Myocardial wall velocity assessment by pulsed Doppler tissue imaging: characteristic findings in normal subjects

DOI: 10.1016/s0002-8703(96)90251-3
American Heart Journal, 1996, 132, 648-56.

#	Paper	IF	Citations
218	Bibliography Current World Literature. **1997**, 4, 47-66		
217	Diastolic myocardial velocity measurements. *American Heart Journal*, **1997**, 133, 713	4.9	
216	Preejectional left ventricular wall motion in normal subjects using Doppler tissue imaging and correlation with ejection fraction. **1997**, 80, 601-7		37
215	Evaluation of left ventricular early diastolic performance by color tissue Doppler imaging of the mitral annulus. **1998**, 82, 1414-7		53
214	Developments in cardiovascular ultrasound. Part 3: Cardiac applications. **1998**, 36, 529-43		3
213	Pre-ejectional left ventricular wall motions studied on conscious dogs using Doppler myocardial imaging: relationships with indices of left ventricular function. **1998**, 24, 1271-83		21
212	New Doppler echocardiographic applications for the study of diastolic function. **1998**, 32, 865-75		820
211	Peak negative myocardial velocity gradient in early diastole as a noninvasive indicator of left ventricular diastolic function: comparison with transmitral flow velocity indices. **1998**, 32, 1418-25		78
210	Regional mean systolic myocardial velocity estimation by real-time color Doppler myocardial imaging: a new technique for quantifying regional systolic function. **1998**, 11, 683-92		149
209	Automated quantification in tissue Doppler imaging.		
208	Concordance between dobutamine Doppler tissue imaging echocardiography and rest reinjection thallium-201 tomography in dysfunctional hypoperfused myocardium. **1999**, 82, 432-7		9
207	Measurement of tissue motion. **1999**, 213, 181-91		7
206	Tendon displacement assessment by pulsed Doppler tissue imaging: validation with a reciprocating string test target. **1999**, 25, 1229-39		11
205	Pulsed tissue Doppler evaluation of mitral annulus motion: a new window to assessment of diastolic function. **1999**, 19, 1-10		54
204	Quantitative Analysis of Tissue Doppler Data. *Echocardiography*, **1999**, 16, 473-480	1.5	7
203	Evaluation of Hemodynamic Determinants of Quantitative Tissue Doppler Echocardiography in the Assessment of Left Ventricular Function. *Echocardiography*, **1999**, 16, 481-489	1.5	6
202	Tissue Doppler to Assess Diastolic Left Ventricular Function. *Echocardiography*, **1999**, 16, 501-508	1.5	27

201	Effect of aging on diastolic left ventricular myocardial velocities measured by pulsed tissue Doppler imaging in healthy subjects. **1999**, 12, 574-81		103
200	Differentiation of abnormal relaxation pattern with aging from abnormal relaxation pattern with coronary artery disease in transmitral flow with the use of tissue Doppler imaging of the mitral annulus. **1999**, 12, 629-35		31
199	Pulsed tissue Doppler imaging of left ventricular systolic and diastolic wall motion velocities to evaluate differences between long and short axes in healthy subjects. **1999**, 12, 308-13		99
198	Effect of an acute increase in afterload on left ventricular regional wall motion velocity in healthy subjects. **1999**, 12, 476-83		68
197	Use of segmental tissue Doppler velocity to quantitate exercise echocardiography. **1999**, 12, 901-12		75
196	Comparison of 2 myocardial velocity gradient assessment methods during dobutamine infusion with Doppler myocardial imaging. **1999**, 12, 22-31		17
195	Reproducibility of pulsed wave tissue Doppler echocardiography. **1999**, 12, 492-9		112
194	Pulsed Doppler tissue imaging of mitral annular motion: a new technique in the non-invasive assessment of diastolic function. **1999**, 10, 75-82		6
193	Influence of dobutamine or exercise stress on the results of pulsed-wave Doppler assessment of myocardial velocity. *American Heart Journal*, **1999**, 138, 753-8	4.9	30
192	Evaluation of the hemodynamic relationship between the left atrium and left ventricle during atrial systole by pulsed tissue Doppler imaging in patients with left heart failure. **1999**, 63, 763-9		19
191	A comparison of regional myocardial velocity information derived by pulsed and color Doppler techniques: an in vitro and in vivo study. *Echocardiography*, **2000**, 17, 639-51	1.5	64
190	Tissue Doppler imaging in detection of myocardial dysfunction in survivors of childhood cancer treated with anthracyclines. **2000**, 26, 1099-108		64
189	Assessment of myocardial velocities in healthy children using tissue Doppler imaging. **2000**, 26, 229-37		92
188	Correlation of myocardial Doppler velocity response to exercise with independent evidence of myocardial ischemia by dual-isotope single-photon emission computed tomography. **2000**, 85, 536-42		38
187	Effects of inotropic stimulation on segmental left ventricular relaxation quantified by color kinesis. **2000**, 85, 1476-80		8
186	Mitral flow derived Doppler indices of left ventricular diastolic function in a general population; the Tromso study. **2000**, 21, 1376-86		68
185	Regional myocardial function--a new approach. **2000**, 21, 1337-57		116
184	The echo-Doppler evaluation of left ventricular diastolic function. A current perspective. **2000**, 18, 513-46, ix		127

183	Clinical utility of Doppler echocardiography and tissue Doppler imaging in the estimation of left ventricular filling pressures: A comparative simultaneous Doppler-catheterization study. **2000**, 102, 1788-94	2268
182	Left ventricular wall motion velocities in healthy children measured by pulsed wave Doppler tissue echocardiography: normal values and relation to age and heart rate. **2000**, 13, 1002-11	72
181	Acute regional myocardial ischemia identified by 2-dimensional multiregion tissue Doppler imaging technique. **2000**, 13, 986-94	47
180	Unsolved problems in diastole. **2000**, 18, 653-67	11
179	Myocardial longitudinal motion by tissue velocity imaging in the evaluation of patients with myocardial infarction. **2000**, 13, 818-26	38
178	Regional myocardial systolic function during acute myocardial ischemia assessed by strain Doppler echocardiography. **2001**, 37, 726-30	218
177	Intracardiac measurement of pre-ejection myocardial velocities estimates the transmural extent of viable myocardium early after reperfusion in acute myocardial infarction. **2001**, 38, 1748-56	24
176	Tissue Doppler imaging: a useful echocardiographic method for the cardiac sonographer to assess systolic and diastolic ventricular function. **2001**, 14, 1143-52	168
175	Comparison of myocardial tissue Doppler with transmitral flow Doppler in left ventricular hypertrophy. **2001**, 14, 1153-60	44
174	MRI assessment of LV relaxation by untwisting rate: a new isovolumic phase measure of tau. **2001**, 281, H2002-9	197
173	Can pulsed wave tissue Doppler be used to evaluate regional diastolic ventricular function?. **2001**, 18, 15-16	
172	Ultrasound Doppler tissue image analysis based on neural network. **2001**, 4555, 87	1
171	Discriminative ability of conventional echocardiography and tissue Doppler imaging techniques for the detection of subclinical cardiotoxic effects of treatment with anthracyclines. **2001**, 27, 1605-14	24
170	Doppler myocardial imaging in the assessment of normal and ischemic myocardial function--past, present and future. **2001**, 17, 89-98	9
169	Comparison of new Doppler echocardiographic methods to differentiate constrictive pericardial heart disease and restrictive cardiomyopathy. **2001**, 87, 86-94	187
168	Doppler tissue echocardiography: myocardial wall motion velocities in essential hypertension. **2001**, 2, 108-17	34
167	Automatic Image Registration for MR and Ultrasound Cardiac Images. **2001**, 148-154	9
166	Assessment of left ventricular long axis contraction can detect early myocardial dysfunction in asymptomatic patients with severe aortic regurgitation. **2001**, 85, 30-6	110

165	Left ventricular diastolic function in the elderly. **2001**, 10, 20-9		27
164	Progression of systolic abnormalities in patients with "isolated" diastolic heart failure and diastolic dysfunction. **2002**, 105, 1195-201		439
163	Alternative Echocardiographic Methods to Assess Left Ventricular Diastolic Function. **2002**, 18, 218-230		2
162	Tissue Doppler analysis of age-dependency in diastolic ventricular behaviour and filling: a cross-sectional study of healthy hearts (the Ume□General Population Heart Study). **2002**, 23, 162-71		88
161	Left ventricular myocardial impairment in subclinical hypothyroidism assessed by a new ultrasound tool: pulsed tissue Doppler. **2002**, 87, 4350-5		75
160	Quantitative assessment of intrinsic regional myocardial deformation by Doppler strain rate echocardiography in humans: validation against three-dimensional tagged magnetic resonance imaging. **2002**, 106, 50-6		430
159	Use of tissue velocity imaging in the diagnosis of fetal cardiac arrhythmias. **2002**, 106, 1827-33		108
158	Tissue Doppler imaging for the assessment of left ventricular systolic and diastolic functions. **2002**, 17, 431-42		56
157	Characterization of peripheral arterial wall motion by Doppler tissue echography: a validation study. **2002**, 15, 1218-25		3
156	Pulsed Doppler tissue imaging in dystrophinopathic cardiomyopathy. **2002**, 15, 891-9		33
155	Usefulness of Doppler tissue imaging analysis of tricuspid annular motion for determination of right ventricular function in normal infants and children. **2002**, 89, 610-3		68
154	Analysis of atrioventricular plane movements by Doppler tissue imaging and M-mode in children with atrial septal defects before and after surgical and device closure. **2002**, 23, 152-9		34
153	Estimation of global left ventricular function from the velocity of longitudinal shortening. *Echocardiography*, **2002**, 19, 177-85	1.5	41
152	Myocardial ischemia assessed by Tc99m MIBI SPECT and left ventricle regional systolic and diastolic function evaluated by tissue Doppler echocardiography. **2003**, 19, 315-21		5
151	Analysis and processing of laser Doppler perfusion monitoring signals recorded from the beating heart. **2003**, 41, 255-62		14
150	Tissue velocity Doppler assessment of atrial and ventricular electromechanical coupling and atrioventricular time intervals in normal subjects. **2003**, 92, 1347-50		46
149	Influence of age on assessment of diastolic function by Doppler tissue imaging. **2003**, 91, 254-7		60
148	Relation of hemoglobin A1c to left ventricular relaxation in patients with type 1 diabetes mellitus and without overt heart disease. **2003**, 91, 1514-7, A9		60

147	Regional cardiac wall motion abnormalities during and shortly after anthracyclines therapy. **2003**, 41, 426-35		29
146	Dynamic myocardial velocity changes between phases of the cardiac cycle. **2003**, 29, 1077-84		1
145	Early diastolic filling dynamics in diastolic dysfunction. **2003**, 1, 9		3
144	Assessment of left and right ventricular systolic and diastolic synchronicity in normal subjects by tissue Doppler echocardiography and the effects of age and heart rate. *Echocardiography*, **2003**, 20, 19-27	1.5	68
143	Interpretation of left ventricular wall motion during stress testing. *Echocardiography*, **2003**, 20, 643-58	1.5	2
142	Diastolic response during dobutamine stress echocardiography evaluated by a tissue velocity imaging technique is a sensitive indicator for diagnosing coronary artery disease. **2003**, 16, 309-17		8
141	Association of newer diastolic function parameters with age in healthy subjects: a population-based study. **2003**, 16, 1049-56		143
140	Tissue Doppler, strain, and strain rate echocardiography for the assessment of left and right systolic ventricular function. **2003**, 89 Suppl 3, iii9-17		99
139	A clinical approach to the assessment of left ventricular diastolic function by Doppler echocardiography: update 2003. **2003**, 89 Suppl 3, iii18-23		77
138	Spectral pulsed tissue Doppler imaging in diastole: a tool to increase our insight in and assessment of diastolic relaxation of the left ventricle. *American Heart Journal*, **2003**, 146, 411-9	4.9	76
137	Peak mean myocardial velocities and velocity gradients measured by color M-mode tissue Doppler imaging in healthy cats. **2003**, 17, 510-24		23
136	Myocardial time intervals preceding left ventricular filling in chronic coronary artery disease: value of a decreased septal ejection time. **2003**, 89, 33-44		7
135	Tissue Doppler echocardiography in patients with long QT syndrome. **2003**, 4, 209-13		24
134	Circumflex artery motion; a new angiographic method for assessment of left ventricular function. **2003**, 37, 80-6		2
133	New Insights into Septal Anterior Wall Motion Velocities at End-Systole in Normal and Hypertrophied Left Ventricles. **2003**, 4, 108-111		3
132	Left ventricular diastolic function assessment by tissue Doppler echocardiography in relation to hormonal replacement therapy in postmenopausal women with diastolic dysfunction. **2003**, 10, 104-11		17
131	Regional myocardial function in healthy adults: assessment through tissue Doppler echocardiography. **2003**, 80, 465-82		2
130	Left ventricular isovolumic velocity and duration variables calculated from colour-coded myocardial velocity images in normal individuals. **2004**, 5, 284-93		39

129	Diastolic heart failure: recognition, diagnosis and management. **2004**, 5, 1745-54		4
128	Improvement of left ventricular function after cardiac resynchronization therapy is predicted by tissue Doppler imaging echocardiography. **2004**, 109, 978-83		335
127	A rapid method to quantify left atrial contractile function: Doppler tissue imaging of the mitral annulus during atrial systole. **2004**, 5, 86-92		63
126	Value of tissue Doppler imaging to predict left ventricular filling pressure in patients with coronary artery disease. *Echocardiography*, **2004**, 21, 133-8	1.5	24
125	Potential application of tissue Doppler imaging to assess regional left ventricular diastolic function in patients with hypertrophic cardiomyopathy: comparison with 123I-beta-methyl iodophenyl pentadecanoic acid myocardial scintigraphy. **2004**, 27, 33-9		3
124	A system for on-line laser Doppler monitoring of ECG-traced myocardial perfusion. **2004**, 2004, 3796-9		2
123	Effects of the reduction of preload on left and right ventricular myocardial velocities analyzed by Doppler tissue echocardiography in healthy subjects. **2004**, 5, 262-71		71
122	Impact of cardiac growth on Doppler tissue imaging velocities: a study in healthy children. **2004**, 17, 212-21		307
121	Tissue doppler imaging predicts recovery of left ventricular function after recanalization of an occluded coronary artery. **2004**, 43, 85-91		25
120	Left and right ventricular adaptation assessed by Doppler tissue echocardiography in athletes. **2004**, 17, 205-11		66
119	Diastolic performance assessed by tissue Doppler after pediatric heart transplantation. **2004**, 23, 865-72		27
118	Clinical in vivo calibration of pulse wave tissue Doppler velocities in the assessment of ventricular wall motion. A comparison study with M-mode echocardiography. **2004**, 97, 289-95		28
117	Left ventricular myocardial velocities in healthy children: quantitative assessment by tissue Doppler echocardiography and relation to the characteristics of filling of the left ventricle. **2004**, 14, 156-63		19
116	Transesophageal echocardiographic evaluation of diastolic function. **2005**, 128, 3652-63		31
115	Regional and global right ventricular function in healthy individuals aged 20-90 years: a pulsed Doppler tissue imaging study: Ume General Population Heart Study. *Echocardiography*, **2005**, 22, 305-14	1.5	95
114	Renewed interest in preejectional isovolumic phase: new applications of tissue Doppler indexes: implications to ventricular dyssynchrony. **2005**, 96, 1022-30		28
113	Biphasic tissue Doppler waveforms during isovolumic phases are associated with asynchronous deformation of subendocardial and subepicardial layers. **2005**, 99, 1104-11		81
112	Doppler tissue imaging in assessment of pulmonary hypertension-induced right ventricle dysfunction. **2005**, 289, H2450-5		42

111	Delayed onset of subendocardial diastolic thinning at rest identifies hypoperfused myocardium. **2005**, 111, 2943-50	31
110	Disturbed right ventricular diastolic function in patients with systemic sclerosis: a Doppler tissue imaging study. **2005**, 128, 755-63	62
109	Pulmonary venous flow reversal and its relationship to atrial mechanical function in normal subjects--Umeå General Population Heart Study. **2005**, 6, 107-16	10
108	The use of isovolumic contraction velocity to determine right ventricular state of contractility and filling pressures A pulsed Doppler tissue imaging study. **2005**, 6, 264-70	19
107	Impact of chronic left ventricular preload and afterload on Doppler tissue imaging velocities: a study in congenital heart disease. **2005**, 18, 830-8	59
106	Detection of prominent left anterior descending coronary artery stenosis for patients with stable angina using Doppler tissue echocardiography. **2005**, 18, 821-9	4
105	Non-invasive evaluation of orthotopic heart transplant rejection by echocardiography. **2005**, 24, 160-5	68
104	Heart rate effects on strain and strain rate in healthy children. **2005**, 18, 1121-30	58
103	Strain rate imaging differentiates transmural from non-transmural myocardial infarction: a validation study using delayed-enhancement magnetic resonance imaging. **2005**, 46, 864-71	106
102	Longitudinal isovolumic displacement of the left ventricular myocardium assessed by tissue velocity echocardiography in healthy individuals. **2006**, 19, 255-65	15
101	Optimization of pulsed wave tissue Doppler to predict left ventricular reverse remodeling after cardiac resynchronization therapy. **2006**, 19, 185-91	36
100	Differentiation of subendocardial and transmural infarction using two-dimensional strain rate imaging to assess short-axis and long-axis myocardial function. **2006**, 48, 2026-33	213
99	Tissue velocity echocardiography shows early improvement in diastolic function with irbesartan and atenolol therapy in patients with hypertensive left ventricular hypertrophy. Results form the Swedish Irbesartan Left Ventricular Hypertrophy Investigation vs Atenolol (SILVHIA). **2006**, 19, 927-36	35
98	Echocardiography. **2006**,	
97	Quantitative analysis of semi-supine exercise echocardiography--influence of age on myocardial Doppler imaging indices. **2006**, 61, 271-7	1
96	Cardiac abnormalities as a new manifestation of nonalcoholic fatty liver disease: echocardiographic and tissue Doppler imaging assessment. **2006**, 40, 949-55	128
95	Right ventricular myocardial isovolumic relaxation time and pulmonary pressure. **2006**, 26, 1-8	21
94	Tissue Doppler imaging analysis at pre-cardioversion time predicts recurrent atrial fibrillation: a 12-month follow-up study. **2006**, 17, 1005-10	6

93	Usefulness of pulsed-wave tissue Doppler echocardiography for the assessment of the left and right ventricular function in patients with clinical hypothyroidism. *Echocardiography*, **2006**, 23, 471-7	1.5	19
92	Pulse tissue Doppler analysis of tricuspid annular motion in Iranian children. **2006**, 22, 363-7		5
91	Use of tissue Doppler imaging to guide tube current modulation in cardiac multidetector computed tomographic angiography. **2006**, 98, 603-7		6
90	Detailed analysis of myocardial motion in volunteers and patients using high-temporal-resolution MR tissue phase mapping. **2006**, 24, 1033-9		85
89	Pulsed tissue Doppler and strain imaging discloses early signs of infiltrative cardiac disease: a study on patients with familial amyloidotic polyneuropathy. **2006**, 7, 22-30		54
88	Thr164Ile polymorphism of beta2-adrenergic receptor negatively modulates cardiac contractility: implications for prognosis in patients with idiopathic dilated cardiomyopathy. **2007**, 93, 856-61		24
87	Potential use of isovolumic contraction velocity in assessment of left ventricular contractility in man: A simultaneous pulsed Doppler tissue imaging and cardiac catheterization study. **2007**, 8, 252-8		12
86	Reproducibility of tissue Doppler parameters of asynchrony in patients with advanced LV dysfunction. **2008**, 9, 509-15		7
85	Clinical validity of longitudinal pre-ejectional myocardial velocity for identifying the transmural extent of viable myocardium: early after reperfusion of an infarct-related coronary artery. **2007**, 71, 1904-11		
84	Doppler Tissue Imaging positive preejection velocity wave is a sign of non-transmural necrosis: comparison with delayed-enhancement cardiac magnetic resonance. **2007**, 8, 137-43		5
83	Echocardiographic evaluation of cardiac dyssynchrony. **2007**, 23, 303-10		10
82	Left ventricular diastolic function. **2007**, 35, S340-7		45
81	Positive isovolumic relaxation velocity detected by a spectral tissue Doppler mapping technique as an indicator of coronary artery disease: a prospective study. **2007**, 20, 158-64		7
80	Effect of obstruction on longitudinal left ventricular shortening in hypertrophic cardiomyopathy. **2007**, 49, 1203-11		22
79	. **2007**,		13
78	Qualitative observation of left ventricular multiphasic septal motion and septal-to-lateral apical shuffle predicts left ventricular reverse remodeling after cardiac resynchronization therapy. **2007**, 99, 966-9		32
77	Effects of levothyroxine therapy on left and right ventricular function in neonates with congenital hypothyroidism: a tissue Doppler echocardiography study. **2007**, 166, 1261-5		9
76	Long-term thyroid hormone administration reshapes left ventricular chamber and improves cardiac function after myocardial infarction in rats. **2008**, 103, 308-18		91

75	Cross-correlation delay to quantify myocardial dyssynchrony from phase contrast magnetic resonance (PCMR) velocity data. **2008**, 28, 1086-91	13
74	Cardiac involvement in systemic sclerosis assessed by tissue-doppler echocardiography during routine care: A controlled study of 100 consecutive patients. **2008**, 58, 1803-9	147
73	Assessment of atrial electromechanical coupling and influential factors in nonrheumatic paroxysmal atrial fibrillation. **2008**, 31, 74-8	96
72	Impact of obstructive sleep apnea on left ventricular diastolic function. **2008**, 101, 1663-8	57
71	Evaluaci□ de la funci□ ventricular por ecocardiograf□ Doppler en ni□s con comunicaci□ interauricular. **2008**, 61, 595-601	2
70	Echocardiographic Doppler Evaluation of Ventricular Function in Children With an Atrial Septal Defect. **2008**, 61, 595-601	
69	Introduction of Tissue Doppler Imaging Echocardiography□Based on Pulsed-wave Mode. **2008**, 16, 202-209	1
68	Congenital Heart Disease. **2008**, 313-331	2
67	Myocardial Imaging in Valvular Heart Disease. **2008**, 223-232	
66	The diastatic pressure-volume relationship is not the same as the end-diastolic pressure-volume relationship. **2008**, 294, H2750-60	25
65	The use of E/Em and the time interval difference of isovolumic relaxation (TIVRT-IVRTm) in estimating left ventricular filling pressures. **2008**, 10, 490-7	10
64	Mechanisms of preejection and postejection velocity spikes in left ventricular myocardium: interaction between wall deformation and valve events. **2008**, 118, 373-80	45
63	Age dependency in the timing of mitral annular motion in relation to ventricular filling in healthy subjects: Umea General Population Heart Study. **2008**, 9, 522-9	6
62	Right ventricular function in ischemic or idiopathic dilated cardiomyopathy. **2008**, 72, 238-44	17
61	Evaluation of Diastolic Function by Two-Dimensional and Doppler Assessment of Left Ventricular Filling Including Pulmonary Venous Flow. **2008**, 115-143	2
60	Interatrial dyssynchrony on tissue Doppler imaging predicts progression to chronic atrial fibrillation in patients with non-valvular paroxysmal atrial fibrillation. **2009**, 95, 988-93	24
59	Comparison between colour-coded and spectral tissue Doppler measurements of systolic and diastolic myocardial velocities: effect of temporal filtering and offline gain setting. **2009**, 10, 406-13	15
58	N-terminal pro-brain natriuretic peptide in systemic sclerosis: a new cornerstone of cardiovascular assessment?. **2009**, 68, 1885-9	33

57	Echocardiographic evaluation of right heart function and pulmonary vascular bed. **2009**, 25, 689-97		14
56	Noninvasive evaluation of left ventricular noncompaction: whatR new in 2009?. **2009**, 30, 682-9		24
55	State diagrams of the heart--a new approach to describing cardiac mechanics. **2009**, 7, 22		6
54	Are measurements of systolic myocardial velocities and displacement with colour and spectral Tissue Doppler compatible?. **2009**, 7, 29		6
53	Tissue doppler imaging can be useful to distinguish pathological from physiological left ventricular hypertrophy: a study in master athletes and mild hypertensive subjects. **2009**, 7, 48		11
52	Short-term overt hypothyroidism induces discrete diastolic dysfunction in patients treated for differentiated thyroid carcinoma. **2009**, 39, 204-10		15
51	Right ventricular myocardial velocities and timing estimate pulmonary artery systolic pressure. **2009**, 137, 130-6		8
50	Transmural myocardial mechanics during isovolumic contraction. **2009**, 2, 202-11		45
49	Tissue Doppler echocardiography in children with acquired or congenital heart disease. **2009**, 19, S98-S105		2
48	Role of echocardiography in the diagnosis of constrictive pericarditis. **2009**, 22, 24-33; quiz 103-4		62
47	Feasibility of prediction of myocardial viability with Doppler tissue imaging following percutaneous coronary intervention for ST elevation anterior myocardial infarction. **2009**, 22, 183-9		18
46	Diastolic Ventricular Function Assessment. 95-116		2
45	Intraoperative Doppler tissue imaging is a valuable addition to cardiac anesthesiologistsR armamentarium: a core review. **2009**, 108, 48-66		33
44	Demonstration of regional differences in equine ventricular myocardial velocity in normal 2-year-old Thoroughbreds with Doppler tissue imaging. **2005**, 37, 222-6		16
43	Relation of gender and interatrial dyssynchrony on tissue Doppler imaging to the prediction of the progression to chronic atrial fibrillation in patients with nonvalvular paroxysmal atrial fibrillation. **2010**, 25, 410-6		7
42	Evaluation of short-axis and long-axis myocardial function with two-dimensional strain echocardiography in patients with different degrees of coronary artery stenosis. **2010**, 36, 227-33		13
41	Reference values of tissue Doppler imaging and pulsed Doppler echocardiography for analysis of left ventricular diastolic function in healthy adults. *Echocardiography*, **2010**, 27, 777-82	1.5	6
40	Left ventricular systolic and diastolic function. 145-162		

39	Thyroid hormone receptor alpha1 downregulation in postischemic heart failure progression: the potential role of tissue hypothyroidism. **2010**, 42, 718-24		55
38	Recommendations for quantification methods during the performance of a pediatric echocardiogram: a report from the Pediatric Measurements Writing Group of the American Society of Echocardiography Pediatric and Congenital Heart Disease Council. **2010**, 23, 465-95; quiz 576-7		924
37	Does normal ageing alter right ventricular relaxation properties? A tissue Doppler study. *Heart Lung and Circulation*, **2010**, 19, 406-12	1.8	7
36	Ventricular dysfunction in type 1 myotonic dystrophy: electrical, mechanical, or both?. **2010**, 143, 378-84		23
35	Echocardiography. **2010**, 105-126		12
34	Chasing the reflected wave back into the heart: a new hypothesis while the jury is still out. **2011**, 7, 365-73		6
33	Assessment of agreement between transthoracic and transesophageal echocardiography techniques for left ventricular longitudinal deformation imaging and conventional Doppler parameters estimation: a cross-sectional study. **2012**, 12, 472-9		3
32	Effects of myocardial fibrosis assessed by MRI on dynamic left ventricular outflow tract obstruction in patients with hypertrophic cardiomyopathy: a retrospective database analysis. **2012**, 2,		12
31	Comparison of transthoracic and transesophageal 2-dimensional speckle tracking echocardiography. **2012**, 26, 26-31		18
30	Regional LV deformation in healthy individuals during isovolumetric contraction and ejection phases assessed by 2D speckle tracking echocardiography. **2012**, 32, 372-9		4
29	Regional atrial myocardial velocity in normal fetuses: evaluation by quantitative tissue velocity imaging. *Echocardiography*, **2012**, 29, 182-6	1.5	3
28	Reference values of tricuspid annular peak systolic velocity in healthy pediatric patients, calculation of z score, and comparison to tricuspid annular plane systolic excursion. **2012**, 109, 116-21		68
27	The significance of E/E? to detect coronary artery disease during dobutamine stress echocardiography. *Egyptian Heart Journal*, **2012**, 64, 21-26	1.3	
26	The cardiac state diagram as a novel approach for the evaluation of pre- and post-ejection phases of the cardiac cycle in asphyxiated fetal lambs. **2013**, 39, 1682-7		4
25	Comparative tissue Doppler and catheterization study for assessing left ventricular diastolic dysfunction. **2013**, 3, 93-98		
24	Left Ventricular Diastolic Function Assessment Using the Timing of Mitral Annular and Transmitral Flow Velocities. **2013**, 22, 114-119		0
23	The tissue Doppler imaging derived post-systolic velocity notch originates at the aortic annulus. **2014**, 22, 23-7		1
22	Reference values of the mitral annular peak systolic velocity (Sm) in 690 healthy pediatric patients, calculation of Z-score values, and comparison to the mitral annular Plane systolic excursion (MAPSE). *Echocardiography*, **2014**, 31, 1122-30	1.5	12

21	Echo speckle imaging of blood particles with high-frame-rate echocardiography. **2014**, 53, 07KF08		30
20	Ultra-high frame rate tissue Doppler imaging. **2014**, 40, 222-31		37
19	Echocardiographic Evaluation of Coronary Artery Disease. **2015**, 217-252		1
18	Non-invasive measuring of the acceleration of contraction of the left ventricle with the Doppler echocardiography. *Wiener Klinische Wochenschrift*, **2015**, 127 Suppl 5, S288-94	2.3	
17	Left ventricular diastolic function assessment using time differences between mitral annular velocities and transmitral inflow velocities in patients with heart failure. *Heart Lung and Circulation*, **2015**, 24, 257-63	1.8	1
16	Assessment of interatrial dyssynchrony by Tissue Doppler Imaging in mitral stenosis: Effect of afterload reduction after balloon mitral valvuloplasty. *Egyptian Heart Journal*, **2016**, 68, 75-81	1.3	
15	Mitral valve coaptation and its relationship to late diastolic flow: A color Doppler and vector flow map echocardiographic study in normal subjects. *Echocardiography*, **2017**, 34, 537-548	1.5	8
14	Sensing principle for real-time characterization of viscoelasticity in the beating myocardial tissue. **2017**,		12
13	Ultrasound Sensors for Diaphragm Motion Tracking: An Application in Non-Invasive Respiratory Monitoring. *Sensors*, **2018**, 18,	3.8	9
12	Evaluation of age-dependent changes of myocardial velocity using pulsed wave and colour tissue Doppler imaging in adult warmblood horses. *Journal of Animal Physiology and Animal Nutrition*, **2018**, 102, 1731-1742	2.6	4
11	Diastolic Function in Children and in Children With Congenital Heart Disease. **2021**, 349-374		
10	Two-Dimensional and Doppler Evaluation of Left Ventricular Filling, Including Pulmonary Venous Flow Velocity. **2021**, 106-136		0
9	Assessment of Diastolic Function by Echocardiography. **2007**, 237-261		1
8	Changes in left ventricular performance in patients with severe head injury during and after mild hypothermia. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **1999**, 47, 666-72	9.4	14
7	The Role of Tissue Doppler Imaging as a New Diagnostic Option in Evaluating Left Ventricular Function. *Journal of Echocardiography*, **2003**, 1, 29-42	1.6	9
6	Echocardiographic Evaluation of Coronary Artery Disease. **2007**, 811-839		
5	Evaluation of short-term cardiac function by tissue Doppler imaging in pre and postoperative period of congenital heart disease. *Korean Journal of Pediatrics*, **2007**, 50, 476	2.4	
4	Ultrasound in Congenital Heart Disease. *Medical Radiology*, **2008**, 227-247	0.2	

3	Does the Post-Systolic Shortening of the Left Ventricle by Tissue Doppler Imaging Predict Coronary Artery Disease?. *Archives of Cardiovascular Imaging*, **2016**, 4,		
2	Left ventricular systolic function assessment with two-dimensional strain imaging among patients with rheumatic mitral stenosis. *Heart India*, **2020**, 8, 93	0.2	
1	Update on new technologies in pediatric echocardiography. *Texas Heart Institute Journal*, **1997**, 24, 278-86	68	1