Subject Index: Volume 39

Ablation
See also Surgery
Influence of patient factors and ablative technologies on outcomes of radiofrequency ablation of intra-atrial re-entrant tachycardia in patients with congenital heart disease, 1827
Intracardiac echocardiography-guided, anatomically-based radiofrequency ablation of focal atrial fibrillation originating from pulmonary veins, 1964
Is electrical stimulation during administration of catecholamines required for the evaluation of success after ablation of atriventricular node re-entrant tachycardia?, 689
Left atrial versus bi-atrial maze operation using intraoperatively cooled-tip radiofrequency ablation in patients undergoing open-heart surgery, 1644
Lesional tachycardias related to mitral valve surgery, 1973
Noncontact mapping to guide ablation of right ventricular outflow tract tachycardia, 1808
Three-dimensional nonfluoroscopic mapping and ablation of inappropriate sinus tachycardia, 1046

ACC
ACC/AHA guideline update for periprocedural cardiovascular evaluation for noncardiac surgery: endovascular surgery, cumulative, 542
ACC revised recommendations for training in adult cardiovascular medicine core cardiovascular training II (COCATS 2) (Revision of the 1995 COCATS Training Statement), 1242
Newly elected members of the college, 1080
New year, new editor, new location, new format, new world (editor's page), 177

ACC News
Newly elected members of the college, 1080
Presidential Address: citizens of the world, 1411
President's page: citizens of the world, 1411
President's page: cardiology, 1973
President's page: patients undergoing open-heart surgery, 1644
President's page: the making of a president, 1078
President's page: the ACC and advocacy: a strong voice in cardiac politics, 1699
President's page: there’s already a shortage, and it’s getting worse!, 2077

Acetylcholine receptors
Relationship of myocardial remodeling to the genesis of slow conduction in chronic heart failure in hypertrophied rat myocardium, 1238

Action potential
Action potential duration restitution kinetics in human atrial fibrillation, 1329

Activator protein-1
Decoy oligodeoxynucleotide against activator protein-1 reduces neointimal proliferation after coronary angioplasty in hypercholesterolemic minipigs, 732

Acute coronary events
Soluble intercellular adhesion molecule-1 and long-term risk of acute coronary events in patients with chronic coronary heart disease, 1153

Acute coronary syndromes
Early angioplasty in acute coronary syndromes without persistent ST-elevation improves outcome, but increases need for 6 month repeat recanalization. An analysis of the PURSUIT-trial, 1924
Effects of acute hormone therapy on recurrent ischemia in postmenopausal women with unstable angina, 231
Nitric oxide production by neutrophils obtained from patients during acute coronary syndromes: expression of the nitric oxide synthase isoforms, 818
Prognostic significance of immune activation after acute coronary syndromes (letter), 1878
Prognostic value of creatine kinase elevations extends across the whole spectrum of acute coronary syndromes, 22
Randomized comparison of direct stenting with conventional stent implantation in selected patients with acute myocardial infarction, 15
Rebound thrombin generation after heparin therapy in unstable angina, 811
Transient left ventricular apical ballooning without coronary artery stenosis: a form of stunning-like phenomenon? (letter), 741
Troponin T in acute coronary syndromes: mechanisms and management issues (letter), 1404

Acute myocardial infarction
See Myocardial infarction
Adenosine triphosphate-sensitive potassium channel
Pharmacologic preconditioning of estrogen by activation of the myocardial adenosine triphosphate-sensitive potassium channel in patients undergoing coronary angioplasty, 871

African Americans
Presence of African American race predicts improvement in coronary endothelial function after supplementary L-arginine, 1314

Age and aging
See Elderly; Pediatric cardiology

Air pollution
Air pollution as a cause of heart disease (editorial), 1046
Primary angioplasty and selection bias in patients with acute coronary syndromes: expression of the nitric oxide synthase isoforms, 818

Aneurysms
Congenital ductus arteriosus aneurysm (editorial), 342
Isolated neonatal ductus arteriosus aneurysm, 342
Predictors of aneurysmal formation after surgical correction of aortic coarctation, 617

Angina pectoris
Coronary microvascular spasm causes myocardial ischemia in patients with vasospastic angina, 947
C-reactive protein and angiographic coronary artery disease: independent and additive predictors of risk in subjects with angina, 632
Early angioplasty in acute coronary syndromes without persistent ST-elevation improves outcome, but increases need for 6 month repeat recanalization. An analysis of the PURSUIT-trial, 1924
Effects of acute hormone therapy on recurrent ischemia in postmenopausal women with unstable angina, 231
Estrogen therapy for unstable angina (editorial), 238
Increased plasma levels of the soluble form of Fas ligand in patients with acute myocardial infarction and unstable angina pectoris, 585
Limited role of coronary angioplasty and stenting in coronary spastic angina with organic stenosis, 1120

Aneurysms

Angiogenesis
Comparison of mechanical and laser transmyocardial revascularization for induction of angiogenesis and arteriogenesis in chronically ischemic myocardium, 1220

Anesthesiology

Anemia
Anemia is associated with worse symptoms, greater impairment in functional capacity and a significant increase in mortality in patients with advanced heart failure, 1780

Anisotropy

Amlodipine
Vascular remodeling during healing after myocardial infarction in the dog model, 1538

Anasarca
Anasarca and low electrocardiogram voltage (letter), 742

Angiography
Abstracts, 1A
Angiographic plaque complexity: the tip of the  
untangle plaque iceberg (editorial), 1464

C-reactive protein and angiographic coronary artery  
disease: independent and additive predictors  
of risk in subjects with angina, 632

Evaluation of carotid artery and aortic  
intima-media thickness measurements for  
exclusion of significant coronary  
atherosclerosis in patients scheduled for heart  
valve surgery, 1139

Gadolinium-enhanced three-dimensional magnetic  
resonance angiography of pulmonary and  
systemic venous anomalies, 335

Impact of lesion length and reference vessel  
diameter on angiographic restenosis and target  
vessel revascularization in treating in-stent  
restenosis with radiation, 1290

Quantitative angiographic methods for appropriate  
equipartition analysis, edge-effect evaluation, and  
prediction of recurrent restenosis after  
coronary brachytherapy with gamma  
irradiation, 274

Revisiting the culprit lesion in non-Q-wave  
myocardial infarction: results from the  
VANQISH Trial Angiographic Core  
Laboratory, 1456

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

Angiotensin-converting enzyme  
Activation of vascular time angiotensin-converting  
enzyme (ACE) in heart failure (editorial), 776

Angiotensin-converting enzyme inhibitors  
See also specific agent

Activation of vascular time angiotensin-converting  
enzyme (ACE) in heart failure (editorial), 776

Addition of spironolactone to angiotensin- 
converting enzyme inhibition in heart failure  
improves endothelial vasomotor dysfunction,  
351

Angiotensin receptor blockers in heart failure:  
meta-analysis of randomized controlled trials,  
463

Comparison of the effects of an angiotensin- 
converting enzyme inhibitor and a  
vasopeptide inhibitor after myocardial infarction  
in the rat, 1692

Evidence-based evaluation of calcium channel  
blockers in hypertension, 315

Gradual reactivation over time of vascular time  
angiotensin I to angiotensin II conversion  
during chronic lisinopril therapy in chronic  
heart failure, 767

Neurohormonal and clinical responses to high- 
versus low-dose enalapril therapy in chronic  
heart failure, 70

Neurohormonal blockade in chronic heart failure  
(editorial), 79

Radial, carotid and aortic distensibility in congestive  
heart failure: effects of high-dose angiotensin- 
converting enzyme inhibitor or low-dose  
association with angiotensin type 1 receptor  
blockade, 1275

Angiotensin I  
Gradual reactivation over time of vascular time  
angiotensin I to angiotensin II conversion  
during chronic lisinopril therapy in chronic  
heart failure, 767

Angiotensin II receptor blockers  
Radial, carotid and aortic distensibility in congestive  
heart failure: effects of high-dose angiotensin- 
converting enzyme inhibitor or low-dose  
association with angiotensin type 1 receptor  
blockade, 1275

Angiotensin II  
Gradual reactivation over time of vascular time  
angiotensin I to angiotensin II conversion  
during chronic lisinopril therapy in chronic  
heart failure, 767

Angiotensin II receptor blockers  
Angiotensin II receptor blockade does not improve  
left ventricular function and remodeling in  
subacute mitral regurgitation in the dog, 1374

Angiotensin receptor blockers in heart failure:  
meta-analysis of randomized controlled trials,  
463

Antibiotics  
Risk of embolization after institution of antibiotic  
therapy for infective endocarditis, 1489

Anticoagulation  
Embolic events in patients with atrial fibrillation  
and effective anticoagulation: value of trans-
ersophageal echocardiography to guide direct-
current cardioversion, 1436

Antioxidants  
Antioxidant N-2-mercapto 
propionyl glycine  
attenuates left ventricular hypertrophy in  
in vivo murine pressure overload model, 907

Postprandial endothelial activation in healthy  
subjects and in type 2 diabetic patients: role of  
fatty and carbohydrate meals, 1145

Antisense oligonucleotides  
Intramuscular coronary delivery of advanced antisense  
oligonucleotides reduces neointimal formation  
in the porcine stent restenosis model, 1686

Local intra coronary administration of antisense  
oligonucleotide against c-myc for the  
preservation of in-stent restenosis, 281

Aorta  
Evaluation of carotid artery and aortic  
intima-media thickness measurements for  
exclusion of significant coronary  
atherosclerosis in patients scheduled for heart  
valve surgery, 1139

Management of aortic intramural hematoma  
(letter), 180

Predictors of aneurysmal formation after surgical  
correction of aortic coarctation, 617

Radial, carotid and aortic distensibility in congestive  
heart failure: effects of high-dose angiotensin-
converting enzyme inhibitor or low-dose  
association with angiotensin type 1 receptor  
blockade, 1275

Aortic aneurysm  
Predictors of aneurysmal formation after surgical  
correction of aortic coarctation, 617

Aortic arch  
Transcutaneous detection of aortic arch atheromas  
by suprasternal harmonic imaging, 1127

Aortic sinus cusp  
Repetitive monomorphic ventricular tachycardia  
originating from the aortic sinus cusp, 300

Aortic stenosis  
Survival after aortic valve replacement for severe  
aortic stenosis with low transvalvular gradients  
and severe left ventricular dysfunction, 1356

Ventricular function in aortic stenosis: how low can  
you go? (editorial), 1364

Aortic valve  
Abstracts, 461A

Progression of human aortic valve stenosis is  
associated with tenasin-C expression, 96

Survival after aortic valve replacement for severe  
aortic stenosis with low transvalvular gradients  
and severe left ventricular dysfunction, 1356

Usefulness of the Cryolife O’Brien stentless  
supravalvular aortic valve to prevent prosthesis-
patient mismatch in the small aortic root,  
1845

Apical hypertrophic cardiomyopathy  
Long-term outcome in patients with apical  
hypertrophic cardiomyopathy, 638

Apoptosis  
Aortic arch  
Apoptotic pathway activation from mitochondria  
and death receptors without caspase-3  
 cleavage in failing human myocardium, 481

Severe energy deprivation of human hibernating  
myocardium as possible common,  
pathomechanism of contractile dysfunction,  
structural degeneration and cell death, 1189

Time courses of apoptosis and cell proliferation and  
their relationship to arterial remodeling and  
restenosis after angioplasty in an  
atherosclerotic rabbit model, 1680

L-Arginine  
Effect of supplemental L-arginine on tolerance  
development during continuous transdermal  
nitroglycerin therapy, 1157

Oral L-arginine (and other active ingredients) for  
ischemic heart disease? (editorial), 46

Presence of African American race predicts  
improvement in coronary endothelial function  
after supplementary L-arginine, 1314

Randomized trial of a medical food for the dietary  
management of chronic, stable angina, 37

Arrhythmias  
See also Atrial fibrillation; Atrial flutter;  
Tachycardia; Ventricular fibrillation

Abstracts, 77A

Inter-relations among declines in arterial  
distensibility, baroreflex function and  
respiratory sinus arrhythmia, 1524

Origin of ischemia-induced phase 1b ventricular  
arrhythmias in pig hearts, 166

Arteriogenic right ventricular  
dysplasia/cardiomypathy  
Detection of cardiotoxic viruses in the myocardium  
of patients with arteriogenic right  
ventricular dysplasia/cardiomypathy, 892

Arterial distensibility  
Inter-relations among declines in arterial  
distensibility, baroreflex function and  
respiratory sinus arrhythmia, 1524

Radial, carotid and aortic distensibility in congestive  
heart failure: effects of high-dose angiotensin-
converting enzyme inhibitor or low-dose  
association with angiotensin type 1 receptor  
blockade, 1275

Arterial pressure  
Ischemia-induced phase 1b ventricular  
arrhythmias in pig hearts, 166

Cerebral blood flow velocity declines before arterial  
pressure in patients with orthostatic vasovagal  
preyncope, 1039

Arterial thrombus  
In vivo noninvasive detection and age definition of  
arterial thrombus by MRI, 1366

Arteries  
See Brachial artery; Carotid arteries; Coronary  
arteries

Arteriogenesis  
Comparison of mechanical and laser  
transmyocardial revascularization for induction of  
angiogenesis and arteriogenesis in  
chronically ischemic myocardium, 1220

Aspirin  
Influence of prehospital administration of aspirin  
and heparin on initial patency of the infarct-
related artery in patients with acute ST  
elevation myocardial infarction, 1733

Atheromas  
Transcutaneous detection of aortic arch atheromas  
by suprasternal harmonic imaging, 1127
Atherosclerosis
See also Coronary artery disease
Association between coronary calcification assessed by electron beam computed tomography and measures of extracoronary atherosclerosis, 1745
Bedside quantification of atherosclerosis severity for cardiovascular risk stratification: a prospective cohort study, 702
Effects of probucol and pravastatin on common carotid atherosclerosis in patients with asymptomatic hypercholesterolemia, 610
Ethnic differences in coronary atherosclerosis, 408
Evaluation of carotid artery and aortic intima-media thickness measurements for exclusion of significant coronary atherosclerosis in patients scheduled for heart valve surgery, 1139
Identification, regulation and function of a novel lectin-like oxidized low-density lipoprotein receptor, 1429
Near-infrared spectroscopic characterization of human advanced atherosclerotic plaques, 1305
Particulate air pollution induces progression of atherosclerosis, 935
Transcutaneous detection of aortic arch atheromas by suprasternal harmonic imaging, 1127
Visualization of coronary atherosclerotic plaques in patients using optical coherence tomography: comparison with intravascular ultrasound, 604

Athletes
Intrinsic sinus and atrioventricular node electrophysiologic adaptations in endurance athletes, 1033
Atorvastatin
Atorvastatin decreases vascular endothelial growth factor in patients with coronary artery disease, 1951
Atria
Electrogram polarity reversal as an additional indicator of breakthroughs from the left atrium to the pulmonary veins, 1337
Plasma atrial natriuretic peptide concentration inversely correlates with left atrial collagen volume fraction in patients with atrial fibrillation, 288
Prognostic model for predicting the disappearance of left atrial thrombi among candidates for percutaneous transvenous mitral commissurotomy, 886
Relative expression of immunolocalized connexins 40 and 43 correlates with human atrial conduction properties, 116
Sensitivity and specificity of concealed entrainment for the identification of a critical isthmus in the atrium: relationship to rate, anatomic location and antidromic penetration, 896
Atrial fibrillation
Action potential duration restitution kinetics in human atrial fibrillation, 1329
Atrial fibrillation-induced gap functional remodeling (letter), 1709
Biphasic vs monophasic shock waveform for conversion of atrial fibrillation: the results of an international randomized, double-blind multicenter trial, 1956
Cardiac resynchronization in patients with congestive heart failure and chronic atrial fibrillation, 1258
Clinical value of left atrial appendage flow for prediction of long-term sinus rhythm maintenance in patients with nonvalvular atrial fibrillation, 1443
Effects of thyroid hormone on the arrhythmogenic activity of pulmonary vein cardiomyocytes, 366
Embolic events in patients with atrial fibrillation and effective anticoagulation: value of transesophageal echocardiography to guide direct-current cardioversion, 1436
Intracardiac echocardiography-guided, anatomically-related radiofrequency ablation of focal atrial fibrillation originating from pulmonary veins, 1964
Isolated annular dilation does not usually cause important functional mitral regurgitation, 1651
Left atrial versus bi-atrial maze operation using intraoperatively cooled-tip radiofrequency ablation in patients undergoing open-heart surgery, 1644
Plasma atrial natriuretic peptide concentration inversely correlates with left atrial collagen volume fraction in patients with atrial fibrillation, 288
Atrial flutter
Double potentials analysis as a guide to radiofrequency ablation of atrial flutter (letter), 916
Atrial natriuretic peptide
Plasma atrial natriuretic peptide concentration inversely correlates with left atrial collagen volume fraction in patients with atrial fibrillation, 288
Atrial septal defect
Comparison between transcatheter and surgical closure of secundum atrial septal defect in children and adults, 1836
Early and late complications associated with transcatheter occlusion of secundum atrial septal defect, 1061
Atrioventricular block
Autosomal dominant dilated cardiomyopathy with atrioventricular block: a lamin A/C defect-related disease, 981
Outcome of children with fetal, neonatal, or childhood diagnosis of isolated congenital atrioventricular block, 130
Walter Gaskell and the understanding of atrioventricular conduction and block, 1574
Atrioventricular node
Cardiac resynchronization therapy restores optimal atrioventricular mechanical timing in heart failure patients with ventricular conduction delay, 1163
Intrinsic sinus and atrioventricular node electrophysiologic adaptations in endurance athletes, 1033
Atrioventricular node re-entrant tachycardia
Is electrical stimulation during administration of catecholamines required for the evaluation of success after ablation of atrioventricular node re-entrant tachycardia?, 689
Autoantibodies
Relationship of myocardial remodeling to the genesis of serum autoantibodies to cardiac beta-1-adrenoceptors and muscular type 2 acetylcholine receptors in rats, 1866
Removal of cardiodepressant antibodies in dilated cardiomyopathy by immunoadsorption, 646
Atrial fibrillation-induced gap functional remodeling (letter), 1709
Atrial fibrillation-induced gap functional remodeling (letter), 1709
Atrial fibrillation-induced gap functional remodeling (letter), 1709
Biphasic shock
Biphasic vs monophasic shock waveform for conversion of atrial fibrillation: the results of an international randomized, double-blind multicenter trial, 1956
Biventricular pacing
Cardiac resynchronization in patients with congestive heart failure and chronic atrial fibrillation, 1258
Doppler myocardial imaging to evaluate the effectiveness of pacing sites in patients receiving biventricular pacing, 489
Initial experience with an implantable cardioverter-defibrillator incorporating cardiac resynchronization therapy, 790
Quantitation of basal dysynchrony and acute resynchronization from left or biventricular pacing by novel echo-contrast variability imaging, 2052
Blood pressure
See also Hypertension
Intensive cholesterol reduction lowers blood pressure and large artery stiffness in isolated systolic hypertension, 1020
Postexercise blood pressure reduction in elderly hypertensive patients, 1676
Risk of cardiovascular disease in relation to achieved office and ambulatory blood pressure control in treated hypertensive subjects, 878
Body mass index
Impact of body mass index on short- and long-
Cardiac denervation modulates the response to acute myocardial ischemia, 436
Cardiac sympathetic denervation modulates the response to acute myocardial ischemia, 436
Impact of obesity on the short-term and long-term outcomes after percutaneous coronary intervention: the obesity paradox?, 578
Obesity, weight reduction and survival in heart failure (letter), 1563
Detection of coronary stenosis and myocardial viability using a single intravenous bolus injection of BR14, 523
Myocardial and microcirculatory kinetics of BR14, a novel third-generation intravenous ultrasound contrast agent, 530
Guidelines for the ultrasound assessment of endothelial-dependent flow-mediated vasodilation of the brachial artery, 257
Quantitative angiographic methods for appropriate end-point analysis, edge-effect evaluation, and prediction of recurrent restenosis after coronary brachytherapy with gamma irradiation, 1657
Vascular morphometric changes after radioactive brachytherapy: a dose-response analysis, 400
Increased plasma brain natriuretic peptide level as a guide for silent myocardial ischemia in patients with non-obstructive hypertrophic cardiomyopathy, 1657
Utility of a BNP as a marker for RV dysfunction in acute pulmonary embolism (letter), 2080
Utility of a rapid B-natriuretic peptide assay in differentiating congestive heart failure from lung disease in patients presenting with dyspnea, 202
Electrophysiologic characteristics and implications of induced ventricular fibrillation in symptomatic patients with Brugada syndrome, 1799
Epichardial electrogram at the right ventricular outflow tract in patients with Brugada syndrome: using the epicardial lead, 1992
Late potentials and the Brugada syndrome (editorial), 1996
Prognostic value of electrophysiologic studies in Brugada syndrome (editorial), 1806
Bypass graft surgery
Coronary artery bypass graft
Cardiac calcification in adult hemodialysis patients, 695
High coronary artery calcium scores pose an extremely elevated risk for hard events, 225
Evidence-based evaluation of calcium channel blockers in hypertension, 315
Comparison of the effects of an angiotensin-converting enzyme inhibitor and a vasopeptidase inhibitor after myocardial infarction in the rat, 1692
Cardiac calcification in adult hemodialysis patients, 695
Cardiac sympathetic denervation modulates the sympathoexcitatory response to acute myocardial ischemia, 436
Cardiac function
Abstracts, 128A
Electrocardiogram-gated single-photon emission computed tomography versus cardiac magnetic resonance imaging for the assessment of left ventricular volumes and ejection fraction, 2059
Cardiac resynchronization
Retiming the failing heart: principles and current clinical status of cardiac resynchronization, 394
Cardiac senescence
Four-year-old rabbit cannot be considered the right model for investigating cardiac senescence (letter), 1701
Cardiac transplantation
Heart transplantation
Cardiomyopathy
Dilated cardiomyopathy; Hypertrophic cardiomyopathy: progress, problems and prospects, 747
Brugada syndrome
Electrophysiologic characteristics and implications of induced ventricular fibrillation in symptomatic patients with Brugada syndrome, 1799
Epichardial electrogram at the right ventricular outflow tract in patients with Brugada syndrome: using the epicardial lead, 1992
Late potentials and the Brugada syndrome (editorial), 1996
Prognostic value of electrophysiologic studies in Brugada syndrome (editorial), 1806
Bypass graft surgery
Coronary artery bypass graft
Cardiac calcification in adult hemodialysis patients, 695
High coronary artery calcium scores pose an extremely elevated risk for hard events, 225
Evidence-based evaluation of calcium channel blockers in hypertension, 315
Comparison of the effects of an angiotensin-converting enzyme inhibitor and a vasopeptidase inhibitor after myocardial infarction in the rat, 1692
Cardiac calcification in adult hemodialysis patients, 695
Cardiac senescence
Four-year-old rabbit cannot be considered the right model for investigating cardiac senescence (letter), 1701
Cardiac transplantation
Heart transplantation
Cardiomyopathy
Dilated cardiomyopathy; Hypertrophic cardiomyopathy: progress, problems and prospects, 747
Brugada syndrome
Electrophysiologic characteristics and implications of induced ventricular fibrillation in symptomatic patients with Brugada syndrome, 1799
Epichardial electrogram at the right ventricular outflow tract in patients with Brugada syndrome: using the epicardial lead, 1992
Late potentials and the Brugada syndrome (editorial), 1996
Prognostic value of electrophysiologic studies in Brugada syndrome (editorial), 1806
Bypass graft surgery
Coronary artery bypass graft
Cardiac calcification in adult hemodialysis patients, 695
High coronary artery calcium scores pose an extremely elevated risk for hard events, 225
Evidence-based evaluation of calcium channel blockers in hypertension, 315
Comparison of the effects of an angiotensin-converting enzyme inhibitor and a vasopeptidase inhibitor after myocardial infarction in the rat, 1692
Cardiac calcification in adult hemodialysis patients, 695
Cardiac senescence
Four-year-old rabbit cannot be considered the right model for investigating cardiac senescence (letter), 1701
Cardiac transplantation
Heart transplantation
Cardiomyopathy
Dilated cardiomyopathy; Hypertrophic cardiomyopathy: progress, problems and prospects, 747
Brugada syndrome
Electrophysiologic characteristics and implications of induced ventricular fibrillation in symptomatic patients with Brugada syndrome, 1799
Epichardial electrogram at the right ventricular outflow tract in patients with Brugada syndrome: using the epicardial lead, 1992
Late potentials and the Brugada syndrome (editorial), 1996
Prognostic value of electrophysiologic studies in Brugada syndrome (editorial), 1806
Bypass graft surgery
Coronary artery bypass graft
Cardiac calcification in adult hemodialysis patients, 695
High coronary artery calcium scores pose an extremely elevated risk for hard events, 225
Evidence-based evaluation of calcium channel blockers in hypertension, 315
Comparison of the effects of an angiotensin-converting enzyme inhibitor and a vasopeptidase inhibitor after myocardial infarction in the rat, 1692
Cardiac calcification in adult hemodialysis patients, 695
Cardiac denervation
Cardiac sympathetic denervation modulates the sympathoexcitatory response to acute myocardial ischemia, 436
Prospective study of dietary fiber intake and risk of cardiovascular disease among women, 49
Risk of cardiovascular disease in relation to achieved office and ambulatory blood pressure control in treated hypertensive subjects, 878
Cardiomyopathy
Dilated cardiomyopathy; Hypertrophic cardiomyopathy: progress, problems and prospects, 747
Clinical benefits of low serum digoxin concentrations in heart failure, 946
Confirmation of a heart failure epidemic: findings from the Resource Utilization Among Congestive Heart Failure (REACH) Study, 60
Contemporary overview of percutaneous coronary interventions, 1098
Continued symptomatic improvement three to five years after transmyocardial revascularization with CO2 laser, 1588
Effect of completeness of revascularization on event-free survival at one year in the ARTS trial, 559
Eptifibatide and low-dose tissue plasminogen activator in acute myocardial infarction, 377
Magnetic resonance imaging demonstrates improved regional systolic wall motion and thickness and myocardial perfusion of myocardial territories treated by laser myocardial revascularization, 1
Prospective, multicenter, randomized trial of percutaneous transmyocardial laser revascularization in patients with nonrevascularizable chronic total occlusions, 1581
Randomized trial of transfer for primary angioplasty versus on-site thrombolysis in patients with high-risk myocardial infarction, 1713
Revisiting the culprit lesion in non-Q-wave myocardial infarction: results from the VANQWISH Trial Angiographic Core Laboratory, 1456
In vivo early and mid-term flow-mediated endothelial function of the radial artery used as a coronary bypass graft, 573
Clodipogrel
Meta-analysis of randomized and registry comparisons of ticlopidine with clodipogrel after stenting, 9
C-myc
Intramyocardial coronary delivery of advanced antisense oligonucleotides reduces neointimal formation in the porcine stent restenosis model, 1686
Local intracoronary administration of antisense oligonucleotide against c-myc for the prevention of in-stent restenosis, 281
Coarctation of the aorta
Prediction of aneurysmal formation after surgical correction of aortic coarctation, 617
CO2 laser
Continued symptomatic improvement three to five years after transmyocardial revascularization with CO2 laser, 1588
Collagen
Efficacy and safety of percutaneous treatment of iatrogenic femoral artery pseudoaneurysm by biodegradable collagen injection, 1297
Complementary and alternative therapies
Benefits, adverse effects and drug interactions of herbal therapies with cardiovascular effects, 1083
Computed tomography
See Electron beam computed tomography, Single-photon emission computed tomography
Concealed entrainment
Sensitivity and specificity of concealed entrainment for the identification of a critical isthmus in the atrium: relationship to rate, anatomic location and antidromic penetration, 896
Conduction
Relative expression of immunolocalized connexins 40 and 43 correlates with human atrial conduction properties, 116
Congenital heart disease
See also Pediatric cardiology
Comparison between transcatheter and surgical closure of secundum atrial septal defect in children and adults, 1836
Incidence of congenital heart disease, 1890
Influence of patient factors and ablative technologies on outcomes of radiofrequency ablation of intra-atrial re-entrant tachycardia in patients with congenital heart disease, 1827
Long-term outcome of patients with ventricular septal defect considered not to require surgical closure during childhood, 1066
Overproduction of platelet microparticles in cyanotic congenital heart disease with polycythemia, 1072
Congestive heart failure
See Heart failure
Connexins
Relative expression of immunolocalized connexins 40 and 43 correlates with human atrial conduction properties, 116
Contractility
Effects of hypothermia on human left ventricular contractile function during cardiac surgery, 102
Contrast agents
Contrast echocardiography can assess risk area and infarct size during coronary occlusion and reperfusion: experimental validation, 1546
Detection of coronary stenosis and myocardial viability using a single intravenous bolus injection of BR14, 523
Gadolinium-enhanced three-dimensional magnetic resonance angiography of pulmonary and systemic venous anomalies, 337
Imaging of myocardial infarction: comparison of magnevist and gadopentetate dimeglumine in rabbits, 1392
Myocardial and microcirculatory kinetics of BR14, a novel third-generation intravenous ultrasound contrast agent, 530
Contrast variability imaging
Quantitation of basal dysynchrony and acute resynchronization from left or biventricular pacing by novel echo-contrast variability imaging, 2052
Coronary arteries
Cardiac calcification in adult hemodialysis patients, 695
Coronary flow studies for risk stratification in multivessel disease (editorial), 859
Determinants of coronary artery compliance in subjects with and without angiographic coronary artery disease, 1637
Prognostic value of coronary blood flow velocity and myocardial perfusion in intermediate coronary narrowings and multivessel disease, 852
Pulse transmission coefficient: a novel nonhyperemic parameter for assessing the physiological significance of coronary artery stenoses, 1012
Transient left ventricular apical ballooning without coronary artery stenosis: a form of stunning-like phenomenon? (letter), 741
What constitutes optimal surgical revascularization?, 565
Coronary artery bypass graft
Decreased incidence of postoperative stroke following off-pump coronary artery bypass (letter), 917
Impact of body mass index on short- and long-term outcomes in patients undergoing coronary revascularization, 834
Percutaneous coronary intervention versus coronary bypass graft surgery for patients with medically refractory myocardial ischemia and risk factors for adverse outcomes with bypass, 266
Percutaneous revascularization versus beating heart CABG or CABGi with cardiopulmonary bypass in patients with refractory myocardial ischemia (letter), 555
In vivo early and mid-term flow-mediated endothelial function of the radial artery used as a coronary bypass graft, 573
What constitutes optimal surgical revascularization?, 565
Coronary artery disease
See also Atherosclerosis; Coronary heart disease
Absolute blood flow and oxygen consumption in stunned myocardium in patients with coronary artery disease, 420
Acute effects of heparin administration on the ischemic threshold of patients with coronary artery disease, 413
Are we clear about the mechanisms by which biopsy evidence of interstitial fibrosis following cardiac transplantation helps predict late post-transplant coronary artery disease? (editorial), 978
Assessment of coronary flow reserve: comparison between contrast-enhanced magnetic resonance imaging and positron emission tomography, 864
Ato伐vasin decreases vascular endothelial growth factor in patients with coronary artery disease, 1951
C-reactive protein and angiographic coronary artery disease: independent and additive predictors of risk in subjects with angina, 632
Cytokine gene polymorphisms and development of CAD associated with CP infection (letter), 918
Determinants of coronary artery compliance in subjects with and without angiographic coronary artery disease, 1637
Diastolic follow-up pressure gradient relation in coronary stenosis in humans, 1630
Ethnic differences in coronary atherosclerosis, 408
High coronary artery calcium scores pose an extremely elevated risk for hard events, 225
Hypertensive response to exercise: a potential cause for new wall motion abnormality in the absence of coronary artery disease, 323
Increased central pulse pressure and augmentation index in subjects with hypercholesterolemia, 1003
Is early invasive treatment of unstable coronary artery disease equally effective for both women and men? (letter), 1565
Low event rate for stress-only perfusion imaging in patients evaluated for chest pain, 999
Myocardial viability testing and impact of revascularization on prognosis in patients with coronary artery disease and left ventricular dysfunction: a meta-analysis, 1151
Nitroglycerin upregulates matrix metalloproteinase expression by human macrophages, 1943
Pharmacologic preconditioning of estrogen by activation of the myocardial adenine triphosphate-sensitive potassium channel in patients undergoing coronary angioplasty, 871
Prognostic value of the Duke treadmill score in the conservative arm of the elderly, 1475
Standardized definition of ischemic cardiomyopathy for use in clinical research, 210
Stress test criteria used in the conservative arm of
the FRISC-II trial underdetects surgical coronary artery disease when applied to patients in the VANQWISH trial, 1611

Coronary artery fistula
Management of coronary artery fistula, 1026

Coronary calcifications
Association between coronary calcification assessed by electron beam computed tomography and measures of extracoronary atherosclerosis, 1745

Coronary flow velocity reserve
Assessment of coronary flow reserve: comparison between contrast-enhanced magnetic resonance imaging and positron emission tomography, 564

Coronary hemodynamics of stent implantation after suboptimal and optimal balloon angioplasty, 1513

Diastolic follow-up pressure gradient relation in coronary stenosis in humans, 1630

Noninvasive assessment of microvascular function in arterial hypertension by transcranial Doppler harmonic echocardiography, 2012

Prognostic value of coronary flow blood velocity and myocardial perfusion in intermediate coronary narrowings and multivessel disease, 852

Repeated assessment of coronary flow velocity patterns in patients with first acute myocardial infarction, 1283

Coronary heart disease
See also Coronary artery disease
Air pollution as a cause of heart disease (editorial), 57

Noninvasive assessment of microvascular function in arterial hypertension by transcranial Doppler harmonic echocardiography, 2012

Prognostic value of coronary flow blood velocity and myocardial perfusion in intermediate coronary narrowings and multivessel disease, 852

Repeated assessment of coronary flow velocity patterns in patients with first acute myocardial infarction, 1283

Coronary heart disease
See also Coronary artery disease
Air pollution as a cause of heart disease (editorial), 57

Noninvasive assessment of microvascular function in arterial hypertension by transcranial Doppler harmonic echocardiography, 2012

Prognostic value of coronary flow blood velocity and myocardial perfusion in intermediate coronary narrowings and multivessel disease, 852

Repeated assessment of coronary flow velocity patterns in patients with first acute myocardial infarction, 1283

Coronary lesions
Impact of lesion length and reference vessel diameter on angiographic restenosis and target vessel revascularization in treating in-stent restenosis with radiation, 1290

Prognostic value of coronary blood flow velocity and myocardial perfusion in intermediate coronary narrowings and multivessel disease, 852

Repeated assessment of coronary flow velocity patterns in patients with first acute myocardial infarction, 1283

Coronary microcirculation
Coronary microvascular spasm causes myocardial ischemia in patients with vasospastic angina, 847

Isolated ventricular noncompaction is associated with coronary microcirculation dysfunction, 450

Noninvasive assessment of microvascular function in arterial hypertension by transcranial Doppler harmonic echocardiography, 2012

Vasodilator signals from the ischemic myocardium are transmitted to the coronary vascular wall by pertussin toxin-sensitive G proteins, 1859

Coronary plaque
Angiographic plaque complexity: the tip of the unstable plaque iceberg (editorial), 1464

Near-infrared spectroscopic characterization of human advanced atherosclerotic plaques, 1305

Particulate air pollution induces progression of atherosclerosis, 935

Visualization of coronary atherosclerotic plaques in patients using optical coherence tomography: comparison with intravascular ultrasound, 604

Coronary revascularization
See Revascularization

Coronary spastic angina
Limited role of coronary angioplasty and stenting in coronary spastic angina with organic stenosis, 1120

Coronary vasculopathy
Myocardial ischemia-fibrotic injury after human heart transplantation is associated with increased progression of vasculopathy, decreased cellular rejection and poor long-term outcome, 970

Role of vitronectin receptor (v83) and tissue factor in the pathogenesis of transplant coronary vasculopathy, 804

Coxsackievirus B3
Role of Fas/FasL pathway in the activation of infiltrating cells in murine acute myocarditis caused by coxsackievirus B3, 1399

C-reactive protein
C-reactive protein and angiographic coronary artery disease: independent and additive predictors of risk in subjects with angina, 632

Creatine kinase
Comparison of cardiac troponin T and creatine kinase-MB for patient evaluation after cardiac surgery, 1518

Myocardial creatine kinase expression after left ventricular assist device support, 1773

Prognostic value of creatine kinase elevations extends across the whole spectrum of acute coronary syndromes, 22

Cryolife O'Brien stentless suprannular aortic valve
Usefulness of the Cryolife O'Brien stentless suprannular aortic valve to prevent prosthesis-patient mismatch in the small aortic root, 1394

Cytokines
Cytokine gene polymorphisms and development of CAD associated with CP infection (letter), 918

Improved post-myocardial infarction survival with probucol in rats: effects on left ventricular function, morphology, cardiac oxidative stress and cytokine expression, 148

Physical training modulates proinflammatory cytokines and the soluble Fas/soluble Fas ligand system in patients with chronic heart failure, 653

Deconditioning
Deconditioning fails to explain peripheral skeletal muscle alterations in men with chronic heart failure, 1170

Defibrillation
Biphasic waveform external defibrillation thresholds for spontaneous ventricular fibrillation secondary to acute ischemia, 359

Electrophysiologically guided antidrome catheter versus the implantable cardioverter-defibrillator for sustained ventricular tachyarrhythmias after myocardial infarction, 1813

Implantable defibrillator event rates in patients with idiopathic dilated cardiomyopathy, nonsustained ventricular tachycardia on holter and a left ventricular ejection fraction below 30%, 780

Onset heart rate of microvolt-level T-wave alternans provide clinical and prognostic value in nonischemic dilated cardiomyopathy, 295

Periodic rescreening is indicated for family members at risk of developing familial dilated cardiomyopathy, 1503

Prognostic value of mechanical efficiency in ambulatory patients with idiopathic dilated cardiomyopathy in sinus rhythm, 1264

Removal of cardiodepressant antibodies in dilated cardiomyopathy by immunosorption, 646

Dilatation
Dilated cardiomyopathy
See also Cardiomyopathy
Autoosomal dominant dilated cardiomyopathy with atrioventricular block: a lamin A/C defect-related disease, 981

Immunohistologic evidence of myocardial disease in apparently healthy relatives of patients with dilated cardiomyopathy, 455

Implantable defibrillator event rates in patients with idiopathic dilated cardiomyopathy, nonsustained ventricular tachycardia on holter and a left ventricular ejection fraction below 30%, 780

Onset heart rate of microvolt-level T-wave alternans provide clinical and prognostic value in nonischemic dilated cardiomyopathy, 295

Periodic rescreening is indicated for family members at risk of developing familial dilated cardiomyopathy, 1503

Prognostic value of mechanical efficiency in ambulatory patients with idiopathic dilated cardiomyopathy in sinus rhythm, 1264

Removal of cardiodepressant antibodies in dilated cardiomyopathy by immunosorption, 646

Dystensibility
Inter-relations among declines in arterial distensibility, baroreflex function and respiratory sinus arrhythmia, 1524

Radial, carotid and aortic distensibility in congestive heart failure: effects of high-dose angiotensin-converting enzyme inhibitor or low-dose association with angiotensin type 1 receptor blockade, 1275

Differences
Neurohumoral activation rapidly decreases after intravenous therapy with diuretics and vasodilators for class IV heart failure, 1623

Dobutamine
Dobutamine stress testing revisited (letter), 1708
Effect of nitric oxide versus dobutamine on short-term outcomes in the treatment of patients with acutely decompensated heart failure, 798
Effects of dobutamine on cardiac sympathetic activity in patients with congestive heart failure, 1269
Strain rate measurement by Doppler echocardiography allows improved assessment of myocardial viability in patients with depressed left ventricular function, 443

Doppler echocardiography
See also Echocardiography
Doppler myocardial imaging to evaluate the effectiveness of pacing sites in patients receiving biventricular pacing, 489
Noninvasive assessment of microvascular function in arterial hypertension by transthoracic Dopper harmonic echocardiography, 2012
Strain rate measurement by Doppler echocardiography allows improved assessment of myocardial viability in patients with depressed left ventricular function, 443
Usefulness of a 10% air-10% blood-80% saline mixture for contrast echocardiography: Doppler measurement of pulmonary artery systolic pressure, 124

Doximetry
Vascular morphometric changes after radioactive stent implantation: a dose-response analysis, 400

Double potentials
Double potentials analysis as a guide to radiofrequency ablation of atrial flutter (letter), 916

Drug interactions
Benefits, adverse effects and drug interactions of herbal therapies with cardiovascular effects, 1083

Ductus arteriosus aneurysm
Congenital ductus arteriosus aneurysm (editorial), 348
Isolated neonatal ductus arteriosus aneurysm, 342

Dyspnea
Utility of a rapid B-natriuretic peptide assay in differentiating congestive heart failure from lung disease in patients presenting with dyspnea, 202

Dysynchrony
Quantification of basal dysynchrony and acute resynchronization from left or biventricular pacing by novel echo-contrast variability imaging, 2052

Echocardiography
See also Doppler echocardiography; Dobutamine Abstracts, 340A
Clinical value of left atrial appendage flow for prediction of long-term sinus rhythm maintenance in patients with nonvalvular atrial fibrillation, 1443
Contrast echocardiography can assess risk area and infarct size during coronary occlusion and reperfusion: experimental validation, 1546
Echocardiographic predictors of adverse outcomes in primary pulmonary hypertension, 1214
Embolic events in patients with atrial fibrillation and effective anticoagulation: value of transesophageal echocardiography to guide direct-current cardioversion, 1436
“Exercise” part of exercise echocardiography (editorial), 1353
Hypertensive response to exercise: a potential cause for new wall motion abnormality in the absence of coronary artery disease, 323
Impact of left ventricular outflow tract area in systolic outflow velocity in hypertrophic cardiomyopathy, 308
Intracardiac echocardiography-guided, anatomic-based radiofrequency ablation of focal atrial fibrillation originating from pulmonary veins, 1964
Intracardiac phased-array imaging: methods and initial clinical experience with high resolution, under blood visualization, 509
Noninvasive assessment of microvascular function in arterial hypertension by transthoracic Doppler harmonic echocardiography, 2012
Outcome after abnormal exercise echocardiography for patients with good exercise capacity, 1345
Prognostic value of exercise echocardiography in 5,798 patients: is there a gender difference?, 625
Serial echocardiographic evaluation of restenosis after successful percutaneous mitral commissurotomy, 328
Usefulness of a 10% air-10% blood-80% saline mixture for contrast echocardiography: Doppler measurement of pulmonary artery systolic pressure, 124

Editorials
Activation of vascular time angiotensin-converting enzyme (ACE) in heart failure, 776
Air pollution as a cause of heart disease, 943
Are we clear about the mechanisms by which biopsy evidence of interstitial fibrosis following cardiac transplantation helps predict late post-transplant coronary artery disease?, 978
Congenital ductus arteriosus aneurysm, 348
Coronary flow studies for risk stratification in multivessel disease, 859
Diabetic fiber and prevention of cardiovascular disease, 57
Endocarditis beyond the annulus: eat your heart out, 1212
Exaggeration of focal right ventricular function, 1586
Inhibition of the renin-angiotensin system and the diagnosis of ischemic heart disease?, 46
Use of the Grant method to interpret electrocardiograms (letter), 1878

Electrogram polarity reversal
Electrogram polarity reversal as an additional indicator of breakthroughs from the left atrium to the pulmonary veins, 1337

Electron beam computed tomography
Association between coronary calcification assessed by electron beam computed tomography and measures of extracoronary atherosclerosis, 1745

Electrophysiology
Action potential duration restitution kinetics in human atrial fibrillation, 1329
Autonomic nervous system influences on QT interval in normal subjects, 1820
Detection of cardiotoxic viruses in the myocardium of patients with arrhythmicogenic right ventricular dysplasia/cardiacomyopathy, 892
Electrophysiologically guided amiodarone therapy versus the implantable cardioverter-defibrillator for sustained ventricular tachyarrhythmias after myocardial infarction, 1813
Electrophysiologic characteristics and implications of induced ventricular fibrillation in symptomatic patients with Brugada syndrome, 1799
Endocardial wave front organization during ventricular fibrillation in humans, 109
Impact of left ventricular outflow tract area in systolic outflow velocity in hypertrophic cardiomyopathy, 308
Intrinsic sinus and atrioventricular node electrophysiologic adaptations in endurance athletes, 1033
Is electrical stimulation during administration of catecholamines required for the evaluation of...
success after ablation of atrioventricular node re-entrant tachycardia, 689
Onset heart rate of microvolt-level T-wave alternans provide clinical and prognostic value in nonischemic dilated cardiomyopathy, 295
Plasma atrial natriuretic peptide concentration inversely correlates with left atrial collagen volume fraction in patients with atrial fibrillation, 288
Prognostic value of electrophysiologic studies in Brugada syndrome (editorial), 1806
Relative expression of immunolocalized connexins 40 and 43 correlates with human atrial conduction properties, 116
Repetitive monomorphic ventricular tachycardia originating from the aortic sinus cusp, 500

**Embolism**

See also Thromboembolism; Thrombus

Clinical profile of stroke in 900 patients with hypertrophic cardiomyopathy, 301
Embolic events in patients with atrial fibrillation and effective anticoagulation: value of transesophageal echocardiography to guide direct-current cardioversion, 1436
Risk of embolization after institution of antibiotic therapy for infective endocarditis, 1489

**Enalapril**

Neurohormonal and clinical responses to high-dose enalapril therapy in chronic heart failure, 70
Vascular remodeling during healing after myocardial infarction in the dog model, 1538

**Endocarditis**

Endocarditis beyond the annulus: eat your heart out

End-systolic volume index

Relationships of left ventricular ejection fraction, end-systolic volume index and infarct size to six-month mortality after hospital discharge following myocardial infarction treated by thrombolyis, 30
Epithilistine

Epithilidine and low-dose tissue plasminogen activator in acute myocardial infarction, 377

**Endothelial function and dysfunction**

Contribution of nicotine to acute endothelial dysfunction in long-term smokers, 251
Growth hormone corrects vascular dysfunction in patients with chronic heart failure, 90
Guidelines for the ultrasound assessment of endothelial-dependent flow-mediated vasodilation of the brachial artery, 257
Heavy and light cigarette smokers have similar dysfunction of endothelial vasoregulatory activity, 1758
In vivo early and mid-term flow-mediated endothelial function of the radial artery used as a coronary bypass graft, 573
Postprandial endothelial activation in healthy subjects and in type 2 diabetic patients: role of fat and carbohydrate meals, 1145
Presence of African American race predicts improvement in coronary endothelial function after supplementary L-arginine, 1314
Repeated sauna treatment improves vascular endothelial and cardiac function in patients with chronic heart failure, 754
Sympathetic activation markedly reduces endothelium-dependent, flow-mediated vasodilation, 683

**Endothelin-1**

Acute effects of heparin administration on the ischemic threshold of patients with coronary artery disease, 413
Chronic endothelin receptor antagonist prevents coronary vasovasorum neovascularization in experimental hypercholesterolemia, 1555
Crosstalk of endothelin-1 and platelet-derived growth factor in cardiac allograft arteriosclerosis, 710
Heavy and light cigarette smokers have similar dysfunction of endothelial vasoregulatory activity, 1758

**End points**

Survival at any points in heart failure, 1414

**End-stage renal disease**

Cardiac calcification in adult hemodialysis patients, 695

**End-systolic volume index**

Relationships between left ventricular ejection fraction, end-systolic volume index and infarct size to six-month mortality after hospital discharge following myocardial infarction treated by thrombolyis, 30

**Epithilidine**

Epithilidine and low-dose tissue plasminogen activator in acute myocardial infarction, 377

**Endothelial dysfunction**

Prognostic significance of left ventricular systolic dysfunction in essential hypertension, 2005

**Estrogen**

Pharmacologic preconditioning of estrogen by activators of the myocardial adenosine triphosphate-sensitive potassium channel in patients undergoing coronary angioplasty, 871

**Ethnicity**

Ethnic differences in coronary atherosclerosis, 408

**Exercise**

See also Stress testing

Hypertensive response to exercise: a potential cause for new wall motion abnormality in the absence of coronary artery disease, 323
Physical training modulates proinflammatory cytokines and the soluble Fas/soluble Fas ligand system in patients with chronic heart failure, 653
Postexercise blood pressure reduction in elderly hypertensive patients, 676

**Experimental studies**

Addition of spironolactone to angiotensin-converting enzyme inhibition in heart failure improves endothelial vasomotor dysfunction, 351
Angiotensin II receptor blockade does not improve left ventricular function and remodeling in subacute mitral regurgitation in the dog, 1374
Antioxidant N-2-mercaptopropionyl glycerine attenuates left ventricular hypertrophy in vivo murine pressure-overload model, 907
Arterial repair after stenting and the effects of GM6001, a matrix metalloproteinase inhibitor, 1852
Chronic endothelin receptor antagonism prevents coronary vasa vasorum neovascularization in experimental hypercholesterolemia, 1555
Comparison of mechanical and laser transmyocardial revascularization for induction of angiogenesis and arteriogenesis in chronically ischemic myocardium, 1220
Comparison of the effects of an angiotensin-converting enzyme inhibitor and a vasopepidegic inhibitor after myocardial infarction in the rat, 1692
Contrast echocardiography can assess risk area and infarct size during coronary occlusion and reperfusion: experimental validation, 1546
Crosstalk of endothelin-1 and platelet-derived growth factor in cardiac allograft arteriosclerosis, 710
Decoy oligodeoxynucleotide against activator protein-1 reduces neointimal proliferation after coronary angioplasty in hypercholesterolemic minipigs, 732
Detection of coronary stenosis and myocardial viability using a single intravenous bolus injection of BR14, 523
Effects of thyroid hormone on the arrhythmogenic activity of pulmonary vein cardiomyocytes, 366
Excessive activation of matrix metalloproteinases coincides with left ventricular remodeling during transition from hypertrophy to heart failure in hypertensive rats, 1384
Four-year-old rabbit cannot be considered the right model for investigating cardiac senescence (letter), 1701
Imaging of myocardial infarction: comparison of magnenvist and gadopentin-3 in rabbits, 1392
Improved myocardial ischemia/reperfusion injury in mice lacking tumor necrosis factor-a, 1229
Improved post-myocardial infarction survival with protacol in rats: effects on left ventricular function, morphology, cardiac oxidative stress and cytokine expression, 148
Influence of injection site, microvascular pressure and ultrasound variables on microbubble-mediated delivery of microspheres to muscle, 726
Intramural coronary delivery of advanced antisense oligonucleotides reduces neointimal formation in the porcine stent restenosis model, 1686
Lack of effect of glycoprotein IIb/IIIa blockade on myocardial platelet or polymorphonuclear leukocyte accumulation and on infarct size after transient coronary occlusion in pigs, 157
Origin of ischemia-induced phase 1b ventricular arrhythmias in pig hearts, 166
Particulate air pollution induces progression of atherosclerosis, 935
Relationship of myocardial remodeling to the genesis of serum autoantibodies to cardiac beta-adrenoceptors and muscarinic type 2 acetylcholine receptors, 1866
Reverse remodeling and enhanced adrenergic reserve from passive external support in experimental dilated heart failure, 2069
Role of Fas/Fasl pathway in the activation of infiltrating cells in murine acute myocarditis caused by cossackievirus B3, 1399
Short-term endothelin receptor blockade with tezosentan has both immediate and long-term beneficial effects in rats with myocardial infarction, 142
Time courses of apoptosis and cell proliferation and their relationship to arterial remodeling and restenosis after angioplasty in an atherosclerotic rabbit model, 1680
Vascular remodeling during healing after myocardial infarction in the dog model, 1538
In vivo noninvasive detection and age definition of arterial thrombus by MRI, 1366

**Familial disease**

Immunohistologic evidence of myocardial disease in apparently healthy relatives of patients with dilated cardiomyopathy, 455
Periodic re-screening is indicated for family members at risk of developing familial dilated cardiomyopathy, 1503
Fibrillation
Fibrosis
2-F
Filling patterns
Flecainide
Fistulae
Femoral artery pseudoaneurysm
Fas ligand

Fatty acids
Acute effects of heparin administration on the ischemic threshold of patients with coronary artery disease, 413
High levels of fatty acids delay the recovery of intracellular pH and cardiac efficiency in postischemic hearts by inhibiting glucose oxidation, 718

Femoral artery pseudoaneurysm
Efficacy and safety of percutaneous treatment of iatrogenic femoral artery pseudoaneurysm by biodegradable collagen injection, 1297

Fiber
Dietary fiber and prevention of cardiovascular disease (editorial), 57
Prospective study of dietary fiber intake and risk of cardiovascular disease among women, 49

Fibrillation
See Atrial fibrillation; Ventricular fibrillation

Fibroblast
Active interstitial remodeling: an important process in the hibernating human myocardium, 1468

Fibrosis
Are we clear about the mechanisms by which biopsy evidence of interstitial fibrosis following cardiac transplantation helps predict late post-transplant coronary artery disease? (editorial), 975
Myocardial ischemia-fibrotic injury after human heart transplantation is associated with increased progression of vasculopathy, decreased cellular rejection and poor long-term outcome, 970

Filling patterns
Pseudonormal mitral filling pattern predicts hospital re-admission in patients with congestive heart failure, 1787
Pseudonormal or intermediate pattern? (editorial), 1796

2-F2-isoprostane
Vasomotor effects and pathophysiologic relevance of F2-isoprostane formation in vascular diseases (letter), 554

Fistulae
Management of coronary artery fistulae, 1026

Flecainide
Flecainide and sotalol: a new combination therapy for refractory supraventricular tachycardia in children <1 year of age, 517

Flow-mediated vasodilation
Guidelines for the ultrasound assessment of endothelial-dependent flow-mediated vasodilation of the brachial artery, 257
Sympathetic activation markedly reduces endothelium-dependent, flow-mediated vasodilation, 683

Foramen ovale
Transcatheter closure of patent foramen ovale in patients with cerebral ischemia, 2019

Free wall rupture
Primary angioplasty reduces the risk of left ventricular free wall rupture compared with thrombolysis in patients with acute myocardial infarction, 398

FRISC-II trial
Stress test criteria used in the conservative arm of the FRISC-II trial underdetects surgical coronary artery disease when applied to patients in the VANQUISH trial, 1601

Gadolinium
Gadolinium-enhanced three-dimensional magnetic resonance angiography of pulmonary and systemic venous anomalies, 335

Gadophrin-3
Imaging of myocardial infarction: comparison of magnevist and gadophrin-3 in rabbits, 1392

Gap junctions
Atrial fibrillation-induced gap junctional remodeling (letter), 1709

Gender
See also Men; Women
Biological of bias: practice patterns and long-term outcomes for men and women with acute myocardial infarction, 1909
Gender differences and normal left ventricular anatomy in childhood adult population free of hypertension, 1055
Improved outcomes for women undergoing contemporary percutaneous coronary intervention, 1608
Prognostic value of exercise echocardiography in 5,798 patients: is there a gender difference?, 1225

Genotyping
Role of genotyping in risk factor assessment for sudden death in hypertrophic cardiomyopathy (editorial), 2049

Glucose oxidation
High levels of fatty acids delay the recovery of intracellular pH and cardiac efficiency in postischemic hearts by inhibiting glucose oxidation, 718

Glycoprotein Ib/IIa
Lack of effect of glycoprotein Ib/IIa blockade on myocardial platelet or polymorphonuclear leukocyte accumulation and on infarct size after transient coronary occlusion in pigs, 157

GM6001
Arterial repair after stenting and the effects of GM6001, a matrix metalloproteinase inhibitor, 1852

Growth hormone
Growth hormone corrects vascular dysfunction in patients with chronic heart failure, 90
Growth hormone corrects vascular dysfunction in patients with chronic heart failure: persistence of structural myocyte alterations in men with chronic heart failure, 1615
Growth hormone: neglected or misdiagnosed?, 138
Excessive activation of matrix metalloproteinases coincides with left ventricular remodeling during transition from hypertrophy to heart failure in hypertensive rats, 1394
Gradual reactivation over time of vascular time angiostenin I to angiotensin II conversion during chronic lisinopril therapy in chronic heart failure, 767
Impact of beta-blocker treatment on the prognostic value of currently used risk indicators in congestive heart failure, 1615
Implantation of the permanent Jarvik-2000 left ventricular assist device, 1764
Initial experience with an implantable cardioverter-defibrillator incorporating cardiac resynchronization therapy, 790
Is a high hematocrit level good for patients with heart failure? (letter), 1703

Left ventricular assist device in end-stage heart failure: persistence of structural myocyte damage after unloading, 963
Left ventricular assist device therapy improves utilization of donor hearts, 1247
Low-dose digoxin in patients with heart failure: less toxic and at least as effective? (editorial), 954
Neurohumoral activation rapidly decreases after intravenous therapy with diuretics and vasodilators for class IV heart failure, 1623
Neurohumoral and clinical responses to high-versus low-dose enalapril therapy in chronic heart failure, 70
Neurohumoral blockade in chronic heart failure (editorial), 79
Obesity, weight reduction and survival in heart failure (letter), 1563
Optimal “dose” of disease management programs in HF (letter), 2088
Patients with CHF and depression have greater risk of mortality and morbidity than patients without depression (letter), 919
Physical training modulates proinflammatory cytokines and the soluble Fas/soluble Fas
ligand system in patients with chronic heart failure, 653
Plasma oxidized low-density lipoprotein as a prognostic predictor in patients with chronic congestive heart failure, 957
Pressure overload hypertrophy and congestive heart failure (editorial), 672
Pseudonormal mitral filling pattern predicts hospital re-admission in patients with congestive heart failure, 1787
Radial, carotid and aortic distensibility in congestive heart failure: effects of high-dose angiotensin-converting enzyme inhibitor or low-dose association with angiotensin type 1 receptor blockade, 1277
Randomized trial of an education and support intervention to prevent readmission of patients with heart failure, 83
Randomized trial of the efficacy of multidisciplinary care in heart failure outpatients at high risk of hospital readmission, 471
Reduction of insulin-like growth factor-1 expression in the skeletal muscle of noncachectic patients with chronic heart failure, 1175
Regulation and measurement of plasma volume in heart failure, 1901
Repeated sauna treatment improves vascular endothelial and cardiac function in patients with chronic heart failure, 754
Retiming the failing heart: principles and current clinical status of cardiac resynchronization, 194
Reverse remodeling and enhanced adrenergic reserve from passive external support in experimental dilated heart failure, 2069
Right ventricular dysfunction and risk of heart failure and mortality after myocardial infarction, 1450
Standardized definition of ischemic cardiomyopathy for use in clinical research, 210
Statins and chronic heart failure: do we need a large-scale outcome trial?, 1567
Surrogate end points in heart failure, 1414
Utility of a rapid B-natriuretic peptide assay in differentiating congestive heart failure from lung disease in patients presenting with dyspnea, 202
Vasopressin inhibition with omapatrilat in chronic heart failure: acute and long-term hemodynamic and neurohormonal effects, 2034
Heart rate
Onset heart rate of microvolt-level T-wave alternans provide clinical and prognostic value in nonischemic dilated cardiomyopathy, 295
Heart transplantation
Are we clear about the mechanisms by which biopsy evidence of interstitial fibrosis following cardiac transplantation helps predict late post-transplant coronary artery disease? (editorial), 978
Implantable left ventricular assist device bridge-to-transplantation: natural selection, or is this the natural selection? (editorial), 1247
Implantation of the permanent Jarvik-2000 left ventricular assist device, 1764
Interleukin-6/interleukin-6 receptor system is activated in donor hearts, 1508
Left ventricular assist device therapy improves utilization of donor hearts, 1247
Myocardial ischemia-fibrotic injury after human heart transplantation is associated with increased progression of vasculopathy, decreased cellular rejection and poor long-term outcome, 970
Role of vitronectin receptor (\(\alpha6\beta3\)) and tissue factor in the pathogenesis of transplant coronary vasculopathy, 804
Heart valve surgery
Evaluation of carotid artery and aortic intima-media thickness measurements for exclusion of significant coronary athereosclerosis in patients scheduled for heart valve surgery, 1139
Hematocrit
Is a high hematocrit level good for patients with heart failure? (letter), 1703
Hematoma
Management of aortic intramural hematoma (letter), 180
Hemodialysis
Cardiac calcification in adult hemodialysis patients, 695
Hemodynamics
Coronary hemodynamics of stent implantation after suboptimal and optimal balloon angioplasty, 3513
Vasoepitope inhibition with omapatrilat in chronic heart failure: acute and long-term hemodynamic and neurohormonal effects, 2034
Heparin
Acute effects of heparin administration on the ischemic threshold of patients with coronary artery disease, 413
Influence of prehospital administration of aspirin and heparin on initial patency of the infarct-related artery in patients with acute ST elevation myocardial infarction, 1733
Rebound thrombin generation after heparin therapy in unstable angina, 811
Herbal therapy
Benefits, adverse effects and drug interactions of herbal therapies with cardiovascular effects, 1083
Hibernating myocardium
Active interstitial remodeling: an important process in the hibernating human myocardium, 1468
Histology of viable and hibernating myocardium in relation to imaging characteristics, 428
Severe energy deprivation of human hibernating myocardium as possible common, pathomechanism of contractile dysfunction, structural degeneration and cell death, 1189
Historical vignette
Walter Gaskell and the understanding of atrioventricular conduction and block, 1574
HMG-CoA reductase inhibitors
Increased transforming growth factor-beta, circulating levels and production in human monocytes after 3-hydroxy-3-methyl-glutaryl-coenzyme A reductase inhibition with pravastatin, 1513
Statins and chronic heart failure: do we need a large-scale outcome trial?, 1567
Hormone therapy
Effects of acute hormone therapy on recurrent ischemia in postmenopausal women with unstable angina, 231
Estrogen therapy for unstable angina (editorial), 238
Hospital(s)
Heart hospitals: are they the next wave? (editorial), 1236
Hospitalization
Pseudonormal mitral filling pattern predicts hospital re-admission in patients with congestive heart failure, 1787
Randomized trial of the efficacy of multidisciplinary care in heart failure outpatients at high risk of hospital readmission, 471
Hypercholesterolemia
See also Lipoproteins
Chronic endothelin receptor antagonism prevents coronary vasa vasorum neovascularization in experimental hypercholesterolemia, 1555
Effects of propocul and pravastatin on common carotid atherosclerosis in patients with asymptomatic hypercholesterolemia, 610
Increased central pulse pressure and augmentation index in subjects with hypercholesterolemia, 1003
Hypoxemia
Initial experience with hyperoxic reperfusion after primary angioplasty for acute myocardial infarction, 387
Hypertension
See also Pulmonary hypertension
Abstracts, 202A
Antecedent hypertension and heart failure after myocardial infarction, 1182
Evidence-based evaluation of calcium channel blockers in hypertension, 315
Excessive activation of matrix metalloproteinases coincides with left ventricular remodeling during transition from hypertension to heart failure in hypertensive rats, 1384
Hypertensive response to exercise: a potential cause for new wall motion abnormality in the absence of coronary artery disease, 523
Intensive cholesterol reduction lowers blood pressure and large artery stiffness in isolated systolic hypertension, 1020
Noninvasive assessment of microvascular function in arterial hypertension by trans thoracic Doppler harmonic echocardiography, 2012
Postexercise blood pressure reduction in elderly hypertensive patients, 676
Prognostic significance of left ventricular systolic dysfunction in essential hypertension, 2005
Risk of cardiovascular disease in relation to achieved office and ambulatory blood pressure control in treated hypertensive subjects, 878
Hypertrophic cardiomyopathy
See also Cardiomyopathy
Clinical profile of stroke in 900 patients with hypertrophic cardiomyopathy, 301
Impact of left ventricular outflow tract area in systolic outflow velocity in hypertrophic cardiomyopathy, 308
Increased plasma brain natriuretic peptide level as a guide for silent myocardial ischemia in patients with non-obstructive hypertrophic cardiomyopathy, 1657
Late-onset primary LVH: HCM versus cardiac Fabry variant (letter), 1405
Long-term outcome in patients with apical hypertrophic cardiomyopathy, 638
Prevalence and age-dependence of malignant mutations in the beta myosin heavy chain and troponin T genes in hypertrophic cardiomyopathy: a comprehensive outpatient perspective, 2042
Role of genotyping in risk factor assessment for sudden death in hypertrophic cardiomyopathy (editorial), 2049
Hypertrophy
Antioxidant N-2-mercaptopyrrolin glycine attenuates left ventricular hypertrophy in in vivo murine pressure-overload model, 907
Excessive activation of matrix metalloproteinases coincides with left ventricular remodeling during transition from hypertrophy to heart failure in hypertensive rats, 1384
Heart failure in pressure overload hypertrophy, 664
Pressure overload hypertrophy and congestive heart failure (editorial), 672

Hypothermia
Effects of hypothermia on human left ventricular contractile function during cardiac surgery, 102

Immunoadsorption
Removal of cardiodepressant antibodies in dilated cardiomyopathy by immunoadsorption, 646

Implantable cardioverter-defibrillators
See Defibrillators and defibrillation

Infarction
See Myocardial infarction

Infarct-related artery
Influence of prehospital administration of aspirin and heparin on initial patency of the infarct-related artery in patients with acute ST-elevation myocardial infarction, 1733

Infective endocarditis
Periannular extension of infective endocarditis, 1204
Risk of embolization after institution of antibiotic therapy for infective endocarditis, 1489

Inflammation
Systemic inflammation in unstable angina is the result of myocardial necrosis, 1917

Inotropes
Left ventricular assist device therapy improves utilization of donor hearts, 1247

Insulin-like growth factor-1
Reduction of insulin-like growth factor-1 expression in the skeletal muscle of noncachectic patients with chronic heart failure, 1175

Integrins
Role of vitronectin receptor (v6s) and tissue factor in the pathogenesis of transplant coronary vasculopathy, 804

Intercellular adhesion molecule-1
Soluble intercellular adhesion molecule-1 and long-term risk of acute coronary events in patients with chronic coronary heart disease, 1133

Interleukin-6
Interleukin-6/interleukin-6 receptor system is activated in donor hearts, 1508

Interventional cardiology
Abstracts, 1A
Contemporary overview of percutaneous coronary interventions, 1098
Coronary hemodynamics of stent implantation after coronary microcirculation dysfunction, 1151
Impact of lesion length and reference vessel diameter on angiographic restenosis and target vessel revascularization in treating in-stent restenosis with radiation, 1290
Improved outcomes for women undergoing contemporary percutaneous coronary intervention, 1608
Initial experience with hyperoxemic reperfusion after primary angioplasty for acute myocardial infarction, 387
Local intracoronary administration of antisense oligonucleotide against c-snc for the prevention of in-stent restenosis, 281
Magnetic resonance imaging demonstrates improved regional systolic wall motion and thickening and myocardial perfusion of myocardial territories treated by laser myocardial revascularization, 1
Management of coronary artery fistulae, 1026
Meta-analysis of randomized and registry comparisons of ticlopidine with clopidogrel after stenting, 9
Percutaneous coronary intervention versus coronary bypass graft surgery for patients with medically refractory myocardial ischemia and risk factors for adverse outcomes with bypass, 266
Primary angioplasty and selection bias in patients presenting late (<12 h) after onset of chest pain and ST elevation myocardial infarction, 826
Prognostic significance of elevated troponin I after percutaneous coronary intervention, 1738

Intima
Evaluation of carotid artery and aortic intima-media thickness measurements for exclusion of significant coronary atherosclerosis in patients scheduled for heart valve surgery, 1139

Intra-atrial re-entrant tachycardia
Influence of patient factors and ablative technologies on outcomes of radiofrequency ablation of intra-atrial re-entrant tachycardia in patients with congenital heart disease, 1827

Intracoronary radiation therapy
Impact of lesion length and reference vessel diameter on angiographic restenosis and target vessel revascularization in treating in-stent restenosis with radiation, 1290

Ischemia
See Myocardial ischemia

Isolated ventricular noncompaction
Isolated ventricular noncompaction is associated with coronary microcirculation dysfunction, 450

Isthmus
Sensitivity and specificity of concealed entrainment for the identification of a critical isthmus in the atrium: relationship to rate, anatomic location and antidromic penetration, 896
Jakvik-2000
Implantation of the permanent Jakvik-2000 left ventricular assist device, 1764

Lamin A/C gene defects
Autosomal dominant dilated cardiomyopathy with atrioventricular block: a lamin A/C defect-related disease, 981

Laser
Continued symptomatic improvement three to five years after transmyocardial revascularization with CO2 laser, 1588

Laser myocardial revascularization
Magnetic resonance imaging demonstrates improved regional systolic wall motion and thickening and myocardial perfusion of myocardial territories treated by laser myocardial revascularization, 1

Left atrial appendage
Clinical value of left atrial appendage flow for prediction of long-term sinus rhythm maintenance in patients with nonvalvular atrial fibrillation, 1443

Left atrial thrombi
Prognostic model for predicting the disappearance of left atrial thrombi among candidates for percutaneous transvenous mitral commissurotomy, 886

Left atrium
Electrogram polarity reversal as an additional indicator of breakthroughs from the left atrium to the pulmonary veins, 1337

Left ventricle
Angiotensin II receptor blockade does not improve left ventricular function and remodeling in subacute mitral regurgitation in the dog, 1374
Antioxidant N-2-mercaptopropionylglycine attenuates left ventricular hypertrophy in vivo in murine pressure-overload model, 907
Diastolic heart failure: neglected or misdiagnosed?, 138
Doppler myocardial imaging to evaluate the effectiveness of pacing sites in patients receiving biventricular pacing, 489
Effects of hypothermia on human left ventricular contractile function during cardiac surgery, 102
Electrocardiogram-gated single-photon emission computed tomography versus cardiac magnetic resonance imaging for the assessment of left ventricular volumes and ejection fraction, 2059
Excessive activation of matrix metalloproteinases coincides with left ventricular remodeling during transition from hypertrophy to heart failure in hypertensive rats, 1384
Gender differences and normal left ventricular anatomy in an adult population free of hypertension, 1055
Immunohistologic evidence of myocardial disease in apparently healthy relatives of patients with dilated cardiomyopathy, 455
Improved post-myocardial infarction survival with protocol in rats: effects on left ventricular function, morphology, cardiac oxidative stress and cytokine expression, 148
Inhibition of the renin-angiotensin system and the left ventricular adaptation to mitral regurgitation (editorial), 1380
Late-onset primary LVH: HCM versus cardiac Fabry variant (letter), 1405
Left ventricular assist device in end-stage heart failure: persistence of structural myocyte damage after unloading, 963
Monocytosis and adverse left ventricular remodeling after reperfused myocardial infarction (editorial), 247
Myocardial viability and prognosis in patients with ischemic left ventricle dysfunction (editorial), 1159
Myocardial viability testing and impact of revascularization on prognosis in patients with coronary artery disease and left ventricular dysfunction: a meta-analysis, 1151
Outcome after abnormal exercise echocardiography for patients with good exercise capacity, 1345
Physical activity attenuates the effect of increased left ventricular mass on the risk of ischemic stroke, 1482
Primary angioplasty reduces the risk of left ventricular free wall rupture compared with thrombolyis in patients with acute myocardial infarction, 598
Prognostic significance of peripheral monocytosis after reperfused acute myocardial infarction: a possible role for left ventricular remodeling, 241
Repeated assessment of coronary flow velocity pattern in patients with first acute myocardial infarction, 1283
Strain rate measurement by Doppler echocardiography allows improved assessment of myocardial viability in patients with depressed left ventricular function, 443
Survival after aortic valve replacement for severe aortic stenosis with low transvalvular gradients and severe left ventricular dysfunction, 1356

Transplant ischemia as a possible etiology for ventricular dysfunction (letter), 181

Transplant left ventricular apical ballooning without coronary artery stenosis: a form of stunning-like phenomenon? (letter), 741

Utility of a rapid B-natriuretic peptide assay in differentiating congestive heart failure from lung disease in patients presenting with dyspnea, 202

Ventricular function in aortic stenosis: how low can you go? (editorial), 1364

Left ventricular outflow tract
Impact of left ventricular outflow tract area in systolic outflow velocity in hypertrophic cardiomyopathy, 308

Left ventricular assist device
Implantable left ventricular assist device bridge-to-transplantation: natural selection, or is this the natural selection? (editorial), 1247

Implantation of the permanent Jarvik-2000 left ventricular assist device, 1764

Left ventricular assist device therapy improves utilization of donor hearts, 1247

Myocardial creatine kinase expression after left ventricular assist device support, 1773

Left ventricular ejection fraction
Continued symptomatic improvement three to five years after transmyocardial revascularization with CO2 laser, 1588

Electrocardiogram-gated single-photon emission computed tomography versus cardiac magnetic resonance imaging for the assessment of left ventricular volumes and ejection fraction, 2059

Implantable defibrillator event rates in patients with idiopathic dilated cardiomyopathy, nonsustained ventricular tachycardia on holter and a left ventricular ejection fraction below 30%, 780

Relationships of left ventricular ejection fraction, end-systolic volume index and infarct size to six-month mortality after hospital discharge following myocardial infarction treated by thrombolysis, 30

Left ventricular end-diastolic pressure
Cardiac resynchronization therapy restores optimal atioventricular mechanical timing in heart failure patients with ventricular conduction delay, 1163

Left ventricular systolic dysfunction
Prevalence of treatable left ventricular systolic dysfunction in patients who present with noncardiac vascular episodes, 219

Prognostic significance of left ventricular systolic dysfunction in essential hypertension, 2005

Letters to the editor
Anasarca and low electrocardiogram voltage, 742

Atrial fibrillation-induced gap junctional remodeling, 1709

Complications of vascular closure devices—not yet evidence based, 1705

Cytokine gene polymorphisms and development of CAD associated with CP infection, 918

Decreased incidence of postoperative stroke following off-pump coronary artery bypass, 917

Dobutamine stress testing revisited, 1708

Double potentials analysis as a guide to radiofrequency ablation of atrial flutter, 916

Four-year-old rabbit cannot be considered the right model for investigating cardiac senescence, 1701

Is a high hematocrit level good for patients with heart failure?, 1703

Ischemic cardiomyopathy: a historical note, 1564

Is early invasive treatment of unstable coronary artery disease equally effective for both women and men?, 1562

Late-onset primary LVH: HCM versus cardiac Fabry variant, 1405

Management of aortic intramural hematoma, 180

Obesity, weight reduction and survival in heart failure, 1563

Optimal “dose” of disease management programs in HF, 2080

Paradigm shift in myocardial stunning, 1710

Patients with CHF and depression have greater risk of mortality and morbidity than patients without depression, 191

Percutaneous revascularization versus bearing heart CABG or CABG with cardiopulmonary bypass in patients with refractory myocardial ischemia, 555

Perpetuation of the myth of the Q-wave versus the non-Q-wave myocardial infarction, 556

Prognostic significance of immune activation after acute coronary syndromes, 1878

Pulse wave reflection in pulmonary hypertension, 743

Revascularizing chronic total occlusions: what about the coronary collaterals and myocardial viability story?, 1702

Scopolamine?, 744

Sustent with extent—fiction or prophecy?, 558

Transient ischemia as a possible etiology for ventricular dysfunction, 181

Transient left ventricular apical ballooning without coronary artery stenosis: a form of stunning-like phenomenon?, 741

Troponin T in acute coronary syndromes: mechanisms and management issues, 1404

Use of the Grant method to interpret electrocardiograms, 1878

Utility of a BNP as a marker for RV dysfunction in acute pulmonary embolism, 2080

Vasomotor effects and pathophysiologic relevance of F1-isoprostane formation in vascular diseases, 554

Lipoproteins
See Low density lipoprotein

Lisinopril
Gradual reactivation over time of vascular time angiotensin I to angiotensin II conversion during chronic lisinopril therapy in chronic heart failure, 767

Long QT syndrome
Differential effects of beta-blockade on dispersion of repolarization in absence and presence of sympathetic stimulation between LQ71 and LQ72 forms of congenital long QT syndrome, 1984

Low-density lipoprotein
Identification, regulation and function of a novel lectin-like oxidized low-density lipoprotein receptor, 1429

Plasma oxidized low-density lipoprotein as a prognostic predictor in patients with chronic congestive heart failure, 957

Macrophages
Nitroglycerin upregulates matrix metalloproteinase expression by human macrophages, 1943

Magnetic resonance angiography
See also Angiography

Gadolinium-enhanced three-dimensional magnetic resonance angiography of pulmonary and systemic venous anomalies, 335

Magnetic resonance imaging
Abstracts, 340A

Assessment of coronary flow reserve: comparison between contrast-enhanced magnetic resonance imaging and positron emission tomography, 864

Electrocardiogram-gated single-photon emission computed tomography versus cardiac magnetic resonance imaging for the assessment of left ventricular volumes and ejection fraction, 2059

Gender differences and normal left ventricular anatomy in an adult population free of hypertension, 1055

Imaging of myocardial infarction: comparison of magnetist and gadolinium-3 in rabbits, 1392

Magnetic resonance imaging demonstrates improved regional systolic wall motion and thickening and myocardial perfusion of myocardial territories treated by laser myocardial revascularization, 1

In vivo noninvasive detection and age definition of arterial thrombus by MRI, 1366

Magnevist
Imaging of myocardial infarction: comparison of magnetist and gadolinium-3 in rabbits, 1392

Matrix metalloproteinases
Arterial repair after stenting and the effects of GM6001, a matrix metalloproteinase inhibitor, 1852

Excessive activation of matrix metalloproteinases coincides with left ventricular remodeling during transition from hypertrophy to heart failure in hypertensive rats, 1384

Nitroglycerin upregulates matrix metalloproteinase expression by human macrophages, 1943

Mechanical efficiency
Prognostic value of mechanical efficiency in ambulatory patients with idiopathic dilated cardiomyopathy in sinus rhythm, 1264

Medicare
President’s page: dollars without the sense, 540

President’s page: managing the Medicare mess: what’s next?, 1876

Men
Biology of bias: practice patterns and long-term outcomes for men and women with acute myocardial infarction, 1909

Deconditioning fails to explain peripheral skeletal muscle alterations in men with chronic heart failure, 1170

Gender differences and normal left ventricular anatomy in an adult population free of hypertension, 1055

Is early invasive treatment of unstable coronary artery disease equally effective for both women and men? (letter), 1565

Prognostic value of exercise echocardiography in 5,798 patients: is there a gender difference?, 625

N-2-Mercaptopropionyl glycine
Antioxidant N-2-mercaptopropionyl glycine attenuates left ventricular hypertrophy in vivo in murine pressure-overload model, 907

Microcirculation
Coronary microvascular spasm causes myocardial ischemia in patients with vasospastic angina, 847

Noninvasive assessment of microvascular function in arterial hypertension by transhiacar Doppler harmonic echocardiography, 2012

Vasodilator signals from the ischemic myocardium

Subject Index: Volume 39 2099
are transduced to the coronary vascular wall by peroxisome proliferator-activated receptors, 1859

**Microspheres**

Influence of injection site, microvascular pressure and ultrasound variables on microbubble-mediated delivery of microspheres to muscle, 726

**Microvascular spasm**

Coronary microvascular spasm causes myocardial ischemia in patients with vasospastic angina, 847

**Mitochondria**

Apoptotic pathway activation from mitochondria and death receptors without caspase-3 cleavage in failing human myocardium, 481

**Mitral annular dilation**

Isolated annular dilation does not usually cause important functional mitral regurgitation, 1651

**Mitral regurgitation**

Abstracts, 416A

Angiotensin II receptor blockade does not improve left ventricular function and remodeling in subacute mitral regurgitation in the dog, 1374

Inhibition of the renin-angiotensin system and the left ventricular adaptation to mitral regurgitation (editorial), 1380

Isolated annular dilation does not usually cause important functional mitral regurgitation, 1651

**Mitral valve**

Abstracts, 416A

Lesional tachycardias related to mitral valve surgery, 1973

Pseudonormal mitral filling pattern predicts hospital re-admission in patients with congestive heart failure, 1787

**Monocytes**

Increased transforming growth factor-beta, circulating levels and production in human monocytes after 3-hydroxy-3-methyl-glutaryl-coenzyme A reductase inhibition with pravastatin, 1752

**Monocytosis**

Monocytosis and adverse left ventricular remodeling after reperfused myocardial infarction (editorial), 247

Prognostic significance of peripheral monocytosis after reperfused acute myocardial infarction: a possible role for left ventricular remodeling, 241

**Monophasic shock**

Biphasic vs monophasic shock waveform for conversion of atrial fibrillation: the results of an international randomized, double-blind multicenter trial, 1956

**Mortality**

Anemia is associated with worse symptoms, greater impairment in functional capacity and a significant increase in mortality in patients with advanced heart failure, 1780


Impact of renal insufficiency on clinical outcomes in patients undergoing percutaneous coronary interventions, 1113

Patients with CHF and depression have greater risk of mortality and morbidity than patients without depression (letter), 919

Plasma oxidized low-density lipoprotein as a prognostic predictor in patients with chronic congestive heart failure, 957

Prognostic value of mechanical efficiency in ambulatory patients with idiopathic dilated cardiomyopathy in sinus rhythm, 1264

Relationships of left ventricular ejection fraction, end-systolic volume index and infarct size to six-month mortality after hospital discharge following myocardial infarction treated by thrombolysis, 30

Right ventricular dysfunction and risk of heart failure and mortality after myocardial infarction, 1450

**Multiwell disease**

Coronary flow studies for risk stratification in multiwell disease (editorial), 859

Prognostic value of coronary blood flow velocity and myocardial perfusion in intermediate coronary narrowings and multivessel disease, 852

**Muscle**

Deconditioning fails to explain peripheral skeletal muscle alterations in men with chronic heart failure, 1170

Influence of injection site, microvascular pressure and ultrasound variables on microbubble-mediated delivery of microspheres to muscle, 726

Reduction of insulin-like growth factor-1 expression in the skeletal muscle of noncachectic patients with chronic heart failure, 1175

**Myocardial blood flow**

Absolute blood flow and oxygen consumption in stunned myocardium in patients with coronary artery disease, 420

Contrast echocardiography can assess risk area and infarct size during coronary occlusion and reperfusion: experimental validation, 1546

**Myocardial disease**

Immunohistologic evidence of myocardial disease in apparently healthy relatives of patients with dilated cardiomyopathy, 455

**Myocardial infarction**

Abstracts, 278A

Angiographic plaque complexity: the tip of the unstable plaque iceberg (editorial), 1464

Antecedent hypertension and heart failure after myocardial infarction, 1182

Biopsy of bias: practice patterns and long-term outcomes for men and women with acute myocardial infarction, 1909

Clinical value of 12-lead electrocardiography to predict the long-term prognosis of GISSI-1 patients, 1594

Comparison of the effects of an angiotensin-converting enzyme inhibitor and a vasopressin antagonist after myocardial infarction in the rat, 1692

Electrophysiologically guided amiodarone therapy versus the implantable cardioverter-debrillator for sustained ventricular tachyarrhythmias after myocardial infarction, 1813

Epithelium and low-dose tissue plasminogen activator in acute myocardial infarction, 377

Expanding the reach of primary percutaneous coronary intervention for the treatment of acute myocardial infarction (editorial), 1720

Imaging of myocardial infarction: comparison of magnenist and gadopentate-3 in rabbits, 1392

Impact of normalized myocardial perfusion after successful angioplasty in acute myocardial infarction, 591

Improved post-myocardial infarction survival with prophylol in rats: effects on left ventricular function, morphology, cardiac oxidative stress and cytokine expression, 148

Increased plasma levels of the soluble form of Fas ligand in patients with acute myocardial infarction and unstable angina pectoris, 585

Influence of prehospital administration of aspirin and heparin on initial patency of the infarct-related artery in patients with acute ST elevation myocardial infarction, 1733

Initial experience with hyperemic reperfusion after primary angioplasty for acute myocardial infarction, 387

Monocytosis and adverse left ventricular remodeling after reperfused myocardial infarction (editorial), 247

Nitric oxide produced by neutrophils obtained from patients during acute coronary syndromes: expression of the nitric oxide synthase isoforms, 818

Perpetuation of the myth of the Q-wave versus the non-Q-wave myocardial infarction (letter), 556

Primary angioplasty and selection bias in patients presenting late (<12 h) after onset of chest pain and ST elevation myocardial infarction, 826

Primary angioplasty for elderly patients with myocardial infarction (editorial), 1729

Primary angioplasty reduces the risk of left ventricular free wall rupture compared with thrombolysis in patients with acute myocardial infarction, 598

Prognostic significance of peripheral monocytosis after reperfused acute myocardial infarction: a possible role for left ventricular remodeling, 241

Prospective study of dietary fiber intake and risk of cardiovascular disease among women, 49

Randomized comparison of direct stenting with conventional stent implantation in selected patients with acute myocardial infarction, 15

Randomized trial of transfer for primary angioplasty versus on-site thrombolysis in patients with high-risk myocardial infarction, 1713

Relationships of left ventricular ejection fraction, end-systolic volume index and infarct size to six-month mortality after hospital discharge following myocardial infarction treated by thrombolysis, 30

Repeated assessment of coronary flow velocity pattern in patients with first acute myocardial infarction, 1283

Reperfusion therapy in elderly patients with acute myocardial infarction, 1723

Revisiting the culprit lesion in non-Q-wave myocardial infarction: results from the VANQWISH Trial Angiographic Core Laboratory, 1456

Right ventricular dysfunction and risk of heart failure and mortality after myocardial infarction, 1450

Short-term endothelin receptor blockade with tezosentan has both immediate and long-term beneficial effects in rats with myocardial infarction, 142

Vascular remodeling during healing after myocardial infarction in the dog model, 1538

**Myocardial ischemia**

Abstracts, 278A

Biphasic waveform external defibrillation thresholds for spontaneous ventricular fibrillation secondary to acute ischemia, 359

Cardiac sympathetic denervation modulates the
sympathococcygic response to acute myocardial ischemia, 436
Comparison of mechanical and laser transmyocardial revascularization for induction of angiogenesis and arteriogenesis in chronically ischemic myocardium, 1220
Coronary microvascular spasm causes myocardial ischemia in patients with vasospastic angina, 847
Effect of supplemental L-arginine on tolerance development during continuous transdermal nitroglycerin therapy, 1199
Effects of acute hormone therapy on recurrent ischemia in postmenopausal women with unstable angina, 231
High levels of fatty acids delay the recovery of intracellular pH and cardiac efficiency in post-ischemic hearts by inhibiting glucose oxidation, 718
Improved myocardial ischemia/reperfusion injury in mice lacking tumor necrosis factor-α, 1229
Increased plasma brain natriuretic peptide level as a guide for silent myocardial ischemia in patients with non-obstructive hypertrophic cardiomyopathy, 1657
Ischemic cardiomyopathy: a historical note, (letter), 1564
Myocardial ischemia-fibrotic injury after human heart transplantation is associated with increased progression of vasculopathy, decreased cellular rejection and poor long-term outcome, 970
Myocardial viability and prognosis in patients with ischemic left ventricle dysfunction (editorial), 1159
Oral L-arginine (and other active ingredients) for ischemic heart disease? (editorial), 46
Origin of ischemia-induced phase 1b ventricular arrhythmias in pigs, 166
Percutaneous coronary intervention versus coronary bypass graft surgery for patients with medically refractory myocardial ischemia and risk factors for adverse outcomes with bypass, 266
Percutaneous revascularization versus beating heart CABG or CABG with cardiopulmonary bypass in patients with refractory myocardial ischemia (letter), 553
Physical activity attenuates the effect of increased left ventricular mass on the risk of ischemic stroke, 1482
Prognostic value of exercise echocardiography in 5,798 patients: is there a gender difference?, 625
Standardized definition of ischemic cardiomyopathy for use in clinical research, 210
Transient ischemia as a possible etiology for ventricular dysfunction (letter), 181
Vasodilator signals from the ischemic myocardium are transduced to the coronary vascular wall by pertussis toxin-sensitive G proteins, 1859
Myocardial necrosis
Systemic inflammation in unstable angina is the result of myocardial necrosis, 1917
Myocardial perfusion
Impact of normalized myocardial perfusion after successful angioplasty in acute myocardial infarction, 591
Magnetic resonance imaging demonstrates improved regional systolic wall motion and thickening and myocardial perfusion of myocardial territories treated by laser myocardial revascularization, 1
Prognostic value of coronary blood flow velocity and myocardial perfusion in intermediate coronary narrowings and multivessel disease, 852
Myocardial stunning
Paradigm shift in myocardial stunning (letter), 1710
Reversible regional wall motion abnormalities on exercise technetium-99m–gated cardiac single photon emission computed tomography predict high-grade angiographic stenoses, 991
Transient left ventricular apical ballooning without coronary artery stenosis: a form of stunning-like phenomenon? (letter), 741
Myocardial viability
Detection of coronary stenosis and myocardial viability using a single intravenous bolus injection of BR14, 523
Myocardial and microcirculatory kinetics of BR14, a novel third-generation intravenous ultrasound contrast agent, 530
Myocardial viability and prognosis in patients with ischemic left ventricle dysfunction (editorial), 1159
Myocardial viability testing and impact of revascularization on prognosis in patients with coronary artery disease and left ventricular dysfunction: a meta-analysis, 1151
Revascularizing chronic total occlusions: what about the coronary collaterals and myocardial viability story? (letter), 1702
Strain rate measurement by Doppler echocardiography allows improved assessment of myocardial viability in patients with depressed left ventricular function, 443
Myocarditis
Role of Fas/Fasl pathway in the activation of infiltrating cells in murine acute myocarditis caused by coxsackievirus B3, 1399
Myocardium
Absolute blood flow and oxygen consumption in stunned myocardium in patients with coronary artery disease, 420
Apoptotic pathway activation from mitochondria and death receptors without caspase-3 cleavage in failing human myocardium, 481
Comparison of mechanical and laser transmyocardial revascularization for induction of angiogenesis and arteriogenesis in chronically ischemic myocardium, 1220
Detection of cardiotropic viruses in the myocardium of patients with arrhythmogenic right ventricular dysplasia/cardiomyopathy, 892
Doppler myocardial imaging to evaluate the effectiveness of pacing sites in patients receiving biventricular pacing, 489
Histology of viable and hibernating myocardium in relation to imaging characteristics, 428
Lack of effect of glycoprotein IIb/IIIa blockade on myocardial platelet or polymorphonuclear leukocyte accumulation and on infarct size after transient coronary occlusion in pigs, 157
Severe energy deprivation of human hibernating myocardium as possible common, pathomechanism of contractile dysfunction, structural degeneration and cell death, 1189
Time to onset of regional relaxation: feasibility, variability and utility of a novel index of regional myocardial function by strain rate imaging, 1531
Myosin-binding protein C
Late-onset primary LVH: HCM versus cardiac Fabry variant (letter), 1405
N-acetylcysteine
N-acetylcysteine in acute cardiology: 10 years later, 1422

Na+/H+ exchange
Na+/H+ exchange inhibitors for cardioprotective therapy: progress, problems and prospects, 747
Natriuretic peptides
Increased plasma brain natriuretic peptide level as a guide for silent myocardial ischemia in patients with non-obstructive hypertrophic cardiomyopathy, 1657
Utility of a rapid B-natriuretic peptide assay in differentiating congestive heart failure from lung disease in patients presenting with dyspnea, 202
Near-infrared spectroscopy
Near-infrared spectroscopic characterization of human advanced atherosclerotic plaques, 1305
Neointima
Decoy oligodeoxynucleotide against activator protein-1 reduces neointimal proliferation after coronary angioplasty in hypercholesterolemic minipigs, 732
Dose heterogeneity may not affect the neointimal proliferation after gamma irradiation for instant restenosis, 1937
Neovascularization
Chronic endothelin receptor antagonism prevents coronary vasa vasorum neovascularization in experimental hypercholesterolemia, 1555
Nesiritide
Effect of nesiritide versus dobutamine on short-term outcomes in the treatment of patients with acutely decompensated heart failure, 798
Neurohormonal responses
Vasopopetidase inhibition with omapatrilat in chronic heart failure: acute and long-term hemodynamic and neurohormonal effects, 2034
Neurohumoral responses
Antecedent hypertension and heart failure after myocardial infarction, 1182
Neurohumoral activation rapidly decreases after intravenous therapy with diuretics and vasodilators for class IV heart failure, 1623
Neurohumoral and clinical responses to high-versus low-dose enalapril therapy in chronic heart failure, 70
Neurohumoral blockade in chronic heart failure (editorial), 79
Neutrophils
Nitric oxide production by neutrophils obtained from patients during acute coronary syndromes: expression of the nitric oxide synthase isoforms, 818
Nicotine
Contribution of nicotine to acute endothelial dysfunction in long-term smokers, 251
Nitric oxide
Heavy and light cigarette smokers have similar dysfunction of endothelial vasoregulatory activity, 1758
Nitric oxide production by neutrophils obtained from patients during acute coronary syndromes: expression of the nitric oxide synthase isoforms, 818
Randomized trial of a medical food for the dietary management of chronic, stable angina, 37
Nitroglycerin
Effect of supplemental L-arginine on tolerance development during continuous transdermal nitroglycerin therapy, 1199
Nitroglycerin upregulates matrix metalloproteinase expression by human macrophages, 1943
Noncardiac surgery
ACC/AHA guideline update for perioperative

Subject Index: Volume 39 2101
cardiovascular evaluation for noncardiac surgery—executive summary, 542

Noninvasive imaging
Abstracts, 340A

Non-Q-wave myocardial infarction
See also Myocardial infarction
Perpetuation of the myth of the Q-wave versus the non-Q-wave myocardial infarction (letter), 555
Revisiting the culprit lesion in non-Q-wave myocardial infarction: results from the VANQWISH Trial Angiographic Core Laboratory, 1456
Stress test criteria used in the conservative arm of the FRISC-II trial underestimates surgical coronary artery disease when applied to patients in the VANQWISH trial, 1601

Obesity
Impact of obesity on the short-term and long-term outcomes after percutaneous coronary intervention: the obesity paradox?, 578
Obesity, weight reduction and survival in heart failure (letter), 1563

Occlusion
Contrast echocardiography can assess risk area and infarct size during coronary occlusion and reperfusion: experimental validation, 1546
Early and late complications associated with transcatheater occlusion of secundum atrial septal defect, 1061
Prospective, multicenter, randomized trial of percutaneous transmyocardial laser revascularization in patients with nonrevascularizable chronic total occlusions, 1581

Occlusions
Revascularizing chronic total occlusions: what about the coronary collaterals and myocardial viability story? (letter), 1702

Oligodeoxynucleotides
Decay oligodeoxynucleotide against activator protein-1 reduces neointimal proliferation after coronary angioplasty in hypercholesterolemic minipigs, 732
Intramural coronary delivery of advanced antiplatelet oligonucleotides reduces neointimal formation in the porcine stent restenosis model, 1686
Local intracoronary administration of antiplatelet oligonucleotide against c-myc for the prevention of in-stent restenosis, 281

Omapatrilat
Comparison of the effects of an angiotensin-converting enzyme inhibitor and a vasopeptidase inhibitor after myocardial infarction in the rat, 1692
Vasopeptidase inhibition with omapatrilat in chronic heart failure: acute and long-term hemodynamic and neurohormonal effects, 2034

Open-heart surgery
Left atrial versus bi-atrial maze operation using intraoperatively cooled-tip radiofrequency ablation in patients undergoing open-heart surgery, 1444

Optical coherence tomography
Visualization of coronary atherosclerotic plaques in patients using optical coherence tomography: comparison with intravascular ultrasound, 604

Orthostatic vasovagal presyncope
Cerebral blood flow velocity declines before arterial pressure in patients with orthostatic vasovagal presyncope, 1039

Outcomes
Early angioplasty in acute coronary syndromes without persistent ST-elevation improves outcomes, but increases need for 6 month repeat revascularization. An analysis of the PURSUIT-trial, 1924
Echocardiographic predictors of adverse outcomes in primary pulmonary hypertension, 1214
Effect of nesiritide versus dobutamine on short-term outcomes in the treatment of patients with cardiogenic shock <1 with acutely decompensated heart failure, 798
Impact of body mass index on short- and long-term outcomes in patients undergoing coronary revascularization, 834
Impact of obesity on the short-term and long-term outcomes after percutaneous coronary intervention: the obesity paradox?, 578
Impact of renal insufficiency on clinical outcomes in patients undergoing percutaneous coronary interventions, 1113
Influence of patient factors and ablative technologies on outcomes of radiofrequency ablation of intra-atrial re-entrant tachycardia in patients with congenital heart disease, 1827
Long-term outcome in patients with apical hypertrophic cardiomyopathy, 638
Long-term outcome of patients with ventricular septal defect considered not to require surgical closure during childhood, 1066
Myocardial ischemia-fibrotic injury after human heart transplantation is associated with increased progression of vascopathy, decreased cellular injection and poor long-term outcome, 970
Outcome after abnormal exercise echocardiography for patients with good exercise capacity, 1345

Oxidatively modified low-density lipoprotein
Identification, regulation and function of a novel lectin-like oxidized low-density lipoprotein receptor, 1429

Oxidative stress
Improved post-myocardial infarction survival with probucol in rats: effects on left ventricular function, morphology, cardiac oxidative stress and cytokine expression, 148
N-acetylcysteine in acute cardiology: 10 years later, 1422
Plasma oxidized low-density lipoprotein as a prognostic predictor in patients with chronic congestive heart failure, 957

Oxygen consumption
Absolute blood flow and oxygen consumption in stunned myocardium in patients with coronary artery disease, 420

Pacing
Cardiac resynchronization in patients with congestive heart failure and chronic atrial fibrillation, 1258
Doppler myocardial imaging to evaluate the effectiveness of pacing sites in patients receiving biventricular pacing, 489
Initial experience with an implantable cardioverter-defibrillator incorporating cardiac resynchronization therapy, 790
Quantitation of basal dyssynchrony and acute resynchronization from left or biventricular pacing by novel echo-contrast variability imaging, 2052

Patient foramen ovale
Transcatheter closure of patent foramen ovale in patients with cerebral ischemia, 2019

Patient education
Randomized trial of an education and support intervention to prevent readmission of patients with heart failure, 83

Pediatric cardiology
See also Congenital heart disease
Abstracts, 398A
Comparison between transcatheter and surgical closure of secundum atrial septal defect in children and adults, 1836
Flecainide and sotalol: a new combination therapy for refractory supraventricular tachycardia in children <1 year of age, 512
Incidence of congenital heart disease, 1890
Isolated neonatal ductus arteriosus aneurysm, 342
Long-term outcome of patients with ventricular septal defect considered not to require surgical closure during childhood, 1066
Outcome of children with fetal, neonatal, or childhood diagnosis of isolated congenital atrioventricular block, 130
Percutaneous insertion of the pulmonary valve, 1664
Pulmonary atresia with intact ventricular septum, 1670
Transcatheter closure of patent foramen ovale in patients with cerebral ischemia, 1913

Percutaneous coronary interventions
Contemporary overview of percutaneous coronary interventions, 1098
Effect of intracoronary radiation for the treatment of recurrent in-stent restenosis in patients with diabetes mellitus, 1930
Efficacy and safety of percutaneous treatment of iatrogenic femoral artery pseudoaneurysm by biodegradable collagen injection, 1297
Expanding the reach of primary percutaneous coronary intervention for the treatment of acute myocardial infarction (editorial), 1720
Impact of obesity on the short-term and long-term outcomes after percutaneous coronary intervention: the obesity paradox?, 578
Impact of renal insufficiency on clinical outcomes in patients undergoing percutaneous coronary interventions, 1113
Improved outcomes for women undergoing contemporary percutaneous coronary intervention, 1608
Limited role of coronary angioplasty and stenting in coronary spastic angina with organic stenosis, 1120
Percutaneous coronary intervention versus coronary bypass graft surgery for patients with medically refractory myocardial ischemia and risk factors for adverse outcomes with bypass, 266
Percutaneous recanalization versus beating heart CABG or CABG with cardiopulmonary bypass in patients with refractory myocardial ischemia (letter), 1558
Prognostic significance of elevated troponin I after percutaneous coronary intervention, 1738
Prospective, multicenter, randomized trial of percutaneous transmyocardial laser revascularization in patients with nonrevascularizable chronic total occlusions, 1581
Rationale for on-site cardiac surgery for primary angioplasty: a time for reappraisal, 1881
Percutaneous mitral commissurotomy
Serial echocardiographic evaluation of restenosis after successful percutaneous mitral commissurotomy, 328
Percutaneous transluminal coronary angioplasty
Decoy oligodeoxynucleotide against activator protein-1 reduces neointimal proliferation after coronary angioplasty in hypercholesterolemic minipigs, 732
Early angioplasty in acute coronary syndromes without persistent ST-elevation improves outcomes, but increases need for 6 month repeat revascularization. An analysis of the PURSUIT-trial, 1924
Impact of body mass index on short- and long-term outcomes in patients undergoing coronary revascularization, 834
Impact of normalized myocardial perfusion after successful angioplasty in acute myocardial infarction, 591
Initial experience with hyperemic reperfusion after primary angioplasty for acute myocardial infarction, 387
Limited role of coronary angioplasty and stenting in coronary spastic angina with organic stenosis, 1120
Primary angioplasty and selection bias in patients presenting late (<12 h) after onset of chest pain and ST elevation myocardial infarction, 826
Primary angioplasty for elderly patients with myocardial infarction (editorial), 1729
Randomized trial of transfer for primary angioplasty versus on-site thrombolysis in patients with high-risk myocardial infarction, 1713
Repeated assessment of coronary flow velocity pattern in patients with first acute myocardial infarction, 1283
Reperfusion therapy in elderly patients with acute myocardial infarction, 1723
Time courses of apoptosis and cell proliferation and their relationship to arterial remodeling and restenosis after angioplasty in an atherosclerotic rabbit model, 1680
Percutaneous transmyocardial laser revascularization
Prospective, multicenter, randomized trial of percutaneous transmyocardial laser revascularization in patients with nonrecanalizable chronic total occlusions, 1581
Percutaneous transvenous mitral commissurotomy
Prognostic model for predicting the disappearance of left atrial thrombi among candidates for percutaneous transvenous mitral commissurotomy, 886
Perfusion
See Myocardial perfusion
Pericardial effusion
Clinical correlates of PR segment depression in asymptomatic patients with pericardial effusion, 2000
Peripheral monocytes
Prognostic significance of peripheral monocytosis after reperfused acute myocardial infarction: a possible role for left ventricular remodeling, 241
Pertussis toxin-sensitive G proteins
Vasodilator signals from the ischemic myocardium are transduced to the coronary vascular wall by pertussis toxin-sensitive G proteins, 1859
Phased-array imaging
Intracardiac phased-array imaging: methods and initial clinical experience with high resolution, under blood visualization, 509
Physical activity
Physical activity attenuates the effect of increased left ventricular mass on the risk of ischemic stroke, 1482
Physical training modulates proinflammatory cytokines and the soluble Fas/soluble Fas ligand system in patients with chronic heart failure, 653
Physicians
President’s page: fighting terrorism: our role as physicians, 739
Plaque, coronary
Angiographic plaque complexity: the tip of the unstable plaque iceberg (editorial), 1464
Near-infrared spectroscopic characterization of human advanced atherosclerotic plaques, 1305
Particulate air pollution induces progression of atherosclerosis, 935
Visualization of coronary atherosclerotic plaques in patients using optical coherence tomography: comparison with intravascular ultrasound, 604
Plasma
Regulation and measurement of plasma volume in heart failure, 1901
Platelet(s)
Lack of effect of glycoprotein IIb/IIIa blockade on myocardial platelet or polymorphonuclear leukocyte accumulation and on infarct size after transient coronary occlusion in pigs, 157
Overproduction of platelet microparticles in cyanotic congenital heart disease with polycythemia, 1072
Platelet-derived growth factor
Crossstalk of endothelin-1 and platelet-derived growth factor in cardiac allograft arteriosclerosis, 710
Polyethylenimine
Overproduction of platelet microparticles in cyanotic congenital heart disease with polycythemia, 1072
Polymorphonuclear leukocytes
Lack of effect of glycoprotein IIb/IIIa blockade on myocardial platelet or polymorphonuclear leukocyte accumulation and on infarct size after transient coronary occlusion in pigs, 157
Positron emission tomography
Assessment of coronary flow reserve: comparison between contrast-enhanced magnetic resonance imaging and positron emission tomography, 864
Postmenopausal women
See also Women
Effects of acute hormone therapy on recurrent ischemia in postmenopausal women with unstable angina, 231
Potassium channels
Pharmacologic preconditioning of estrogen by activation of the myocardial adenine triphosphate-sensitive potassium channel in patients undergoing coronary angioplasty, 871
Pressure overload hypertrophy
Heart failure in pressure overload hypertrophy, 664
Pressure overload hypertrophy and congestive heart failure (editorial), 672
Primary angioplasty
Primary angioplasty and selection bias in patients presenting late (<12 h) after onset of chest pain and ST elevation myocardial infarction, 826
Primary angioplasty reduces the risk of left ventricular free wall rupture compared with thrombolysis in patients with acute myocardial infarction, 598
Randomized trial of transfer for primary angioplasty versus on-site thrombolysis in patients with high-risk myocardial infarction, 1713
Rationale for on-site cardiac surgery for primary angioplasty: a time for reappraisal, 1881
Primary pulmonary hypertension
See Pulmonary hypertension
Probucol
Effects of probucol and pravastatin on common carotid atherosclerosis in patients with asymptomatic hypercholesterolemia, 610
Improved post-myocardial infarction survival with probucol in rats: effects on left ventricular function, morphology, cardiac oxidative stress and cytokine expression, 148
Prosthesis-patient mismatch
Usefulness of the CryoLife O’Brien stentless suprannular aortic valve to prevent prosthesis-patient mismatch in the small aortic root, 1845
PR segment
Clinical correlates of PR segment depression in asymptomatic patients with pericardial effusion, 2000
Pulmonary artery systolic pressure
Usefulness of a 10% air-10% blood-80% saline mixture for contrast echocardiography: Doppler measurement of pulmonary artery systolic pressure, 124
Pulmonary atresia
Pulmonary atresia with intact ventricular septum, 1670
Pulmonary embolism
Utility of a BNP as a marker for RV dysfunction in acute pulmonary embolism (letter), 2080
Pulmonary hypertension
Echocardiographic predictors of adverse outcomes in primary pulmonary hypertension, 1214
Effects of beraprost sodium, an oral prostacyclin analogue, in patients with pulmonary arterial hypertension: a randomized, double-blind, placebo-controlled trial, 1496
Pulse wave reflection in pulmonary hypertension (letter), 743
Pulmonary valve
Percutaneous insertion of the pulmonary valve, 1664
Pulmonary veins
Effects of thyroid hormone on the arrhythmogenic activity of pulmonary vein cardiomyocytes, 366
Electrogram polarity reversal as an additional indicator of breakthroughs from the left atrium to the pulmonary veins, 1337
Intracardiac echocardiography-guided, anatomically-based radiofrequency ablation of focal atrial fibrillation originating from pulmonary veins, 1964
Pulse pressure
Increased central pulse pressure and augmentation
index in subjects with hypercholesterolemia, 1003

Pulse transmission coefficient
Pulse transmission coefficient: a novel nonhyperemic parameter for assessing the physiological significance of coronary artery stenoses, 1012

QT interval
Autonomic nervous system influences on QT interval in normal subjects, 1820

Differential effects of beta-blockade on dispersion of repolarization in absence and presence of sympathetic stimulation between LQT1 and LQT2 forms of congenital long QT syndrome, 1984

Race
Ethnic differences in coronary atherosclerosis, 408
Presence of African American race predicts improvement in coronary endothelial function after supplementary L-arginine, 1314

Radial artery
In vivo early and mid-term flow-mediated endothelial function of the radial artery used as a coronary bypass graft, 573

Radial, carotid and aortic distensibility in congestive heart failure: effects of high-dose angiotensin-converting enzyme inhibitor or low-dose association with angiotensin type 1 receptor blockade, 1275

Radiation therapy
Dose heterogeneity may not affect the neointimal proliferation after gamma radiation for in-stent restenosis, 1937

Effect of intracoronary radiation for the treatment of recurrent in-stent restenosis in patients with diabetes mellitus, 1930

Impact of lesion length and reference vessel diameter on angiographic restenosis and target vessel revascularization in treating in-stent restenosis with radiation, 1290

Quantitative angiographic methods for appropriate end-point analysis, edge-effect evaluation, and prediction of recurrent restenosis after coronary brachytherapy with gamma irradiation, 274

Radiofrequency ablation
See also Ablation
Double potentials analysis as a guide to radiofrequency ablation of atrial flutter (letter), 916

Influence of patient factors and ablative technologies on outcomes of radiofrequency ablation of intra-atrial re-entrant tachycardia in patients with congenital heart disease, 1827

Intracardiac echocardiography-guided, anatomically-based radiofrequency ablation of focal atrial fibrillation originating from pulmonary veins, 1964

Is electrical stimulation during administration of catecholamines required for the evaluation of success after ablation of atrioventricular node re-entrant tachycardias?, 689

Left atrial versus bi-atrial maze operation using intraoperatively cooled-tip radiofrequency ablation in patients undergoing open-heart surgery, 1644

Lesional tachycardias related to mitral valve surgery, 1973

Noncontact mapping to guide ablation of right ventricular outflow tract tachycardia, 1808

Reactive oxygen species
Antioxidant N-2-mercaptopyrimidine glycine attenuates left ventricular hypertrophy in in vivo murine pressure-overload model, 907

Rebound coagulation
Rebound thrombin generation after heparin therapy in unstable angina, 811

Reference vessel diameter
Impact of lesion length and reference vessel diameter on angiographic restenosis and target vessel revascularization in treating in-stent restenosis with radiation, 1290

Regional wall motion abnormalities
Reversible regional wall motion abnormalities on exercise technetium-99m-gated cardiac single photon emission computed tomography predict high-grade angiographic stenoses, 991

Remodeling
Active interstitial remodeling: an important process in the hibernating human myocardium, 1468
Angiotensin II receptor blockade does not improve left ventricular function and remodeling in subacute mitral regurgitation in the dog, 1374

Excessive activation of matrix metalloproteinases coincides with left ventricular remodeling during transcoronary from hypertrophy to heart failure in hypertensive rats, 1384

Heart failure in pressure overload hypertrophy, 664
Monocytosis and adverse left ventricular remodeling after reperfusion myocardial infarction (editorial), 247

Pressure overload hypertrophy and congestive heart failure (editorial), 672

Prognostic significance of peripheral monocytosis after reperfused acute myocardial infarction: a possible role for left ventricular remodeling, 241

Relationship of myocardial remodeling to the genesis of serum autoantibodies to cardiac beta-adrenoceptors and muscarinic type 2 acetylcholine receptors in rats, 1866

Reverse remodeling and enhanced adenergic reserve from passive external support in experimental dilated heart failure, 2069

Time courses of apoptosis and cell proliferation and their relationship to arterial remodeling and restenosis after angioplasty in an atherosclerotic rabbit model, 1680

Vascular remodeling during healing after myocardial infarction in the dog model, 1538

Renal insufficiency
Impact of renal insufficiency on clinical outcomes in patients undergoing percutaneous coronary interventions, 1113

Renin-angiotensin system
Inhibition of the renin-angiotensin system and the left ventricular adaptation to mitral regurgitation (editorial), 1380

Reperfusion
Contrast echocardiography can assess risk area and infarct size during coronary occlusion and reperfusion: experimental validation, 1546

High levels of fatty acids delay the recovery of intracellular pH and cardiac efficiency in post-ischemic hearts by inhibiting glucose oxidation, 718

Improved myocardial ischemia/reperfusion injury in mice lacking tumor necrosis factor- , 1229

Repeated assessment of coronary flow velocity pattern in patients with first acute myocardial infarction, 1283

Reperfusion therapy in elderly patients with acute myocardial infarction, 1723

Vascular remodeling during healing after myocardial infarction in the dog model, 1538

Repolarization
Differential effects of beta-blockade on dispersion of repolarization in absence and presence of sympathetic stimulation between LQT1 and LQT2 forms of congenital long QT syndrome, 1984

Research
Standardized definition of ischemic cardiomyopathy for use in clinical research, 210

Respiratory sinus arrhythmia
Inter-relations among declines in arterial distensibility, baroreflex function and respiratory sinus arrhythmia, 1524

Restenosis
See also Stenosis
Coronary in-stent restenosis: current status and future strategies, 183

Dose heterogeneity may not affect the neointimal proliferation after gamma radiation for in-stent restenosis, 1937

Effect of intracoronary radiation for the treatment of recurrent in-stent restenosis in patients with diabetes mellitus, 1930

Impact of lesion length and reference vessel diameter on angiographic restenosis and target vessel revascularization in treating in-stent restenosis with radiation, 1290

Intramural coronary delivery of advanced antisense oligonucleotides reduces neointimal formation in the porcine stent restenosis model, 1686

Local intracoronary administration of antisense oligonucleotide against c-myc for the prevention of in-stent restenosis, 281

Quantitative angiographic methods for appropriate end-point analysis, edge-effect evaluation, and prediction of recurrent restenosis after coronary brachytherapy with gamma irradiation, 274

Serial echocardiographic evaluation of restenosis after successful percutaneous mitral commissurotomy, 328

Time courses of apoptosis and cell proliferation and their relationship to arterial remodeling and restenosis after angioplasty in an atherosclerotic rabbit model, 1680

Vascular remodeling during healing after myocardial infarction, 1538

Resynchronization therapy
Cardiac resynchronization in patients with congestive heart failure and chronic atrial fibrillation, 1258

Cardiac resynchronization therapy restores optimal atrioventricular mechanical timing in heart failure patients with ventricular conduction delay, 1163

Chronic effect of hemodynamically optimized surface resynchronization therapy on patients with heart failure and ventricular conduction delay, 2026

Initial experience with an implantable cardioverter-defibrillator incorporating cardiac resynchronization therapy, 790

Quantitation of mechanical and laser transmyocardial revascularization for induction of angiogenesis and arteriogenesis in chronically ischemic myocardium, 1220

Early angioplasty in acute coronary syndromes without persistent ST-elevation improves...
outcome, but increases need for 6 month repeat revascularization. An analysis of the PURSUIT-trial, 1924

Effect of completeness of revascularization on event-free survival at one year in the ARTS trial, 559

Impact of body mass index on short- and long-term outcomes in patients undergoing coronary revascularization, 834

Impact of lesion length and reference vessel diameter on angiographic restenosis and target vessel revascularization in treating in-stent restenosis with radiation, 1290

Magnetic resonance imaging demonstrates improved regional systolic wall motion and thickening and myocardial perfusion of myocardial territories treated by laser myocardial revascularization, 1

Myocardial viability testing and impact of revascularization on prognosis in patients with coronary artery disease and left ventricular dysfunction: a meta-analysis, 1151

Percutaneous revascularization versus beating heart CAGB or CABG with cardiopulmonary bypass in patients with refractory myocardial ischemia (letter), 555

Prospective, multicenter, randomized trial of percutaneous transmyocardial laser revascularization in patients with nonrecanalizable chronic total occlusions, 1581

Revascularizing chronic total occlusions: what about the coronary collaterals and myocardial viability story? (letter), 1702

What constitutes optimal surgical revascularization?, 565

Right ventricle
Detection of cardiotoxic viruses in the myocardium of patients with arrhythmogenic right ventricular dysplasia/cardiomyopathy, 892

Right ventricular dysfunction and risk of heart failure and mortality after myocardial infarction, 1450

Utility of a BNP as a marker for RV dysfunction in acute pulmonary embolism (letter), 2080

Right ventricular outflow tract
Epicardial electrogram at the right ventricular outflow tract in patients with Brugada syndrome: using the epicardial lead, 1992

Noncontact mapping to guide ablation of right ventricular outflow tract tachycardia, 1808

Risk assessment and stratification
Anemia is associated with worse symptoms, greater impairment in functional capacity and a significant increase in mortality in patients with advanced heart failure, 1780

Bedside quantification of atherothrombotic severity for cardiovascular risk stratification: a prospective cohort study, 702

Clinical value of 12-lead electrocardiography to predict the long-term prognosis of GISSI-1 patients, 1594

Contrast echocardiography can assess risk area and infarct size during coronary occlusion and reperfusion: experimental validation, 1546

Coronary flow studies for risk stratification in multivessel disease (editorial), 859

C-reactive protein and angiographic coronary artery disease: independent and additive predictors of risk in subjects with angina, 632


“Exercise” part of exercise echocardiography (editorial), 1353

High coronary artery calcium scores pose an extremely elevated risk for hard events, 225

Impact of beta-blocker treatment on the prognostic value of currently used risk indicators in congestive heart failure, 1615

Impact of normalized myocardial perfusion after successful angioplasty in acute myocardial infarction, 591

Outcome after abnormal exercise echocardiography for patients with good exercise capacity, 1345

Physical activity attenuates the effect of increased left ventricular mass on the risk of ischemic stroke, 1482

Prognostic significance of immune activation after acute coronary syndromes (letter), 1878

Prognostic value of exercise echocardiography in 5,789 patients: is there a gender difference?, 625

Randomized trial of the efficacy of multidisciplinary care in heart failure outpatients at high risk of hospital readmission, 471

Right ventricular dysfunction and risk of heart failure and mortality after myocardial infarction, 1450

Risk of cardiovascular disease in relation to achieved office and ambulatory blood pressure control in treated hypertensive subjects, 878

Role of genotyping in risk factor assessment for sudden death in hypertrophic cardiomyopathy (editorial), 2049

Soluble intercellular adhesion molecule-1 and long-term risk of acute coronary events in patients with chronic coronary heart disease, 1133

Risk factors
Percutaneous coronary intervention versus coronary bypass graft surgery for patients with medically refractory myocardial ischemia and risk factors for adverse outcomes with bypass, 266

Prospектив study of dietary fiber intake and risk of cardiovascular disease among women, 49

Scopolamine
Scopolamine? (letter), 744

Secundum atrial septal defect
Comparison between transcatheter and surgical closure of secundum atrial septal defect in children and adults, 1836

Early and late complications associated with transcatheter occlusion of secundum atrial septal defect, 1061

Shock
Biphasic vs monophasic shock waveform for conversion of atrial fibrillation: the results of an international randomized, double-blind multicenter trial, 1956

Silent ischemia
Increased plasma brain natriuretic peptide level as a guide for silent myocardial ischemia in patients with non-obstructive hypertrophic cardiomyopathy, 1657

Single-photon emission computed tomography
Electrocardiogram-gated single-photon emission computed tomography versus cardiac magnetic resonance imaging for the assessment of left ventricular volumes and ejection fraction, 2059

Low event rate for stress-only perfusion imaging in patients evaluated for chest pain, 999

Prognostic value of coronary blood flow velocity and myocardial perfusion in intermediate coronary narrowings and multivessel disease, 852

Reversible regional wall motion abnormalities on exercise technetium-99m–gated cardiac single photon emission computed tomography predict high-grade angiographic stenoses, 991

Sinus node
Intrinsic sinus and atrioventricular node electrophysiologic adaptations in endurance athletes, 1033

Sinus rhythm
Clinical value of left atrial appendage flow for prediction of long-term sinus rhythm maintenance in patients with nonvalvular atrial fibrillation, 1443

Prognostic value of mechanical efficiency in ambulatory patients with idiopathic dilated cardiomyopathy in sinus rhythm, 1264

Sinus tachycardia
Three-dimensional nonfluoroscopic mapping and ablation of inappropriate sinus tachycardia, 1046

Skeletal muscle
Decompression fails to explain peripheral skeletal muscle alterations in men with chronic heart failure, 1170

Reduction of insulin-like growth factor-1 expression in the skeletal muscle of noncachectic patients with chronic heart failure, 1175

Smoking
Contribution of nicotine to acute endothelial dysfunction in long-term smokers, 251

Heavy and light cigarette smokers have similar dysfunction of endothelial vasoregulatory activity, 1758

Smooth muscle myosin heavy chain
Active interstitial remodeling: an important process in the herniating human myocardium, 1468

Sotalol
Flecainide and sotalol: a new combination therapy for refractory supraventricular tachycardia in children <1 year of age, 517

Spectroscopy
Near-infrared spectroscopic characterization of human advanced atherosclerotic plaques, 1305

Spironolactone
Addition of spironolactone to angiotensin-converting enzyme inhibition in heart failure improves endothelial vasomotor function, 351

Statins
See also specific statin
Atorvastatin decreases vascular endothelial growth factor in patients with coronary artery disease, 1951

Increased transforming growth factor-beta, circulating levels and production in human monocytes after 3-hydroxy-3-methyl-glutaryl-coenzyme A reductase inhibition with pravastatin, 1752

Statins and chronic heart failure: do we need a large-scale outcome trial?, 1356

ST elevation
Early angioplasty in acute coronary syndromes without persistent ST-elevation improves outcome, but increases need for 6 month repeat revascularization. An analysis of the PURSUIT-trial, 1924

Primary angioplasty and selection bias in patients presenting late (<12 h) after onset of chest pain and ST elevation myocardial infarction, 826

Stenosis
See also Restenosis
Detection of coronary stenosis and myocardial...
viability using a single intravenous bolus injection of BR14, 523
Diastolic follow-up pressure gradient relation in coronary stenosis in humans, 1630
Limited role of coronary angioplasty and stenting in coronary spastic angina with organic stenosis, 1120
Myocardial and microcirculatory kinetics of BR14, a novel third-generation intravenous ultrasound contrast agent, 530
Progression of human aortic valve stenosis is associated with tenasin-C expression, 96
Pulse transmission coefficient: a novel noninvasive parameter for assessing the physiological significance of coronary artery stenoses, 1012
Reversible regional wall motion abnormalities on exercise technetium-99m-gated cardiac single photon emission computed tomography predict high-grade angiographic stenoses, 991
Transient left ventricular apical ballooning without coronary artery stenosis: a form of stunning-like phenomenon? (letter), 741

Stents and stenting
Arterial repair after stenting and the effects of GM6001, a matrix metalloproteinase inhibitor, 1852
Coronary hemodynamics of stent implantation after suboptimal and optimal balloon angioplasty, 1513
Limited role of coronary angioplasty and stenting in coronary spastic angina with organic stenosis, 1120
Meta-analysis of randomized and registry comparisons of ticlopidine with clopidogrel after stenting, 9
Multicenter evaluation of carotid artery stenting with a filter protection system, 841
Randomized comparison of direct stenting with conventional stent implantation in selected patients with acute myocardial infarction, 15
Randomized comparison of the value of additional stenting after optimal balloon angioplasty for long coronary lesions, 393
Stent with extent—fiction or prophecy? (letter), 558
Vascular morphometric changes after radioactive stent implantation: a dose-response analysis, 400

Stain rate imaging
Stain rate measurement by Doppler echocardiography allowed improved assessment of myocardial viability in patients with depressed left ventricular function, 443
Time to onset of regional relaxation: feasibility, variability and utility of a novel index of regional myocardial function by strain rate imaging, 1531

Stress testing
See also Exercise testing
 Dobutamine stress testing revisited (letter), 1708
“Exercise” part of exercise echocardiography (editorial), 1477
Outcome after abnormal exercise echocardiography for patients with good exercise capacity, 1345
Prognostic value of exercise echocardiography in 5,798 patients: is there a gender difference?, 625
Prognostic value of the Duke treadmill score in the elderly, 1475
Reversible regional wall motion abnormalities on exercise technetium-99m–gated cardiac single photon emission computed tomography predict high-grade angiographic stenoses, 991
Stress test criteria used in the conservative arm of the FRISC-II trial underestimates surgical coronary artery disease when applied to patients in the VANQVISH trial, 1601

Stroke
Clinical profile of stroke in 900 patients with hypertrophic cardiomyopathy, 301
Decreased incidence of postoperative stroke following off-pump coronary artery bypass (letter), 917
Physical activity attenuates the effect of increased left ventricular mass on the risk of ischemic stroke, 1482

Sudden death
Primary prevention of sudden death using ICD therapy: incremental steps (editorial), 798
Role of genotyping in risk factor assessment for sudden death in hypertrophic cardiomyopathy (editorial), 2049
Sudden death in patients with implantable cardioverter defibrillators, 1323

Suprasternal harmonic imaging
Transcutaneous detection of aortic arch atheromas by suprasternal harmonic imaging, 1127

Supraventricular tachycardia
Flecainide and sotalol: a new combination therapy for refractory supraventricular tachycardia in children <1 year of age, 517

Surgery
See also Ablation; Coronary artery bypass graft ACC/AHA guideline update for periprocedural cardiovascular evaluation for noncardiac surgery—executive summary, 542
Comparison between transcatheter and surgical closure of secundum atrial septal defect in children and adults, 1836
Comparison of cardiac troponin T and creatine kinase-MB for patient evaluation after cardiac surgery, 1518
Effects of hyperthermia on human left ventricular contractile function during cardiac surgery, 102
Evaluation of carotid artery and aortic intima-media thickness measurements for exclusion of significant coronary atherosclerosis in patients scheduled for heart valve surgery, 1139
Left atrial versus bi-atrial maze operation using intraoperatively cooled-tip radiofrequency ablation in patients undergoing open-heart surgery, 1644
Lesional tachycardias related to mitral valve surgery, 1973
Rationale for on-site cardiac surgery for primary angioplasty: a time for reappraisal, 1881

Sympathetic activity
Effects of dobutamine on cardiac sympathetic activity in patients with congestive heart failure, 1269
Sympathetic activation markedly reduces endothelium-dependent, flow-mediated vasodilation, 683

Sympathoexcitation
Cardiac sympathetic denervation modulates the sympathoexcitatory response to acute myocardial ischemia, 436

Tachycardia
See also Supraventricular tachycardia; Ventricular tachycardia
Influence of patient factors and ablative technologies on outcomes of radiofrequency ablation of intra-atrial re-entrant tachycardia in patients with congenital heart disease, 1827
Is electrical stimulation during administration of catecholamines required for the evaluation of success after ablation of atrioventricular node re-entrant tachycardia?, 689
Lesional tachycardias related to mitral valve surgery, 1973
Noncontact mapping to guide ablation of right ventricular outflow tract tachycardia, 1808
Three-dimensional nonfluoroscopic mapping and ablation of inappropriate sinus tachycardia, 1046

Teaching
President’s page: teaching: today’s investment in tomorrow, 373

Technetium-99m
Reversible regional wall motion abnormalities on exercise technetium-99m–gated cardiac single photon emission computed tomography predict high-grade angiographic stenoses, 991

Techniques
Guidelines for the ultrasound assessment of endothelial-dependent flow-mediated vasodilatation of the brachial artery, 257

Tenasin
Active intestinal remodeling: an important process in the hibernating human myocardium, 1468

Tenasin-C
Progression of human aortic valve stenosis is associated with tenasin-C expression, 96

Tezosentan
Short-term endothelin receptor blockade with tezosentan has both immediate and long-term beneficial effects in rats with myocardial infarction, 142

Thermal therapy
Repeated sauna treatment improves vascular endothelial and cardiac function in patients with chronic heart failure, 754

Three-dimensional nonfluoroscopic mapping
Three-dimensional nonfluoroscopic mapping and ablation of inappropriate sinus tachycardia, 1046

Thrombin
Rebound thrombin generation after heparin therapy in unstable angina, 811

Thromboembolism
Pulse wave reflection in pulmonary hypertension (letter), 743

Thrombolysis
Expanding the reach of primary percutaneous coronary intervention for the treatment of acute myocardial infarction (editorial), 1720
Primary angioplasty reduces the risk of left ventricular free wall rupture compared with thrombolysis in patients with acute myocardial infarction, 598
Randomized trial of transfer for primary angioplasty versus on-site thrombolysis in patients with high-risk myocardial infarction, 1713
Relationships of left ventricular ejection fraction, end-systolic volume index and infarct size to site-month mortality after hospital discharge following myocardial infarction treated by thrombolysis, 30
Reperfusion therapy in elderly patients with acute myocardial infarction, 1723

Thrombus
In vivo noninvasive detection and age definition of arterial thrombus by MRI, 1366

Thyroid hormone
Effects of thyroid hormone on the arrhythmogenic activity of pulmonary vein cardiomyocytes, 366

Ticlopidine
Meta-analysis of randomized and registry
comparisons of ticlopidine with clopidogrel after stenting.

Time to onset of regional relaxation
Time to onset of regional relaxation: feasibility, variability and utility of a novel index of regional myocardial function by strain rate imaging, 1531

Tissue factor
Role of vitronectin receptor (vÎ²3) and tissue factor in the pathogenesis of transplant coronary vasculopathy, 804

Tissue inhibitors of matrix metalloproteinases
Excessive activation of matrix metalloproteinases coincides with left ventricular remodeling during transition from hypertrophy to heart failure in hypertensive rats, 1384
Nitroglycerin upregulates matrix metalloproteinase expression by human macrophages, 1943

Tissue plasmogen activator
Ephthitabide and low-dose tissue plasminogen activator in acute myocardial infarction, 377

Tobacco
See Smoking

Tolerance
Effect of supplemental L-arginine on tolerance development during continuous transdermal nitroglycerin therapy, 1199

Tomography
See also Echocardiography
Clinical value of left atrial appendage flow for prediction of long-term sinus rhythm maintenance in patients with nonvalvular atrial fibrillation, 1443
Embolic events in patients with atrial fibrillation and effective anticoagulation: value of transesophageal echocardiography to guide direct-current cardioversion, 1436

Transforming growth factor-Î²1
Increased transforming growth factor-Î²1 circulating levels and production in human monocytes after 3-hydroxy-3-methyl-glutaryl-coenzyme A reductase inhibition with pravastatin, 1752

Transmyocardial laser revascularization
Comparison of mechanical and laser transmyocardial revascularization for induction of angiogenesis and arteriogenesis in chronically ischemic myocardium, 1220

Transmyocardial revascularization
Comparison of mechanical and laser transmyocardial revascularization for induction of angiogenesis and arteriogenesis in chronically ischemic myocardium, 1220
Continued symptomatic improvement three to five years after transmyocardial revascularization with CO2 laser, 1588
Prospective, multicenter, randomized trial of percutaneous transmyocardial laser revascularization in patients with nonreconstructable chronic total occlusions, 1581

Transplantation
See Heart transplantation

Transvalvular gradients
Survival after aortic valve replacement for severe aortic stenosis with low transvalvular gradients and severe left ventricular dysfunction, 1356

Trimetazidine
Acute effects of heparin administration on the ischemic threshold of patients with coronary artery disease, 413

Troponin I
Prognostic significance of elevated troponin I after percutaneous coronary intervention, 1738

Troponin T
Comparison of cardiac troponin T and creatine kinase-MB for patient evaluation after cardiac surgery, 1518
Prevalence and age-dependence of malignant mutations in the beta myosin heavy chain and troponin T genes in hypertrophic cardiomyopathy: a comprehensive outpatient perspective, 2042

Tumor necrosis factor-a
Improved myocardial ischemia/reperfusion injury in mice lacking tumor necrosis factor-a, 1229
Postprandial endothelial activation in healthy subjects and in type 2 diabetic patients: role of fat and carbohydrate meals, 1145

T-wave alternans
Onset heart rate of microvolt-level T-wave alternans provide clinical and prognostic value in nonischemic dilated cardiomyopathy, 295

Ultrasound
Abstracts, 340A
Detection of coronary stenosis and myocardial viability using a single intravenous bolus injection of BR14, 523
Dose heterogeneity may not affect the neointimal proliferation after gamma radiation for in-stent restenosis, 1937
Guidelines for the ultrasound assessment of endothelial-dependent flow-mediated vasodilation of the brachial artery, 257
Influence of injection site, microvascular pressure and ultrasound variables on microbubble-mediated delivery of microspheres to muscle, 726
Myocardial and microcirculatory kinetics of BR14, a novel third-generation intravenous ultrasound contrast agent, 530
Visualization of coronary atherosclerotic plaques in patients using optical coherence tomography: comparison with intravascular ultrasound, 604

Unstable angina pectoris
See Angina pectoris

Valve disease
See also Aortic valve; Mitral valve
Abstracts, 416A
Prognostic model for predicting the disappearance of left atrial thrombi among candidates for percutaneous transvenous mitral commissurotomy, 986
Progression of human aortic valve stenosis is associated with tenasin-C expression, 96
Serial echocardiographic evaluation of restenosis after successful percutaneous mitral commissurotomy, 328
Survival after aortic valve replacement for severe aortic stenosis with low transvalvular gradients and severe left ventricular dysfunction, 1356
Usefulness of the Cryolife O'Brien stentless supravalvular aortic valve to prevent prosthesis-patient mismatch in the small aortic root, 1845

VANQWISH trial
Revisiting the culprit lesion in non-Q-wave myocardial infarction: results from the VANQWISH Trial Angiographic Core Laboratory, 1456
Stress test criteria used in the conservative arm of the FRISC-II trial undedecteds surgical coronary artery disease when applied to patients in the VANQWISH trial, 1601

Vasa vasorum
Chronic endothelin receptor antagonism prevents coronary vasa vasorum neovascularization in experimental hypercholesterolemia, 1555

Vascular closure devices
Complications of vascular closure devices—not yet evidence based (letters), 1705

Vascular disease
Abstracts, 202A
Vasomotor effects and pathophysiologic relevance of F2-isoprostane formation in vascular diseases (letters), 554

Vascular endothelial growth factor
Atorvastatin decreases vascular endothelial growth factor in patients with coronary artery disease, 1951

Vasculopathy
Myocardial ischemia-fibrotic injury after human heart transplantation is associated with increased progression of vasculopathy, decreased cellular rejection and poor long-term outcome, 970
Role of vitronectin receptor (vÎ²3) and tissue factor in the pathogenesis of transplant coronary vasculopathy, 804

Vasodilation
Addition of spironolactone to angiotensin-converting enzyme inhibition in heart failure improves endothelial vasomotor dysfunction, 351
Guidelines for the ultrasound assessment of endothelial-dependent flow-mediated vasodilation of the brachial artery, 257
Sympathetic activation markedly reduces endothelium-dependent, flow-mediated vasodilation, 683
Vasodilator signals from the ischemic myocardium are transduced to the coronary vascular wall by pertussis toxin-sensitive G proteins, 1859

Vasodilators
Neurohormonal activation rapidly decreases after intravenous therapy with diuretics and vasodilators for class IV heart failure, 1623

Vasopressin inhibitors
Comparison of the effects of an angiotensin-conveting enzyme inhibitor and a vasopressin inhibitor after myocardial infarction in the rat, 1692
Vasopressin inhibition with omapatrilat in chronic heart failure: acute and long-term hemodynamic and neurohormonal effects, 2034

Ventricles
See Left ventricle; Right ventricle

Ventricular arrhythmias
Origin of ischemia-induced phase 1b ventricular arrhythmias in pig hearts, 166

Ventricular assist devices
Implantation of the permanent Jarvik-2000 left ventricular assist device, 1764
Left ventricular assist device in end-stage heart failure: persistence of structural myocardial damage after unloading, 963
Myocardial creatine kinase expression after left ventricular assist device support, 1773
Ventricular conduction delay
Chronic effect of hemodynamically optimized surface resynchronization therapy on patients with heart failure and ventricular conduction delay, 2026

Ventricular fibrillation
Biphasic waveform external defibrillation thresholds for spontaneous ventricular fibrillation secondary to acute ischemia, 359
Electrophysiologic characteristics and implications of induced ventricular fibrillation in symptomatic patients with Brugada syndrome, 1799
Endocardial wave front organization during ventricular fibrillation in humans, 109
Sudden death in patients with implantable cardioverter defibrillators, 1323

Ventricular septal defects
Long-term outcome of patients with ventricular septal defect considered not to require surgical closure during childhood, 1066

Ventricular tachyarrhythmias
Electrophysiologically guided amiodarone therapy versus the implantable cardioverter-defibrillator for sustained ventricular tachyarrhythmias after myocardial infarction, 1813

Ventricular tachycardia
Implantable defibrillator event rates in patients with idiopathic dilated cardiomyopathy, nonsustained ventricular tachycardia on holter and a left ventricular ejection fraction below 30%, 780
Repetitive monomorphic ventricular tachycardia originating from the aortic sinus cusp, 500
Sudden death in patients with implantable cardioverter defibrillators, 1323

Viruses
Detection of cardiotropic viruses in the myocardium of patients with arrhythmogenic right ventricular dysplasia/cardiomyopathy, 892

Vitronectin receptor
Role of vitronectin receptor (vß3) and tissue factor in the pathogenesis of transplant coronary vasculopathy, 804

Women
See also Gender; Postmenopausal women Biology of bias: practice patterns and long-term outcomes for men and women with acute myocardial infarction, 1909
Gender differences and normal left ventricular anatomy in an adult population free of hypertension, 1055
Improved outcomes for women undergoing contemporary percutaneous coronary intervention, 1608
Is early invasive treatment of unstable coronary artery disease equally effective for both women and men? (letter), 1565
Prognostic value of exercise echocardiography in 5,798 patients: is there a gender difference?, 625
Prospective study of dietary fiber intake and risk of cardiovascular disease among women, 49