Subject Index: Volume 43

Ablation

See also Surgery
Ablation for atrial fibrillation: are cures really achieved, 1940
Catheter ablation of atrial fibrillation: what is the best technique for achieving a high cure rate with acceptable risk, 2054
Characteristics of virtual unipolar electrograms for detecting isthmus block during radiofrequency ablation of typical atrial flutter, 2300
Combining ablation of atrial fibrillation with atrial flutter: are we there yet, 2063
Endocardial and epicardial radiofrequency ablation of ventricular tachycardia associated with dilated cardiomyopathy, 1834
Functional characterization of the crista terminals in patients with atrial flutter: implications for radiofrequency ablation, 1639
Left atrial thrombus associated with ablation for atrial fibrillation: identification with intracardiac echocardiography, 1861
Mode of initiation and ablation of ventricular fibrillation storms in patients with ischemic cardiomyopathy, 1715
New approach for catheter ablation of atrial fibrillation: mapping of the electrophysiological substrate, 2044
Radiofrequency catheter ablation of type 1 atrial flutter using large-tip 8- or 10-mm electrode catheters and a high-output radiofrequency energy generator, 1466

ACC News
Convocation address: put your heart into ACC fellowship: a vision for growth and achievement, 1328
Newly elected members of the college, 922
President’s page: continuing investment in “state-of-the-art” physician education—an ACCF program of high net worth, 313
President’s page: fellow physicians: read, respond, repeat, 891
President’s page: members’ benevolence stretches the ACC mission well beyond U.S. borders, 711
President’s Page: Strategic framework: how does the ACC meet its members’ needs? Demonstrating how college processes generate organizational plans and decisions, 2361
President’s page: strengthening our house of cardiology, 1721

Actin polymerization
Release of soluble CD40 ligand from platelets is regulated by GP Ib/IIa and actin polymerization, 2319

Acut coronary syndromes
Administration of eptifibatide to acute coronary syndrome patients receiving enoxaparin or unfractionated heparin, 966
Aspirin dose and six-month outcome after an acute coronary syndrome, 972
Clopidoogrel inhibits platelet-leukocyte interactions and TRAP-induced platelet activation in patients with an acute coronary syndrome, 1982
Dose finding study of fondaparinux in patients with non-ST-segment elevation acute coronary syndromes: the PENTUA study, 2183
Implication of different cardiac troponin I levels for clinical outcomes and prognosis of acute chest pain patients, 958
Importance of increasing age on the presentation and outcome of acute coronary syndromes in elderly patients, 346
Severe ostial saphenous vein graft disease leading to acute coronary syndromes following proximal aorto-saphenous anastomoses with the Symmetry Bypass Connector device, 133
Year in interventional cardiology, 875

Acute myocardial infarction
See also Myocardial infarction
Ablamantiades-Beher’s disease
Aortic elastic properties and left ventricular diastolic function in patients with Ablamantiades-Beher’s disease, 1075
Adiponectin 1164T
Adiponectin 1164T mutation is associated with the metabolic syndrome and coronary artery disease, 1195
Adiposity
Exercise training normalizes vascular dysfunction and improves central adiposity in obese adolescents, 1823
Adolescents
Exercise training normalizes vascular dysfunction and improves central adiposity in obese adolescents, 1823
Long-term outcome (up to 15 years) of balloon angioplasty of discrete native coarctation of the aorta in adolescents and adults, 1062
Adrenergic stimulation
Roles of adrenergic and cholinergic stimulation in spontaneous atrial fibrillation in dogs, 483
African Americans
See also Race
Cardiovascular risk reduction in hypertensive black patients with left ventricular hypertrophy, 1049
Heart rate-corrected QT interval prolongation predicts risk of coronary heart disease in black and white middle-aged men and women, 565
High lipoprotein(a) levels and small apolipoprotein(a) sizes are associated with endothelial dysfunction in a multicentric cohort, 1828
Racial variation in the prevalence of atrial fibrillation among patients with heart failure, 429
What we’re talking about when we talk about race (editorial), 436
Age
See also Elderly
Influence of age, gender, and race on the prevalence of depression in heart failure patients, 1542
Akinisia
Akiniesia becoming dyskinesia after exercise testing: prevalence and relationship to clinical outcome, 599
Alcohol
Alcohol consumption and prognosis in patients with left ventricular systolic dysfunction after a myocardial infarction, 2015
Aldosterone
Acute aldosterone antagonism improves cardiac vagal control in humans, 1270
Aldosterone synthase gene
Association between aldosterone synthase (CYP11B2) polymorphism and left ventricular mass in human essential hypertension, 265
Alophragt vasculopathy
Impact of mode of donor brain death on cardiac allograft vasculopathy, 806
Palliation of allograft vasculopathy with transluminal angioplasty: a decade of experience, 1973
Allografts
Outcomes in cardiac transplant recipients using allografts from older donors versus mortality on the transplant waiting list, 1553
Anamolipine
Comparative effects of valsartan versus anmolipine on left ventricular mass and reactive oxygen species formation by monocytes in hypertensive patients with left ventricular hypertrophy, 2116
Amplater septal occluder
Device closure of muscular ventricular septal defects using the Amplater muscular ventricular septal defect occluder, 1257
Reversible atrioventricular block associated with closure of atrial septal defects using the Amplater device, 1677

Amyloidosis
Noninvasive diagnosis of biopsy-proven cardiac amyloidosis, 410
Anastomoses
Severe ostial saphenous vein graft disease leading to acute coronary syndromes following proximal aorto-saphenous anastomoses with the Symmetry Bypass Connector device, 133

Angina pectoris
Angina pectoris prior to myocardial infarction protects against subsequent left ventricular remodeling, 1511
Anti-ischemic effects and long-term survival during ranolazine monotherapy in patients with chronic severe angina, 1375
Impaired intravascular triglyceride lipolysis constitutes a marker of clinical outcome in patients with stable angina under secondary prevention treatment: a long-term follow-up, 2225
Multislice spiral CT coronary angiography in patients with stable angina pectoris, 2265

Angiogenesis
Novel application of myocardial contrast echocardiography to evaluate angiogenesis by autologous bone marrow cell transplantation in chronic ischemic pig model, 1299
Powerful and controllable angiogenesis by using gene-modified cells expressing human hepatocyte growth factor and thymidine kinase, 1915

Angiogenic cells
Exercise acutely increases circulating endothelial progenitor cells and monocyte/macrophage derived angiogenic cells, 2314

Angiography
See also Coronary angiography; Magnetic resonance angiography, 831
Diagnostic accuracy of multidetector computed tomography coronary angiography in patients with angiographically proven coronary artery disease, 831
Do we have a gold standard yet? (editorial), 662
Magnetic resonance angiography is equivalent to x-ray coronary angiography for the evaluation of coronary arteries in Kawasaki disease, 649
Angiotensin II receptors

See also Balloon angioplasty; Percutaneous transluminal coronary angioplasty; Primary angioplasty

Impact of delays to cardiac surgery after failed angioplasty and stenting, 337

Importance of mitral regurgitation in patients undergoing percutaneous coronary intervention for acute myocardial infarction, 1368

Preprocedural TIMI flow and mortality in patients with acute myocardial infarction treated by primary angioplasty, 1363

Primary angioplasty in acute myocardial infarction treated by primary angioplasty, 1943

Surgery, angioplasty, or medical therapy for symptomatic multivessel coronary artery disease (editorial), 1752

Angiopoietin-1

Plasma angiopoietin-1, angiopoietin-2, and angiopoietin receptor tie-2 levels in congestive heart failure, 423

Angiopoietin-2

Plasma angiopoietin-1, angiopoietin-2, and angiopoietin receptor tie-2 levels in congestive heart failure, 423

Angiopoietin receptor tie-2

Plasma angiopoietin-1, angiopoietin-2, and angiopoietin receptor tie-2 levels in congestive heart failure, 423

Angiotensin II

Cerebroprotection mediated by angiotensin II, 1343

Osteopontin modulates angiotensin II-induced fibrosis in the intact murine heart, 1698

Angiotensin II receptors

Angiotensin II receptors from peritransplantation through first-year post-transplantation and the risk of transplant coronary artery disease, 1565

Expression of angiotensin II receptors in human left and right atrial tissue in atrial fibrillation with and without underlying mitral valve disease (letter), 2363

Role of angiotensin II type 2 receptors and kinins in the cardioprotective effect of angiotensin II type 1 receptor antagonists in rats with heart failure, 1670

Angiotensin receptor blocker

Angiotensin receptor blockade improves myocardial beta-adrenergic receptor signaling in postinfarction left ventricular remodeling, 125

Angiotensin-converting enzyme inhibitors

Angiotensin-converting enzyme inhibitors, beta-blockers, and mortality in systolic heart failure (letter), 1333

Mechanism(s) of selective systolic blood pressure reduction after low-dose combination of perindopril/indapamide in hypertensive subjects: comparison with atenolol, 92

Outcome utilization of angiotensin converting enzyme inhibitors among heart failure patients after hospital discharge, 2036

Animal models

See also Porcine models; Murine models

Autoimmunity against the second extracellular loop of the beta_1-adrenergic receptors induces early afterdepolarization and decreases in K-channel density in rabbits, 1090

Long-term subthreshold electrical stimulation of the left stellate ganglion and a canine model of sudden cardiac death, 858

Roles of adrenergic and cholinergic stimulation in spontaneous atrial fibrillation in dogs, 483

Anterior fat pad

Preservation of the anterior fat pad paradoxically decreases the incidence of postoperative atrial fibrillation in humans, 994

Antiarrhythmic drugs

Azimilide decreases recurrent ventricular tachyarrhythmias in patients with implantable cardioverter defibrillators, 39

Filling the need for new antiarrhythmic drugs to prevent shocks from implantable cardioverter defibrillators (editorial), 44

Anticoagulation

See also Aspirin; Heparin

Comparing the guidelines: anticoagulation therapy to optimize stroke prevention in patients with atrial fibrillation, 929

Antioxidants

Long-term effect of combined vitamins E and C on coronary and peripheral endothelial function, 629

Aortic dissection

Characterizing the young patient with aortic dissection: from the International Registry of Aortic Dissection (IRAD), 665

Aortic elastance

Aortic elastic properties and left ventricular diastolic function in patients with Adamantiales-Bechter’s disease, 1075

Aortic regurgitation

Year in valvular heart disease, 491

Aortic sclerosis

Adverse outcomes in aortic sclerosis is associated with coronary artery disease and inflammation, 169

Why is aortic sclerosis associated with adverse clinical outcomes? (editorial), 176

Aortic stenosis

Early experience with percutaneous transcatheter implantation of heart valve prosthesis for the treatment of end-stage inoperable patients with calcific aortic stenosis, 698

Magnetic resonance to assess the aortic valve area in aortic stenosis (letter), 2148

Neangiogenesis, T-lymphocyte infiltration, and heat shock protein-60 are biological hallmarks of an immunomodulated inflammatory process in end-stage calcified aortic valve stenosis, 1670

Aortic valve area

Magnetic resonance to assess the aortic valve area in aortic stenosis (letter), 2148

Aorto-saphenous anastomoses

Severe ostial saphenous vein graft disease leading to acute coronary syndromes following proximal aorto-saphenous anastomoses with the Symmetry Bypass Connector device, 133

Apolipoprotein(a)

High lipoprotein(a) levels and small apolipoprotein(a) sizes are associated with endothelial dysfunction in a multiethnic cohort, 1828

Apoposis

Human hibernating myocardium is jeopardized by apoptotic and autophagic cell death, 2191

Long-term caspase inhibition ameliorates apoptosis, reduces myocardial troponin-I cleavage, protects left ventricular function, and attenuates remodeling in rats with myocardial infarction, 295

Arrhythmias

See also Atrial fibrillation; Atrial flutter; Ventricular fibrillation; Ventricular tachycardia

Effects of biphasic waveform design on post-resuscitation cardiac function, 1228

Gender differences in ventricular arrhythmias in patients with coronary artery disease and implantable cardioverter-defibrillators, 2293

Prognostic significance of exercise-induced atrial arrhythmias, 1236

The year in congenital heart disease, 2132

Arrhythmogenic right ventricular dysplasia/cardiomypathy

Histologic findings in patients with clinical and instrumental diagnosis of sporadic arrhythmogenic right ventricular dysplasia, 2305

Implantable cardioverter-defibrillators in patients with arrhythmogenic right ventricular dysplasia/cardiomypathy, 1843

Arterial duct

Stenting the neonatal arterial duct in duct-dependent pulmonary circulation: new techniques, better results, 107

Arterial hypertrophy

Prevalence of specific variant carotid geometric patterns and incidence of cardiovascular events in older persons, 187

Arteriography

Association of a pulsatile blood flow pattern on coronary arteriography and short-term clinical outcomes in acute myocardial infarction, 1170

Aspirin

Aspirin dose and six-month outcome after an acute coronary syndrome, 972

Aspirin resistance: more than just a laboratory curiosity (editorial), 1127

Aspirin resistance is associated with a high incidence of myonecrosis after non-urgent percutaneous coronary intervention despite clopidogrel pretreatment, 1122

Case for an inverse interaction between aspirin and non-steroidal anti-inflammatory drugs (editorial), 991

Effects of nonselective non-aspirin non-steroidal anti-inflammatory medications on the risk of nonfatal myocardial infarction and their interaction with aspirin, 985

Eptiibatide provides additional platelet inhibition in non-ST-elevation myocardial infarction patients already treated with aspirin and clopidogrel, 162

Inhibition of platelet aggregation by aspirin progressively decreases in long-term treated patients, 979

Optimal suppression of thromboxane A_2 formation by aspirin during percutaneous transluminal coronary angioplasty: no additional effect of a selective cyclooxygenase-2 inhibitor, 526

Randomized trial of aspirin on the risk of embolic events in patients with infective endocarditis (letter), 1134

Therapeutic failure or resistance to aspirin (letter), 1332

Atenolol

Mechanism(s) of selective systolic blood pressure reduction after low-dose combination of perindopril/indapamide in hypertensive subjects: comparison with atenolol, 92

Atherectomy

Meta-analysis of randomized trials of percutaneous transluminal coronary angioplasty versus atherectomy, cutting balloon atherotomy, or laser angioplasty, 936

Atheroma

Intravascular ultrasound molecular imaging of atheroma components in vivo, 453

Atherosclerosis

See also Coronary artery disease
Accuracy of multidetector spiral computed tomography in identifying and differentiating the composition of coronary atherosclerotic plaques, 1241
Assessment of coronary remodeling in stenotic and nonstenotic coronary atherosclerotic lesions by multidetector spiral computed tomography, 842
Decreased circulating Fas ligand in patients with familial combined hyperlipidemia or carotid atherosclerosis, 1188
Echoluent carotid plaques predict future coronary events in patients with coronary artery disease, 1177
Plaque characterization: surrogate markers or the Achilles’ heel? (editorial), 1185
Selective perivascular proliferator-activated receptor-gamma agonist has an additive effect on plaque regression in combination with simvastatin in experimental atherosclerosis, 464
Visualizing coronary atherosclerosis in vivo: thinking big, imaging small (editorial), 461
Atrial
See also Left atrium; Right atrium
Cardiac atria are chambers of active remodeling and dynamic collagen turnover during evolving heart failure, 68
Atrial ectopic tachycardia
Clinical course of atrial ectopic tachycardia is age-dependent: results and treatment in children 3 or 3 years of age, 438
Atrial ectopy
Prognostic significance of exercise-induced atrial arrhythmias, 1236
Atrial fibrillation
Ablation for atrial fibrillation: are cures really achievable, 1940
Acute comparative effect of right and left ventricular pacing in patients with permanent atrial fibrillation, 234
Atrial Fibrillation Follow-up Investigation of Rhythm Management (AFFIRM) study, 1201
Catheter ablation of atrial fibrillation: what is the best technique for achieving a high cure rate with acceptable risk?, 2054
Clinical significance of inducible atrial flutter during pulmonary vein isolation in patients with atrial fibrillation, 2057
Combining ablation of atrial fibrillation with atrial flutter: are we there yet?, 2063
Comparing the guidelines: anticoagulation therapy to optimize stroke prevention in patients with atrial fibrillation, 929
Economic analysis of a transesophageal echocardiography-guided approach to cardioversion of patients with atrial fibrillation, 1217
Economic implications of transesophageal echocardiography-guided cardioversion of atrial fibrillation (editorial), 1225
Effect of rate or rhythm control on quality of life in persistent atrial fibrillation, 241
Efficacy of azimilide in the treatment of atrial fibrillation in the presence of left ventricular systolic dysfunction, 1211
Expression of angiotensin II receptors in human left and right atrial tissue in atrial fibrillation with and without underlying mitral valve disease (letter), 2363
Impact of asymptomatic atrial fibrillation (editorial), 53
Left atrial thrombus associated with ablation for atrial fibrillation: identification with intracardiac echocardiography, 1861
Left ventricular mechanics during right ventricular apical or left ventricular-based pacing in patients with chronic atrial fibrillation after atrioventricular junction ablation, 1013
Long-term risk of recurrent atrial fibrillation as documented by an implantable monitoring device, 47
Matrix metalloproteinase-9 contributes to human atrial remodeling during atrial fibrillation, 818
Matrix metalloproteinases in atrial fibrillation (letter), 152
New approach for catheter ablation of atrial fibrillation: mapping of the electrophysiological substrate, 2044
Postoperative atrial fibrillation: a billion-dollar problem (editorial), 1001
Postoperative atrial fibrillation and mortality: do the risks merit changes in clinical practice? (editorial), 749
Postoperative atrial fibrillation and mortality after coronary artery bypass surgery, 742
Preservation of the anterior fat pad paradoxically decreases the incidence of postoperative atrial fibrillation in humans, 994
Pulmonary vein isolation for atrial fibrillation in low ejection fraction patients: the market is growing (editorial), 1010
Pulmonary vein isolation for the treatment of atrial fibrillation in patients with impaired systolic function, 1004
Pulmonary veins in the substrate for atrial fibrillation: the ‘venous wave’ hypothesis (editorial), 2290
Racial variation in the prevalence of atrial fibrillation among patients with heart failure, 429
Relationship of interleukin-6 and C-reactive protein with atrial fibrillation: are cures really achievable (editorial), 1209
Atrial flutter
Characteristics of virtual unipolar electrograms for detecting isthmus block during radiofrequency ablation of typical atrial flutter, 2300
Clinical significance of inducible atrial flutter during pulmonary vein isolation in patients with atrial fibrillation, 2057
Combining ablation of atrial fibrillation with atrial flutter: are we there yet?, 2063
Combining ablation of atrial fibrillation with atrial flutter: are we there yet?, 2063
Functional characterization of the crista terminals in patients with atrial flutter: implications for radiofrequency ablation, 1639
Radiofrequency catheter ablation of type 1 atrial flutter using large-tip 8- or 10-mm electrode catheters and a high-output radiofrequency energy generator, 1466
Atrial remodeling
Matrix metalloproteinase-9 contributes to human atrial remodeling during atrial fibrillation, 818
Atrial septal defect
Incidence and clinical course of thrombus formation on atrial septal defect and patent foramen ovale closure devices in 1,000 consecutive patients, 302
Transcatheter closure of atrial septal defects (editorial), 310
Atrial septal defects
Determinants of cardiac pulmonary functional improvement after transcatheter atrial septal defect closure in asymptomatic adults, 1886
Lessons from cardiopulmonary testing after device closure of secundum atrial septal defects (editorial), 1892
Reversible atrioventricular block associated with closure of atrial septal defects using the Amplatzer device, 1677
Atrioventricular block
Long QT syndrome in neonates, 926
Reversible atrioventricular block associated with closure of atrial septal defects using the Amplatzer device, 1677
Atrioventricular junction ablation
Left ventricular mechanics during right ventricular apical or left ventricular-based pacing in patients with chronic atrial fibrillation after atrioventricular junction ablation, 1013
Autoimmunity
Autoimmunity against the second extracellular loop of the beta-adrenergic receptors induces early afterdepolarization and decreases in K-channel density in rabbits, 1090
Autophagic cell death
Human hibernating myocardium is jeopardized by apoptotic and autophagic cell death, 2191
Azimilide
Azimilide decreases recurrent ventricular tachyarrhythmias in patients with implantable cardioverter defibrillators, 39
Efficacy of azimilide in the treatment of atrial fibrillation, 1177
Atrioventricular junction ablation
Left ventricular mechanics during right ventricular apical or left ventricular-based pacing in patients with chronic atrial fibrillation after atrioventricular junction ablation, 1013
Balloon angioplasty
Combined stenting versus balloon angioplasty in small vessels, 1964
Heme oxygenase-1 genotype and restenosis after balloon angioplasty: a novel protective factor, 950
Long-term outcome (up to 15 years) of balloon angioplasty of discrete native coarctation of the aorta in adolescents and adults, 1062
Randomized trial comparing myocardial salvage achieved by coronary stenting versus balloon angioplasty in patients with acute myocardial infarction considered ineligible for reperfusion therapy, 734
Baroreflex sensitivity
Acute aldosterone antagonism improves cardiac vagal control in humans, 1270
Bayesian approaches
Prior convictions: Bayesian approaches to the analysis and interpretation of clinical magementals, 1929
Beta-adrenergic receptor
Angiotensin receptor blockade improves myocardial beta-adrenergic receptor signaling in postinfarct left ventricular remodeling, 125
Beta-adrenergic receptors
Autoimmunity against the second extracellular loop of the beta-adrenergic receptors induces early afterdepolarization and decreases in K-channel density in rabbits, 1090
Beta-blockers
See also specific drug
Angiotensin-converting enzyme inhibitors, beta-blockers, and mortality in systolic heart failure (letter), 1333
Beta-blocker therapy and primary angioplasty (editorial), 1788
Does beta-blocker therapy improve clinical outcomes of acute myocardial infarction after successful primary angioplasty?, 1773
Exercise release of cardia natriuretic peptides is
markedly enhanced when patients with coronary artery disease are treated medically by beta-blockers, 353
Impact of intravenous beta-blockade before primary angioplasty on survival in patients undergoing mechanical reperfusion therapy for acute myocardial infarction, 1780
Influence of pretreatment systolic blood pressure on the effect of carvedilol in patients with severe chronic heart failure, 1423
Myocardial positron emission computed tomographic images obtained with fluorine-18 fluoro-2-deoxyglucose predict the response to idiopathic dilated cardiomyopathy patients to beta-blockers, 224
Natriuretic peptides as predictors of non-sudden and sudden cardiac death after acute myocardial infarction in the beta-blocking era, 757
Predischarge initiation of carvedilol in patients hospitalized for decompensated heart failure, 1534
Sustained ventricular tachycardia or fibrillation in the cardiac catheterization laboratory among patients receiving primary percutaneous coronary intervention, 1765
17-Beta-estradiol-cluting stent First human experience with the 17-beta-estradiol-cluting stent, 1118
Biopsy Noninvasive diagnosis of biopsy-proven cardiac amyloidosis, 410
Biopyrins Urinary biopyrins levels are elevated in relation to severity of heart failure, 1980
Biphasic waveform Effects of biphasic waveform design on post-resuscitation myocardial function, 1228
Blood pressure Blood pressure and the therapy of advanced heart failure (editorial), 1430
Cardiology management improves secondary prevention measures among patients with coronary artery disease, 1517
Influence of pretreatment systolic blood pressure on the effect of carvedilol in patients with severe chronic heart failure, 1423
Mechanism(s) of selective systolic blood pressure reduction after low-dose combination of perindopril/indapamide in hypertensive subjects: comparison with atenolol, 92
Bone marrow cell transplantation Novel application of myocardial contrast echocardiography to evaluate angiogenesis by autologous bone marrow cell transplantation in chronic ischemic pig model, 1299
Brachial artery reactivity Relative importance of vascular structure and function in predicting cardiovascular events, 656
Brain death Impact of mode of donor brain death on cardiac allograft vasculopathy, 806
Brain natriuretic peptide Clinical significance of brain natriuretic peptide in primary pulmonary hypertension, 764
Elevation of plasma brain natriuretic peptide is a hallmark of diastolic heart failure independent of ventricular hypertrophy, 55
Brugada syndrome Hydroquinidine therapy in Brugada syndrome, 1853
B-type natriuretic peptide B-type natriuretic peptide and peak exercise oxygen consumption provide independent information for risk stratification in patients with stable congestive heart failure, 1584
Cost-effectiveness of screening with B-type natriuretic peptide to identify patients with reduced left ventricular ejection fraction, 1019
Obesity and suppressed B-type natriuretic peptide levels in heart failure, 1590
Plasma B-type natriuretic peptide levels in systolic heart failure, 416
Predischarge B-type natriuretic peptide assay for identifying patients at high risk of re-admission after decompensated heart failure, 655
Utility of B-type natriuretic peptide in predicting postoperative complications and outcomes in patients undergoing heart surgery, 1873
Bundle-branch block Limitation of exercise tolerance in chronic heart failure: distinct effects of left bundle-branch block and coronary artery disease, 1524
Calcific aortic stenosis Early experience with percutaneous transcatheter implantation of heart valve prostheses for the treatment of end-stage inoperable patients with calcific aortic stenosis, 698
Cardiac allograft vasculopathy Impact of mode of donor brain death on cardiac allograft vasculopathy, 806
Cardiac amyloidosis Noninvasive diagnosis of biopsy-proven cardiac amyloidosis, 410
Cardiac catheterization CathKIT: improving quality in the cardiac catheterization laboratory, 893
Sustained ventricular tachycardia or fibrillation in the cardiac catheterization laboratory among patients receiving primary percutaneous coronary intervention, 1765
The year in congenital heart disease, 2132
Cardiac function Glucose-insulin infusion improves cardiac function during fetal tachycardia, 445
Understanding the impact of abnormal cardiac activation on cardiac function (editorial), 1532
Cardiac masses Differential diagnosis of cardiac masses using contrast echocardiographic perfusion imaging, 1412
Masses of the heart: perfusing the "good" from the bad (editorial), 1420
Cardiac rehabilitation Reduction in C-reactive protein through cardiac rehabilitation and exercise training, 1056
Cardiac resynchronization therapy Cardiac resynchronization therapy: caveat medicus!, 1145
Effects of cardiac resynchronization therapy on left ventricular function, myocardial energetics, and metabolic reserve in patients with dilated cardiomyopathy and heart failure, 1027
Pacing the left ventricle: does underlying rhythm matter? (editorial), 239
Cardiac surgery Impact of delays to cardiac surgery after failed angioplasty and stenting, 337
Cardiac vascular control Acute aldosterone antagonism improves cardiac vascular control in humans, 1270
Cardiac volume High-resolution throracic real-time three-dimensional echocardiography: quantification of cardiac volumes and function using semi-automatic border detection and comparison with cardiac magnetic resonance imaging, 2083
Cardiologists Cardiologist’s toolbox: improving care, 2174
Platelets, the cardiologist, and coronary artery disease: moving beyond aggregation, 1989
Cardiology Cardiology management improves secondary prevention measures among patients with coronary artery disease, 1517
President’s page: strengthening our house of cardiology, 1721
Self-referral in cardiology, 1500
Cardiomyopathy See also Dilated cardiomyopathy, Hypertrophic cardiomyopathy, Ischemic cardiomyopathy Implantable cardioverter-defibrillators in patients with arrhythmogenic right ventricular dysplasia/cardiomyopathy, 1843
Mode of initiation and ablation of ventricular fibrillation storms in patients with ischemic cardiomyopathy, 1715
Cardioplegia Ultrastructural evidence of increased tolerance of hibernating myocardium to cardioplegic ischemic-reperfusion injury, 2329
Cardiopulmonary testing Lessons from cardiopulmonary testing after device closure of secundum atrial septal defects (editorial), 1892
Cardiotrophin-1 Transplantation of cardiotrophin-1-expressing myoblasts to the left ventricular wall alleviates the transition from compensatory hypertrophy to congestive heart failure in Dahl salt-sensitive hypertensive rats, 2337
Cardiovascular disease Erectile dysfunction: the earliest sign of generalized vascular disease? (editorial), 185
Evidence-based guidelines for cardiovascular disease prevention in women, 900
Impaired brachial artery endothelium-dependent and -independent vasodilation in men with erectile dysfunction and no other clinical cardiovascular disease, 179
From knowledge to practice in chronic cardiovascular disease: a long and winding road, 1738
Pathophysiology of cigarette smoking and cardiovascular disease, 1731
What is the optimal serum potassium level in cardiovascular patients?, 155
Cardiovascular events Relative importance of vascular structure and function in predicting cardiovascular events, 616
Cardiovascular medicine Paradigm shifts in cardiovascular medicine, 507
Cardiovascular surgery Year in cardiovascular surgery, 1706
Cardioversion Economic analysis of a transesophageal echocardiography-guided approach to cardioversion of patients with atrial fibrillation, 1217
Economic implications of transesophageal echocardiography-guided cardioversion of atrial fibrillation (editorial), 1225
Carotid artery Prevalence of specific variant carotid geometric patterns and incidence of cardiovascular events in older persons, 187
Carotid artery stenting Intracranial hemorrhage and hyperperfusion
Chest pain

Cardiovascular disease
- Sympathetic nervous system activation in Chagasic patients with congestive heart failure (letter), 1723

Chest pain
- Hemoglobin level is an independent predictor of adverse cardiovascular outcomes in women undergoing evaluation for chest pain; results from the NHLBI WISE study, 2009

Implication of different cardiac troponin I levels for clinical outcomes and prognosis of acute chest pain patients, 958

Children
- Characterizing the young patient with aortic dissection: from the International Registry of Aortic Dissection (IRAD), 665
- Clinical course of atrial ectopic tachycardia is age-dependent: results and treatment in children 3 or 3 years of age, 438
- Estimation of myocardial hemodynamics before and after intervention in children with Kawasaki disease, 653
- Interventional catheterization performed in the early postoperative period after congenital heart surgery in children, 1264
- Novel and traditional cardiovascular risk factors in children with Kawasaki disease, 120

Cholesterol
- See also Hypercholesterolemia
- Assessing low levels of high-density lipoprotein cholesterol as a risk factor in coronary heart disease, 717
- Cholesterol ester transfer protein
- Cholesteryl ester transfer protein (CETP) TaqIB polymorphism in the Cholesterol and Recurrent Events Study: no interaction with the response to pravastatin therapy and no effects on cardiovascular outcome, 854

Cholinergic stimulation

Adverse cardiovascular outcomes in women undergoing evaluation for chest pain: results from the NHLBI WISE study, 2009

Sympathetic nervous system activation in Chagasic patients with congestive heart failure (letter), 1723

Electrophysiological properties of pulmonary veins assessed using a multielectrode basket catheter, 2281

Catheter ablation
- Catheter ablation of atrial fibrillation: what is the best technique for achieving a high cure rate with acceptable risk?, 2054
- New approach for catheter ablation of atrial fibrillation: mapping of the electrophysiological substrate, 2044

Catheterization
- Interventional catheterization performed in the early postoperative period after congenital heart surgery in children, 1264

CathK(s)
- CathK at the Interventional Catheterization Laboratory, 893

CD40 ligand
- Release of soluble CD40 ligand from platelets is regulated by GP Ibα/IIa and actin polymerization, 2319

Collagen
- Cardiovascular Training Symposium (COCATS-2) guidelines, 2108

Collagen
- Cardiac atria are chambers of active remodeling and dynamic collagen turnover during evolving heart failure, 68
- Effects of loop diuretics on myocardial fibrosis and collagen type I turnover in chronic heart failure, 2028

Collateral circulation
- Reduced pericardial levels of endostatin correlate with collateral development in patients with ischemic heart disease, 1383

Carotid artery
- Prevalence of specific variant carotid geometric patterns and incidence of cardiovascular events in older persons, 187

Community settings
- Technetium 99m sestamibi myocardial perfusion imaging predicts clinical outcome in the community outpatient setting, 213

Comorbidity
- Comorbidity and outcome in patients with coronary artery disease (editorial), 583
- Depression: are we ignoring an important comorbidity in heart failure? (editorial), 1350
- Prognostic importance of comorbidity for morality in patients with stable coronary artery disease, 576

Computed tomography
- See also Multidetector computed tomography;
- Single-photon emission computed tomography
- Accuracy of multidetector spiral computed tomography in identifying and differentiating the composition of coronary atherosclerotic plaques, 1241
- Assessment of coronary remodeling in stenotic and nonstenotic coronary atherosclerotic lesions by multidetector spiral computed tomography, 842
- Detection of coronary stenoses by multidetector computed tomography: it’s all about resolution (editorial), 84
- Diagnostic accuracy of multidetector computed tomography coronary angiography in patients with angiographically proven coronary artery disease, 831
- Impact of scar thickness on the assessment of viability using dobutamine echocardiography and thallium single-photon emission computed tomography, 1248

Congenital heart disease
- See also specific disorder
- Determinants of cardiac output functional improvement after transcatheter atrial septal defect closure in asymptomatic adults, 1886
- Long-term outcomes of cardiac pacing in adults with congenital heart disease, 1894
- Outcome of patients with double-inlet left ventricle or tricuspid atresia with transposed great arteries, 113
- Stenting the neonatal arterial duct in duct-dependent pulmonary circulation: new techniques, better results, 107
- Systemic ventricular function in patients with transposition of the great arteries after atrial repair: a tissue Doppler and conductance catheter study, 100
- The year in congenital heart disease, 2132

Congenital heart surgery
- Interventional catheterization performed in the early postoperative period after congenital heart surgery in children, 1264
Constrictive pericarditis
Constrictive pericarditis: etiology and cause-specific survival after pericardiectomy, 1445
Transitional constrictive pericarditis: causes and natural history, 271
Contractile function
Myocardial wall thickness predicts recovery of contractile function after primary coronary intervention for acute myocardial infarction, 1489
Contrast echocardiography
Accuracy of dipyridamole myocardial contrast echocardiography for the detection of residual stenosis of the infarct related artery and multivessel disease early after acute myocardial infarction, 2247
Assessment of the physiologic significance of coronary disease with dipyridamole real-time myocardial contrast echocardiography, 257
Differential diagnosis of cardiac masses using contrast echocardiographic perfusion imaging, 1412
Effects of glycoprotein IIb/IIIa inhibition on microvascular flow after coronary reperfusion, 276
Incremental value of parametric quantitative assessment of myocardial perfusion by triggered low-power myocardial contrast echocardiography, 1807
Myocardial contrast echocardiography with a new calibration method can estimate myocardial viability in patients with myocardial infarction, 1799
Novel application of myocardial contrast echocardiography to evaluate angiogenesis by autologous bone marrow cell transplantation in chronic ischemic pig model, 1299
Placing faith in numbers: quantification of perfusion with myocardial contrast echocardiography (editorial), 1814
Contrast-enhanced magnetic resonance imaging
Myocardial infarction after percutaneous transluminal septal myocardial ablation in hypertrophic obstructive cardiomyopathy: evaluation by contrast-enhanced magnetic resonance imaging, 27
Coronary angiography
Assessment of the physiologic significance of coronary disease with dipyridamole real-time myocardial contrast echocardiography, 257
Diagnostic accuracy of multidetector computed tomography coronary angiography in patients with angiographically proven coronary artery disease, 831
Do we have a gold standard yet? (editorial), 662
Magnetic resonance angiography is equivalent to x-ray coronary angiography for the evaluation of coronary arteries in Kawasaki disease, 649
Multislice spiral CT coronary angiography in patients with stable angina pectoris, 2265
Coronary artery disease
Canadian study of the sirolimus-eluting stent in the treatment of patients with long de novo lesions in small native coronary arteries (C-SIRIUS), 1110
Magnetic resonance angiography is equivalent to x-ray coronary angiography for the evaluation of coronary arteries in Kawasaki disease, 649
Short-term intravascular epinephrine infusion combined with reduced dose recombinant tissue plasminogen activator inhibits platelet recruitment at sites of coronary artery injury, 287
Tissue Doppler imaging predicts recovery of left ventricular function after recanalization of an occluded coronary artery, 85
Coronary arteriography
Association of a pulsatile blood flow pattern on coronary arteriography and short-term clinical outcomes in acute myocardial infarction, 1170
Coronary artery bypass grafting
Chronicologic distribution of stroke after minimally invasive versus conventional coronary artery bypass, 752
Comparison of short- and long-term outcomes after off-pump and on-pump coronary artery bypass graft surgery with sternotomy, 557
Coronary intervention at hospitals without on-site cardiac surgery: are we pushing the envelope too far? (editorial), 343
Postoperative atrial fibrillation and mortality after coronary artery bypass surgery, 742
Coronary artery calcium
Prognostic value of coronary artery calcium screening in subjects with and without diabetes, 1412
Coronary artery disease
See also Atherosclerosis; Coronary heart disease
Angiopentin H1164T mutation is associated with the metabolic syndrome and coronary artery disease, 1195
Adverse outcomes in aortic sclerosis is associated with coronary artery disease and inflammation, 169
Antiangiogenin II receptors from peritransplantation through first-year post-transplantation and the risk of transplant coronary artery disease, 1565
Anti-ischemic effects and long-term survival during ranolazine monotherapy in patients with chronic severe angina, 1375
Assessment of the physiologic significance of coronary disease with dipyridamole real-time myocardial contrast echocardiography, 257
Cardiology management improves secondary prevention measures among patients with coronary artery disease, 1517
Comorbidity and outcome in patients with coronary artery disease (editorial), 583
Cyclooxygenase inhibition in patients with coronary artery disease (editorial), 532
Diabetes mellitus: the major risk factor in unstable coronary artery disease, 1195
Diabetic mellitus: the major risk factor in unstable coronary artery disease even after consideration of the extent of coronary artery disease and revascularization, 585
Diabetic mellitus: the major risk factor in unstable coronary artery disease even after consideration of the extent of coronary artery disease and revascularization, 585
Diagnostic accuracy of multidetector computed tomography coronary angiography in patients with angiographically proven coronary artery disease, 831
Echocardiographic carotid plaques predict future coronary events in patients with coronary artery disease, 1177
Exercise release of cardiac natriuretic peptides is markedly enhanced when patients with coronary artery disease are treated medically by beta-blockers, 353
Gender differences in ventricular arrhythmias in patients with coronary artery disease and implantable cardioverter-defibrillators, 2293
Glucose intolerance as resistance to treatment with angiotensin-converting enzyme inhibitors, 1532
Heart rate-corrected QT interval prolongation predicts risk of coronary heart disease in black and white middle-aged men and women, 565
Implications of estimating coronary heart disease risk in the U.S. population (editorial), 1797
Ischemia preconditioning in coronary heart disease: a therapeutic golden fleece? (editorial), 1515
Coronary lesions
First human experience with the 17-beta-estradiol-eluting stent, 1118
Coronary microcirculation
Diastolic coronary vascular reserve: a new index to detect changes in the coronary microcirculation in hypertrophic cardiomyopathy, 670
Coronary surgery
Predictors of new malignant ventricular arrhythmias after coronary surgery, 1630
Coronary vascular reserve
Diastolic coronary vascular reserve: a new index to detect changes in the coronary microcirculation in hypertrophic cardiomyopathy, 670
C-reactive protein
Effect of sleep loss on C-reactive protein, an inflammatory marker of cardiovascular risk, 678
Reduction in C-reactive protein through cardiac rehabilitation and exercise training, 1056
Relationship of interleukin-6 and C-reactive protein to the prothrombotic state in chronic atrial fibrillation, 2075
Medicine, Angioplasty, or Surgery Study (MASS-II): a randomized, controlled clinical trial of three therapeutic strategies for multivessel coronary artery disease, 1743
Platelets, the cardiologist, and coronary artery disease: moving beyond aggregation, 1989
Prognostic importance of comorbidity for mortality in patients with stable coronary artery disease, 576
Prognostic value of remnant-like lipoprotein particles levels in patients with coronary artery disease and type 2 diabetes mellitus, 2219
Stress myocardial perfusion single-photon emission computed tomography is clinically effective and cost effective in risk stratification of patients with a high likelihood of coronary artery disease (CAD) but no known CAD, 200
Surgery, angioplasty, or medical therapy for symptomatic multivessel coronary artery disease (editorial), 1752
Treatment of multivessel coronary artery disease with sirolimus-eluting stent-implantation: immediate and mid-term results, 1154
Understanding the impact of abnormal cardiac activation on cardiac function (editorial), 1532
Coronary flow velocity
Enhanced coronary flow velocity during intra-aortic balloon pumping assessed by transesophageal Doppler echocardiography, 368
Coronary heart disease
See also Coronary artery disease
Assessing low levels of high-density lipoprotein cholesterol as a risk factor in coronary heart disease, 717
Distribution of 10-year risk for coronary heart disease among U.S. adults, 1791
Heart disease in diabetes—resist the beginnings (letter), 315
Heart disease risk factors predict erectile dysfunction 25 years later, 1405
Heart rate-corrected QT interval prolongation predicts risk of coronary heart disease in black and white middle-aged men and women, 565
Implications of estimating coronary heart disease risk in the U.S. population (editorial), 1797
Ischemic preconditioning in coronary heart disease: a therapeutic golden fleece? (editorial), 1515
Crista terminalis
Functional characterization of the crista terminals in patients with atrial flutter: implications for radiofrequency ablation, 1639

Cutting balloon atherectomy
Cutting balloon versus conventional balloon angioplasty for the treatment of in-stent restenosis, 949
Meta-analysis of randomized trials of percutaneous transluminal coronary angioplasty versus atherectomy, cutting balloon atherectomy, or laser angioplasty, 936

Cyclooxygenase
Nonsteroidal anti-inflammatory drugs and cardiovascular risk, 519
Cyclooxygenase-2 inhibitors
Cyclooxygenase inhibition in patients with coronary artery disease (editorial), 532
Optimal suppression of thromboxane A2 formation by aspirin during percutaneous transluminal coronary angioplasty: no additional effect of a selective cyclooxygenase-2 inhibitor, 526

Cytoskeleton-specific immunoliposomes
Preservation of ischemic myocardial function and integrity with targeted cytoskeleton-specific immunoliposomes, 1683

Decompensation
Predischarge initiation of carvedilol in patients hospitalized for decompensated heart failure, 1534

Defibrillators
Azimilide decreases recurrent ventricular tacharrythmias in patients with implantable cardioverter defibrillators, 39
Filling the need for new antiarrhythmic drugs to prevent shocks from implantable cardioverter defibrillators (editorial), 44

Deoxytocorticosterone acetate-salt hypertensive rats
Myocardial fibrosis and diastolic dysfunction in deoxytocorticosterone acetate-salt hypertensive rats is ameliorated by the peroxisome proliferator-activated receptor-alpha activator fenofibrate, partly by suppressing inflammatory responses associated with the nuclear factor-kappa-B pathway, 1481

Depression
Depression: are we ignoring an important comorbidity in heart failure? (editorial), 1550
Influence of age, gender, and race on the prevalence of depression in heart failure patients, 1542
Statins to reduce risk of depression (letter), 1132

Diabetes mellitus
Association of fasting glucose levels with congestive heart failure in diabetic adults >65 years: the Cardiovascular Health Study, 2236
Diabetes mellitus: the major risk factor in unstable coronary artery disease even after consideration of the extent of coronary artery disease and revascularization, 585
Heart disease in diabetes—resist the beginnings (letter), 935
Influence of diabetes and diabetes—gender interaction on the risk of death in patients hospitalized with congestive heart failure, 771
Optimal glycemic control is associated with a lower rate of target vessel revascularization in treated type II diabetic patients undergoing elective percutaneous coronary intervention, 8
Optimization of glycemic control and restenosis prevention in diabetic patients undergoing percutaneous coronary interventions (editorial), 15
Outcome of acute ST-segment elevation myocardial infarction in diabetics treated with fibrinolytic or combination reduced fibrinolytic therapy and platelet glycoprotein IIb/IIIa inhibition, 542
Prognostic value of coronary artery calcium screening in subjects with and without diabetes, 1663
Prognostic value of remnant-like lipoprotein particles levels in patients with coronary artery disease and type 2 diabetes mellitus, 2219
Short- and long-term results after multivessel stenting in diabetic patients, 1348

Diastolic function
Aortic elastic properties and left ventricular diastolic function in patients with Adamantinoides-Beher's disease, 1075
Assessment of diastolic function using myocardial velocity gradient (letter), 1724
Patients with a hypertensive response to exercise have impaired systolic function without diastolic dysfunction or left ventricular hypertrophy, 848

Diastolic heart failure
Elevation of plasma brain natriuretic peptide is a hallmark of diastolic heart failure independent of ventricular hypertrophy, 55

Diet
Diet-heart hypothesis: a critique, 731
Low-carbohydrate-high-protein diets, 724

Dilated cardiomyopathy
Cellular, but not direct, adenosival delivery of vascular endothelial growth factor results in improved left ventricular function and neovascularization in dilated ischemic cardiomyopathy, 1908
Effects of cardiac resynchronization therapy on left ventricular function, myocardial energetics, and metabolic reserve in patients with dilated cardiomyopathy and heart failure, 1027
Endocardial and epicardial radiofrequency ablation of ventricular tachycardia associated with dilated cardiomyopathy, 1834
Myocardial positron emission computed tomographic images obtained with fluorine-18 fluoro-2-deoxyglucose predict the response to idiopathic dilated cardiomyopathy patients to beta-blockers, 224

Dipyridamole
Assessment of the physiologic significance of coronary disease with dipyridamole real-time myocardial contrast echocardiography, 257
Dipyridamole myocardial contrast echocardiography
Accuracy of dipyridamole myocardial contrast echocardiography for the detection of residual stenosis of the infarct related artery and multivessel disease early after acute myocardial infarction, 2247

Diuretics
Diuretic use, progressive heart failure, and death in patients with SOLVD (letter), 1723
Effects of loop diuretics on myocardial fibrosis and collagen type I turnover in chronic heart failure, 2028

DNA
Transient and reversible deoxyribonucleic acid damage in human left ventricle under controlled ischemia and reperfusion, 1992

Dobutamine stress echocardiography
Clinical and echocardiographic score for assigning risk of major events after dobutamine echocardiograms, 2102
Dobutamine stress echocardiography for noninvasive assessment and risk stratification of patients with rheumatic mitral stenosis, 393
Impact of scar thickness on the assessment of viability using dobutamine echocardiography and thallium single-photon emission computed tomography, 1248

Doppler echocardiography
Enhanced coronary flow velocity during intra-aortic balloon pumping assessed by transfemoral Doppler echocardiography, 368
Noninvasive assessment of relative intraventricular pressure gradients, 1654
Pulmonary venous flow by Doppler echocardiography: usefulness of diastolic wave deceleration time in predicting filling pressure (letter), 925

Double-inlet left ventricle
Outcome of patients with double-inlet left ventricle or tricuspid atresia with transposed great arteries, 113

Drug reimportation
Drug reimportation: sitting in the middle, 149

Drug-eluting stents
Can we afford to eliminate restenosis? 513
Highlights of the 2003 Transcatheter Cardiovascular Therapeutics annual meeting: clinical implications, 684
Impact of final stent dimensions on long-term results following sirolimus-eluting stent implantation, 1959
Risk of noncardiac surgery in the months following placement of a drug-eluting coronary stent (letter), 713
Short- and long-term clinical benefit of sirolimus-eluting stents compared to conventional bare stents for patients with acute myocardial infarction, 704
Significant reduction in restenosis following the use of sirolimus-eluting stents in the treatment of chronic total occlusions, 1954
Treatment of multivessel coronary artery disease with sirolimus-eluting stent implantation: immediate and mid-term results, 1154
Year in interventional cardiology, 875

Dyskinesia
Akinesia becoming dyskinesia after exercise testing: prevalence and relationship to clinical outcome, 599

Dyspnea
Exercise echocardiographic findings and outcome of patients referred for evaluation of dyspnea, 2242

Dystrophin
Molecular normalization of dystrophin in the failing left and right ventricle of patients treated with either pulsatile or continuous flow-type ventricular assist devices, 811

Early afterdepolarization
Autoimmunity against the second extracellular loop of the beta-1-adrenergic receptors induces early afterdepolarization and decreases in K-channel density in rabbits, 1090

Echocardiography
Accuracy of dipyridamole myocardial contrast echocardiography for the detection of residual stenosis of the infract related artery and multivessel disease early after acute myocardial infarction, 2247
Assessment of the physiologic significance of coronary disease with dipyridamole real-time myocardial contrast echocardiography, 257
Clinical and echocardiographic score for assigning risk of major events after dobutamine echocardiograms, 2102
Differential diagnosis of cardiac masses using contrast echocardiographic perfusion imaging, 1412
Dobutamine stress echocardiography for noninvasive assessment and risk stratification of patients with rheumatic mitral stenosis, 393
Economic analysis of a transesophageal echocardiography-guided approach to cardioversion of patients with atrial fibrillation, 1217
Economic implications of transesophageal echocardiography-guided cardioversion of atrial fibrillation (editorial), 1225
Effects of glycoprotein IIb/IIIa inhibition on microvascular flow after coronary reperfusion, 276
Enhanced coronary flow velocity during intra-aortic balloon pumping assessed by transthoracic Doppler echocardiography, 368
Exercise echocardiographic findings and outcome of patients referred for evaluation of dyspnea, 2242
High-resolution transesophageal real-time threedimensional echocardiography: quantification of cardiac volumes and function using semi-automatic border detection and comparison with cardiac magnetic resonance imaging, 2083
Impact of scar thickness on the assessment of viability using dobutamine echocardiography and thallium single-photon emission computed tomography, 1248
Incremental value of parametric quantitative assessment of myocardial perfusion by triggered low-power myocardial contrast echocardiography, 1807
Left atrial thrombus associated with ablation for atrial fibrillation: identification with intracardiac echocardiography, 1861
Myocardial contrast echocardiography with a new calibration method can estimate myocardial viability in patients with myocardial infarction, 1799
Noninvasive assessment of ejection intraventricular pressure gradients, 1654
Novel application of myocardial contrast echocardiography to evaluate angiogenesis by autologous bone marrow cell transplantation in chronic ischemic pig model, 1299
Placing faith in numbers: quantification of fibrosis of the heart, 346
Cycloxygenase inhibition in patients with coronary artery disease, 583
Aspirin resistance: more than just a laboratory curiosity, 1127
Authors, industry, and review articles, 1130
Beta-blocker therapy and primary angioplasty, 1788
Blood pressure and the therapy of advanced heart failure, 1430
Can patients with implantable pacemakers safely undergo magnetic resonance imaging?, 1325
Case for an adverse interaction between aspirin and non-steroidal anti-inflammatory drugs, 991
Cobordism and outcome in patients with coronary artery disease, 583
Coronary intervention at hospitals without on-site cardiac surgery: are we pushing the envelope too far?, 346
Cycloxygenase inhibition in patients with coronary artery disease, 532
Depression: are we ignoring an important comorbidity in heart failure?, 1530
Detection of coronary stenoses by multidetector computed tomography: it's all about resolution, 84
Do we have a gold standard yet?, 662
Does hospital coronary intervention volume matter in predicting mortality, 1763
Don't blame the stents, 1335
Drug reimplantation: sitting in the middle, 149
Economic implications of transesophageal echocardiography-guided cardioversion of atrial fibrillation, 1225
Editorials: why, when, and how, 709
Erectile dysfunction: the earliest sign of generalized vascular disease?, 185
Filling the need for new antiarrhythmic drugs to prevent shocks from implantable cardioverter defibrillators, 44
Glycoprotein IIb/IIIa inhibitors and no-reflow, 284
Heart hospitals: for better or worse, 1923
Heart transplantation: the increasing challenges of evidence-based decision-making, 803
Impact of asymptomatic atrial fibrillation, 53
Implications of estimating coronary heart disease risk in the U.S. population, 1797
Ischemic mitral regurgitation and ventricular remodeling, 384
Ischemic preconditioning in coronary heart disease: a therapeutic golden thread?, 1515
Lessons from cardiopulmonary testing after device closure of secundum atrial septal defects, 1892
Left ventricular hypertrophy: a “factor of risk”, 2216
Masses of the heart: perfusing the “good” from the bad, 1420
Metabolic syndrome, 1396
Monocyte: the key in the lock to reduce stent hyperplasia?, 24
Optimization of glycemic control and restenosis prevention in diabetic patients undergoing percutaneous coronary interventions, 15
Pacing the left ventricle: does underlying rhythm matter?, 23
Placing faith in numbers: quantification of perfusion with myocardial contrast echocardiography, 1814
Plaque characterization: surrogate markers or the real thing?, 1185
Postoperative atrial fibrillation: a billion-dollar problem, 1001
Postoperative atrial fibrillation and mortality: do the risks merit changes in clinical practice?, 749
Prepublication embargo of news release, 2359
Primary percutaneous coronary intervention at hospitals without on-site cardiac surgery: expanding the use of mechanical reperfusion for acute myocardial infarction, 1953
Pulmonary vein isolation for atrial fibrillation in low ejection fraction patients: the market is growing, 1010
QT interval prolongation and prognosis: further validation of the quantitative approach to electrocardiography, 572
Racing away from bias, 785
Renal artery stenosis: “fornication diagnosis,” problematic therapy, 1614
Risk stratification using stress myocardial perfusion imaging: don't neglect the value of clinical variables, 209
Self-referral in cardiology, 1500
Sildenafil-eluting stents: does a good stent still need a good interventionist?, 1116
Stress echocardiography in mitral stenosis: when is it useful?, 402
Stroke after percutaneous coronary interventions, 1168
Stroke and pacing mode: is pacing mode important?, 1623
Surgery, angioplasty, or medical therapy for symptomatic multivessel coronary artery disease, 1752
Transcatheter closure of atrial shunts, 310
Transcatheter valve replacement: a new era of percutaneous coronary intervention begins, 1088
Understanding the impact of abnormal cardiac activation on cardiac function, 1532
Vascular structure versus function: is endothelial dysfunction of independent prognostic importance or not?, 624
Visualizing coronary atherosclerosis in vivo: thinking big, imaging small, 461
What we're talking about when we talk about race, 436
Why is aortic sclerosis associated with adverse clinical outcomes?, 176
You only get so many heartbeats…., 1209

Echogenic immunoliposome
Intravascular ultrasound molecular imaging of atheroma components in vivo, 453

Editorials
Adverse outcomes from the use of older donor hearts in cardiac transplant recipients, 1562
Aspirin resistance: more than just a laboratory curiosity, 1127
Authors, industry, and review articles, 1130
Beta-blocker therapy and primary angioplasty, 1788
Blood pressure and the therapy of advanced heart failure, 1430
Can patients with implantable pacemakers safely undergo magnetic resonance imaging?, 1325
Case for an adverse interaction between aspirin and non-steroidal anti-inflammatory drugs, 991
Comorbidity and outcome in patients with coronary artery disease, 583
Coronary intervention at hospitals without on-site cardiac surgery: are we pushing the envelope too far?, 346
Cycloxygenase inhibition in patients with coronary artery disease, 532
Depression: are we ignoring an important comorbidity in heart failure?, 1530
Detection of coronary stenoses by multidetector computed tomography: it's all about resolution, 84
Do we have a gold standard yet?, 662
Does hospital coronary intervention volume matter in predicting mortality, 1763
Don't blame the stents, 1335
Drug reimplantation: sitting in the middle, 149
Economic implications of transesophageal echocardiography-guided cardioversion of atrial fibrillation, 1225
Editorials: why, when, and how, 709
Erectile dysfunction: the earliest sign of generalized vascular disease?, 185
Filling the need for new antiarrhythmic drugs to prevent shocks from implantable cardioverter defibrillators, 44
Glycoprotein IIb/IIIa inhibitors and no-reflow, 284
Heart hospitals: for better or worse, 1923
Heart transplantation: the increasing challenges of evidence-based decision-making, 803
Impact of asymptomatic atrial fibrillation, 53
Implications of estimating coronary heart disease risk in the U.S. population, 1797
Ischemic mitral regurgitation and ventricular remodeling, 384
Ischemic preconditioning in coronary heart disease: a therapeutic golden thread?, 1515
Lessons from cardiopulmonary testing after device closure of secundum atrial septal defects, 1892
Left ventricular hypertrophy: a “factor of risk”, 2216
Masses of the heart: perfusing the “good” from the bad, 1420
Metabolic syndrome, 1396
Monocyte: the key in the lock to reduce stent hyperplasia?, 24
Optimization of glycemic control and restenosis prevention in diabetic patients undergoing percutaneous coronary interventions, 15
Pacing the left ventricle: does underlying rhythm matter?, 23
Placing faith in numbers: quantification of perfusion with myocardial contrast echocardiography, 1814
Plaque characterization: surrogate markers or the real thing?, 1185
Postoperative atrial fibrillation: a billion-dollar problem, 1001

Postoperative atrial fibrillation and mortality: do the risks merit changes in clinical practice?, 749
Prepublication embargo of news release, 2359
Primary percutaneous coronary intervention at hospitals without on-site cardiac surgery: expanding the use of mechanical reperfusion for acute myocardial infarction, 1953
Pulmonary vein isolation for atrial fibrillation in low ejection fraction patients: the market is growing, 1010
QT interval prolongation and prognosis: further validation of the quantitative approach to electrocardiography, 572
Racing away from bias, 785
Renal artery stenosis: “fornication diagnosis,” problematic therapy, 1614
Risk stratification using stress myocardial perfusion imaging: don't neglect the value of clinical variables, 209
Self-referral in cardiology, 1500
Sildenafil-eluting stents: does a good stent still need a good interventionist?, 1116
Stress echocardiography in mitral stenosis: when is it useful?, 402
Stroke after percutaneous coronary interventions, 1168
Stroke and pacing mode: is pacing mode important?, 1623
Surgery, angioplasty, or medical therapy for symptomatic multivessel coronary artery disease, 1752
Transcatheter closure of atrial shunts, 310
Transcatheter valve replacement: a new era of percutaneous coronary intervention begins, 1088
Understanding the impact of abnormal cardiac activation on cardiac function, 1532
Vascular structure versus function: is endothelial dysfunction of independent prognostic importance or not?, 624
Visualizing coronary atherosclerosis in vivo: thinking big, imaging small, 461
What we're talking about when we talk about race, 436
Why is aortic sclerosis associated with adverse clinical outcomes?, 176
You only get so many heartbeats…., 1209

E/e' ratio
Noninvasive estimation of left ventricular filling pressure by E/e' is a powerful predictor of survival after acute myocardial infarction, 360

Ejection fraction
Cost-effectiveness of screening with B-type natriuretic peptide to identify patients with reduced left ventricular ejection fraction, 1019
Effects of ramping on left ventricular function after revascularization of an occluded coronary artery, 85
Transesophageal echocardiography improves risk assessment of thrombolysis of prosthetic valve thrombosis: results of the International PRO-TEE Registry, 77
Year in echocardiography, 140

Subject Index: Volume 43 2381

Elderly
See also Age
Association of fasting glucose levels with congestive heart failure in diabetic adults >65 years: the Cardiovascular Health Study, 2236

Importance of increasing age on the presentation and outcome of acute coronary syndromes in elderly patients, 346

Prevalence of specific variant carotid geometric patterns and incidence of cardiovascular events in older persons, 187

Treadmill scores in elderly men, 606

Electrode stimulation

Long-term subthreshold electrical stimulation of the left stellate ganglion and a canine model of sudden cardiac death, 858

Electrocardiography

QT interval prolongation and prognosis: further validation of the quantitative approach to electrocardiography (editorial), 572

Electrograms

Characteristics of virtual unipolar electrograms for detecting isthmus block during radiofrequency ablation of typical atrial flutter, 2300

Electrolytes

What is the optimal serum potassium level in cardiovascular patients?, 155

Electrophysiology

Acute comparative effect of right and left ventricular pacing in patients with permanent atrial fibrillation, 234

Azimilide decreases recurrent ventricular tachyarrhythmias in patients with implantable cardioverter defibrillators, 39

Filtering the need for new antiarrhythmic drugs to prevent shocks from implantable cardioverter defibrillators (editorial), 44

Impact of asymptomatic atrial fibrillation (editorial), 53

Intra-left ventricular electromechanical asynchrony, 248

Long-term risk of recurrent atrial fibrillation as documented by an implantable monitoring device, 47

Year in electrophysiology, 1306

Embolism

See also Thrombosis

Embolic complications in Strepodococcus viridans endocarditis (letter), 1133

Randomized trial of aspirin on the risk of embolic events in patients with infective endocarditis (letter), 1134

Endocarditis

Contemporary results of mitral valve repair for infective endocarditis, 386

Embolic complications in Strepodococcus viridans endocarditis (letter), 1133

Randomized trial of aspirin on the risk of embolic events in patients with infective endocarditis (letter), 1134

Endostatin

Reduced pericardial levels of endostatin correlate with collagen deposition in patients with ischemic heart disease, 1383

Endothelial dysfunction

High lipoprotein(a) levels and small apolipoprotein(a) sizes are associated with endothelial dysfunction in a multiethnic cohort, 1828

Vascular structure versus function: is endothelial dysfunction of independent prognostic importance or not? (editorial), 624

Endothelial progenitor cells

Exercise acutely increases circulating endothelial progenitor cells and monocyt/macrophage derived angiogenic cells, 2314

Endothelium

Long-term effect of combined vitamins E and C on coronary and peripheral endothelial function, 629

Reactive hyperemia as a test of endothelial or microvascular function? (letter), 2147

End-stage calcific aortic stenosis

Early experience with percutaneous transcatheter implantation of heart valve prosthesis for the treatment of end-stage inoperable patients with calcific aortic stenosis, 698

Enoxaparin

Administration of enoxaparin to acute coronary syndrome patients receiving enoxaparin or unfractionated heparin, 966

Epicardial fat

Preservation of the anterior fat pad paradoxically decreases the incidence of postoperative atrial fibrillation in humans, 994

Eptifibatide

Administration of eptifibatide to acute coronary syndrome patients receiving enoxaparin or unfractionated heparin, 966

Eptifibatide provides additional platelet inhibition in non-ST-elevation myocardial infarction patients already treated with aspirin and clopidogrel, 162

Improved speed and stability of ST-segment recovery with reduced-dose tenecteplase and eptifibatide compared with full-dose tenecteplase for acute ST-segment elevation myocardial infarction, 549

Short-term intravenous eptifibatide infusion combined with reduced dose recombinant tissue plasminogen activator inhibits platelet recruitment at sites of coronary artery injury, 287

Erectile dysfunction

Erectile dysfunction: the earliest sign of generalized vascular disease? (editorial), 185

Heart disease risk factors predict erectile dysfunction 25 years later, 1405

Impaired brachial artery endothelium-dependent and -independent vasodilation in men with erectile dysfunction and no other clinical cardiovascular disease, 179

European Society of Cardiology Congress

News from the European Society of Cardiology Congress in Vienna, August 30 to September 3, 2003, 691

Evidence-based decision-making

Heart transplantation: the increasing challenges of evidence-based decision-making (editorial), 803

Evidence-based guidelines

Evidence-based guidelines for cardiovascular disease prevention in women, 900

Exercise

Exercise acutely increases circulating endothelial progenitor cells and monocyt/macrophage derived angiogenic cells, 2314

Exercise release of cardiac natriuretic peptides is markedly enhanced when patients with coronary artery disease are treated medically by beta-blockers, 353

Exercise training normalizes vascular dysfunction and improves central adiposity in obese adolescents, 1823

Heart rate recovery after exercise is not demonstrated as a predictor of mortality: maybe after treadmill-exercise (letter), 599

Reduction in C-reactive protein through cardiac rehabilitation and exercise training, 1056

Exercise echocardiography

Exercise echocardiographic findings and outcome of patients referred for evaluation of dyspnea, 2242

Exercise testing

Akinisia becoming dyskinesia after exercise testing: prevalence and relationship to clinical outcome, 599

Heart rate recovery after exercise is not demonstrated as a predictor of mortality: maybe after treadmill-exercise (letter), 599

Patients with a hypertensive response to exercise have impaired systolic function without diastolic dysfunction or left ventricular hypertrophy, 848

Prognostic significance of exercise-induced atrial arrhythmias, 1236

Treadmill scores in elderly men, 606

Exercise tolerance

Limitation of exercise tolerance in chronic heart failure: distinct effects of left bundle-branch block and coronary artery disease, 1524

Understanding the impact of abnormal cardiac activation on cardiac function (editorial), 1532

Experimental studies

Reduction of “no-reflow” phenomenon by intra-aortic balloon counterpulsation in a randomized magnetic resonance imaging experimental study, 1291

Familial combined hyperlipidemia

Decreased circulating Fas ligand in patients with familial combined hyperlipidemia or carotid atherosclerosis, 1188

Fas ligand

Decreased circulating Fas ligand in patients with familial combined hyperlipidemia or carotid atherosclerosis, 1188

Fasting glucose

Association of fasting glucose levels with congestive heart failure in diabetic adults >65 years: the Cardiovascular Health Study, 2236

Fat pad

Preservation of the anterior fat pad paradoxically decreases the incidence of postoperative atrial fibrillation in humans, 994

Fenofibrate

Myocardial fibrosis and diastolic dysfunction in deoxycorticosterone acetate-salt hypertensive rats is ameliorated by the peroxisome proliferator-activated receptor-alpha activator fenofibrate, partly by suppressing inflammatory responses associated with the nuclear factor-kappa-B pathway, 1481

Fetal tachycardia

Glucose-insulin infusions improves cardiac function during fetal tachycardia, 445

Fetus

Intrauterine pulmonary venous flow and restrictive foramen ovale in fetal hypoplastic left heart syndrome, 1902

Fibinolotic therapy

Outcome of acute ST-segment elevation myocardial infarction in diabetes treated with fibrinolytic or combination reduced fibrinolytic therapy and platelet glycoprotein IIb/IIIa inhibition, 542

Fibrosis

Osteopontin modulates angiotensin II-induced fibrosis in the intact murine heart, 1698
Fluorine-18 fluoro-2-deoxyglucose positron emission tomography
Myocardial positron emission computed tomographic images obtained with fluorine-18 fluoro-2-deoxyglucose predict the response to idiopathic dilated cardiomyopathy patients to beta-blockers, 224

Gondopapain
Don't study of gondopapain in patients with non-ST-segment elevation acute coronary syndromes: the PENTUA study, 2183

Fontan operation
The year in congenital heart disease, 2132

Foramen ovale
Intraventricular pulmonary venous flow and restrictive foramen ovale in fetal hypoplastic left heart syndrome, 1902

Framingham Heart Study
Hematocrit and left ventricular mass: the Framingham Heart Study, 1276

Gadolinium
Gadolinium delayed enhancement cardiovascular magnetic resonance correlates with clinical measures of myocardial infarction, 2253
Histological basis of late gadolinium enhancement cardiovascular magnetic resonance in hypertrophic cardiomyopathy, 2260

Gender
Gender differences in ventricular arrhythmias in patients with coronary artery disease and implantable cardioverter-defibrillators, 2293
Influence of age, gender, and race on the prevalence of depression in heart failure patients, 1542
Influence of diabetes and diabetes-gender interaction on the risk of death in patients hospitalized with congestive heart failure, 771

Gene expression
Temporal patterns of gene expression after acute hindlimb ischemia in mice, 474

Genetics
The year in congenital heart disease, 2132

Glucose
Association of fasting glucose levels with congestive heart failure in diabetic adults >65 years: the Cardiovascular Health Study, 2236
Blood pressure and the therapy of advanced heart failure (editorial), 1430
B-type natriuretic peptide and peak exercise oxygen consumption provide independent information for risk stratification in patients with stable congestive heart failure, 1584
Cardiac atria are chambers of active remodeling and dynamic collagen turnover during evolving heart failure, 68
Depression: are we ignoring an important comorbidity in heart failure? (editorial), 1550
Diuretic use, progressive heart failure, and death in patients with SOLVD (letter), 1723
Effects of cardiac resynchronization therapy on left ventricular function, myocardial energetics, and metabolic reserve in patients with dilated cardiomyopathy and heart failure, 1027
Effects of losartan on myocardial fibrosis and collagen type I turnover in chronic heart failure, 2028
Elevaion of plasma brain natriuretic peptide is a hallmark of diastolic heart failure independent of ventricular hypertrophy, 55
Frequency and impact of delayed decisions regarding heart transplantation on long-term outcomes in patients with advanced heart failure, 794
Heart failure with preserved left ventricular systolic function, 317
Hemodynamic profiles in heart failure patients (letter), 151
Highlights of the 2003 sessions of the Heart Failure Society of America, 1103
Hospitalization for heart failure in the presence of a normal left ventricular ejection fraction, 1432
Hydroxyl radical generation, levels of tumor necrosis factor-α and progression to heart failure after acute myocardial infarction, 2000
Impact of race on heart failure: distinct effects of left bundle-branch block and coronary artery disease, 1524
Obesity and suppressed B-type natriuretic peptide levels in heart failure, 1590
Outpatient utilization of angiotensin converting enzyme inhibitors among heart failure patients after hospital discharge, 2036
Plasma angiotensin-1, angiotensin-2, and angiotensin receptor type-2 levels in congestive heart failure, 423
Plasma B-type natriuretic peptide levels in systolic heart failure, 416
PredischARGE B-type natriuretic peptide assay for identifying patients at high risk of readmission after decompensated heart failure, 635
PredischARGE initiation of carvedilol in patients hospitalized for decompensated heart failure, 1534
Racial variation in the prevalence of atrial fibrillation among patients with heart failure, 429
Reverse epidemiology of conventional cardiovascular risk factors in patients with chronic heart failure, 1439
Role of angiotensin II type 2 receptors and kinins in the cardioprotective effect of angiotensin II type 1 receptor antagonists in rats with heart failure, 1473
Selection of patients for heart transplantation in the current era of heart failure therapy, 787
Severity of left ventricular remodeling defines outcomes and response to therapy in heart failure: Val-HFFe echocardiography data, 2022
Statin therapy is associated with improved survival in ischemic and non-ischemic heart failure, 642
Sympathetic nervous system activation in Chagasic patients with congestive heart failure (letter), 1723
Transplantation of cardioprotin-1-expressing myoblasts to the left ventricular wall alleviates the transition from compensatory hypertrophy to congestive heart failure in Dahl salt-sensitive hypertensive rats, 2337
Urinary biopyrrins levels are elevated in relation to severity of heart failure, 1890

Heart rate
Heart rate recovery after exercise is not demonstrated as a predictor of mortality: maybe after treadmill-exercise (letter), 599
Heart rate-corrected QT interval prolongation predicts risk of coronary heart disease in black and white middle-aged men and women, 565

Heart rate variability
Acute aldosterone antagonism improves cardiac vagal control in humans, 1270
Dissection of long–range heart rate variability, 2271
Origin and significance of heart rate variability, 2278
Heart transplantation
Adverse outcomes from the use of older donor hearts in cardiac transplant recipients (editorial), 1562
Frequency and impact of delayed decisions regarding heart transplantation on long-term outcomes in patients with advanced heart failure, 797
Heart transplantation: the increasing challenges of evidence-based decision-making (editorial), 803
Outcomes in cardiac transplant recipients using allografts from older donors versus mortality on the transplant waiting list, 1553
Selection of patients for heart transplantation in the current era of heart failure therapy, 787

Heat shock protein-60
Neangiogenesis, T-lymphocyte infiltration, and heat shock protein-60 are biological hallmarks of an immunomodulated inflammatory process in end-stage calcified aortic valve stenosis, 1670

Hematocrit
Hematocrit and left ventricular mass: the Framingham Heart Study, 1276

Hemodynamics
Estimation of myocardial hemodynamics before and after intervention in children with Kawasaki disease, 653
Hemodynamic profiles in heart failure patients (letter), 151

Hemoglobin
Hemoglobin level is an independent predictor of adverse cardiovascular outcomes in women undergoing evaluation for chest pain: results from the NHLBI WISE study, 2009

Hemoglobin A1c
Glucose intolerance as reflected by hemoglobin A1c level, is associated with the incidence and severity of transplant coronary artery disease, 1034

Hemorrhage
Intracranial hemorrhage and hyperfusion syndrome following carotid artery stenting, 1596

Heparin
Administration of epibatidine to acute coronary syndrome patients receiving enoxaparin or unfractionated heparin, 966

Hepatocyte growth factor
Powerful and controllable angiogenesis by using gene-modified cells expressing human hepatocyte growth factor and thymidine kinase, 1915

Hibernating myocardium
Human hibernating myocardium is jeopardized by apoptotic and autophagic cell death, 2191
Ultrastructural evidence of increased tolerance of hibernating myocardium to cardioplogic ischemia-reperfusion injury, 2329

High-density lipoprotein-cholesterol
Assessing low levels of high-density lipoprotein cholesterol as a risk factor in coronary heart disease, 217

High-protein diets
Diet–heart hypothesis: a critique, 731
Low-carbohydrate–high-protein diets, 724

Hippocrates paradox
Is Hippocrates paradox really a paradox? (letter), 505

Hospital(s)
Coronary intervention at hospitals without on-site cardiac surgery: are we pushing the envelope too far? (editorial), 343
Does hospital coronary intervention volume matter in predicting mortality (editorial), 1763
Heart hospitals: for better or worse, 1923
Hospital percutaneous coronary intervention volume and patient mortality, 1998 to 2000, 1755
Outpatient utilization of angiotensin converting enzyme inhibitors among heart failure patients after hospital discharge, 2036
Primary angioplasty in acute myocardial infarction at hospitals with no surgery on-site (PAMI No SOS) versus transfer to surgical centers for primary angioplasty, 1943
Primary percutaneous coronary intervention at hospitals without on-site cardiac surgery: expanding the use of mechanical reperfusion for acute myocardial infarction (editorial), 1951
Hospitalization
Hospitalization for heart failure in the presence of a normal left ventricular ejection fraction, 1432
Incidence, predictors at admission, and impact of worsening renal function among patients hospitalized with heart failure, 61
PredischARGE initiation of carvedilol in patients hospitalized for decompensated heart failure, 1554

Hydroquinidine
Hydroquinidine therapy in Brugada syndrome, 1853

Hydroxyl radicals
Hydroxyl radical generation, levels of tumor necrosis factor-a and progression to heart failure after acute myocardial infarction, 2000

Hypermorphism
Intraplacental hemorphage and hyperperfusion syndrome following carotid artery stenting, 1596

Hypertension
Association between aldosterone synthase (CYP11B2) polymorphism and left ventricular mass in human essential hypertension, 265
Cardiovascular risk reduction in hypertensive black patients with left ventricular hypertrophy, 1047
Comparative effects of valsartan versus amlopidine on left ventricular mass and reactive oxygen species formation by monocytes in hypertensive patients with left ventricular hypertrophy, 2116
Mechanism(s) of selective systolic blood pressure reduction after low-dose combination of perindopril/indapamide in hypertensive subjects: comparison with atenolol, 92
Patients with a hypertensive response to exercise have impaired systolic function without diastolic dysfunction or left ventricular hypertrophy, 848
Prognostic value of the metabolic syndrome in essential hypertension, 1817
Relationship to neurovascular compression to central sympathetic discharge and essential hypertension, 1453

Hypertrophic cardiomyopathy
Diastolic coronary vascular reserve: a new index to detect changes in the coronary microcirculation in hypertrophic cardiomyopathy, 670
Histological basis of late gadolinium enhancement cardiovascular magnetic resonance in hypertrophic cardiomyopathy, 2260
Myocardial bridging in adult and pediatric patients with hypertrophic cardiomyopathy is not associated with poor outcome (letter), 1133
Myocardial infarction after percutaneous transluminal septal myocardial ablation in hypertrophic obstructive cardiomyopathy: evaluation by contrast-enhanced magnetic resonance imaging, 27

Hypothalamic plastic left heart syndrome
Intrauterine pulmonary venous flow and restrictive foramen ovale in fetal hypoplastic left heart syndrome, 1902

Imaging
See also Computed tomography; Echocardiography; Magnetic resonance imaging, 257
Assessment of the physiologic significance of coronary disease with dipyridamole real-time myocardial contrast echocardiography, 257
Risk stratification using stress myocardial perfusion imaging: don’t neglect the value of clinical variables (editorial), 209
Stress myocardial perfusion single-photon emission computed tomography is clinically effective and cost effective in risk stratification of patients with a high likelihood of coronary artery disease (CAD) but no known CAD, 200
Systemic ventricular function in patients with transposition of the great arteries after atrial repair: a tissue Doppler and conductance cather study, 100
Technetium 99m-sestamibi myocardial perfusion imaging predicts clinical outcome in the community outpatient setting, 213
Tissue Doppler imaging predicts recovery of left ventricular function after reanalysisalization of an occluded coronary artery, 85

Transesophageal echocardiography improves risk assessment of thrombolysis of prosthetic valve thrombosis: results of the International PRO-T3E Registry, 77
Utility of myocardial perfusion imaging in patients with low-risk treadmill scores, 194
Year in echocardiography, 140

Immunoliposomes
Preservation of ischemic myocardial function and integrity with targeted cytoskeleton-specific immunoliposomes, 1683

Implantable cardioverter- defibrillators
Analysis of mortality events in the Multiscenter Automatic Defibrillator Implantation Trial (MADIT-II), 1459
Azimilide decreases recurrent ventricular tachyarrhythmias in patients with implantable cardioverter defibrillators, 39
Filling the need for new antiarrhythmic drugs to
preventing shocks from implantable cardioverter-defibrillators (editorial), 44
Gender differences in ventricular arrhythmias in patients with coronary artery disease and implantable cardioverter-defibrillators, 2293
Implantable cardioverter-defibrillators in patients with arrhythmogenic right ventricular dysplasia/cardiomyopathy, 1843
Indapamide
Mechanism(s) of selective systolic blood pressure reduction after low-dose combination of perindopril/indapamide in hypertensive subjects: comparison with atenolol, 92
Infected endocarditis
Contemporary results of mitral valve repair for infective endocarditis, 386
Randomized trial of aspirin on the risk of embolic events in patients with infective endocarditis (letter), 1134
Inflammation
Adverse outcomes in aortic sclerosis is associated with coronary artery disease and inflammation, 169
Peroxynitrite decomposition catalysts prevent myocardial dysfunction and inflammation in endotoxic rats, 2348
Soluble CD40 ligand and platelets—self-perpetuating pathogenic loop in thrombosis and inflammation?, 2266
Inflammatory response
Myocardial fibrosis and diastolic dysfunction in deoxycorticosterone acetate-salt hypertensive rats is ameliorated by the peroxisome proliferator-activated receptor-alpha activator fenofibrate, partly by suppressing inflammatory responses associated with the nuclear factor-kappa-B pathway, 1481
In-stent neointima
Circulating monocytes and in-stent neointima after coronary stent implantation, 18
Monocyte: the key in the lock to reduce stent hyperplasia? (editorial), 24
In-stent restenosis
Cutting balloon versus conventional balloon angioplasty for the treatment of in-stent restenosis, 949
Insurance
Medical malpractice insurance: a multifaceted problem (letter), 2366
Interleukin-6
Relationship of interleukin-6 and C-reactive protein to the prothrombotic state in chronic atrial fibrillation, 2075
Interleukin-1 receptor antagonist
Early interleukin-1 receptor antagonist elevation in patients with acute myocardial infarction, 35
Interventional cardiology
Circulating monocytes and in-stent neointima after coronary stent implantation, 18
Hospital percutaneous coronary intervention volume and patient mortality, 1998 to 2000, 1755
Impact of delays to cardiac surgery after failed angioplasty and stenting, 337
Myocardial infarction after percutaneous transluminal septal myocardial ablation in hypertrophic obstructive cardiomyopathy: evaluation by contrast-enhanced magnetic resonance imaging, 47
Optimal glycemic control is associated with a lower rate of target vessel revascularization in treated type II diabetic patients undergoing elective percutaneous coronary intervention, 8
Optimal suppression of thromboxane A2 formation by aspirin during percutaneous transluminal coronary angioplasty: no additional effect of a selective cyclooxygenase-2 inhibitor, 526
Optimization of glycemic control and restenosis prevention in diabetic patients undergoing percutaneous coronary interventions (editorial), 15
Treatment of multivessel coronary artery disease with sirolimus-eluting stent implantation: immediate and mid-term results, 1154
Year in interventional cardiology, 875
Interventional catheterization
Interventional catheterization performed in the early postoperative period after congenital heart surgery in children, 1264
Intima-media thickness
Metabolic syndrome amplifies the age-associated increases in vascular thickness and stiffness, 1388
Intra-aortic balloon counterpulsation
Reduction of ‘no-reflow’ phenomenon by intra-aortic balloon counterpulsation in a randomized magnetic resonance imaging experimental study, 1291
Intra-aortic balloon pumping
Enhanced coronary flow velocity during intra-aortic balloon pumping assessed by transthoracic Doppler echocardiography, 368
Intracranial hemorrhage
Intracranial hemorrhage and hyperperfusion syndrome following carotid artery stenting, 1596
Intra-left ventricular electromechanical asynchrony
Intra-left ventricular electromechanical asynchrony, 248
Intravascular ultrasound
Intravascular ultrasound molecular imaging of atheroma components in vivo, 453
Routine intravascular ultrasound guidance of percutaneous coronary intervention, 1335
Intraventricular pressure gradients
Noninvasive assessment of ejection intraventricular pressure gradients, 1654
Ischaemia
See also Myocardial ischemia
Temporal patterns of gene expression after acute hindlimb ischemia in mice, 474
Transient and reversible deoxynucleoside acid damage in human left ventricle under controlled ischemia and reperfusion, 1992
Ischemic cardiomyopathy
Cellular, but not direct, adenosiv delivery of vascular endothelial growth factor results in improved left ventricular function and neovascularization in dilated ischemic cardiomyopathy, 1908
Mode of initiation and ablation of ventricular fibrillation storms in patients with ischemic cardiomyopathy, 1715
Ischemic heart disease
Ischemic heart disease in women: facts and wishful thinking, 1727
Reduced pericardial levels of endostatin correlate with collateral development in patients with ischemic heart disease, 1383
Ischemic heart failure
Statin therapy is associated with improved survival in ischemic and non-ischemic heart failure, 642
Ischemic mitral regurgitation
Ischemic mitral regurgitation and ventricular remodeling (editorial), 384
Prevention of ischemic mitral regurgitation does not influence the outcome of remodeling after posterolateral myocardial infarction, 377
Ischemic preconditioning
Ischemic preconditioning in coronary heart disease: a therapeutic golden fleece? (editorial), 1515
Ischemic-reperfusion injury
Ultrasructural evidence of increased tolerance of hibernating myocardium to cardioplegic ischemic-reperfusion injury, 2329
Isomorphous myocardial acceleration
Systemic ventricular function in patients with transposition of the great arteries after atrial repair: a tissue Doppler and conductance catheter study, 100
Isthmus block
Characteristics of virtual unipolar electrograms for detecting isthmus block during radiofrequency ablation of typical atrial flutter, 2300
Kawasaki disease
Estimation of myocardial hemodynamics before and after intervention in children with Kawasaki disease, 653
Magnetic resonance angiography is equivalent to x-ray coronary angiography for the evaluation of coronary arteries in Kawasaki disease, 649
Novel and traditional cardiovascular risk factors in children with Kawasaki disease, 120
Kidneys
Incidence, predictors at admission, and impact of worsening renal function among patients hospitalized with heart failure, 61
Kinins
Role of angiotensin II type 2 receptors and kinins in the cardioprotective effect of angiotensin II type 1 receptor antagonists in rats with heart failure, 1473
Laser angioplasty
Meta-analysis of randomized trials of percutaneous transluminal coronary angioplasty versus atherectomy, cutting balloon atherotomy, or laser angioplasty, 936
Left atrial appendage
Left atrial structure and function after percutaneous left atrial appendage transcather occlusion (PLAATO), 1868
Left atrial thrombus
Left atrial thrombus associated with ablation for atrial fibrillation: identification with intracardiac echocardiography, 1861
Left atrium
Expression of angiotensin II receptors in human left and right atrial tissue in atrial fibrillation with and without underlying mitral valve disease (letter), 2363
Left atrial structure and function after percutaneous left atrial appendage transcather occlusion (PLAATO), 1868
Left bundle-branch block
Limitation of exercise tolerance in chronic heart failure: distinct effects of left bundle-branch block and coronary artery disease, 1524
Left stellate ganglion
Long-term subthreshold electrical stimulation of the left stellate ganglion and a canine model of sudden cardiac death, 858
Left ventricle
Acute comparative effect of right and left ventricular pacing in patients with permanent atrial fibrillation, 234
Alterations in left ventricular structure and function in young healthy obese women, 1399
Cellular, but not direct, adenosiv delivery of vascular endothelial growth factor results in improved left ventricular function and neovascularization in dilated ischemic cardiomyopathy, 1908

Subject Index: Volume 43

Ischemic preconditioning
Ischemic preconditioning in coronary heart disease: a therapeutic golden fleece? (editorial), 1515
Ischemic-reperfusion injury
Ultrasructural evidence of increased tolerance of hibernating myocardium to cardioplegic ischemic-reperfusion injury, 2329
Isomorphous myocardial acceleration
Systemic ventricular function in patients with transposition of the great arteries after atrial repair: a tissue Doppler and conductance catheter study, 100
Isthmus block
Characteristics of virtual unipolar electrograms for detecting isthmus block during radiofrequency ablation of typical atrial flutter, 2300
Kawasaki disease
Estimation of myocardial hemodynamics before and after intervention in children with Kawasaki disease, 653
Magnetic resonance angiography is equivalent to x-ray coronary angiography for the evaluation of coronary arteries in Kawasaki disease, 649
Novel and traditional cardiovascular risk factors in children with Kawasaki disease, 120
Kidneys
Incidence, predictors at admission, and impact of worsening renal function among patients hospitalized with heart failure, 61
Kinins
Role of angiotensin II type 2 receptors and kinins in the cardioprotective effect of angiotensin II type 1 receptor antagonists in rats with heart failure, 1473
Laser angioplasty
Meta-analysis of randomized trials of percutaneous transluminal coronary angioplasty versus atherectomy, cutting balloon atherotomy, or laser angioplasty, 936
Left atrial appendage
Left atrial structure and function after percutaneous left atrial appendage transcather occlusion (PLAATO), 1868
Left atrial thrombus
Left atrial thrombus associated with ablation for atrial fibrillation: identification with intracardiac echocardiography, 1861
Left atrium
Expression of angiotensin II receptors in human left and right atrial tissue in atrial fibrillation with and without underlying mitral valve disease (letter), 2363
Left atrial structure and function after percutaneous left atrial appendage transcather occlusion (PLAATO), 1868
Left bundle-branch block
Limitation of exercise tolerance in chronic heart failure: distinct effects of left bundle-branch block and coronary artery disease, 1524
Left stellate ganglion
Long-term subthreshold electrical stimulation of the left stellate ganglion and a canine model of sudden cardiac death, 858
Left ventricle
Acute comparative effect of right and left ventricular pacing in patients with permanent atrial fibrillation, 234
Alterations in left ventricular structure and function in young healthy obese women, 1399
Cellular, but not direct, adenosiv delivery of vascular endothelial growth factor results in improved left ventricular function and neovascularization in dilated ischemic cardiomyopathy, 1908
Intra-left ventricular electromechanical asynchrony, 248
Left ventricular mechanics during right ventricular apical or left ventricular-based pacing in patients with chronic atrial fibrillation after atrioventricular junction ablation, 1013
Long-term capsaicin inhibition anemorizes apoptosis, reduces myocardial troponin-I cleavage, protects left ventricular function, and attenuates remodeling in rats with myocardial infarction, 295
Molecular normalization of dystrophin in the failing left and right ventricle of patients treated with either pulsatile or continuous flow-type ventricular assist devices, 811
Pacing the left ventricle: does underlying rhythm matter? (editorial), 239
Tissue Doppler imaging predicts recovery of left ventricular function after revascularization of an occluded coronary artery, 85
Transient and reversible deoxyribonucleic acid damage in human left ventricle under controlled ischemia and reperfusion, 1992
Transplantation of cardiophrenin-1-expressing myoblasts to the left ventricular wall alleviates the transition from compensatory hypertrophy to congestive heart failure in Dahl salt-sensitive hypertensive rats, 2337
Left ventricular assist devices
Left ventricular assist device malfunction: a systematic approach to diagnosis, 1574
Molecular normalization of dystrophin in the failing left and right ventricle of patients treated with either pulsatile or continuous flow-type ventricular assist devices, 811
Left ventricular diastolic function
Aortic elastic properties and left ventricular diastolic function in patients with Adamantidases-Beher's disease, 1075
Clinical validity of measuring time difference between onset of mitral inflow and onset of early diastolic mitral annulus velocity in the evaluation of left ventricular diastolic function, 2097
Left ventricular dysfunction
Ischemic and viable myocardium in patients with non-Q-wave or Q-wave myocardial infarction and left ventricular dysfunction, 592
Predictors of left ventricular dysfunction following mitral valve repair for mitral regurgitation (letter), 1925
Left ventricular ejection fraction
Cost-effectiveness of screening with B-type natriuretic peptide to identify patients with reduced left ventricular ejection fraction, 1019
Effects of ramipril on left ventricular mass and function in cardiovascular patients with controlled blood pressure and with preserved left ventricular ejection fraction, 2200
Hospitalization for heart failure in the presence of a normal left ventricular ejection fraction, 1432
Impact of tricuspid regurgitation on long-term survival, 405
Increased left ventricular mass is a risk factor for the development of a depressed left ventricular ejection fraction within five years: the Cardiovascular Health Study, 2207
Left ventricular remodeling
Angina pectoris prior to myocardial infarction protects against subsequent left ventricular remodeling, 1511
Angiotensin receptor blockade improves myocardial beta-adrenergic receptor signaling in postinfarction left ventricular remodeling, 125
Doppler-derived mitral deceleration time as a strong prognostic marker of left ventricular remodeling and survival after acute myocardial infarction, 1466
Severity of left ventricular remodeling defines outcomes and response to therapy in heart failure: Val-HeFT echocardiography data, 2022
Left ventricular systolic dysfunction
Alcohol consumption and prognosis in patients with left ventricular systolic dysfunction after a myocardial infarction, 2015
Efficacy of azimilide in the treatment of atrial fibrillation in the presence of left ventricular systolic dysfunction, 1211
Left ventricular systolic function
Heart failure with preserved left ventricular systolic function, 317
Pulmonary vein isolation for the treatment of atrial fibrillation in patients with impaired systolic function, 1004
Letters to the editor
Angiotensin-converting enzyme inhibitors, beta-blockers, and mortality in systolic heart failure, 1333
Assessment of diastolic function using myocardial velocity gradient, 1724
Characteristics of a great review, 1927
Composite confusion, 1926
From controlled trials to clinical practice: transmyocardial revascularization use and outcomes, 2364
Diuretic use, progressive heart failure, and death in patients with SOLVD, 1723
Embolic complications in Streptococcus viridans endocarditis, 1133
Expression of angiotensin II receptors in human left and right atrial tissue in atrial fibrillation with and without underlying mitral valve disease, 2363
"From bedside to bench," 928
Glycoprotein IIb/IIIa inhibitors and the guidelines for treatment of non-ST-elevation myocardial infarction, 927
Heart disease in diabetes—resist the beginnings, 315
Heart rate recovery after exercise is not demonstrated as a predictor of mortality: maybe after treadmill-exercise, 599
Hemodynamic profiles in heart failure patients, 151
For how long should treatment with clopidogrel be continued after coronary stent implantation, 1331
Is Hippocrates paradox really a paradox?, 505
Magnetic resonance to assess the aortic valve area in aortic stenosis, 2148
Matrix metalloproteinases in atrial fibrillation, 152
Myocardial bridging in adult and pediatric patients with hypertrophic cardiomyopathy is not associated with poor outcome, 1133
Percutaneous coronary intervention before noncardiac surgery: more threat than benefit?, 713
Predictors of left ventricular dysfunction following mitral valve repair for mitral regurgitation, 1925
Pulmonary veins in the substrate for atrial fibrillation: the venous wave hypothesis (editorial), 2290
Pulmonary venous flow by Doppler echocardiography: usefulness of diastolic wave deceleration time in predicting filling pressure, 925
Randomized trial of aspirin on the risk of embolic events in patients with infective endocarditis, 1134
Reactive hyperemia as a test of endothelial or microvascular function?, 2147
Risk of noncardiac surgery in the months following placement of a drug-eluting coronary stent, 713
Statins to reduce risk of depression, 1332
Sympathetic nervous system activation in Chagasic patients with congestive heart failure, 1723
Therapeutic failure or resistance to aspirin, 1332
Therapy of recurrent pericarditis, 2149
Time course of the interaction between tadalaflow and nitrates (letter), 2150
Why is chronic kidney disease the “spoiler” for cardiovascular outcomes: an alternative take from a generalist, 924
Leukocytes
Clopidogrel inhibits platelet-leukocyte interactions and TRAP-induced platelet activation in patients with an acute coronary syndrome, 1982
Levosimendan
Calcium sensitiser levosimendan improves the function of stunned myocardium after percutaneous transluminal coronary angioplasty in acute myocardial ischemia, 2177

Lipoprotein(s)
Optimal LDL is 50 to 70; lower is better and physiologically normal, 2142
Prognostic value of remnant-like lipoprotein particles levels in patients with coronary artery disease and type 2 diabetes mellitus, 2219
Triglyceride-rich lipoprotein remnant levels and metabolism: time to adopt these orphan risk factors?, 2233

Lipoprotein(a)
High lipoprotein(a) levels and small apolipoprotein(a) sizes are associated with endothelial dysfunction in a multiethnic cohort, 1828

Long QT syndrome
Long QT syndrome in neonates, 826

Low-density lipoprotein
effects of loop diuretics on myocardial fibrosis and collagen type I turnover in chronic heart failure, 2028

Low-carbohydrate diet
diet–heart hypothesis: a critique, 731
Low-carbohydrate–high-protein diets, 724

Low-density lipoprotein
Cardiology management improves secondary prevention measures among patients with coronary artery disease, 1517
Optimal LDL is 50 to 70; lower is better and physiologically normal, 2142

Macrophages
Exercise acutely increases circulating endothelial progenitor cells and monocyte/macrophage derived angiogenic cells, 2134

Magnetic resonance angiography
Magnetic resonance angiography is equivalent to x-ray coronary angiography for the evaluation of coronary arteries in Kawasaki disease, 649

Magnetic resonance imaging
Can patients with implantable pacemakers safely undergo magnetic resonance imaging? (editorial), 1325
Cardiac magnetic resonance imaging and Core Cardiology Training II (COCATS-2): can we get there from here?, 2113
Factors associated with impaired clinical status in long-term survivors of tetrology of Fallot repair evaluated by magnetic resonance imaging, 1068
Gadolinium delayed enhancement cardiovascular magnetic resonance correlates with clinical measures of myocardial infarction, 2253
High-resolution transthoracic real-time three-dimensional echocardiography: quantification of cardiac volumes and function using semi-automatic border detection and comparison with cardiac magnetic resonance imaging, 2083
Histological basis of late gadolinium enhancement cardiovascular magnetic resonance in hypertrophic cardiomyopathy, 2260
Magnetic resonance imaging and cardiac pacemaker safety at 1.5-tesla, 1315
Magnetic resonance to assess the aortic valve area in aortic stenosis (letter), 2148
Myocardial infarction after percutaneous transluminal septal myocardial ablation in hypertrophic obstructive cardiomyopathy: evaluation by contrast-enhanced magnetic resonance imaging, 27
Reduction of “no-reflow” phenomenon by intra-aortic balloon counterpulsation in a randomized magnetic resonance imaging experimental study, 1291
Selective peroxisomal proliferator-activated receptor-gamma agonist has an additive effect on plaque regression in combination with simvastatin in experimental atherosclerosis, 464
Training cardiovascular fellows in cardiovascular magnetic resonance and vascular imaging: current status following the Core Cardiovascular Training Symposium (COCATS-2) guidelines, 2108
Visualizing coronary atherosclerosis in vivo: thinking big, imaging small (editorial), 461

Malpractice insurance
Medical malpractice insurance: a multifaceted problem (letter), 2366

Matrix metalloproteinase-9
Matrix metalloproteinase-9 contributes to human atrial remodeling during atrial fibrillation, 818

Matrix metalloproteinases
Matrix metalloproteinases in atrial fibrillation (letter), 152

Meetings
Highlights of the 2003 Transcatheter Cardiovascular Therapeutics annual meeting: clinical implications, 684

Metabolic syndrome
Adiponectin II164T mutation is associated with the metabolic syndrome and coronary artery disease, 1195
Metabolic syndrome amplifies the age-associated increases in vascular thickness and stiffness, 1388
Metabolic syndrome (editorial), 1396
Prognostic value of the metabolic syndrome in essential hypertension, 1817

Metabolism
Triglyceride-rich lipoprotein remnant levels and metabolism: time to adopt these orphan risk factors?, 2233

Minocycline
Minocycline inhibits caspase activation and reactivation, increases the ratio of XIAP to Smac/DIABLO, and reduces the mitochondrial leakage of cytochrome C and Smac/DIABLO, 865

Mitrail annulus
Clinical validity of measuring time difference between onset of mitral inflow and onset of early diastolic mitral annulus velocity in the evaluation of left ventricular diastolic function, 2097
“From bedside to bench” (letter), 928

Mitrail inflow
Clinical validity of measuring time difference between onset of mitral inflow and onset of early diastolic mitral annulus velocity in the evaluation of left ventricular diastolic function, 2097

Mitrail regurgitation
Importance of mitral regurgitation in patients undergoing percutaneous coronary intervention for acute myocardial infarction, 1368
Ischemic mitral regurgitation and ventricular remodeling (editorial), 384
Predictors of left ventricular dysfunction following mitral valve repair for mitral regurgitation (letter), 1925

Prevention of ischemic mitral regurgitation does not influence the outcome of remodeling after posterolateral myocardial infarction, 377
Year in valvular heart disease, 491

Mitrail stenosis
Dobutamine stress echocardiography for noninvasive assessment and risk stratification of patients with rheumatic mitral stenosis, 393
Stress echocardiography in mitral stenosis: when is it useful? (editorial), 402
Year in valvular heart disease, 491

Mitrail valve disease
Expression of angiotensin II receptors in human left and right atrial tissue in atrial fibrillation with and without underlying mitral valve disease (letter), 2363

Mitrail valve repair
Contemporary results of mitral valve repair for infective endocarditis, 386
Predictors of left ventricular dysfunction following mitral valve repair for mitral regurgitation (letter), 1925
Year in valvular heart disease, 491

Mitrail valve replacement
Clinical significance of early thrombosis after prosthetic mitral valve replacement, 1283

Mitrail valve stenosis
Real-time three-dimensional echocardiography for rheumatic mitral valve stenosis evaluation: an accurate and novel approach, 2091

Monocytes
Circulating monocytes and in-stent neointima after coronary stent implantation, 18
Comparative effects of valsartan versus amiodipine on left ventricular mass and reactive oxygen species formation by monocytes in hypertensive patients with left ventricular hypertrophy, 2116
Exercise acutely increases circulating endothelial progenitor cells and monocyte/macrophage derived angiogenic cells, 2134
Monocyte: the key in the lock to reduce stent hyperplasia? (editorial), 24

Mortality
Analysis of mortality events in the Multicenter Automatic Defibrillator Implantation Trial (MADIT-II), 1459
Angiotensin-converting enzyme inhibitors, beta-blockers, and mortality in systolic heart failure (letter), 1333
Diuretic use, progressive heart failure, and death in patients with SOLVD (letter), 1723
Does hospital coronary intervention volume matter in predicting mortality, 1763
Heart rate recovery after exercise is not demonstrated as a predictor of mortality: maybe after treadmill-exercise (letter), 599
Hospital percutaneous coronary intervention volume and patient mortality, 1998 to 2000, 1755
Influence of diabetes and diabetes–gender interaction on the risk of death in patients hospitalized with congestive heart failure, 771
Outcomes in cardiac transplant recipients using allografts from older donors versus mortality on the transplant waiting list, 1553
Postoperative atrial fibrillation and mortality: do the risks merit changes in clinical practice? (editorial), 749
Postoperative atrial fibrillation and mortality after coronary artery bypass surgery, 742
Preprocedural TIMI flow and mortality in patients with acute myocardial infarction treated by primary angioplasty, 1363
Prognostic importance of comorbidity for mortality
in patients with stable coronary artery disease, 576

**Multidetector computed tomography**

Accuracy of multidetector spiral computed tomography in identifying and differentiating the composition of coronary atherosclerotic plaques, 1241

Assessment of coronary remodeling in stenotic and nonstenotic coronary atherosclerotic lesions by multidetector spiral computed tomography, 842

Detection of coronary stenoses by multidetector computed tomography: it's all about resolution (editorial), 84

Diagnostic accuracy of multidetector computed tomography coronary angiography in patients with angiographically proven coronary artery disease, 831

**Multielectrode basket catheter**

Electrophysiological properties of pulmonary veins assessed using a multielectrode basket catheter, 2283

**Multislice spiral computed tomography coronary angiography**

Multislice spiral CT coronary angiography in patients with stable angina pectoris, 2265

**Murine models**

Delayed response to insulin-stimulated fluorine-18 deoxyglucose uptake in glucose transporter-4 null mice hearts, 1690

Osteopontin modulates angiotsin II-induced fibrosis in the intact murine heart, 1698

Peroxisynitride decomposition catalysts prevent myocardial dysfunction and inflammation in endotoxic rats, 2348

Temporal patterns of gene expression after acute hindlimb ischemia in mice, 474

**Myocardial bridging**

Myocardial bridging in adult and pediatric patients with hypertrophic cardiomyopathy is not associated with poor outcome (letter), 1133

**Myocardial contrast echocardiography**

Incremental value of parametric quantitative assessment of myocardial perfusion by triggered low-power myocardial contrast echocardiography, 1807

Myocardial contrast echocardiography with a new calibration method can estimate myocardial viability in patients with myocardial infarction, 1799

Novel application of myocardial contrast echocardiography to evaluate angio genesis by autologous bone marrow cell transplantation in chronic ischemic pig model, 1299

Placing faith in numbers: quantification of perfusion with myocardial contrast echocardiography (editorial), 1814

**Myocardial dysfunction**

Peroxisynitride decomposition catalysts prevent myocardial dysfunction and inflammation in endotoxic rats, 2348

**Myocardial fibrosis**

Effects of loop diuretics on myocardial fibrosis and collagen type I turnover in chronic heart failure, 2028

Myocardial fibrosis and diastolic dysfunction in doxycorticosterone acetate-salt hypertensive rats is ameliorated by the peroxisome proliferator-activated receptor-alpha activator fenofibrate, partly by suppressing inflammatory responses associated with the nuclear factor-kappa-B pathway, 1481

**Myocardial glucose uptake**

Delayed response to insulin-stimulated fluorine-18 deoxyglucose uptake in glucose transporter-4 null mice hearts, 1690

**Myocardial infarction**

See also Non-ST-segment elevation myocardial infarction

Accuracy of dipyridamole myocardial contrast echocardiography for the detection of residual stenosis of the infarct related artery and multivessel disease early after acute myocardial infarction, 2247

Alcohol consumption and prognosis in patients with left ventricular systolic dysfunction after a myocardial infarction, 2015

Angina pectoris prior to myocardial infarction protects against subsequent left ventricular remodeling, 1511

Aspirin dose and six-month outcome after an acute coronary syndrome, 972

Association of a pulsatile blood flow pattern on coronary arteriography and short-term clinical outcomes in acute myocardial infarction, 1170

Does beta-blocker therapy improve clinical outcomes of acute myocardial infarction after successful primary angioplasty?, 1773

Doppler-derived mitral deceleration time as a strong prognostic marker of left ventricular remodeling and survival after acute myocardial infarction, 1646

Early interleukin-1 receptor antagonist elevation in patients with acute myocardial infarction, 35

Effects of nonselective non-aspirin non-steroidal anti-inflammatory medications on the risk of nonfatal myocardial infarction and their interaction with aspirin, 985

Enhancing quality of care for acute myocardial infarction: shifting the focus of improvement from key indicators to process of care and tool use, 2166

Eptifibatide provides additional platelet inhibition in non-ST-elevation myocardial infarction patients already treated with aspirin and clopidogrel, 162

Gadolinium delayed enhancement cardiovascular magnetic resonance correlates with clinical measures of myocardial infarction, 2253

Glycoprotein IIb/IIIa inhibitors and the guidelines for treatment of non-ST-elevation myocardial infarction (letter), 927

Highlights of the 2003 Transcatheter Cardiovascular Therapeutics annual meeting: clinical implications, 684

Hydroxyl radical generation, levels of tumor necrosis factor-a and progression to heart failure after acute myocardial infarction, 2000

Impact of intravenous beta-blockade before primary angioplasty on survival in patients undergoing mechanical reperfusion therapy for acute myocardial infarction, 1780

Importance of mitral regurgitation in patients undergoing percutaneous coronary intervention for acute myocardial infarction, 1368

Improved speed and stability of ST-segment recovery with reduced-dose tenecteplase and eptifibatide compared with full-dose tenecteplase for acute ST-segment elevation myocardial infarction, 549

Infarct resolution, compensatory hypertrophy, and differing patterns of ventricular remodeling following myocardial infarctions of varying size, 2124

Ischemic and viable myocardium in patients with non-Q-wave or Q-wave myocardial infarction and left ventricular dysfunction, 592

Long-term caspase inhibition ameliorates apoptosis, reduces myocardial troponin-I leakage, protects left ventricular function, and attenuates remodeling in rats with myocardial infarction, 295

Myocardial contrast echocardiography with a new calibration method can estimate myocardial viability in patients with myocardial infarction, 1799

Myocardial infarction after percutaneous transluminal septal myocardial ablation in hypertrophic obstructive cardiomyopathy: evaluation by contrast-enhanced magnetic resonance imaging, 27

Myocardial wall thickness predicts recovery of contractile function after primary coronary intervention for acute myocardial infarction, 1489

Natriuretic peptides as predictors of non-sudden and sudden cardiac death after acute myocardial infarction in the beta-blocking era, 757

Noninvasive estimation of left ventricular filling pressure by E/e' is a powerful predictor of survival after acute myocardial infarction, 360

Outcome of acute ST-segment elevation myocardial infarction in diabetics treated with fibriolitic or combination reduced fibrinolytic therapy and platelet glycoprotein IIb/IIIa inhibition, 542

Preprocedural TIMI flow and mortality in patients with acute myocardial infarction treated by primary angioplasty, 1363

Prevention of ischemic mitral regurgitation does not influence the outcome of remodeling after posterolateral myocardial infarction, 377

Primary angioplasty in acute myocardial infarction at hospitals with no surgery on-site (PAMI No SOS) versus transfer to surgical centers for primary angioplasty, 1943

Primary percutaneous coronary intervention at hospitals without on-site cardiac surgery: expanding the use of mechanical reperfusion for acute myocardial infarction (editorial), 1951

Randomized trial comparing myocardial salvage achieved by coronary stenting versus balloon angioplasty in patients with acute myocardial infarction considered ineligible for reperfusion therapy, 734

Rationale and strategies for implementing community-based transfer protocols for primary percutaneous coronary intervention for acute ST-segment elevation myocardial infarction, 2153

Short- and long-term clinical benefit of sirolimus-eluting stents compared to conventional bare stents for patients with acute myocardial infarction, 704

Short- and long-term recovery of left ventricular function predicted at the time of primary percutaneous coronary intervention in anterior myocardial infarction, 534

Year in interventional cardiology, 875

**Myocardial ischemia**

See also Ischemia

Calcium sensitizer levosimendan improves the function of stunned myocardium after percutaneous transluminal coronary angioplasty in acute myocardial ischemia, 2177

**Myocardial perfusion imaging**

Myocardial perfusion imaging following percutaneous coronary intervention, 328
Neonates

- Neonatal heart failure
- Neonatal hyperbilirubinemia
- Neonatal jaundice

Myocardial salvage

- Randomized trial comparing myocardial salvage achieved by coronary stenting versus balloon angioplasty in patients with acute myocardial infarction considered ineligible for reperfusion therapy, 734

Myocardial velocity gradient

- Assessment of diastolic function using myocardial velocity gradient (letter), 1724

Myocardial viability

- Ischemic and viable myocardium in patients with non-Q-wave or Q-wave myocardial infarction and left ventricular dysfunction, 592

Myocardial infarction

- Myocardial contrast echocardiography with a new calibration method can estimate myocardial viability in patients with myocardial infarction, 1799

Myocardial wall thickness

- Myocardial wall thickness predicts recovery of contractile function after primary coronary intervention for acute myocardial infarction, 1489

Myonecrosis

- Aspirin resistance is associated with a high incidence of myonecrosis after non-urgent percutaneous coronary intervention despite clopidogrel pretreatment, 1122

Myopericarditis

- Smallpox vaccination and myopericarditis: a clinical review, 1503

Natriuretic peptides

- Cost-effectiveness of screening with B-type natriuretic peptide to identify patients with reduced left ventricular ejection fraction, 1019

Neointima

- Vascular endothelial growth factor results in neointima, T-lymphocyte inflammation, and platelet glycoprotein IIb/IIIa inhibition, 635

Neonates

- Long QT syndrome in neonates, 826
- Stenting the neonatal arterial duct in duct-dependent pulmonary circulation: new techniques, better results, 107

Neurovascular compression

- Relationship to neurovascular compression to central sympathetic discharge and essential hypertension, 1453

Nitrates

- Time course of the interaction between tadalafil and nitrates (letter), 2150

Noncardiac surgery

- Percutaneous coronary intervention before noncardiac surgery: more threat than benefit? (letter), 713
- Risk of noncardiac surgery in the months following placement of a drug-eluting coronary stent (letter), 715

Non-Q-wave myocardial infarction

- Ischemic and viable myocardium in patients with non-Q-wave or Q-wave myocardial infarction and left ventricular dysfunction, 592

Non-ST-elevation myocardial infarction

- Eptifibatide provides additional platelet inhibition in non-ST-elevation myocardial infarction patients already treated with aspirin and clopidogrel, 985

Nonsteroidal anti-inflammatory drugs

- Case for an adverse interaction between aspirin and non-steroidal anti-inflammatory drugs (editorial), 991
- Effects of nonselective non-aspirin non-steroidal anti-inflammatory medications on the risk of nonfatal myocardial infarction and their interaction with aspirin, 985
- Nonsteroidal anti-inflammatory drugs and cardiovascular risk, 519

No-reflow phenomenon

- Glycoprotein IIb/IIIa inhibitors and no-reflow (editorial), 284
- Reduction of “no-reflow” phenomenon by intra-aortic balloon counterpulsation in a randomized magnetic resonance imaging experimental study, 1291

Nuclear factor-kappaB

- Myocardial fibrosis and diastolic dysfunction in desoxycorticosterone acetate-salt hypertensive rats is ameliorated by the peroxisome proliferator-activated receptor-alpha activator fenofibrate, partly by suppressing inflammatory responses associated with the nuclear factor-kappa-B pathway, 1481

Obesity

- Alterations in left ventricular structure and function in young healthy obese women, 1399
- Exercise training normalizes vascular dysfunction and improves central adiposity in obese adolescents, 1823
- Obesity and suppressed B-type natriuretic peptide levels in heart failure, 1590

Occlusions

- Significant reduction in restenosis following the use of sirolimus-eluting stents in the treatment of chronic total occlusions, 1954

Off-pump coronary artery bypass grafting

See also Coronary artery bypass grafting
- Comparison of short- and long-term outcomes after off-pump and on-pump coronary artery bypass graft surgery with stentomy, 557
- On-pump coronary artery bypass grafting

See also Coronary artery bypass grafting
- Chronicologic distribution of stroke after minimally invasive versus conventional coronary artery bypass, 752
- Comparison of short- and long-term outcomes after off-pump and on-pump coronary artery bypass graft surgery with stentomy, 557

Open-heart surgery

- Utility of B-type natriuretic peptide in predicting postoperative complications and outcomes in patients undergoing heart surgery, 1873

Osteopontin

- Osteopontin modulates angiотensin II-induced fibrosis in the intact murine heart, 1698

Outcomes

- Adverse outcomes from the use of older donor hearts in cardiac transplant recipients (editorial), 1562
- Adverse outcomes in aortic stenosis are associated with coronary artery disease and inflammation, 167
- Akinseia becoming dyskinesia after exercise testing: prevalence and relationship to clinical outcome, 599
- Association of a pulsatile blood flow pattern on coronary arteriography and short-term clinical outcomes in acute myocardial infarction, 1170
- Cholesteryl ester transfer protein (CE(TP) TaqB polymorphism in the Cholesterol and Recurrent Events study: no interaction with the response to pravastatin therapy and no effects on cardiovascular outcome, 854
- Comorbidity and outcome in patients with coronary artery disease (editorial), 583
- Does beta-blocker therapy improve clinical outcomes of acute myocardial infarction after successful primary angioplasty? 1773
- Evaluation of the effect of oral verapamil on clinical outcome and angiographic restenosis after percutaneous coronary intervention, 2160
- Exercise echocardiographic findings and outcome of patients referred for evaluation of dyspnea, 2242
- Frequency and impact of delayed decisions regarding heart transplantation on long-term outcomes in patients with advanced heart failure, 794
- From controlled trials to clinical practice: transmyocardial revascularization use and outcomes (letter), 2364

Hemoglobin level is an independent predictor of adverse cardiovascular outcomes in women undergoing evaluation for chest pain: results from the NHLBI WISE study, 2009

Impact of race on health care utilization and outcomes in veterans with congestive heart failure, 778

Implication of different cardiac troponin I levels for clinical outcomes and prognosis of acute chest pain patients, 958

Importance of increasing age on the presentation and outcome of acute coronary syndromes in elderly patients, 346

Incidence, predictors at admission, and impact of worsening renal function among patients hospitalized with heart failure, 61

Long-term outcome (up to 15 years) of balloon angioplasty of discrete native coarctation of the aorta in adolescents and adults, 1062

Long-term outcomes of cardiac pacing in adults with congenital heart disease, 1894

Myocardial bridging in adult and pediatric patients with hypertrophic cardiomyopathy is not associated with poor outcome (letter), 1133

Outcome of acute ST-segment elevation myocardial infarction in diabetics treated with fibriolotic or combination reduced fibriolotic therapy and platelet glycoprotein IIb/IIIa inhibition, 542

Outcome of patients with double-inlet left ventricle
or transient ischaemia with transposed great arteries, 113
Outcomes in cardiac transplant recipients using allografts from older donors versus mortality on the transplant waiting list, 1553
Prevention of ischemic mitral regurgitation does not influence the outcome of remodeling after postero lateral myocardial infarction, 377
Relative importance of vascular structure and function in predicting cardiovascular events, 616
Severity of left ventricular remodeling defines outcomes and response to therapy in heart failure: Val-HeFT echocardiography data, 2022
Using B-type natriuretic peptide in predicting postoperative complications and outcomes in patients undergoing heart surgery, 1873
Why is aortic sclerosis associated with adverse clinical outcomes? (editorial), 176
Why is chronic kidney disease the “spoiler” for cardiovascular outcomes: an alternative take from a generalist (letter), 924
Outpatients
Outpatient utilization of angiotensin converting enzyme inhibitors among heart failure patients after hospital discharge, 2036
Oxidative stress
Hydroxyl radical generation, levels of tumor necrosis factor-α and progression to heart failure after acute myocardial infarction, 2000
Oxygen consumption
B-type natriuretic peptide and peak exercise oxygen consumption provide independent information for risk stratification in patients with stable congestive heart failure, 1584
Pacemaker
Can patients with implantable pacemakers safely undergo magnetic resonance imaging? (editorial), 1325
Magnetic resonance imaging and cardiac pacemaker safety at 1.5-tesla, 1315
Pacemaker syndrome
High incidence of pacemaker syndrome in patients with sinus node dysfunction treated with VVIR pacing in MOST, 2066
Pacing
Acute comparative effect of right and left ventricular pacing in patients with permanent atrial fibrillation, 234
High incidence of pacemaker syndrome in patients with sinus node dysfunction treated with VVIR pacing in MOST, 2066
Left ventricular mechanics during right ventricular apical or left ventricular-based pacing in patients with chronic atrial fibrillation after atri oventricular junction ablation, 1013
Long-term outcomes of cardiac pacing in adults with congenital heart disease, 1894
Pacing the left ventricle: does underlying rhythm matter? (editorial), 239
Single lead ventricular pacing is no longer an option for sick sinus syndrome, 2072
Stroke and pacing mode: is pacing mode important? (editorial), 1623
Patent foramen ovale
Incidence and clinical course of thrombus formation on atrial septal defect and patent foramen ovale closure devices in 1,000 consecutive patients, 302
Peak oxygen consumption
B-type natriuretic peptide and peak exercise oxygen consumption provide independent information for risk stratification in patients with stable congestive heart failure, 1584
Review
Characteristics of a great review (letter), 1927
Percutaneous coronary interventions
Aspirin resistance is associated with a high incidence of myocardial infarction after non-urgent percutaneous coronary intervention despite clopidogrel pretreatment, 1122
Beta-blocker therapy and primary angioplasty (editorial), 1788
Characteristics of cerebrovascular accidents after percutaneous coronary interventions, 1161
Coronary intervention at hospitals without on-site cardiac surgery: are we pushing the envelope too far? (editorial), 343
Does beta-blocker therapy improve clinical outcomes of acute myocardial infarction after successful primary angioplasty?, 1773
Does hospital coronary intervention volume matter in predicting mortality? (editorial), 1763
Evaluation of the effect of oral verapamil on clinical outcome and angiographic restenosis after percutaneous coronary intervention, 2160
Hospital percutaneous coronary intervention volume and patient mortality, 1998 to 2000, 1755
Impact of delays to cardiac surgery after failed angioplasty and stenting, 337
Impact of intravenous beta-blockade before primary angioplasty on survival in patients undergoing mechanical reperfusion therapy for acute myocardial infarction, 1780
Importance of mitral regurgitation in patients undergoing percutaneous coronary intervention for acute myocardial infarction, 1368
Myocardial perfusion imaging following percutaneous coronary intervention, 328
Myocardial wall thickness predicts recovery of contractile function after primary coronary intervention for acute myocardial infarction, 1489
Optimal glycemic control is associated with a lower rate of target vessel revascularization in treated type II diabetic patients undergoing elective percutaneous coronary intervention, 8
Optimization of glycemic control and restenosis prevention in diabetic patients undergoing percutaneous coronary interventions (editorial), 15
Percutaneous coronary intervention before noncardiac surgery: more threat than benefit? (letter), 713
Primary percutaneous coronary intervention at hospitals without on-site cardiac surgery: expanding the use of mechanical reperfusion for acute myocardial infarction (editorial), 1951
Rationale and strategies for implementing community-based transfer protocols for primary percutaneous coronary intervention for acute ST-segment elevation myocardial infarction, 2153
Routine intravascular ultrasound guidance of percutaneous coronary intervention, 1335
Short-and long-term recovery of left ventricular function predicted at the time of primary percutaneous coronary intervention in anterior myocardial infarction, 534
Stroke after percutaneous coronary interventions (editorial), 1168
Sustained ventricular tachycardia or fibrillation in the cardiac catheterization laboratory among patients receiving primary percutaneous coronary intervention, 1765
Transcatheter valve replacement: a new era of percutaneous coronary intervention begins (editorial), 1088
Percutaneous left atrial appendage transcatheter occlusion
Left atrial structure and function after percutaneous left atrial appendage transcatheter occlusion (PLAATO), 1968
Percutaneous transluminal coronary angioplasty
Calcium sensitizer levosimendan improves the function of stunned myocardium after percutaneous transluminal coronary angioplasty in acute myocardial ischemia, 2177
Composite confusion (letter), 1926
Cutting balloon versus conventional balloon angioplasty for the treatment of in-stent restenosis, 949
Meta-analysis of randomized trials of percutaneous transluminal coronary angioplasty versus atherectomy, cutting balloon athereotomy, or laser angioplasty, 936
Optimal suppression of thromboxane A2 formation by aspirin during percutaneous transluminal coronary angioplasty: no additional effect of a selective cyclooxygenase-2 inhibitor, 526
Palliation of allograft vasculopathy with transluminal angioplasty: a decade of experience, 1973
Percutaneous transluminal septal myocardial ablation
Myocardial infarction after percutaneous transluminal septal myocardial ablation in hypertrophic obstructive cardiomyopathy: evaluation by contrast-enhanced magnetic resonance imaging, 27
Perfusion imaging
Differential diagnosis of cardiac masses using contrast echocardiographic perfusion imaging, 1412
Incremental value of parametric quantitative assessment of myocardial perfusion by triggered low-power myocardial contrast echocardiography, 1807
Placing faith in numbers: quantification of perfusion with myocardial contrast echocardiography (editorial), 1814
Pericardial disease
Transplant constrictive pericarditis: causes and natural history, 271
Pericardiectomy
Constrictive pericarditis: etiology and cause-specific survival after pericardiectomy, 1445
Pericarditis
Constrictive pericarditis: etiology and cause-specific survival after pericardiectomy, 1445
Day-hospital treatment of acute pericarditis, 1042
Therapy of recurrent pericarditis (letter), 2149
Pericardium
Reduced pericardial levels of endostatin correlate with collagenal development in patients with ischemic heart disease, 1383
Perindopril
Mechanism(s) of selective systolic blood pressure reduction after low-dose combination of perindopril/indapamide in hypertensive subjects: comparison with atenolol, 92
Peripheral vascular disease: Highlights of the 2003 Transcatheter Cardiovascular Therapeutics annual meeting: clinical implications, 684

Peroxisomal proliferator-activated receptor-alpha agonist: Myocardial fibrosis and diabetic dysfunction in deoxycorticosterone acetate-salt hypertensive rats is ameliorated by the peroxisome proliferator-activated receptor-alpha agonist fenofibrate, partly by suppressing inflammatory responses associated with the nuclear factor-kappa-B pathway, 1481

Peroxisomal proliferator-activated receptor-gamma agonist: Selective peroxisomal proliferator-activated receptor-gamma agonist has an additive effect on plaque regression in combination with simvastatin in experimental atherosclerosis, 464

Peroxynitrite: Peroxynitrite decomposition catalysts prevent myocardial dysfunction and inflammation in endotoxin rats, 2348

Physicians: Physicians, coverage, quality, and cost: the intertwined caduceus (commentary), 6

Plaque: Accuracy of multidetector spiral computed tomography in identifying and differentiating the composition of coronary atherosclerotic plaques, 1241

Echolucent carotid plaques predict future coronary events in patients with coronary artery disease, 1177

Plaque characterization: surrogate markers or the 'real' thing? (editorial), 1185

Selective peroxisomal proliferator-activated receptor-gamma agonist has an additive effect on plaque regression in combination with simvastatin in experimental atherosclerosis, 464

Platelets: ClpDipogrel inhibits platelet-leukocyte interactions and TRAP-induced platelet activation in patients with an acute coronary syndrome, 1982

Inhibition of platelet aggregation by aspirin progressively decreases in long-term treated patients, 979

Outcome of acute ST-segment elevation myocardial infarction in diabetics treated with fibrinolytic or combination reduced fibrinolytic therapy and platelet glycoprotein Ib/IIa inhibition, 542

Platelets, the cardiologist, and coronary artery disease: moving beyond aggregation, 1989

Release of soluble CD40 ligand from platelets is regulated by GP Ib/IIa and actin polymerization, 2319

Short-term intravenous epinephrine infusion combined with reduced dose recombinant tissue plasminogen activator inhibits platelet recruitment at sites of coronary artery injury, 287

Soluble CD40 ligand and platelets—self-perpetuating pathogenic loop in thrombosis and inflammation?, 2326

Porcine models: Novel application of myocardial contrast echocardiography to evaluate angiogenesis by autologous bone marrow cell transplantation in chronic ischemic pig model, 1299

Pozitron emission tomography: Myocardial positron emission computed tomographic images obtained with fluorine-18 fluoro-2-deoxyglucose predict the response to idiopathic dilated cardiomyopathy patients to beta-blockers, 224

Postmortem molecular screening: Postmortem molecular screening in unexplained sudden death, 1625

Postoperative period: Interventional catheterization performed in the early postoperative period after congenital heart surgery in children, 1264

Potassium: What is the optimal serum potassium level in cardiovascular patients?, 155

Potassium channels: Autonomicity against the second extracellular loop of the beta-adrenergic receptors induces early afterdepolarization and decreases in K-channel density in rabbits, 1090

Pravastatin: Cholesterol ester transfer protein (CETP) TaqB polymorphism in the Cholesterol and Recurrent Events Study: no interaction with the response to pravastatin therapy and no effects on cardiovascular outcome, 854

Preconditioning: Ischemic preconditioning in coronary heart disease: a therapeutic golden fleece? (editorial), 1515

Prescription drugs: Drug repositioning: sitting in the middle, 149

Primary angioplasty: See also Angioplasty

Primary angioplasty in acute myocardial infarction at hospitals with no surgery on-site (PAMI No SOS) versus transfer to surgical centers for primary angioplasty, 1943

Primary pulmonary hypertension: Clinical efficacy of sildenafil in primary pulmonary hypertension, 1149

Primary significance of brain natriuretic peptide in primary pulmonary hypertension, 764

Prosthetic heart valves: Clinical significance of early thrombosis after prosthetic mitral valve replacement, 1283

Early experience with percutaneous transcatheter implantation of heart valve prosthesis for the treatment of end-stage inoperable patients with calcific aortic stenosis, 698

Transesophageal echocardiography improves risk assessment of thromboembolic of prosthetic valve thrombosis: results of the International PRO-TEE Registry, 77

Year in valvular heart disease, 491

Pulmonary atresia: The year in congenital heart disease, 2132

Pulmonary circulation: Stenting the neonatal arterial duct in duct-dependent pulmonary circulation: new techniques, better results, 107

Pulmonary valve replacement: Percutaneous pulmonary valve replacement in a large right ventricular outflow tract, 1082

Transcatheter valve replacement: a new era of percutaneous coronary intervention begins (editorial), 1088

Pulmonary vein isolation: Clinical significance of inducible atrial flutter during pulmonary vein isolation in patients with atrial fibrillation, 2057

Pulmonary vein isolation for atrial fibrillation in low ejection fraction patients: the market is growing (editorial), 1010

Pulmonary vein isolation for the treatment of atrial fibrillation in patients with impaired systolic function, 1004

Pulmonary veins: Electrophysiological properties of pulmonary veins assessed using a multielectrode basket catheter, 2281

Pulmonary veins in the substrate for atrial fibrillation: the "venous wave" hypothesis (editorial), 2290

Pulmonary venous flow: Intravenous pulmonary venous flow and restrictive foramen ovale in fetal hypoplastic left heart syndrome, 1902

Pulmonary venous flow by Doppler echocardiography: usefulness of diastolic wave deceleration time in predicting filling pressure (letter), 925

Pulsatile blood flow pattern: Association of a pulsatile blood flow pattern on coronary arteriography and short-term clinical outcomes in acute myocardial infarction, 1170

QT interval: Heart rate-corrected QT interval prolongation predicts risk of coronary heart disease in black and white middle-aged men and women, 565

QT interval prolongation and prognosis: further validation of the quantitative approach to electrocardiography (editorial), 572

Quality of life: Clinical efficacy of sildenafil in primary pulmonary hypertension, 1149

Effect of rate or rhythm control on quality of life in persistent atrial fibrillation, 241

Quantitative myocardial contrast echocardiography: Effects of glycoprotein IIb/IIIa inhibition on microvascular flow after coronary reperfusion, 276

Quinidine: Short QT syndrome: pharmacological treatment, 1494

Race: See also African Americans

Impact of race on health care utilization and outcomes in veterans with congestive heart failure, 778

Influence of age, gender, and race on the prevalence of depression in heart failure patients, 1542

Racial variation in the prevalence of atrial fibrillation among patients with heart failure, 429

Racing away from bias (editorial), 785

What we're talking about when we talk about race (editorial), 436

Radiofrequency ablation: See also Ablation

Characteristics of virtual unipolar electrograms for detecting infarct block during radiofrequency ablation of typical atrial flutter, 2300

Endocardial and epicardial radiofrequency ablation of ventricular tachycardia associated with dilated cardiomyopathy, 1834

Functional characterization of the crista terminalis in patients with atrial flutter: implications for radiofrequency ablation, 1639

Radiofrequency catheter ablation of type 1 atrial flutter using large-tip 8- or 10-mm electrode catheters and a high-output radiofrequency energy generator, 1466

Ramipril: Effects of ramipril on left ventricular mass and...
function in cardiovascular patients with controlled blood pressure and with preserved left ventricular ejection fraction, 2200

Ranolazine
Anti-ischemic effects and long-term survival during ranolazine monotherapy in patients with chronic severe angina, 1375

Reactive hyperemia
Reactive hyperemia as a test of endothelial or microvascular function? (letter), 2147

Reactive oxygen species
Comparative effects of valsartan versus amldipine on left ventricular mass and reactive oxygen species formation by monocytes in hypertensive patients with left ventricular hypertrophy, 2116

Rehabilitation
Reduction in C-reactive protein through cardiac rehabilitation and exercise training, 1056

Remodeling
Angina pectoris prior to myocardial infarction protects against subsequent left ventricular remodeling, 1606
Angiotensin receptor blockade improves myocardial beta-adrenergic receptor signaling in postinfarction left ventricular remodeling, 125
Assessment of coronary remodeling in stenotic and nonstenotic coronary atherosclerotic lesions by multidetector spiral computed tomography, 862
Cardiac atria are chambers of active remodeling and dynamic collagen turnover during evolving heart failure, 68
Doppler-derived mitral deceleration time as a strong prognostic marker of left ventricular remodeling and survival after acute myocardial infarction, 1646
Infarct resorption, compensatory hypertrophy, and differing patterns of ventricular remodeling following myocardial infarctions of varying size, 2124
Ischemic mitral regurgitation and ventricular remodeling (editorial), 384
Long-term caspase inhibition ameliorates apoptosis, reduces myocardial troponin-I cleavage, protects left ventricular function, and attenuates remodeling in rats with myocardial infarction, 295
Prevention of ischemic mitral regurgitation does not influence the outcome of remodeling after posteroapical myocardial infarction, 377
Severity of left ventricular remodeling defines outcomes and response to therapy in heart failure: Val-HeFT echocardiography data, 2022

Renal artery stenosis
Profile of cardiac patients with renal artery stenosis, 1606
Renal artery stenosis: "fortuitous diagnosis," problematic therapy (editorial), 1614

Renal function
Incidence, predictors at admission, and impact of worsening renal function among patients hospitalized with heart failure, 61

Reperfusion
Primary percutaneous coronary intervention at hospitals without on-site cardiac surgery: expanding the use of mechanical reperfusion for acute myocardial infarction (editorial), 1951
Transient and reversible deoxyribonucleic acid damage in human left ventricle under controlled ischemia and reperfusion, 1992

Reperfusion therapy
Impact of intravenous beta-blockade before primary angioplasty on survival in patients undergoing mechanical reperfusion therapy for acute myocardial infarction, 1780
Randomized trial comparing myocardial salvage achieved by coronary stenting versus balloon angioplasty in patients with acute myocardial infarction considered ineligible for reperfusion therapy, 734

Research
Eptifibatide provides additional platelet inhibition in non-ST-elevation myocardial infarction patients already treated with aspirin and clopidogrel, 162
Optimal glycemic control is associated with a lower rate of target vessel revascularization in treated type II diabetic patients undergoing elective percutaneous coronary intervention, 8

Restenosis
Can we afford to eliminate restenosis?, 513
Cutting balloon versus conventional balloon angioplasty for the treatment of in-stent restenosis, 949
Evaluation of the effect of oral verapamil on clinical outcome and angiographic restenosis after percutaneous coronary intervention, 2160
Hemangioperoxidase-1 genotype and restenosis after balloon angioplasty: a novel protective factor, 950
Highlights of the 2003 Transcatheter Cardiovascular Therapeutics annual meeting: clinical implications, 684
Monocyte: the key in the lock to reduce stent hyperplasia? (editorial), 24
Optimization of glycemic control and restenosis prevention in diabetic patients undergoing percutaneous coronary interventions (editorial), 15
Significant reduction in restenosis following the use of sirolimus-eluting stents in the treatment of chronic total occlusions, 1954

Revascularization
Diabetes mellitus: the major risk factor in unstable coronary artery disease even after consideration of the extent of coronary artery disease and revascularization, 585
Optimal glycemic control is associated with a lower rate of target vessel revascularization in treated type II diabetic patients undergoing elective percutaneous coronary intervention, 8

Rheumatic mitral stenosis
Dobutamine stress echocardiography for noninvasive assessment and risk stratification of patients with rheumatic mitral stenosis, 393

Right atrium
Expression of angiotensin II receptors in human left and right atrial tissue in atrial fibrillation and with and without underlying mitral valve disease (letter), 2363

Right ventricle
Acute comparative effect of right and left ventricular pacing in patients with permanent atrial fibrillation, 234
Left ventricular mechanics during right ventricular apical or left ventricular-based pacing in patients with chronic atrial fibrillation after atrioventricular junction ablation, 1013
Molecular normalization of dystrophin in the failing left and right ventricle of patients treated with either pulsatile or continuous flow-type ventricular assist devices, 811
Systemic ventricular function in patients with transposition of the great arteries after atrial repair: a tissue Doppler and conductance catheter study, 100

Right ventricular outflow tract
Percutaneous pulmonary valve replacement in a large right ventricular outflow tract, 1082

Risk assessment and stratification
B-type natriuretic peptide and peak exercise oxygen consumption provide independent information for risk stratification in patients with stable congestive heart failure, 1584
Cardiovascular risk reduction in hypertensive black patients with left ventricular hypertrophy, 1047
Catheter ablation of atrial fibrillation: what is the best technique for achieving a high cure rate with acceptable risk?, 2054

Clinical and echocardiographic score for assigning risk of major events after dobutamine echocardiograms, 2102

Dobutamine stress echocardiography for noninvasive assessment and risk stratification of patients with rheumatic mitral stenosis, 393
Effect of sleep loss on C-reactive protein, an inflammatory marker of cardiovascular risk, 678

Heart disease risk factors predict erectile dysfunction 25 years later, 1405
Heart rate-corrected QT interval prolongation predicts risk of coronary heart disease in black and white middle-aged men and women, 565
Increased left ventricular mass is a risk factor for the development of a depressed left ventricular ejection fraction within five years: the Cardiovascular Health Study, 2207
Nonsteroidal anti-inflammatory drugs and cardiovascular risk, 519

Predischarge B-type natriuretic peptide assay for identifying patients at high risk of re-admission after decompensated heart failure, 635
Reverse epidemiology of conventional cardiovascular risk factors in patients with chronic heart failure, 1439
Risk of noncardiac surgery in the months following placement of a drug-eluting coronary stent (letter), 713
Risk stratification using stress myocardial perfusion imaging: don’t neglect the value of clinical variables (editorial), 209
Stress myocardial perfusion single-photon emission computed tomography is clinically effective and cost effective in risk stratification of patients with a high likelihood of coronary artery disease (CAD) but no known CAD, 200

Transeosophageal echocardiography improves risk assessment of thrombolysis of prosthetic valve thrombosis: results of the International PRO-TEE Registry, 77

Thyroglycine-rich lipoprotein remnant levels and metabolism: time to adopt these orphan risk factors?, 2233

Risk factors
Assessing low levels of high-density lipoprotein cholesterol as a risk factor in coronary heart disease, 717
Diabetes mellitus: the major risk factor in unstable coronary artery disease even after consideration of the extent of coronary artery disease and revascularization, 585
Novel and traditional cardiovascular risk factors in children with Kawasaki disease, 120
Rostral ventrolateral medulla
Relationship to neurovascular compression to central sympathetic discharge and essential hypertension, 1453

Saphenous vein graft
Severe ostial saphenous vein graft disease leading to acute coronary syndromes following proximal aorto-saphenous anastomoses with the Symmetry Bypass Connector device, 133

Scar thickness
Impact of scar thickness on the assessment of viability using dobutamine echocardiography and thallium single-photon emission computed tomography, 1248

Screenings
Cost-effectiveness of screening with B-type natriuretic peptide to identify patients with reduced left ventricular ejection fraction, 1019
Postmortem molecular screening in unexplained sudden death, 1625
Prognostic value of coronary artery calcium screening in subjects with and without diabetes, 1663

Shocks
Filling the need for new antiarrhythmic drugs to prevent shocks from implantable cardioverter defibrillators (editorial), 44

Short QT syndrome
Short QT syndrome: pharmacological treatment, 678

Shunts
Transcatheter closure of atrial shunts (editorial), 310

Sick sinus syndrome
Predictors of stroke in patients paced for sick sinus syndrome, 1617
Single lead ventricular pacing is no longer an option for sick sinus syndrome, 2072

Sildenafil
Clinical efficacy of sildenafil in primary pulmonary hypertension, 1149
Time course of the interaction between tadalafil and nitrates (letter), 2150

Simvastatin
Selective peroxisomal proliferator-activated receptor-gamma agonist has an additive effect on plaque regression in combination with simvastatin in experimental atherosclerosis, 464

Single-photon emission computed tomography
See also Computed tomography
Assessment of the physiologic significance of coronary disease with dipyridamole real-time myocardial contrast echocardiography, 257
Impact of scar thickness on the assessment of viability using dobutamine echocardiography and thallium single-photon emission computed tomography, 1248
Incremental value of parametric quantitative assessment of myocardial perfusion by triggered low-power myocardial contrast echocardiography, 1807
Risk stratification using stress myocardial perfusion imaging: don’t neglect the value of clinical variables (editorial), 209
Stress myocardial perfusion single-photon emission computed tomography is clinically effective and cost effective in risk stratification of patients with a high likelihood of coronary artery disease (CAD) but no known CAD, 200

Sinus node dysfunction
High incidence of pacemaker syndrome in patients with sinus node dysfunction treated with VVIR pacing in MOST, 2066

Sirolimus-eluting stents
Canadian study of the sirolimus-eluting stent in the treatment of patients with long de novo lesions in small native coronary arteries (C-SIRIUS), 1110
Impact of final stent dimensions on long-term results following sirolimus-eluting stent implantation, 1959
Short- and long-term clinical benefit of sirolimus-eluting stents compared to conventional bare stents for patients with acute myocardial infarction, 704
 Significant reduction in restenosis following the use of sirolimus-eluting stents in the treatment of chronic total occlusions, 1954
Sirolimus-eluting stents: does a great stent still need a good interventionalist (editorial), 1116
Treatment of multivessel coronary artery disease with sirolimus-eluting stent implantation: immediate and mid-term results, 1154

Sleep deprivation
Effect of sleep loss on C-reactive protein, an inflammatory marker of cardiovascular risk, 209
Smac/DIABLO
Mnocyline inhibits caspase activation and reactivation, increases the ratio of XIAP to Smac/DIABLO, and reduces the mitochondrial leakage of cytochrome C and Smac/DIABLO, 865

Smallpox
Smallpox vaccination and myopericarditis: a clinical review, 1503

Smoking
Pathophysiology of cigarette smoking and cardiovascular disease, 1731

Statins
Statin therapy is associated with improved survival in ischemic and non-ischemic heart failure, 642
Statins to reduce risk of depression (letter), 1132

Stenosis
See also Restenosis
Accuracy of dipyridamole myocardial contrast echocardiography for the detection of residual stenosis of the infarct related artery and multivessel disease early after acute myocardial infarction, 2247
Assessment of coronary remodeling in stenotic and nonstenotic coronary atherosclerotic lesions by multidetector spiral computed tomography, 842
Profile of cardiac patients with renal artery stenosis, 1606
Real-time three-dimensional echocardiography for rheumatic mitral valve stenosis evaluation: an accurate and novel approach, 2091
Renal artery stenosis: “fortuitous diagnosis,” problematic therapy (editorial), 1614
Severe bilateral carotid stenosis, 1358

Stents and stenting
Can we afford to eliminate restenosis?, 513
Canadian study of the sirolimus-eluting stent in the treatment of patients with long de novo lesions in small native coronary arteries (C-SIRIUS), 1110
Circulating monocytes and in-stent neointima after coronary stent implantation, 18
Combined stenting versus balloon angioplasty in small vessels, 1964

Don’t blame the stents (editorial), 1355
First human experience with the 17-beta-estradiol-eluting stent, 1118
Highlights of the 2003 Transcatheter Cardiovascular Therapeutics annual meeting: clinical implications, 684
For how long should treatment with clopidogrel be continued after coronary stent implantation (letter), 1331
Impact of delays to cardiac surgery after failed angioplasty and stenting, 337
Impact of final stent dimensions on long-term results following sirolimus-eluting stent implantation, 1959
Intracranial hemorrhage and hyperperfusion syndrome following carotid artery stenting, 1596
Randomized trial comparing myocardial salvage achieved by coronary stenting versus balloon angioplasty in patients with acute myocardial infarction considered ineligible for reperfusion therapy, 734
Risk of noncardiac surgery in the months following placement of a drug-eluting coronary stent (letter), 713
Severe bilateral carotid stenosis, 1358
Short- and long-term clinical benefit of sirolimus-eluting stents compared to conventional bare stents for patients with acute myocardial infarction, 704
Short- and long-term results after multivessel stenting in diabetic patients, 1348
Significant reduction in restenosis following the use of sirolimus-eluting stents in the treatment of chronic total occlusions, 1954
Sirolimus-eluting stents: does a great stent still need a good interventionalist (editorial), 1116
Stenting the neonatal arterial duct in duct-dependent pulmonary circulation: new techniques, better results, 107
Treatment of multivessel coronary artery disease with sirolimus-eluting stent implantation: immediate and mid-term results, 1154
Year in interventional cardiology, 875

Sternotomy
Comparison of short- and long-term outcomes after off-pump and on-pump coronary artery bypass graft surgery with sternotomy, 557
Streptococcus viridans endocarditis
Embolic complications in Streptococcus viridans endocarditis (letter), 1133

Stress echocardiography
Clinical and echocardiographic score for assigning risk of major events after dobutamine echocardiograms, 2102
Dobutamine stress echocardiography for noninvasive assessment and risk stratification of patients with rheumatic mitral stenosis, 393
Impact of scar thickness on the assessment of viability using dobutamine echocardiography and thallium single-photon emission computed tomography, 1248
Stress echocardiography in mitral stenosis: when is it useful? (editorial), 402

Stress myocardial perfusion imaging
Risk stratification using stress myocardial perfusion imaging: don’t neglect the value of clinical variables (editorial), 209
Stress myocardial perfusion single-photon emission computed tomography is clinically effective and cost effective in risk stratification of patients with a high likelihood of coronary artery disease (CAD) but no known CAD, 200
Stress testing
Akinesia becoming dyskinesia after exercise testing: prevalence and relationship to clinical outcome, 599
Treadmill scores in elderly men, 606

Stroke
Characteristics of cerebrovascular accidents after percutaneous coronary interventions, 1161
Chronologic distribution of stroke after minimally invasive versus conventional coronary artery bypass, 752
Comparing the guidelines: anticoagulation therapy to optimize stroke prevention in patients with atrial fibrillation, 929
Predictors of stroke in patients paced for sick sinus syndrome, 1617
Stroke after percutaneous coronary interventions (editorial), 1168
Stroke and pacing mode: is pacing mode important? (editorial), 1623

ST-segment
Improved speed and stability of ST-segment recovery with reduced-dose tenecteplase and epibatidine compared with full-dose tenecteplase for acute ST-segment elevation myocardial infarction, 549
ST-segment elevation myocardial infarction
Improved speed and stability of ST-segment recovery with reduced-dose tenecteplase and epibatidine compared with full-dose tenecteplase for acute ST-segment elevation myocardial infarction, 549
Outcome of acute ST-segment elevation myocardial infarction in diabetics treated with fibrinolytic or combination reduced fibrinolytic therapy and platelet glycoprotein IIb/IIIa inhibition, 542
Rationale and strategies for implementing community-based transfer protocols for primary percutaneous coronary intervention for acute ST-segment elevation myocardial infarction, 2153

Stunned myocardium
Calcium sensitizer levosimendan improves the function of stunned myocardium after percutaneous transluminal coronary angioplasty in acute myocardial ischemia, 2177

Sudden cardiac death
Analysis of mortality events in the Multicenter Automatic Defibrillator Implantation Trial (MADIT-II), 1459
Long-term subthreshold electrical stimulation of the left stellate ganglion and a canine model of sudden cardiac death, 858
Natriuretic peptides as predictors of non-sudden and sudden cardiac death after acute myocardial infarction in the beta-blocking era, 757
Postmortem molecular screening in unexplained sudden death, 1625
Sudden death in patients without structural heart disease, 1137

Surgery
See also Ablation; Cardiac surgery; Coronary artery bypass grafting; Radiofrequency ablation
Predictors of new malignant ventricular arrhythmias after coronary surgery, 1630
Surgery, angioplasty, or medical therapy for symptomatic multivessel coronary artery disease (editorial), 1752
Year in cardiovascular surgery, 1706
Symmetry Bypass Connector
Severe ostial saphenous vein graft disease leading to acute coronary syndromes following proximal aorto-arterial anastomoses with the Symmetry Bypass Connector device, 133

Symptomatic nervous system
Symptomatic nervous system activation in Chagasic patients with congestive heart failure (letter), 1723

Systolic blood pressure
Influence of pretreatment systolic blood pressure on the effect of carvedilol in patients with severe chronic heart failure, 1423
Mechanism(s) of selective systolic blood pressure reduction after low-dose combination of perindopril/indapamide in hypertensive subjects: comparison with atenolol, 92

Systolic function
Patients with a hypertensive response to exercise have impaired systolic function without diastolic dysfunction or left ventricular hypertrophy, 848
Pulmonary vein isolation for the treatment of atrial fibrillation in patients with impaired systolic function, 1004

Systolic heart failure
Angiotensin-converting enzyme inhibitors, beta-blockers, and mortality in systolic heart failure (letter), 1333
Plasma B-type natriuretic peptide levels in systolic heart failure, 416

T cells
Neocangiogenesis, T-lymphocyte infiltration, and heat shock protein-60 are biological hallmarks of an immunomodulated inflammatory process in end-stage calcified aortic valve stenosis, 1670

Tachycardias
Amizdlide decreases recurrent ventricular tachycardias in patients with implantable cardioverter deffibrillators, 39

Tachycardia
See also Atrial tachycardia; Ventricular tachycardia
Clinical course of atrial ectopic tachycardia is age-dependent: results and treatment in children 3 or 3 years of age, 438
Glucose-insulin infusion improves cardiac function during fetal tachycardia, 445
Tadalaf
Time course of the interaction between tadalafil and nitrates (letter), 2150

Technetium-99m sestamibi
Assessment of the physiologic significance of coronary disease with dipyridamole real-time myocardial contrast echocardiography, 257
Technetium 99m sestamibi myocardial perfusion imaging predicts clinical outcome in the community outpatient setting, 213

Tenecteplase
Improved speed and stability of ST-segment recovery with reduced-dose tenecteplase and epibatidine compared with full-dose tenecteplase for acute ST-segment elevation myocardial infarction, 549

Tetralogy of Fallot
Factors associated with impaired clinical status in long-term survivors of tetralogy of Fallot repair evaluated by magnetic resonance imaging, 1676

The year in congenital heart disease, 2132

Thallium single-photon emission computed tomography
Impact of scar thickness on the assessment of viability using dobutamine echocardiography and thallium single-photon emission computed tomography, 1248

Thrombin receptor agonist peptide
Clopantide inhibits platelet-leukocyte interactions and TRAP-induced platelet activation in patients with an acute coronary syndrome, 1982

Thrombolysis In Myocardial Infarction flow
Preprocedural TIMI flow and mortality in patients with acute myocardial infarction treated by primary angioplasty, 1363

Thrombosis
Clinical significance of early thrombosis after prosthetic mitral valve replacement, 1283
Soluble CD40 ligand and platelets—self-perpetuating pathogenic loop in thrombosis and inflammation?, 2326

Transesophageal echocardiography improves risk assessment of thrombolysis of prosthetic valve thrombosis: results of the International PRO-TEE Registry, 77

Thrombosis A2
Optimal suppression of thrombosis A2 formation by aspirin during percutaneous transcutaneous coronary angioplasty: no additional effect of a selective cyclooxygenase-2 inhibitor, 526

Thrombus
Incidence and clinical course of thrombus formation on atrial septal defect and patent foramen ovale closure devices in 1,000 consecutive patients, 302
Left atrial thrombus associated with ablation for atrial fibrillation: identification with intracardiac echocardiography, 1861

Thymidine kinase
Powerful and controllable angiogenesis by using gene-modified cells expressing human hepatocyte growth factor and thymidine kinase, 1915

Tissue Doppler imaging
Noninvasive estimation of left ventricular filling pressure by E/e' is a powerful predictor of survival after acute myocardial infarction, 360
Systemic ventricular function in patients with transposition of the great arteries after atrial repair: a tissue Doppler and conductance catheter study, 100
Tissue Doppler imaging predicts recovery of left ventricular function after recalization of an occluded coronary artery, 187

Tissue plasminogen activator
Short-term intravenous epibatidine infusion combined with reduced dose recombinant tissue plasminogen activator inhibits platelet recruitment at sites of coronary artery injury, 287

Training
Training cardiovascular fellows in cardiovascular magnetic resonance and vascular imaging: current status following the Core Cardiovascular Training Symposium (COCATS-2) guidelines, 2108

Transesophageal echocardiography
Economic analysis of a transoesophageal echocardiography-guided approach to cardioversion of patients with atrial fibrillation, 1217
Economic implications of transoesophageal echocardiography-guided cardioversion of atrial fibrillation (editorial), 1225
Transoesophageal echocardiography improves risk assessment of thrombolysis of prosthetic valve thrombosis: results of the International PRO-TEE Registry, 77

Transmyocardial revascularization
From controlled trials to clinical practice:
Transplantation
Angiotensin II receptors from peritransplantation through first-year post-transplantation and the risk of transplant coronary artery disease, 1565
Frequency and impact of delayed decisions regarding heart transplantation on long-term outcomes in patients with advanced heart failure, 794
Glucose intolerance as reflected by hemoglobin A1c level, is associated with the incidence and severity of transplant coronary artery disease, 1034
Heart transplantation: the increasing challenges of evidence-based decision-making (editorial), 803
Novel application of myocardial contrast echocardiography to evaluate angiogenesis by autologous bone marrow cell transplantation in chronic ischemic pig model, 1299
Selection of patients for heart transplantation in the current era of heart failure therapy, 787
Transplantation of cardiotrophin-1-expressing myoblasts to the left ventricular wall alleviates the transition from compensatory hypertrophy to congestive heart failure in Dahl salt-sensitive hypertensive rats, 2337

Transposition of the great arteries
Outcome of patients with double-inlet left ventricle or tricuspid atresia with transposed great arteries, 113
Systemic ventricular function in patients with transposition of the great arteries after atrial repair: a tissue Doppler and conductance catheter study, 100
The year in congenital heart disease, 2132

Transhoracic Doppler echocardiography
Enhanced coronary flow velocity during intra-aortic balloon pumping assessed by transthoracic Doppler echocardiography, 368

Triglyceride metabolism
High-resolution transthoracic real-time threedimensional echocardiography: quantification of cardiac volumes and function using semi-automatic border detection and comparison with cardiac magnetic resonance imaging, 2083

Tricuspid atresia
Outcome of patients with double-inlet left ventricle or tricuspid atresia with transposed great arteries, 113

Tricuspid regurgitation
Impact of tricuspid regurgitation on long-term survival, 405

Triglyceride lipolysis
Impaired intravascular triglyceride lipolysis constitutes a marker of clinical outcome in patients with stable angina under secondary prevention treatment: a long-term follow-up, 2225

Triglycerides
Triglyceride-rich lipoprotein remnant levels and metabolism: time to adopt these orphan risk factors?, 2233

Troponin-I
Implication of different cardiac troponin I levels for clinical outcomes and prognosis of acute chest pain patients, 958
Long-term caspase inhibition ameliorates apoptosis, reduces myocardial troponin-I cleavage, protects left ventricular function, and attenuates remodeling in rats with myocardial infarction, 295
Tumor necrosis factor-α
Hydroxyl radical generation, levels of tumor necrosis factor-α and progression to heart failure after acute myocardial infarction, 2000

Ultrason

Unfractionated heparin
Administration of epifibatide to acute coronary syndrome patients receiving enoxaparin or unfractionated heparin, 966

Unstable angina
Diabetes mellitus: the major risk factor in unstable coronary artery disease even after consideration of the extent of coronary artery disease and revascularization, 585

Vaccinations
Smallpox vaccination and myopericarditis: a clinical review, 1503

Valsartan
Comparative effects of valsartan versus amlopidine on left ventricular mass and reactive oxygen species formation by monocytes in hypertensive patients with left ventricular hypertrophy, 2116

Valvular heart disease
Year in valvular heart disease, 491

Vascular dysfunction
Exercise training normalizes vascular dysfunction and improves central adiposity in obese adolescents, 1823

Vascular endothelial growth factor
Cellular, but not direct, adenosine delivery of vascular endothelial growth factor results in improved left ventricular function and neovascularization in dilated ischemic cardiomyopathy, 1908

Vascular structure
Relative importance of vascular structure and function in predicting cardiovascular events, 616
Vascular structure versus function: is endothelial dysfunction of independent prognostic importance or not? (editorial), 624

Vasculopathy
Impact of mode of donor brain death on cardiac allograft vasculopathy, 806
Palliation of allograft vasculopathy with transluminal angioplasty: a decade of experience, 1973

Vasodilation
Impaired brachial artery endothelium-dependent and -independent vasodilation in men with erectile dysfunction and no other clinical cardiovascular disease, 179

Ventricles
See Left ventricle; Right ventricle

Ventricular arrhythmias
Gender differences in ventricular arrhythmias in patients with coronary artery disease and implantable cardioverter-defibrillators, 2293

Ventricular assist devices
Molecular normalization of dystrophin in the failing left and right ventricle of patients treated with either pulsatile or continuous flow-type ventricular assist devices, 811

Ventricular fibrillation
Effects of biphasic waveform design on post-resuscitation myocardial function, 1228
Mode of initiation and ablation of ventricular fibrillation storms in patients with ischemic cardiomyopathy, 1715
Predictors of new malignant ventricular arrhythmias after coronary surgery, 1630
Sudden death in patients without structural heart disease, 1137
Sustained ventricular tachycardia or fibrillation in the cardiac catheterization laboratory among patients receiving primary percutaneous coronary intervention, 1765

Ventricular pacing
Single lead ventricular pacing is no longer an option for sick sinus syndrome, 2072

Ventricular remodeling
Infarct resorption, compensatory hypertrophy, and differing patterns of ventricular remodeling following myocardial infarctions of varying size, 2124

Ventricular septal defects
Device closure of muscular ventricular septal defects using the Amplatzer muscular ventricular septal defect occluder, 1257
The year in congenital heart disease, 2132

Ventricular tachyrhythmias
Azimilide decreases recurrent ventricular tachyrhythmias in patients with implantable cardioverter defibrillators, 39

Ventricular tachycardia
Endocardial and epicardial radiofrequency ablation of ventricular tachycardia associated with dilated cardiomyopathy, 1834
Predictors of new malignant ventricular arrhythmias after coronary surgery, 1630
Sustained ventricular tachycardia or fibrillation in the cardiac catheterization laboratory among patients receiving primary percutaneous coronary intervention, 1765

Verapamil
Evaluation of the effect of oral verapamil on clinical outcome and angiographic restenosis after percutaneous coronary intervention, 2160

Vitamin C
Long-term effect of combined vitamins E and C on coronary and peripheral endothelial function, 629

Vitamin E
Long-term effect of combined vitamins E and C on coronary and peripheral endothelial function, 629

Volunteerism
Power of volunteerism, 1101

Women
See also Gender
Alterations in left ventricular structure and function in young healthy obese women, 1399
Evidence-based guidelines for cardiovascular disease prevention in women, 900
Heart rate-corrected QQ interval prolongation predicts risk of coronary heart disease in black and white middle-aged men and women, 565
Hemoglobin level is an independent predictor of adverse cardiovascular outcomes in women undergoing evaluation for chest pain: results from the NHLBI WISE study, 2009
Ischemic heart disease in women: facts and wishful thinking, 1727

XIAP
Minocycline inhibits caspase activation and reactivation, increases the ratio of XIAP to Smac/DIABLO, and reduces the mitochondrial leak of cytochrome C and Smac/DIABLO, 865