988;11:12–19

Weber T.: Extracellular matrix remodeling in heart failure: a role for de novo angiotensin II generation. *Circulation*. 1997; 96:4065–4082

West GB and Brown JH. The origin of allometric scaling laws in biology from genomes to ecosystems: Towards a quantitative unifying theory of biological structure and organization. *J Exp Biol*. 2005;208:1575–1592.

Whally N , Mehta R, Afzal R, Chrolavicius S et al.: Predictors of left ventricular function after acute myocardial infarction: *Eur Heart J*. 2008;142(1):43-50

White D, Norris M and Brown M.: Left ventricular end-systolic volume as the major determinant of survival after recovery from myocardial infarction. *Circulation*. 1987; 76:44–5.

Williams A, Lang M, Reba C, Taillon A et al: Comparison of technetium-99m sestamibi-gated tomographic perfusion imaging with echocardiography and electrocardiography for determination of left ventricular mass. *Am J Cardiol* 1996, 77:750-755

Yamazaki T, Komuro I and Kudoh S.: Angiotensin II partly mediates mechanical stress-induced cardiac hypertrophy. *Circ Res*. 1995;77:258–265.

Youn J, Rokosh G and Lester J. : Two-dimensional echocardiography with a 15-MHz transducer is a promising alternative for in vivo measurement of left ventricular mass in mice. *J Am Soc Echocardiogr* (1999) 12:70–75

Yu M, Fung W, Zhang Q, Chan K, et al: Tissue Doppler imaging is superior to strain rate imaging and postsystolic shortening on the prediction of reverse remodeling in both ischemic and nonischemic heart failure after cardiac resynchronization therapy. *Circulation*. 2004; 110: 66–73

Zakopoulos N: Gensini score relation to LV mass index *American journal of hypertension* 2001, vol. 14:195-199

Zhou F: Effect of body mass index on all-cause mortality and incidence of cardiovascular diseases – report for meta-analysis of prospective studies open optimal cut-off points of body mass index in Chinese adults. *Biomed Environ Sci* 2002, 15:245-252.

Zile R: Structural component of cardiomyocyte remodeling: *J Cardiac Failure*.2002;8(suppl):311-313

Zoccali C, Benedetto FA, Mallamaci F, Tripepi G, Giaccone G, et al: Prognostic impact of the indexation of left ventricular mass in patients undergoing dialysis. *J Am Soc* 2001, 12:2768-2774.