Coronary stenosis detection by 16-slice computed tomography in heart transplant patients: comparison with conventional angiography and impact on clinical management, 1827
Improved diagnostic accuracy with 16-row multislice computed tomography coronary angiography, 128
Late angiographic stent thrombosis (LAST) events with drug-eluting stents, 2088
Noninvasive assessment of coronary vasodilatation using magnetic resonance angiography, 104
Relationship between angiographic late loss and target lesion revascularization after coronary stent implantation, 1191

Angioplasty
See also Balloon angioplasty; Percutaneous transluminal coronary angioplasty
Definition of failed lysis may have influenced outcome in the MERLIN trial (letter), 808
Rescue angioplasty—The MERLIN trial (letter), 806

Angioscopy
Angioscopic follow-up study of coronary ruptured plaques in nonculprit lesions, 652

Angiotensin II
Absence of acute effects of angiotensin II on atrial electrophysiology in humans (letter), 154
Angiotensin II inhibition and prevention of atrial fibrillation and stroke (editorial), 720
Angiotensin II receptor blockade reduces new-onset atrial fibrillation and subsequent stroke compared to atenolol, 712

Angiotensin receptor blockers
Prevention of atrial fibrillation with angiotensin converting enzyme inhibitors and angiotensin receptor blockers: a meta-analysis, 1833

Angiotensin-converting enzyme inhibitors
Angiotensin-converting enzyme inhibitor as a risk factor for the development of anemia, and the impact of incident anemia on mortality in patients with left ventricular dysfunction, 391
Cardiac medical therapy in patients after undergoing coronary artery bypass graft surgery, 177
Did they lower stress in the trial? (editorial), 858
Effect of perindopril on the onset and progression of left ventricular dysfunction in Duchenne muscular dystrophy, 855
Prevention of atrial fibrillation with angiotensin converting enzyme inhibitors and angiotensin receptor blockers: a meta-analysis, 1833
Reduced atrial fibrillation incidence by angiotensin-converting enzyme inhibitors: a possible contributing mechanism (letter), 1144

Animal models
Prior exercise training improves the outcome of acute myocardial infarction in the rat, 931
Anterior fat pad
Preservation of the anterior fat pad and incidence of postoperative atrial fibrillation following coronary surgery (letter), 1308

Anticoagulants
See also Aspirin
Ximelagatran: oral direct thrombin inhibitor as an anticoagulant therapy in atrial fibrillation, 1

Anti-inflammatory analgesics
Use of anti-inflammatory analgesics in the patient with cardiovascular disease (editorial), 1302

Antiplatelet therapy
Resistance to antiplatelet resistance: is it justified?, 1757
Stent thrombosis is associated with an impaired response to antiplatelet therapy, 1748

Variability in platelet responsiveness to clopidogrel among 544 individuals, 246

Aorta
Atherosclerosis of the aorta: risk factor, risk marker, or innocent bystander? (letter), 1907
Diagnosis of thin fibrous cap atheromas by a self-contained intravascular magnetic resonance imaging probe in ex-vivo human aortas and in-vivo coronary arteries, 1961
Does shear stress modulate both plaque progression and regression in the thoracic aorta?, 846

Aortic anulus
Homodynamic comparison of bioprostheses for complete suprannular position in patients with small aortic annulus, 2054

Aortic regurgitation
Afterload reduction in chronic aortic regurgitation (editorial), 1031
Long-term survival and functional results after aortic valve replacement in asymptomatic patients with chronic severe aortic regurgitation and left ventricular dysfunction, 1025
36th Bethesda Conference: Task force 3: valvular heart disease, 1334
Year in valvular heart disease, 111

Aortic stenosis
36th Bethesda Conference: Task force 2: congenital heart disease, 1326
36th Bethesda Conference: Task force 3: valvular heart disease, 1334
Year in valvular heart disease, 111

Aortic valve replacement
Clinical development of percutaneous heart valve technology, 1554
Long-term survival and functional results after aortic valve replacement in asymptomatic patients with chronic severe aortic regurgitation and left ventricular dysfunction, 1025

Apnea
Cardiac resynchronization therapy, central sleep apnea, and Cheyne-Stokes respiration in chronic heart failure patients (letter), 633
Inhibition of awake sympathetic nerve activity of heart failure patients with obstructive sleep apnea by nocturnal continuous positive airway pressure, Usui
Treating sleep apnea in heart failure patients: promises but still no prizes (editorial), 2012

Apolipoprotein C1
Apolipoprotein C1 content of triglyceride-rich lipoproteins independently predicts early atherosclerosis in healthy middle-aged men, 1013

Apoposis
Hibernating myocardium, apoptosis, and a simple mathematical task (letter). 466
Ventricular assist device therapy normalizes inducible nitric oxide synthase expression and reduces cardiomyocyte apoptosis in the failing human heart, 1419

Arrhythmias
See also Atrial fibrillation; Atrial flutter; Ventricular fibrillation; Ventricular tachycardia
Effects of left ventricular assist device therapy on ventricular arrhythmias, 1428
Idiopathic ventricular arrhythmia arising from the mitral annulus, 877
Mortality reduction by implantable cardioverter-defibrillators in high-risk patients with heart failure, ischemic heart disease, and new-onset ventricular arrhythmia, 1474

Role of transesophageal electrocardiographic monitoring in detecting short-term arrhythmia recurrences after radiofrequency ablation in patients with atrial fibrillation, 873
Spectrum and prognostic significance of arrhythmias on ambulatory Holter electrocardiogram in hypertrophic cardiomyopathy, 697
36th Bethesda Conference: Task force 7: arrhythmias, 1354
World Trade Center attack and cardiac events: fact or fear? (letter), 1732
Year in clinical electrophysiology, 790

Arrhythmogenic right ventricular cardiomyopathy
Impact of implantable cardioverter-defibrillator therapy on survival in autosomal-dominant arrhythmogenic right ventricular cardiomyopathy (ARVD), 400
Implantable cardioverter-defibrillator therapy in arrhythmogenic right ventricular cardiomyopathy (editorial), 409
Noninvasive detection of myocardial fibrosis in arrhythmogenic right ventricular cardiomyopathy using delayed-enhancement magnetic resonance imaging, 98
36th Bethesda Conference: Task force 4: HCM and other cardiomyopathies, mitral valve prolapse, myocarditis, and Marfan syndrome, 1340

Arrhythmogenic right ventricular dysplasia
Echocardiographic findings and the search for a gold standard in patients with arrhythmogenic right ventricular dysplasia (editorial), 866
Echocardiographic findings in patients meeting task force criteria for arrhythmogenic right ventricular dysplasia, 860

Arterial switch operation
Intracoronary ultrasound assessment late after the arterial switch operation for transposition of the great arteries, 2061

Arteriotomy
Vascular complications and arteriotomy during percutaneous coronary procedures (letter), 2095

Aspirin
Coronary syndromes following aspirin withdrawal, 456
Highlights of the year in JACC 2004, 137
Is aspirin resistance or female gender associated with a high incidence of myocard necrosis after nonurgent percutaneous coronary intervention? (letter), 635
Pharmacodynamic interaction of naproxen with low-dose aspirin in healthy subjects, 1295

Atenolol
Angiotensin II receptor blockade reduces new-onset atrial fibrillation and subsequent stroke compared to atenolol, 712

Atheromas
Diagnosis of thin fibrous cap atheromas by a self-contained intravascular magnetic resonance imaging probe in ex-vivo human aortas and in-vivo coronary arteries, 1961

Atherosclerosis
See also Coronary artery disease
Apolipoprotein C1 content of triglyceride-rich lipoproteins independently predicts early atherosclerosis in healthy middle-aged men, 1013

Atherosclerosis of the aorta: risk factor, risk marker, or innocent bystander? (letter), 1907
Atherosclerotic plaque

Increase of C-reactive protein is associated with another look at the age-old question (editorial), 1603

Plant sterols in serum and in atherosclerotic plaques

Multiple plaque rupture and C-reactive protein in incidence and clinical correlates of ruptured plaques in nonculprit lesions, 652

Fluore and active inflammation occurs in both vulnerable and stable plaques of the entire coronary tree, 1585

Does shear stress modulate both plaque progression and regression in the thoracic aorta?, 846

Effect of lipid-lowering therapy with atorvastatin on asymptomatic subjects with high vascular risk? (editorial), 1994

Should we screen for occult coronary artery disease among asymptomatic patients with diabetes?, 50

Atherosclerotic plaque

Act local, act global (editorial), 1600

Angioscopic follow-up study of coronary ruptured plaques in nonculprit segments, 652


Diffuse and active inflammation occurs in both vulnerable and stable plaques of the entire coronary tree, 1585

Does shear stress modulate both plaque progression and regression in the thoracic aorta?, 846

Effect of lipid-lowering therapy with atorvastatin on atherosclerotic aortic plaques detected by noninvasive magnetic resonance imaging, 733

Failure to protect the myocardium against ischemia/reperfusion injury after chronic atorvastatin treatment is recaptured by acute atorvastatin treatment, 1287

Relative efficacy of atorvastatin 80 mg and pravastatin 40 mg in achieving he dual goals of low-density lipoprotein cholesterol, 1644

Atrial fibrillation

Angiotensin II inhibition and prevention of atrial fibrillation and stroke (editorial), 520

Angiotensin II receptor blockade reduces new-onset atrial fibrillation and subsequent stroke compared to atenolol, 712

Are transmural echocardiographic parameters associated with atrial fibrillation recurrence or stroke? Results from the AFFIRM study, 2026

Atrial fibrillation: the ancient conundrum defies simple solution, 1814

Autonomically induced conversion of pulmonary vein foci into atrial fibrillation, 1879

Beta-blockers versus digoxin to control ventricular rate during atrial fibrillation (letter), 1906

Cardiovascular morbidity and mortality in hypertensive patients with a history of atrial fibrillation, 705

Heart rate turbulence after atrial premature beats before spontaneous onset of atrial fibrillation, 278

Atrial septal aneurysm

Transcatheter treatment of atrial septal aneurysm associated with patent foramen ovale for prevention of recurrent paradoxical embolism in high-risk patients, 377

Atrial septal defect

Association of interatrial shunts and migraine headaches, 489

Cardiac perforation after device closure of atrial septal defects with the Amplatzer Septal Occluder, 1213

Highlights of the year in JACC 2004, 137

Improvements in cardiac form and function after transcatheter closure of secundum atrial septal defects, 499

Long-term outcome of transcatheter secundum-type atrial septal defect closure using Amplatzer septal occluders, 505

36th Bethesda Conference: Task force 2: congenital heart disease, 1326

Atrial tachycardia

Focal atrial tachycardia from the ostium of the coronary sinus, 1488

Atrioventricular block

Reversible atrioventricular block and the Amplatzer device (letter), 1306

36th Bethesda Conference: Task force 7: arrhythmias, 1354

Atrioventricular junction

Transvenous cryothermal catheter ablation of re- entry circuit located near the atrioventricular junction in pediatric patients, 1096
Cardiopulmonary exercise testing
Cardiomyopathy
Cardiomyocytes
Cardiac transplantation
Cardiogenic shock
Does inhaled nitric oxide support the hemodynamics of spontaneous breathing patients with cardiogenic shock related to right ventricular myocardial infarction? (letter), 965
Cardiologists
Cardiologist in the carotids (letter), 326
Morphing of cardiovascular specialists, 960
Note on the history of cardiology: Dr. Otto Klein, 1881 to 1968, 446
Quality of care reigns supreme: cardiologist at the helm, Wolk
Cardiology
Highlights of the year in JACC 2004, 137
Note on the history of cardiology: Dr. Otto Klein, 1881 to 1968, 446
President’s page: women in cardiology: leading our present, guiding our future, 1543
Year in cardiovascular surgery, 1517
Year in clinical electrophysiology, 790
Year in echocardiography, 448
Year in interventional cardiology, 1117
Cardiomyocytes
Ventricular assist device therapy normalizes inducible nitric oxide synthase expression and reduces cardiomyocyte apoptosis in the failing human heart, 1419
Cardiomyopathy
See also Dilated cardiomyopathy; Hypertrophic cardiomyopathy
Early recovery of impaired coronary flow reserve by carvedilol therapy in patients with idiopathic dilated cardiomyopathy: a serial transthoracic Doppler echocardiographic study (letter), 318
Impact of implantable cardioverter-defibrillator therapy on survival in autosomal-dominant arhytmogenic right ventricular cardiomyopathy (ARVD5), 400
Implantable cardioverter-defibrillator therapy in arhythmogenic right ventricular cardiomyopathy (editorial), 409
Noninvasive detection of myocardial fibrosis in arhythmogenic right ventricular cardiomyopathy using delayed-enhancement magnetic resonance imaging, 98
Cardioprotection
Cyclooxygenase-1 mediates the final stage of morphine-induced delayed cardioprotection in concert with cyclooxygenase-2, 1707
Cardiopulmonary exercise testing
Cardiopulmonary exercise testing in patients with heart failure (letter), 163
Cardiovascular care
American College of Cardiology and American Heart Association methodology for the selection and creation of performance measures for quantifying the quality of cardiovascular care, 1147
Cardiovascular disease
Diets and cardiovascular disease, 1379
Use of anti-inflammatory analgesics in the patient with cardiovascular disease (editorial), 1302
Cardiovascular events
Evidence for an increased rate of cardiovascular events in patients with primary aldosteronism, 1243
Positron emission tomography-measured abnormal responses of myocardial blood flow to sympathetic stimulation are associated with the risk of developing cardiovascular events, 1505
Should we consider aldosteronism as the primary screening target for preventing cardiovascular events? (editorial), 1249
World Trade Center attack and cardiovascular events: fact or fear? (letter), 1732
Cardiovascular medicine
Use of ultrasound contrast agents for gene or drug delivery in cardiovascular medicine, 329
Cardiovascular surgery
Year in cardiovascular surgery, 1517
Cardiovascular system
Alcohol and the cardiovascular system: research challenges and opportunities, 1916
Carotid artery
Relationship between carotid artery intima-media thickness and brachial artery flow-mediated dilation in middle-aged healthy men, 1980
Carotid atherosclerosis
Increased carotid atherosclerosis in andropausal men, 1603
Carotid endarterectomy
Plant sterols in serum and in atherosclerotic plaques of patients undergoing carotid endarterectomy, 1795
Carotid sinus syndrome
Anemia for loss of consciousness in carotid sinus syndrome—implications for presentation with falls, 1841
Carotid stenting
See also Stents and stenting
Cardiologist in the carotids (letter), 326
Clinical competence statement on carotid stenting: training and credentialing for carotid stenting—multispecialty consensus recommendations, 165
Emolic protection devices for carotid artery stenting: is there a difference between filter and distal occlusive devices?, 1775
Carvedilol
Antiarrhythmic effect of carvedilol after acute myocardial infarction, 525
Early recovery of impaired coronary flow reserve by carvedilol therapy in patients with idiopathic dilated cardiomyopathy: a serial transthoracic Doppler echocardiographic study (letter), 318
Influence of pretreatment systolic blood pressure on endarterectomy, 1795
Endocardial protection devices for carotid artery endarterectomy, 1795
Stents and stenting—multispecialty consensus training and credentialing for carotid endarterectomy, 1795
Improved outcomes of pediatric dilated cardiomyopathy and heart transplantation (letter), 1733
Transcatheter cryoablation of tachyarrhythmias in children, 133
Transvenous cryothermal catheter ablation of re-entry circuit located near the atrioventricular junction in pediatric patients, 1096
Cholesterol
See also Hypercholesterolemia
Common PCSK9 haplotype, encompassing the E670G coding single nucleotide polymorphism, is a novel genetic marker for plasma low-density- lipoprotein cholesterol levels and severity of coronary atherosclerosis, 1611
Different effects of high cholesterol diet on ischemic cardiac dysfunction and remodeling induced by coronary stenosis and by coronary occlusion, 2078
Plant sterols in serum and in atherosclerotic plaques of patients undergoing carotid endarterectomy, 1795
Catheter ablation
See also Ablation; Radiofrequency ablation
Focal atrial tachycardia from the ostium of the coronary sinus, 1488
Multislice computed tomography versus intracardiac echocardiography to evaluate the pulmonary veins before radiofrequency catheter ablation of atrial fibrillation, 343
Outflow tract tachycardia with R/S transition in lead V6, 418
Radiofrequency ablation of “benign” right ventricular outflow tract extrasystole? (editorial), 1266
Radiofrequency catheter ablation of premature ventricular complexes from right ventricular outflow tract improves left ventricular dilation and clinical status in patients without structural heart disease, 1259
Catheter pump
An expandable percutaneous catheter pump for left ventricular support: proof of concept, 1857
CD34
Endothelial progenitor cell capture by stents coated with antibody against CD34, 1574
CD40 ligand
CD40 ligand enhances monocyte tissue factor expression and thrombin generation via oxidative stress in patients with hypercholesterolemia, 35
CD144
Elevated levels of VE-cadherin-positive endothelial microparticles in patients with type-2 diabetes mellitus and coronary artery disease, 1622
Central sleep apnea
Cardiac resynchronization therapy, central sleep apnea, and Cheyne-Stokes respiration in chronic heart failure patients (letter), 633
Cheyne-Stokes respiration
Cardiac resynchronization therapy, central sleep apnea, and Cheyne-Stokes respiration in chronic heart failure patients (letter), 633
Children
Better outcome after pediatric defibrillation dosage than adult dosage in a swine model of pediatric ventricular fibrillation, 786
Cryo-ablation for septal tachycardia substrates in pediatric patients, 581
Effectiveness of fludrocortisone and salt in preventing syncope recurrence in children, 484
Improved outcomes of pediatric dilated cardiomyopathy and heart transplantation (letter), 1733
Transcatheter cryoablation of tachyarrhythmias in children, 133
Transvenous cryothermal catheter ablation of re-entry circuit located near the atrioventricular junction in pediatric patients, 1096
Cholesterol
See also Hypercholesterolemia
Common PCSK9 haplotype, encompassing the E670G coding single nucleotide polymorphism, is a novel genetic marker for plasma low-density-lipoprotein cholesterol levels and severity of coronary atherosclerosis, 1611
Different effects of high cholesterol diet on ischemic cardiac dysfunction and remodeling induced by coronary stenosis and by coronary occlusion, 2078
Plant sterols in serum and in atherosclerotic plaques of patients undergoing carotid endarterectomy, 1795
Catheter ablation
See also Ablation; Radiofrequency ablation
Focal atrial tachycardia from the ostium of the coronary sinus, 1488
Multislice computed tomography versus intracardiac echocardiography to evaluate the pulmonary veins before radiofrequency catheter ablation of atrial fibrillation, 343
Outflow tract tachycardia with R/S transition in lead V6, 418
Radiofrequency ablation of “benign” right ventricular outflow tract extrasystole? (editorial), 1266
Radiofrequency catheter ablation of premature ventricular complexes from right ventricular outflow tract improves left ventricular dilation and clinical status in patients without structural heart disease, 1259
Catheter pump
An expandable percutaneous catheter pump for left ventricular support: proof of concept, 1857
CD34
Endothelial progenitor cell capture by stents coated with antibody against CD34, 1574
CD40 ligand
CD40 ligand enhances monocyte tissue factor expression and thrombin generation via oxidative stress in patients with hypercholesterolemia, 35
CD144
Elevated levels of VE-cadherin-positive endothelial microparticles in patients with type-2 diabetes mellitus and coronary artery disease, 1622
Central sleep apnea
Cardiac resynchronization therapy, central sleep apnea, and Cheyne-Stokes respiration in chronic heart failure patients (letter), 633
Cheyne-Stokes respiration
Cardiac resynchronization therapy, central sleep apnea, and Cheyne-Stokes respiration in chronic heart failure patients (letter), 633
Children
Better outcome after pediatric defibrillation dosage than adult dosage in a swine model of pediatric ventricular fibrillation, 786
Cryo-ablation for septal tachycardia substrates in pediatric patients, 581
Effectiveness of fludrocortisone and salt in preventing syncope recurrence in children, 484
Improved outcomes of pediatric dilated cardiomyopathy and heart transplantation (letter), 1733
Transcatheter cryoablation of tachyarrhythmias in children, 133
Transvenous cryothermal catheter ablation of re-entry circuit located near the atrioventricular junction in pediatric patients, 1096
Cholesterol
See also Hypercholesterolemia
Common PCSK9 haplotype, encompassing the E670G coding single nucleotide polymorphism, is a novel genetic marker for plasma low-density-lipoprotein cholesterol levels and severity of coronary atherosclerosis, 1611
Different effects of high cholesterol diet on ischemic cardiac dysfunction and remodeling induced by coronary stenosis and by coronary occlusion, 2078
Plant sterols in serum and in atherosclerotic plaques of patients undergoing carotid endarterectomy, 1795
Relative efficacy of atorvastatin 80 mg and pravastatin 40 mg in achieving he dual goals of low-density lipoprotein cholesterol, 1644

Clinical trials
Major meetings and the phenomenon of late-breaking clinical trials, 1304

Clopidogrel
Economic effects of prolonged clopidogrel therapy after percutaneous coronary intervention, 369
Long-term cost-effectiveness of clopidogrel given for up to one year in patients with acute coronary syndromes without ST-segment elevation, 838
Resistance to clopidogrel: a review of the evidence, 1157
Variability in platelet responsiveness to clopidogrel among 544 individuals, 246

Coarctation of the aorta
Highlights of the year in JACC 2004, 137
Impact of re-coarctation following the Norwood operation on survival in the balloon angioplasty era, 1845
36th Bethesda Conference: Task force 2: congenital heart disease, 1326

Collateral blood flow
Role of collateral blood flow in the apparent disparity between the extent of abnormal wall thickening and perfusion defect size during acute myocardial infarction and demand ischemia, 565
Commotio cordis
36th Bethesda Conference: Task force 11: commotio cordis, 1371

Computed tomography
See also Multidetector computed tomography; Multislice computed tomography; Single-photon emission computed tomography
Assessment of myocardial viability in reperfused acute myocardial infarction using 16-slice computed tomography in comparison to magnetic resonance imaging, 2042
Coronary stenosis detection by 16-slice computed tomography in heart transplant patients: comparison with conventional angiography and impact on clinical management, 1827
Diagnostic accuracy of noninvasive coronary imaging using 16-detector slice spiral computed tomography with 188 ms temporal resolution, 123
Improved diagnostic accuracy with 16-row multislice computed tomography coronary angiography, 128
Multislice computed tomography versus intracardiac echocardiography to evaluate the pulmonary veins before radiofrequency catheter ablation of atrial fibrillation, 343
Noninvasive visualization of the cardiac venous system using multislice computed tomography, 749

Congenital heart disease
See also specific disorder
Prevalence and clinical manifestations of 22q11.2 microdeletion in adults with selected conotruncal anomalies, 595
36th Bethesda Conference: Task force 2: congenital heart disease, 1326
Year in congenital heart disease, 1888
Year in congenital heart disease (letter), 467
Congenitally corrected transposition of the great arteries
36th Bethesda Conference: Task force 2: congenital heart disease, 1326

Conotruncal anomalies
Prevalence and clinical manifestations of 22q11.2 microdeletion in adults with selected conotruncal anomalies, 595

Constrictive pericarditis
Efficacy of brain natriuretic peptide levels in differentiating constrictive pericarditis from restrictive cardiomyopathy, 1901

Continuous positive airway pressure
Inhibition of awake sympathetic nerve activity of heart failure patients with obstructive sleep apnea by nocturnal continuous positive airway pressure, 2008

Contrast agents
Evaluation of the accuracy of gadolinium-enhanced cardiovascular magnetic resonance in the diagnosis of cardiac sarcoidosis, 1683
Noninvasive diagnosis of coronary artery disease in patients with heart failure and systolic dysfunction of uncertain etiology, using late gadolinium-enhanced cardiovascular magnetic resonance, 743
Quantification of absolute myocardial perfusion in humans by contrast echocardiography, 754
Use of ultrasound contrast agents for gene or drug delivery in cardiovascular medicine, 329

Coronary angiography
Improved diagnostic accuracy with 16-row multislice computed tomography coronary angiography, 128

Coronary arteries
Diagnosis of thin fibrous cap atheromas by a self-contained intravascular magnetic resonance imaging probe in ex vivo human aortas and in situ coronary arteries, 1961
Evaluation of flow in the left anterior descending coronary artery but not in the left internal mammary artery graft predicts significant stenosis of the arterial conduit, 424
Long-term safety of intravascular ultrasound in nontransplant, nonintervened, atherosclerotic coronary arteries, 559
Multiple overlapping drug-eluting stents to treat diffuse disease of the left anterior descending coronary artery, 1570
Outcome of paclitaxel-eluting stent implantation in patients with stenosis of the left anterior descending coronary artery, 1186
Siroliimus-eluting stent implantation for unprotected left main coronary artery stenosis, 351

Coronary artery bypass grafting
Big chill: the deleterious effects of public reporting on access to health care for the sickest patients, 1766
Cardiac medical therapy in patients after undergoing coronary artery bypass graft surgery, 177
N-3 fatty acids for the prevention of atrial fibrillation after coronary artery bypass graft surgery, 177
Seven-year follow-up after dobutamine stress echocardiography, 1723
Relationship of irreversible myocardial injury to troponin I and creatine kinase-MB elevation after coronary artery bypass surgery: insights from cardiovascular magnetic resonance imaging (letter), 629
Staged initial percutaneous coronary intervention followed by valve surgery (‘hybrid approach’) for patients with complex coronary and valve disease, 14
Year in cardiovascular surgery, 1517

Coronary artery calcium
Highlights of the year in JACC 2004, 137

Coronary artery disease
See also Atherosclerosis; Coronary heart disease
Another look at the age-old question (editorial), 244

Angiotensin-converting enzyme inhibitors and outcome among patients with heart failure and renal insufficiency: need for a prospective study(letter), 1905
Diagnostic accuracy of noninvasive coronary imaging using 16-detector slice spiral computed tomography with 188 ms temporal resolution, 123
Dietary linolenic acid and adjusted QT and JT intervals in the National Heart, Lung, and Blood Institute Family Heart Study, 1716
Elevated levels of VE-cadherin-positive endothelial microparticles in patients with type-2 diabetes mellitus and coronary artery disease, 1622
Epidemiology, pathophysiology, and management of psychosocial risk factors in cardiac practice, 637
Gender-based outcomes after paclitaxel-eluting stent implantation in patients with coronary artery disease, 1180
Health-related quality of life after interventional or conservative strategy in patients with unstable angina or non-ST-segment elevation myocardial infarction, 221
High-dose folic acid acutely improves coronary vasodilator function in patients with coronary artery disease, 1580
Highlights of the year in JACC 2004, 137
Identifying high-risk asymptomatic diabetic patients who are candidates for screening stress single-photon emission computed tomography imaging, 43
Intravascular ultrasound-guided treatment for angiographically indeterminate left main coronary artery disease, 204
Noninvasive diagnosis of coronary artery disease in patients with heart failure and systolic dysfunction of uncertain etiology, using late gadolinium-enhanced cardiovascular magnetic resonance, 743
Plasma triglycerides and type III hyperlipidemia are independently associated with premature familial coronary artery disease, 1003
Pregnancy-associated plasma protein-A levels in patients with acute coronary syndromes, 229
Prognostic implications of elevated troponin in patients with suspected acute coronary syndrome but no critical epicardial coronary artery disease, 19
Prognostic value of long sestamibi uptake in myocardial perfusion imaging of patients with known or suspected coronary artery disease, 1670
Safety of dobutamine stress real-time myocardial contrast echocardiography, 1235
Seven-year follow-up after dobutamine stress echocardiography, 93
Should we screen for occult coronary artery disease among asymptomatic patients with diabetes?, 50
36th Bethesda Conference: Task force 6: coronary artery disease, 1348
Unrestricted use of paclitaxel- versus sirolimus-eluting stents for coronary artery disease in an unselected population, 1135
Year in interventional cardiology, 1117

Coronary calcium screening

Subject Index: Volume 45

2111

JACC Vol. 45, No. 12, 2005
June 21, 2005:2108–2111
Coronary flow
Hyperglycemia is an important predictor of impaired coronary flow before reperfusion therapy in ST-segment elevation myocardial infarction, 999

Coronary flow reserve
Early recovery of impaired coronary flow reserve by carvedilol therapy in patients with idiopathic dilated cardiomyopathy: a serial transthoracic Doppler echocardiographic study (letter), 318
Pressure-derived measurement of coronary flow reserve, 216

Coronary heart disease
See also Coronary artery disease
Gender-specific impact of diabetes and myocardial infarction at baseline and during follow-up on mortality from all causes and coronary heart disease, 1413
Recent hypertension trials, 813
Coronary pressure
Pressure-derived measurement of coronary flow reserve, 216

Coronary sinus
Focal atrial tachycardia from the ostium of the coronary sinus, 1488

Coronary vasodilator
Noninvasive assessment of coronary vasodilatation using magnetic resonance angiography, 104

Coronary vasodilator
High-dose folic acid acutely improves coronary vasodilator function in patients with coronary artery disease, 1580

Coronary vasomotor dysfunction
Increased ambulatory pulse pressure is a strong risk factor for coronary endothelial vasomotor dysfunction, 1461

COX-2 inhibitors
Use of anti-inflammatory analgesics in the patient with cardiovascular disease (editorial), 1302

C-reactive protein
Angiographic follow-up study of coronary ruptured plaques in nonculprit lesions, 652
Another look at the age-old question (editorial), 244
Association of Helicobacter pylori infection with systemic inflammation and endothelial dysfunction in healthy male subjects, 1219
C-reactive protein and electrocardiographic ST-segment depression additively predict mortality: The Strong Heart Study, 1788
Effects of physical activity on serum C-reactive protein and inflammatory markers, 1563
Increase of C-reactive protein is associated with enhanced activation of endogenous fibrinolysis at baseline but an impaired endothelial fibrinolytic response after venous occlusion, 30
Multiple plaque rupture and C-reactive protein in acute myocardial infarction, 1594

Cystatin-C
Cystatin-C and mortality in elderly persons with coronary heart disease, 1326

Cyclooxygenase-1
Cyclooxygenase-1 mediates the final stage of morphine-induced delayed cardioprotection in concert with cyclooxygenase-2, 216
Increased skeletal muscle amino acid release with light exercise in deconditioned patients with heart failure (letter), 138
Defibrillation
Better outcome after pediatric defibrillation dosage than adult dosage in a swine model of pediatric ventricular fibrillation, 786
Current of injury predicts adequate active lead fixation in permanent pacemaker/defibrillation leads, 412
Defibrillation thresholds testing of implantable cardioverter-defibrillators at implantation (letter), 468
Defibrillators
See also Automated external defibrillators; Implantable cardioverter-defibrillators Patient alert and cardiac defibrillators, 966

Demand ischemia
Role of collateral blood flow in the apparent disparity between the extent of abnormal wall thickening and perfusion defect size during acute myocardial infarction and demand ischemia, 565

Dementia
Optimal lipids, statins, and dementia (letter), 963

Depression
Depression as a predictor for appropriate shocks among patients with implantable cardioverter-defibrillators, 1090

Diabetes mellitus
Circulating endothelial progenitor cells are reduced in peripheral vascular complications of type 2 diabetes mellitus, 1449
Drug-eluting stents for diabetes mellitus, 479
Elevated levels of VE-cadherin-positive endothelial microparticles in patients with type-2 diabetes mellitus and coronary artery disease, 1622
Gender-specific impact of diabetes and myocardial infarction at baseline and during follow-up on mortality from all causes and coronary heart disease, 1415
Identifying high-risk asymptomatic diabetic patients who are candidates for screening stress single-photon emission computed tomography imaging, 43
Impact of diabetes mellitus on myocardial perfusion after primary angioplasty in patients with acute myocardial infarction, 508
Impact of microvascular complications on outcome after coronary stent implantations in patients with diabetes, 464
Outcomes with the polymer-based paclitaxel-eluting TAXUS stent in patients with diabetes mellitus, 1172
Should we screen for occult coronary artery disease among asymptomatic patients with diabetes?, 20
Use of bivalirudin during percutaneous coronary intervention in patients with diabetes mellitus: an analysis from the REPLACE-2 trial, 1932

Diastolic dysfunction
Diastolic dysfunction and left atrial volume, 87
Diastolic dysfunction and Doppler echocardiography (letter), 2095

Diet(s)
Dietary linoleic acid and adjusted QT and JT intervals in the National Heart, Lung, and Blood Institute Family Heart Study, 1716
Diets and cardiovascular disease, 1379
Different effects of high cholesterol diet on ischemic cardiac dysfunction and remodeling induced by coronary stenosis and by coronary occlusion, 2078
Fish intake and risk of incident heart failure, 2015

Digoxin
Beta-blockers versus digoxin to control ventricular rate during atrial fibrillation, 1906

Dilated cardiomyopathy
Alterations in myocardial tissue factor expression and cellular localization in dilated cardiomyopathy, 1081
Clinical and genetic issues in familial dilated cardiomyopathy, 969
Early recovery of impaired coronary flow reserve by carvedilol therapy in patients with idiopathic dilated cardiomyopathy: a serial transthoracic Doppler echocardiographic study (letter), 318
Improved outcomes of pediatric dilated cardiomyopathy and heart transplantation (letter), 1733

Dipyridamole stress
Comparison of treadmill exercise versus dipyridamole stress with myocardial perfusion imaging using rubidium-82 positron emission tomography, 1227

Direct thrombin inhibitors
Ximelagatran: oral direct thrombin inhibitor as anticoagulant therapy in atrial fibrillation, 1

Disopyramide
Multicenter study of the efficacy and safety of disopyramide in obstructive hypertrophic cardiomyopathy, 1251

Dobutamine stress echocardiography
Safety of dobutamine stress real-time myocardial contrast echocardiography, 1235
Seven-year follow-up after dobutamine stress echocardiography, 93

Doppler echocardiography
See also Echocardiography
Diasstolic dysfunction and Doppler echocardiography (letter), 2095
Early recovery of impaired coronary flow reserve by carvedilol therapy in patients with idiopathic dilated cardiomyopathy: a serial transthoracic Doppler echocardiographic study (letter), 318
Use of live three-dimensional Doppler echocardiography in the measurement of cardiac output, 433

Doppler guide wire
Detection of embolic particles with the Doppler guide wire during coronary intervention in patients with acute myocardial infarction, 212
Drug delivery
Efficacy of a patient-activated pharmacologic pump using phenylephrine as active drug and prodromal symptoms as a marker of imminent loss of consciousness to abort tilt-induced syncpe (letter), 320
Use of ultrasound contrast agents for gene or drug delivery in cardiovascular medicine, 329
Drug-eluting stents
See also Paclitaxel-eluting stents; Sirolimus-eluting stents
Angiographic patterns of restenosis after paclitaxel-eluting stent implantation, 805
Direct stenting of native de novo coronary artery lesions with the sirolimus-eluting stent, 10
Drug-eluting stent thrombosis, 954
Drug-eluting stents for diabetes mellitus, 479
Gender-based outcomes after paclitaxel-eluting stent implantation in patients with coronary artery disease, 1180
Highlights of the 2004 Transcatheter Cardiovascular Therapeutics (TCT) Annual Meeting: clinical implications, 796
Highlights of the year in JACC 2004, 137
Late angiographic stent thrombosis (LAST) events with drug-eluting stents, 2088
Multiple overlapping drug-eluting stents to treat diffuse disease of the left anterior descending coronary artery, 1570
Outcomes of paclitaxel-eluting stent implantation in patients with stenosis of the left anterior descending coronary artery, 1186
Outcomes with the paclitaxel-eluting stent in patients with acute coronary syndromes, 1165
Outcomes with the polymer-based paclitaxel-eluting TAXUS stent in patients with diabetes mellitus, 1172
Prospective randomized comparison between paclitaxel and sirolimus stents in the real world of interventional cardiology, 308
Sirolimus-eluting stent implantation for unprotected left main coronary artery stenosis, 351
Surrogates, substudies, and real clinical end points in trial of drug-eluting stents (editorial), 1206
Thirty-day incidence and six-month clinical outcome of thrombotic stent occlusion after bare-metal, sirolimus, or paclitaxel stent implantation, 947
Treatment of saphenous vein graft lesions with drug-eluting stents, 989
Unrestricted use of paclitaxel- versus sirolimus-eluting stents for coronary artery disease in an unselected population, 1135
Drugs
36th Bethesda Conference: Task force 9: drugs and performance-enhancing substances, 1364
Duchenne muscular dystrophy
Effect of perindopril on the onset and progression of left ventricular dysfunction in Duchenne muscular dystrophy, 855
Ductus arteriosus
Highlights of the year in JACC 2004, 137
Early afterdepolarizations
Cellular and ionic mechanism for drug-induced long QT syndrome and effectiveness of drug treatment, 300
Ebstein’s anomaly
36th Bethesda Conference: Task force 2: congenital heart disease, 1326
Echocardiography
See also Doppler echocardiography
Apparently normal mitral valves in patients with heart failure demonstrate biochemical and structural derangements, 54
Are transthoracic echocardiographic parameters associated with atrial fibrillation recurrence or stroke? Results from the AFFIRM study, 2026
Diasstolic dysfunction and left atrial volume, 87
Diasstolic dysfunction and Doppler echocardiography (letter), 2095
Early recovery of impaired coronary flow reserve by carvedilol therapy in patients with idiopathic dilated cardiomyopathy: a serial transthoracic Doppler echocardiographic study (letter), 318
Echocardiographic findings and the search for a gold standard in patients with arrhythmogenic right ventricular dysplasia (editorial), 866
Echocardiographic findings in patients meeting task force criteria for arrhythmogenic right ventricular dysplasia, 860
Echocardiographic predictors of morbidity and mortality in patients with advanced heart failure, 1064
Electrocardiography and Doppler echocardiography for risk stratification in patients with chronic heart failure, 1072
Evaluation of flow in the left anterior descending coronary artery but not in the left internal mammary artery graft predicts significant stenosis of the arterial conduit, 424
Heart rate turbulence after atrial premature beats before spontaneous onset of atrial fibrillation, 278
Highlights of the year in JACC 2004, 137
Incremental predictive power of B-type natriuretic peptide and tissue Doppler echocardiography in the prediction of patients with congestive heart failure, 1223
Independent and incremental prognostic value of early mitral annulus velocity in patients with impaired left ventricular systolic function, 272
Left ventricular assist device malfunction, 1435
Multislice computed tomography versus intracardiac echocardiography to evaluate the pulmonary veins before radiofrequency catheter ablation of atrial fibrillation, 343
Patients with atrial fibrillation and dense spontaneous echo contrast at high risk—a prospective and serial follow-up over 12 months with transesophageal echocardiography and cerebral magnetic resonance imaging, 1808
Pre-existent left atrial scarring in patients undergoing pulmonary vein antrum isolation, 285
Quantification of absolute myocardial perfusion in humans by contrast echocardiography, 754
Quantitation of mitral valve testing in ischemic mitral regurgitation by transthoracic real-time three-dimensional echocardiography, 763
Safety of dobutamine stress real-time myocardial contrast echocardiography, 1235
Seven-year follow-up after dobutamine stress echocardiography, 93
Stress echocardiography: current methodology and clinical applications, 1739
Use of five three-dimensional Doppler echocardiography in the measurement of cardiac output, 433
Ventricular asynchrony predicts a better outcome in patients with chronic heart failure receiving cardiac resynchronization therapy, 65
Year in echocardiography, 448
Editorials
Act local, act global, 1600
Afterload reduction in chronic aortic regurgitation, 1031
Andropause and intima media thickness, 1609
Angiotensin II inhibition and prevention of atrial fibrillation and stroke, 720
Another look at the age-old question, 244
Benefit of an exercise program before myocardial infarction, 939
Cardiac resynchronization therapy 101, 70
Care disparities, 79
Did they lower stress in the trial?, 858
Echocardiographic findings and the search for a gold standard in patients with arrhythmogenic right ventricular dysplasia, 866
Endothelial progenitor cell loss and atherosclerotic inflammation, 1458
Growth of diagnostic imaging services, 2093
Implantable cardioverter-defibrillator therapy in arrhythmogenic right ventricular cardiomyopathy, 409
Improvement of heart failure after renal transplantation, 1061
Improving the outcomes of heart failure care, 1665
Inducible nitric oxide synthase in severe human heart failure, 1425
Is mitral regurgitation a viable treatment target in heart failure?, 388
Mitral valve abnormalities in congestive heart failure, 62
Picking plaques that pop.—, 1970
Plaque rupture and intracoronary thrombus in nonculprit vessels, 659
Pleiotropic effects of statins, 1292
Primary and a half prevention—can we identify asymptomatic subjects with high vascular risk?, 1994
Quantitative instruments for predicting risk. . . and benefit, 730
Radiofrequency ablation of “benign” right ventricular outflow tract extrastole?, 1266
Relationship between inflammation and venous thromboembolism as studied by microparticle assessment in plasma, 1472
Residual pulmonary artery hypertension after mitral valve replacement, 1041
Should we consider aldosterone as the primary screening target for preventing cardiovascular events?, 1249
Surrogates, substudies, and real clinical end points in trial of drug-eluting stents, 1206
Three decades of clinical trials with beta-blockers, 531
Torsion or torment from the tubules? Challenge of the cardio-renal connections, 2004
Transcatheter closure of patent foramen ovale for migraine prophylaxis, 496
Treating sleep apnea in heart failure patients: promises but still noprizes, 2012
Use of anti-inflammatory analytics in the patient with cardiovascular disease, 1302
Warning! Context-sensitive data, 542
What promise does PCSK9 hold?, 1620
Ehlers-Danlos syndrome
36th Bethesda Conference: Task force 4: HCM and other cardiomyopathies, mitral valve prolapse, myocarditis, and Marfan syndrome, 1340
Elderly
See also Age; Older adults
Cystatin-C and mortality in elderly persons with heart failure, 268
Heart failure training: care for older adults with chronic heart failure (letter), 2096
Subject Index: Volume 45 2113
JACC Vol. 45, No. 12, 2005
June 21, 2005:2106–28
Reperfusion strategies for acute myocardial infarction in the elderly, 471

**Electrocardiography**
C-reactive protein and electrocardiographic ST-segment depression additively predict mortality: The Strong Heart Study, 1788
Cross-sectional relations of electrocardiographic QRS duration to left ventricular dimensions, 885
Electrocardiographic and electrophysiologic characteristics of ventricular tachycardia originating within the pulmonary artery, 887
Electrocardiography and Doppler echocardiography for risk stratification in patients with chronic heart failure, 1072
Focal atrial tachycardia from the ostium of the coronary sinus, 1488
Role of transtelephonic electrocardiographic monitoring in detecting short-term arrhythmia recurrences after radiofrequency ablation in patients with atrial fibrillation, 873
Separation of non–thrombus–from thrombus–dependent atrial flutter using wavefront variability, 1269
Spectrum and prognostic significance of arrhythmias on ambulatory Holter electrocardiogram in hypertrophic cardiomyopathy, 697

**Electromagnetic interference**
Clinical study of interference with cardiac pacemakers by a magnetic field at power line frequencies, 896

**Electrophysiology**
Absence of acute effects of angiotensin II on atrial electrophysiology in humans (letter), 154
Electrocardiographic and electrophysiologic characteristics of ventricular tachycardia originating within the pulmonary artery, 887
Focal atrial tachycardia from the ostium of the coronary sinus, 1488
Highlights of the year in JACC 2004, 137
Year in clinical electrophysiology, 790

**Embolic protective devices**
Embolic protection devices for carotid artery stenting: is there a difference between filter and distal occlusive devices?, 1775

**Embolism**
See also Thrombosis
Detection of embolic particles with the Doppler guide wire during coronary intervention in patients with acute myocardial infarction, 212
Transcatheter treatment of atrial septal aneurysm associated with patent foramen ovale for prevention of recurrent paradoxical embolism in high-risk patients, 377

**Endothelial cells**
Elevated levels of VE-cadherin–positive endothelial microparticles in patients with type-2 diabetes mellitus and coronary artery disease, 1622

**Endothelial dysfunction**
Association of Helicobacter pylori infection with systemic inflammation and endothelial dysfunction in healthy male subjects, 1219
Impaired progenitor cell activity in age-related endothelial dysfunction, 1441

**Endothelial function**
Simvastatin improves endothelial function in patients with rheumatoid arthritis, 461

**Endothelial nitric oxide synthase**
Beneficial effect of hydroxyasfodelin, a specific rhodanese inhibitor, on ischemia/reperfusion injury in canine coronary microcirculation in vivo, 599
Endothelial progenitor cells
Circulating endothelial progenitor cells are reduced in peripheral vascular complications of type 2 diabetes mellitus, 1449
Endothelial progenitor cell capture by stents coated with antibody against CD34, 1574
Endothelial progenitor cell obliteration and atherosclerotic inflammation (editorial), 1458
Impaired progenitor cell activity in age-related endothelial dysfunction, 1441

**Endothelial vasomotor dysfunction**
Increased ambulatory pulse pressure is a strong risk factor for coronary endothelial vasomotor dysfunction, 1461

**Endothelial-derived microparticles**
Elevated levels of VE-cadherin–positive endothelial microparticles in patients with type-2 diabetes mellitus and coronary artery disease, 1622

**Endothelium**
Increase of C-reactive protein is associated with enhanced activation of endogenous fibrinolysis at baseline but an impaired endothelial fibrinolytic response after venous occlusion, 30
End-stage renal disease
Effect of kidney transplantation on left ventricular systolic dysfunction and congestive heart failure in patients with end-stage renal disease, 1051

**Epoprostenol**
Increased \(^{18}F\)fluorodeoxyglucose accumulation in right ventricular free wall in patients with pulmonary hypertension and the effect of epoprostenol, 1850

**Erythrocyte sedimentation rate**
Inflammation, as measured by the erythrocyte sedimentation rate, is an independent predictor for development of heart failure, 1494

**Erythropoietin**
Further aspects of anemia, heart failure, and erythropoietin (letter), 1549
High serum erythropoietin level is associated with smaller infarct size in patients with acute myocardial infarction who undergo successful primary percutaneous coronary intervention, 1406

**Ethnicity**
Ethnic differences in the prognostic value of stress technetium-99m tetrofosmin gated single-photon emission computed tomography myocardial perfusion imaging, 1494

**Evidence-based guidelines**
Should the lack of feasibility of conducting controlled trials influence evidence-based guidelines (letter), 810

**Exercise**
Benefit of an exercise program before myocardial infarction (editorial), 939
Increased skeletal muscle amino acid release with light exercise in deconditioned patients with heart failure (letter), 158
Prior exercise training improves the outcome of acute myocardial infarction in the rat, 931

**Exercise testing**
Cardiopulmonary exercise testing in patients with heart failure (letter), 163
Comparison of treadmill exercise versus dipyridamole stress with myocardial perfusion imaging using rubidium-82 positron emission tomography, 1227

**Extracellular matrix**
Apparently normal mitral valves in patients with heart failure demonstrate biochemical and structural derangements, 54

**Factor XIII valine 34 leu polymorphism**
Pharmacogenetic effect of factor XIII Valine 34 leu polymorphism on fibrinolytic therapy for acute myocardial infarction, 25

**Fast ventricular tachycardias**
Fast ventricular tachycardias in patients with implantable cardioverter-defibrillators: efficacy and safety of antiarrhythmic therapy (editorial), 460

**Fat pads**
Preservation of the anterior fat pad and incidence of postoperative atrial fibrillation following coronary surgery (letter), 1308

**Fenofibrate stenting**
Prevalence and clinical impact of stent fractures after fenoproliferal stenting, 312

**Fibrates**
Efficacy and safety of high-density lipoprotein cholesterol–increasing compounds, 185

**Fibrin sealant**
Transplantation in fibrin sealant (letter), 1734

**Fibrinolysis**
Increase of C-reactive protein is associated with enhanced activation of endogenous fibrinolysis at baseline but an impaired endothelial fibrinolytic response after venous occlusion, 30

**Fibromyalgia therapy**
Association of smoking with improved myocardial perfusion and the angiographic characterization of myocardial tissue perfusion after fibrinolytic therapy for ST-segment elevation myocardial infarction (letter), 321
Pharmacogenetic effect of factor XIII Valine 34 leu polymorphism on fibrinolytic therapy for acute myocardial infarction, 25

**Fish intake**
Fish intake and risk of incident heart failure, 2015

**Flow-mediated dilatation**
Is the association between flow-mediated dilatation and cardiovascular risk limited to low risk populations?, 1987
Relationship between carotid artery intima-media thickness and brachial artery flow-mediated dilatation in middle-aged healthy men, 1980

**Fludrocortisone**
Effectiveness of fludrocortisone and salt in preventing syncope recurrence in children, 484

**Fluorodeoxyglucose**
Increased \(^{18}F\)fluorodeoxyglucose accumulation in right ventricular free wall in patients with pulmonary hypertension and the effect of epoprostenol, 1850

**Folic acid**
High-dose folic acid acutely improves coronary vasodilator function in patients with coronary artery disease, 1580

**Fontan operation**
36th Bethesda Conference: Task force 2: congenital heart disease, 1326

**Free fatty acids**
Increased skeletal muscle amino acid release with light exercise in deconditioned patients with heart failure (letter), 158

**Furosemide**
Changes in BNP levels and bioelectrical impedance measurements after treatment with high dose furosemide and hypertonic saline solution versus high dose of furosemide alone, in refractory congestive heart failure, 1997

**Gadolinium-enhanced magnetic resonance imaging**
Evaluation of the accuracy of gadolinium-enhanced
cardiovascular magnetic resonance in the diagnosis of cardiac sarcoidosis, 1683
Late gadolinium-enhanced magnetic resonance imaging in acute and chronic myocardial infarction, 901
Noninvasive diagnosis of coronary artery disease in patients with heart failure and systolic dysfunction of uncertain etiology, using late gadolinium-enhanced cardiovascular magnetic resonance, 743

Gender

See also Women
Gender and myocardial salvage after reperfusion treatment in acute myocardial infarction, 828
Gender differences in endothelial tissue-type plasminogen activator release in middle-aged adults (letter), 1547
Gender disparities in the diagnosis and treatment of non–ST-segment elevation acute coronary syndromes, 832
Gender-based outcomes after paclitaxel-eluting stent implantation in patients with coronary artery disease, 1180
Gender-specific impact of diabetes and myocardial infarction at baseline and during follow-up on mortality from all causes and coronary heart disease, 1413

Hemodynamic and autonomic effects of smokeless tobacco in healthy young men, 910
Is aspirin resistance or female gender associated with a high incidence of myocarditis after nonurgent percutaneous coronary intervention? (letter), 635
Seven-year follow-up after dobutamine stress echocardiography, 93

Gene delivery

Use of ultrasound contrast agents for gene or drug delivery in cardiovascular medicine, 329

Genetics

Clinical and genetic issues in familial cardiomyopathy, 969
Glomerular filtration rate
Serum blood urea nitrogen as an independent marker of subsequent mortality among patients with acute coronary syndromes and normal to mildly reduced glomerular filtration rates, 1782
Glutathione peroxidase-1
Glutathione peroxidase-1 and homocysteine for cardiovascular risk prediction, 1631
Glycemic control
Improvement or cardiovascular risk markers by pioglitazone is independent from glycemic control—results from the Pioneer study, 1925
Glycoprotein Ilb/IIa inhibitors
Risk factors for the development of retropitoneal hematoma after percutaneous coronary intervention in the era of glycoprotein Ilb/IIa inhibitors and vascular closure devices, 363

Headaches

Association of interstitial shunts and migraine headaches, 489
Migraine headache relief after transcatheter closure of patent foramen ovale, 493
Transcatheter closure of patent foramen ovale for migraine prophylaxis (editorial), 496

Health care

Big chill: the deleterious effects of public reporting on access to health care for the sickest patients, 1767
Immigration policy and healthcare, 1729
Quality of care reigns supreme: cardiologist at the helm, 1913

Health insurance
Health insurance and cardiac transplantation, 1388

Health-related quality of life
Health-related quality of life after interventional or conservative strategy in patients with unstable angina or non–ST-segment elevation myocardial infarction, 221

Heart failure
Apparent normal mitral valves in patients with heart failure demonstrate biochemical and structural derangements, 54
Angiotensin-converting enzyme inhibitors and outcome among patients with heart failure and renal insufficiency: need for a prospective study(letter), 1905
Cardiac resynchronization therapy, central sleep apnea, and Cheyne-Stokes respiration in chronic heart failure patients (letter), 633
Cardiac resynchronization therapy 101 (editorial), 70
Cardiopulmonary exercise testing in patients with heart failure (letter), 163
Changes in BNP levels and biodelectrical impedance measurements after treatment with high dose furosemide and hypertonic saline solution versus high dose of furosemide alone, in refractory congestive heart failure, 1997
Community screening for left ventricular systolic dysfunction using plasma and urinary natriuretic peptides, 1043
Contribution of ischemic mitral regurgitation to congestive heart failure after myocardial infarction, 260
Cross-sectional relations of electrocardiographic QRS duration to left ventricular dimensions, 685
Cystatin-C and mortality in elderly persons with heart failure, 268
Different effects of high cholesterol diet on ischemic cardiac dysfunction and remodeling induced by coronary stenosis and by coronary occlusion, 2078
Echocardiographic predictors of morbidity and mortality in patients with advanced heart failure, 1064
Effect of kidney transplantation on left ventricular systolic dysfunction and congestive heart failure in patients with end-stage renal disease, 1051
Effects of candesartan on cardiac sympathetic nerve activity in patients with congestive heart failure and preserved left ventricular ejection fraction, 661
Electrocardiography and Doppler echocardiography for risk stratification in patients with chronic heart failure, 1072
Fish intake and risk of incident heart failure, 2015
Further aspects of anemia, heart failure, and erythropoietin (letter), 1549
Heart failure training: care for older adults with chronic heart failure (letter), 2096
Highlights of the 2004 scientific sessions of the Heart Failure Society of America, Toronto, Canada, September 12 to 15, 2004, 617
Highlights of the year in JACC 2004, 137
Improvement of heart failure after renal transplantation (editorial), 1061
Improving the outcomes of heart failure care (editorial), 1663
Increased skeletal muscle amino acid release with light exercise in deconditioned patients with heart failure (letter), 158
Incremental predictive power of B-type natriuretic peptide and tissue Doppler echocardiography in the prognosis of patients with congestive heart failure, 1223
Inducible nitric oxide synthase in severe human heart failure (editorial), 1425
Inflammation, as measured by the erythrocyte sedimentation rate, is an independent predictor for development of heart failure, 1803
Influence of pretreatment systolic blood pressure on benefit from carvedilol in severe chronic heart failure patients (letter), 809
Inhibition of awake sympathetic nerve activity of heart failure patients with obstructive sleep apnea by nocturnal continuous positive airway pressure, Usui
Is mitral regurgitation a viable treatment target in heart failure? (editorial), 388
Mitrval valve abnormalities in congestive heart failure (editorial), 62
Mortality reduction by implantable cardioverter-defibrillators in high-risk patients with heart failure, ischemic heart disease, and new-onset ventricular arrhythmia, 1474
Noninvasive diagnosis of coronary artery disease in patients with heart failure and systolic dysfunction of uncertain etiology, using late gadolinium-enhanced cardiovascular magnetic resonance, 743
Noninvasive home telemonitoring for patients with heart failure at high risk of recurrent admission and death, 1654
Obesity and B-type natriuretic peptide levels in heart failure (letter), 967
Recent hypertension trials, 813
Targeted inhibition of βARK1-associated phosphoinositide 3-kinase activity preserves β-adrenergic receptor signaling and prolongs survival in heart failure induced by calsequestrin overexpression, 1863
Tentor or torment from the tubules? Challenge of the cardio-renal connections (editorial), 2004
Treating sleep apnea in heart failure patients: promises but still no prizes (editorial), 2012
Ventricular assist device therapy normalizes inducible nitric oxide synthase expression and reduces cardiomyocyte apoptosis in the failing human heart, 1419
Ventricular asynchrony predicts a better outcome in patients with chronic heart failure receiving cardiac resynchronization therapy, 65
What resting heart rate should one aim for when treating patients with heart failure with a beta-blocker?, 252
Year in cardiovascular surgery, 1517

Heart rate
Heart rate turbulence after atrial premature beats before spontaneous onset of atrial fibrillation, 278
What resting heart rate should one aim for when treating patients with heart failure with a beta-blocker?, 252

Heart transplantation
Coronary stenosis detection by 16-slice computed tomography in heart transplant patients: comparison with conventional angiography and impact on clinical management, 1827
Health insurance and cardiac transplantation, 1388
Highlights of the year in JACC 2004, 137
Improved outcomes of pediatric dilated cardiomyopathy and heart transplantation (letter), 1733
Intravascular ultrasound evidence of angiographically silent progression in coronary atherosclerosis predicts long-term morbidity and mortality after cardiac transplantation, 1538
Objective intravascular ultrasound validation study among heart transplant recipients, 1532

*Helicobacter pylori*

Association of *Helicobacter pylori* infection with systemic inflammation and endothelial dysfunction in healthy male subjects, 1219

Hematocrit

Is there an optimal hematocrit value for cardiac patients (letter), 1549

Hemodynamics

Does inhaled nitric oxide support the hemodynamics of spontaneous breathing patients with cardiogenic shock related to right ventricular myocardial infarction? (letter), 965

Hemodynamic and autonomic effects of smokeless tobacco in healthy young men, 910

Hemodynamic comparison of bioprostheses for complete supravalvular position in patients with small aortic annulus, 2054

Quantitative relation between hemodynamic changes during intravenous adenosine infusion and the magnitude of coronary hyperemia, 553

Hibernating myocardium

Hibernating myocardium, apoptosis, and a simple mathematical task (letter), 466

Highlights of the year in *JACC* 2004, 137

High-density lipoprotein

Efficacy and safety of high-density lipoprotein cholesterol-increasing compounds, 185

High-intensity transient signals

Detection of embolic particles with the Doppler guide wire during coronary intervention in patients with acute myocardial infarction, 212

Holter electrocardiography

Spectrum and prognostic significance of arrhythmias on ambulatory Holter electrocardiogram in hypertrophic cardiomyopathy, 697

Home telemonitoring

Noninvasive home telemonitoring for patients with heart failure at high risk of recurrent admission and death, 1654

Homocysteine

Glutathione peroxidase-1 and homocysteine for detection of embolic particles with the Doppler emission computed tomography

Hypertension

Cardiovascular morbidity and mortality in hypertensive patients with a history of atrial fibrillation, 705

Impact of pulmonary hypertension on the outcomes of noncardiac surgery, 1691

Recent hypertension trials, 813

36th Bethesda Conference: Task force 5: systemic hypertension, 1346

Hypertrophic cardiomyopathy

Adenine monophosphate-activated protein kinase disease mimicks hypertrophic cardiomyopathy and Wolf-Parkinson-White syndrome, 922

Multicenter study of the efficacy and safety of disopyramide in obstructive hypertrophic cardiomyopathy, 1251

Prognostic importance of left ventricular outflow obstruction in hypertrophic cardiomyopathy varies in relation to the severity of symptoms, 1076

Spectrum and prognostic significance of arrhythmias on ambulatory Holter electrocardiogram in hypertrophic cardiomyopathy, 697

36th Bethesda Conference: Task force 4: HCM and other cardiomyopathies, mitral valve prolapse, myocarditis, and Marfan syndrome, 1340

Hypothyroidism

Does subclinical hypothyroidism affect cardiac pump performance?, 439

Idiopathic dilated cardiomyopathy

Clinical and genetic issues in familial dilated cardiomyopathy, 969

Early recovery of impaired coronary flow reserve by carvedilol therapy in patients with idiopathic dilated cardiomyopathy: a serial transthoracic Doppler echocardiographic study (letter), 318

Imaging

See also Computed tomography; Echocardiography; Magnetic resonance imaging; Single-photon emission computed tomography

Growth of diagnostic imaging services, 2093

President's page: imaging: not a black and white issue, 627

Immigration

Immigration policy and healthcare, 1729

Implantable cardioverter-defibrillators

Care disparities (editorial), 79

Defibrillation thresholds testing of implantable cardioverter-defibrillators at implantation (letter), 468

Depression as a predictor for appropriate shocks among patients with implantable cardioverter-defibrillators, 1090

Fast ventricular tachycardias in patients with implantable cardioverter-defibrillators: efficacy and safety of antitachycardia pacing, 460

Growing mismatch between patient longevity and the service life of implantable cardioverter-defibrillators, Hauser

Impact of implantable cardioverter-defibrillator therapy on survival in aomsomal-dominant

arthythmic right ventricular cardiomyopathy (ARVDS), 400

Implantable cardioverter-defibrillator therapy in arrhythmogenic right ventricular cardiomyopathy (editorial), 409

Mortality reduction by implantable cardioverter-defibrillators in high-risk patients with heart failure, ischemic heart disease, and new-onset ventricular arrhythmia, 1474

Patient alert and cardiac defibrillators (letter), 966

Severe symptomatic tricuspid valve regurgitation due to permanent pacemaker or implantable cardioverter defibrillator leads, 1672

Trends in implantable cardioverter-defibrillator racial disparity, 72

Inducible nitric oxide synthase

Inducible nitric oxide synthase in severe human heart failure (editorial), 1425

Ventricular assist device therapy normalizes inducible nitric oxide synthase expression and reduces cardiomyocyte apoptosis in the failing human heart, 1419

Infarct

High serum erythropoietin level is associated with smaller infarct size in patients with acute myocardial infarction who undergo successful primary percutaneous coronary intervention, 1406

Infarct morphology identifies patients with substrate for sustained ventricular tachycardia, 1104

Prodomal angina limits infarct size in the setting of acute anterior myocardial infarction treated with primary percutaneous intervention (letter), 1545

Infarction

See Myocardial infarction

Infective endocarditis

Year in valvular heart disease, 111

Inflammation

Act local, act global (editorial), 1600

Association of *Helicobacter pylori* infection with systemic inflammation and endothelial dysfunction in healthy male subjects, 1219

Cardiovascular magnetic resonance for the diagnosis of acute myocarditis: prospeect for detecting myocardial inflammation, 1382

Diffuse and active inflammation occurs in both vulnerable and stable plaques of the entire coronary tree, 1585

Effects of physical activity on serum C-reactive protein and inflammatory markers, 1563

Endothelial progenitor cell homoeostasis and atherosclerotic inflammation (editorial), 1458

Inflammation, as measured by the erythrocyte sedimentation rate, is an independent predictor for development of heart failure, 1803

Persistent systemic inflammation in unstable angina is largely unrelated to the atherothrombotic burden, 238

Relationship between inflammation and venous thromboembolism as studied by microparticle assessment in plasma (editorial), 1472

Inflammatory markers

Primary and a half prevention—can we identify asymptomatic subjects with high vascular risk? (editorial), 1994

In-stent restenosis

Simple, inexpensive, rapid, and accurate preclinical model for in-stent restenosis (letter), 1310

Intensive care unit

Relationship between B-type natriuretic peptides and pulmonary capillary wedge pressure in the intensive care unit, 1667
Left ventricular dysfunction
Angiotensin-converting enzyme inhibitor as a risk factor for the development of anemia, and the impact of incident anemia on mortality in patients with left ventricular dysfunction, 391
Effect of perindopril on the onset and progression of left ventricular dysfunction in Duchenne muscular dystrophy, 855
Is miral revascularization a viable treatment target in heart failure? (editorial), 388
Long-term survival and functional results after aortic valve replacement in asymptomatic patients with chronic severe aortic regurgitation and left ventricular dysfunction, 1025
Left ventricular ejection fraction
Effects of candesartan on cardiac sympathetic nerve activity in patients with congestive heart failure and preserved left ventricular ejection fraction, 661
Left ventricular outflow obstruction
Prognostic importance of left ventricular outflow obstruction in hypertrophic cardiomyopathy varies in relation to the severity of symptoms, 1076
Left ventricular remodeling
Detection of pathologic or physiologic left ventricular remodeling in athletes (letter), 1731
Left ventricular support
An expandable percutaneous catheter pump for left ventricular support: proof of concept, 1857
Left ventricular systolic dysfunction
Community screening for left ventricular systolic dysfunction using plasma and urinary natriuretic peptides, 1043
Effect of kidney transplantation on left ventricular systolic dysfunction and congestive heart failure in patients with end-stage renal disease, 1051
Impact of mitral valve annuloplasty on mortality risk in patients with mitral regurgitation and left ventricular systolic dysfunction, 381
Left ventricular systolic function
Independent and incremental prognostic value of early mitral annulus velocity in patients with impaired left ventricular systolic function, 272
Letters to the editor
Absence of acute effects of angiotensin II on atrial electrophysiology in humans, 154
Advantage of percutaneous coronary intervention over medical therapy in angina relief and the placebo effect, 327
Association between renal insufficiency, pharmacotherapy, and outcomes in, 6427
patients with heart failure and coronary artery disease, 1905
Atherosclerosis of the aorta: risk factor, risk marker, or innocent bystander? (letter), 1907
Cardiac complications of vaccines, 1309
Cardiac magnetic resonance imaging training, 1307
Cardiac magnetic resonance training: how we can get there from here, 1306
Cardiac rehabilitation after myocardial infarction in the community, 1909
Cardiac resynchronization therapy, central sleep apnea, and Cheyne-Stokes respiration in chronic heart failure patients, 633
Cardiologist in the carotids, 326
Cardiopulmonary exercise testing in patients with heart failure, 163
Cautious interpretation of data regarding myopericarditis associated with smallpox vaccination, 160

Conflation of empiric and nonempiric truths in cardiovascular guidelines, 1551
Coronary stenting versus balloon angioplasty in small vessels, 323
Defibrillation thresholds testing of implantable cardioverter-defibrillators at implantation, 468
Definition of failed lysis may have influenced outcome in the MERLIN trial, 808
Detection of pathologic or physiologic left ventricular remodeling in athletes, 1731
Differential mortality risk of post-procedural creatine kinase-MB elevation following successful versus unsuccessful stent procedures, 1908
Does inhaled nitric oxide support the hemodynamics of spontaneous breathing patients with cardiogenic shock related to right ventricular myocardial infarction?, 965
Effects of percutaneous left atrial appendage transcatheter occlusion (PLAATO) on left atrial structure and function, 634
Further aspects of anemia, heart failure, and erythropoietin, 1549
Gender differences in endothelial tissue-type plasminogen activator release in middle-aged adults, 1547
Heart failure training: care for older adults with chronic heart failure, 2096
Hibernating myocardium, apoptosis, and a simple mathematical task, 466
Improved outcomes of pediatric dilated cardiomyopathy and heart transplantation, 1733
Increased skeletal muscle amino acid release with light exercise in deconditioned patients with heart failure, 158
Influence of pretreatment systolic blood pressure on benefit from carvedilol in severe chronic heart failure patients, 809
Is aspirin resistance or female gender associated with a high incidence of myocardosis after nonurgent percutaneous coronary intervention?, 635
Is there an optimal hematocrit value for cardiac patients, 1549
Omega-3 fatty acids for secondary prevention, 1552
Optimal lipids, statins, and dementia, 963
Optimal low-density lipoprotein is 50 to 70 mg/dl, 1732
Pacemaker complication during magnetic resonance imaging, 161
Patient alert and cardiac defibrillators, 966
Preservation of the anterior fat pad and incidence of patients undergoing carotid endarterectomy, 1795
Prognostic importance of body mass index after complicated myocardial infarction, 156
Proper conduct of Valsalva maneuver for the detection of patent foramen ovale, 1145
Reduced atrial fibrillation incidence by angiotensin-converting enzyme inhibitors: a possible contributing mechanism, 1144
Rescue angioplasty—the MERLIN trial, 806
Reversible atrioventricular block and the Amplatzer device, 1306
Should the lack of feasibility of conducting controlled trials influence evidence-based guidelines, 810
Simple, inexpensive, rapid, and accurate preclinical model for in-stent restenosis, 1310
Thrombolysis should be regarded as first-line therapy for prosthetic valve thrombosis in the absence of contraindications, 325
Transplantation in fibrin sealant, 1734
Vascular complications and arteriotomy closure devices during percutaneous coronary procedures, 2095
World Trade Center attack and cardiac events: fact or fear?, 1732

Lipocytes
Elevation of endothelial microparticles, platelets, and leukocyte activation in patients with venous thromboembolism, 1467
Platelet P-selectin plays an important role in arterial thrombogenesis by forming large stable platelet-leukocyte aggregates, 1280
Linoleic acid
Dietary linoleic acid and adjusted QT and JT intervals in the National Heart, Lung, and Blood Institute Family Heart Study, 1716
Lipid-lowering therapy
Effect of lipid-lowering therapy with atorvastatin on atherosclerotic aortic plaques detected by noninvasive magnetic resonance imaging, 733
Lipids
Optimal lipids, statins, and dementia (letter), 963
Lipoproteins
Apolipoprotein CI content of triglyceride-rich lipoproteins independently predicts early atherosclerosis in healthy middle-aged men, 1013
L-NMMA
Beneficial effect of hydralazine, a specific rho-kinase inhibitor, on ischemia/reperfusion injury in canine coronary microcirculation in vivo, 599
Long QT syndrome
Cellular and ionic mechanism for drug-induced long QT syndrome and effectiveness of verapamil, 300
Loss of consciousness
Anemia for loss of consciousness in carotid sinus syndrome—implications for presentation with falls, 1841
Low-density lipoprotein cholesterol
Common PCSK9 haplotype, encompassing the E670G coding single nucleotide polymorphism, is a novel genetic marker for plasma low-density-lipoprotein cholesterol levels and severity of coronary atherosclerosis, 1611
Optimal low-density lipoprotein is 50 to 70 mg/dl (letter), 1732
Plant sterols in serum and in atherosclerotic plaques of patients undergoing carotid endarterectomy, 1795
Relative efficacy of atorvastatin 80 mg and pravastatin 40 mg in achieving he dual goals of low-density lipoprotein cholesterol, 1644
What promise does PCSK9 hold? (editorial), 1620
Long-to-heart ratio
Prognostic value of lung seastami uptake in myocardial perfusion imaging of patients with known or suspected coronary artery disease, 1676
Lymphocytes
Enhanced T-helper-1 lymphocyte activation patterns in acute coronary syndromes, 1939
Magnetic resonance angiography
Noninvasive assessment of coronary vasodilation using magnetic resonance angiography, 104

Magnetic resonance imaging
Assessment of myocardial viability in reperfused acute myocardial infarction using 16-slice computed tomography in comparison to magnetic resonance imaging, 2042
Cardiac magnetic resonance imaging training (letter), 1307
Cardiac magnetic resonance imaging training: how we can get there from here (letter), 1306
Cardiovascular magnetic resonance for the diagnosis of acute myocardial: prospects for detecting myocardial infarction, 1824
Diagnosis of thin fibrous cap atheromas by a self-contained intravascular magnetic resonance imaging probe in ex-vivo human aortas and in-situ coronary arteries, 1961
Diagnostic performance of cardiovascular magnetic resonance imaging in patients with suspected acute myocardial injury: comparison of different approaches, 1816
Does subclinical hypothyroidism affect cardiac pump performance?, 439
Effect of lipid-lowering therapy with atorvastatin on atherosclerotic aortic plaques detected by noninvasive magnetic resonance imaging, 733
Feasibility of tissue magnetic resonance imaging, 1109
Infarct morphology identifies patients with substrate for sustained ventricular tachycardia, 1104
Late gadolinium-enhanced magnetic resonance imaging in acute and chronic myocardial infarction, 901
Noninvasive detection of myocardial fibrosis in arrhythmogenic right ventricular cardiomyopathy using delayed-enhancement magnetic resonance imaging, 98
Noninvasive diagnosis of coronary artery disease in patients with heart failure and systolic dysfunction of uncertain etiology, using late gadolinium-enhanced cardiovascular magnetic resonance, 743
Pacemaker complication during magnetic resonance imaging (letter), 161
Patients with atrial fibrillation and dense spontaneous echo contrast at high risk—a prospective and serial follow-up over 12 months with transesophageal echocardiography and cerebral magnetic resonance imaging, 1808
Planimetry of mitral valve stenosis by magnetic resonance imaging, 2048
Quantitative measurement of infarct size by contrast-enhanced magnetic resonance imaging early after acute myocardial infarction, 544
Real-time magnetic resonance-guided endovascular repair of experimental abdominal aortic aneurysm in swine, 2069
Relationship of irreversible myocardial injury to troponin I and creatine kinase-MB elevation after coronary artery bypass surgery: insights from cardiovascular magnetic resonance imaging (letter), 629

Marfan syndrome
36th Bethesda Conference: Task force 4: HCM and other cardiomyopathies, mitral valve prolapse, myocardiitis, and Marfan syndrome, 1340

MERLIN trial
Definition of failed lysis may have influenced outcome in the MERLIN trial (letter), 808
Rescue angioplasty—The MERLIN trial (letter), 806

Metoprolol
What resting heart rate should one aim for when treating patients with heart failure with a beta-blocker?, 252

MicroMed DeBakey ventricular assist device
Safety and feasibility trial of the MicroMed DeBakey ventricular assist device as a bridge to transplantation, 962

Migraine headaches
Association of interatrial shunts and migraine headaches, 489
Migraine headache relief after transcatheter closure of patent foramen ovale, 493
Transcatheter closure of patent foramen ovale for migraine prophylaxis (editorial), 496

Mitrail annular calcification
Atorvastatin decreases cellular proliferation and bone matrix expression in the hypercholesterolemic mitral valve (letter), 631

Mitrail annuloplasty
Impact of mitral valve annuloplasty on mortality risk in patients with mitral regurgitation and left ventricular systolic dysfunction, 381

Mitrail annulus
Idiopathic ventricular arrhythmia arising from the mitral annulus, 577

Mitrail annulus velocity
Independent and incremental prognostic value of early mitral annulus velocity in patients with impaired left ventricular systolic function, 272

Mitrail regurgitation
Broad-beam spectral Doppler sonification of the vena contracta using matrix-array technology, 770
Clinical development of percutaneous heart valve technology, 1554
Contribution of ischemic mitral regurgitation to congestive heart failure after myocardial infarction, 260
Impact of mitral valve annuloplasty on mortality risk in patients with mitral regurgitation and left ventricular systolic dysfunction, 381
Is mitral regurgitation a viable treatment target in heart failure? (editorial), 388
Mitrail valve abnormalities in congestive heart failure (editorial), 62
Quantitation of mitral valve tenting in ischemic mitral regurgitation by transesophageal real-time three-dimensional echocardiography, 763
36th Bethesda Conference: Task force 3: valvular heart disease, 1334
Year in valvular heart disease, 111

Mitrail stenosis
Planimetry of mitral valve stenosis by magnetic resonance imaging, 2048
36th Bethesda Conference: Task force 3: valvular heart disease, 1334
Year in valvular heart disease, 111

Mitrail valve
Apparently normal mitral valves in patients with heart failure demonstrate biochemical and structural derangements, 54
Atorvastatin decreases cellular proliferation and bone matrix expression in the hypercholesterolemic mitral valve (letter), 631
Mitrail valve abnormalities in congestive heart failure (editorial), 62

Mitrail valve prolapse
36th Bethesda Conference: Task force 4: HCM and other cardiomyopathies, mitral valve prolapse, myocardiitis, and Marfan syndrome, 1340

Mitrail valve prostheses
Transcatheter radiofrequency ablation of atrial fibrillation in patients with mitral valve prostheses and enlarged atria, 868

Mitrail valve replacement
Impact of valve prosthesis-patient mismatch on pulmonary arterial pressure after mitral valve replacement, 1034
Residual pulmonary artery hypertension after mitral valve replacement (editorial), 1041

Monocyte tissue factor
CD40 ligand enhances monocyte tissue factor expression and thrombin generation via oxidative stress in patients with hypercholesterolemia, 35

Morbidity
Cardiovascular morbidity and mortality in hypertensive patients with a history of atrial fibrillation, 705
Echocardiographic predictors of morbidity and mortality in patients with advanced heart failure, 1064
Intravascular ultrasound evidence of angiographically silent progression in coronary atherosclerosis predicts long-term morbidity and mortality after cardiac transplantation, 1538

Morphine
Cyclo-oxygenase-1 mediates the final stage of morphine-induced delayed cardioprotection in concert with cyclo-oxygenase-2, 1707

Mortality
Angiotensin-converting enzyme inhibitor as a risk factor for the development of anemia, and the impact of incident anemia on mortality in patients with left ventricular dysfunction, 391
Cardiovascular morbidity and mortality in hypertensive patients with a history of atrial fibrillation, 705
C-reactive protein and electrocardiographic ST segment depression additively predict mortality: The Strong Heart Study, 1788
Cystatin-C and mortality in elderly persons with heart failure, 268
Creatine kinase-MB elevation following stent implantation(letter), 1908
Echocardiographic predictors of morbidity and mortality in patients with advanced heart failure, 1064
Gender-specific impact of diabetes and myocardial infarction at baseline and during follow-up on mortality from all causes and coronary heart disease, 1413
Impact of mitral valve annuloplasty on mortality risk in patients with mitral regurgitation and left ventricular systolic dysfunction, 381
Improving the outcomes of heart failure care (editorial), 1665
Independent and incremental prognostic value of early mitral annulus velocity in patients with impaired left ventricular systolic function, 272
Intravascular ultrasound evidence of angiographically silent progression in coronary atherosclerosis predicts long-term morbidity and mortality after cardiac transplantation, 1538
Mortality reduction by implantable cardioverter-defibrillators in high-risk patients with heart failure, ischemic heart disease, and new-onset ventricular arrhythmia, 1474
Noninvasive home telemonitoring for patients with heart failure at high risk of recurrent admission and death, 1654
Myocardial infarction

- Prediction of mortality after primary percutaneous coronary intervention for acute myocardial infarction, 1397
- Prognostic score for prediction of cardiac mortality risk after adenosine stress myocardial perfusion scintigraphy, 722
- Serum blood urea nitrogen as an independent marker of subsequent mortality among patients with acute coronary syndromes and normal to mildly reduced glomerular filtration rates, 1782

Multidetector spiral computed tomography

See also Computed tomography.

- Diagnostic accuracy of noninvasive coronary imaging using 16-detector slice spiral computed tomography with 188 ms temporal resolution, 123

Multislice computed tomography

See also Computed tomography.

- Highlights of the year in JACC 2004, 137
- Multislice computed tomography versus intracardiac echocardiography to evaluate the pulmonary veins before radiofrequency catheter ablation of atrial fibrillation, 343
- Noninvasive visualization of the cardiac venous system using multislice computed tomography, 749

Myocardial blood flow

- Positron emission tomography-measured abnormal responses of myocardial blood flow to sympathetic stimulation are associated with the risk of developing cardiovascular events, 1505

Myocardial fibrosis

- Noninvasive detection of myocardial fibrosis in arrhythmogenic right ventricular cardiomyopathy using delayed-enhancement magnetic resonance imaging, 98

Myocardial infarction

See also ST-segment elevation myocardial infarction.

- Antiarrhythmic effect of carvedilol after acute myocardial infarction, 525
- Assessment of myocardial viability in reperfused acute myocardial infarction using 16-slice computed tomography in comparison to magnetic resonance imaging, 2042
- Benefit of an exercise program before myocardial infarction (editorial), 939
- Cardiac rehabilitation after myocardial infarction in the community (letter), 1909
- Contribution of ischemic myocardial regurgitation to congestive heart failure after myocardial infarction, 260
- C-type natriuretic peptide, a novel antifibrotic and antihypertrophic agent, prevents cardiac remodeling after myocardial infarction, 608
- Detection of embolic particles with the Doppler guide wire during coronary intervention in patients with acute myocardial infarction, 212
- Diffuse and active inflammation occurs in both vulnerable and stable plaques of the entire coronary tree, 1585
- Does inhaled nitric oxide support the hemodynamics of spontaneous breathing patients with cardiogenic shock related to right ventricular myocardial infarction? (letter), 946
- Gender and myocardial salvage after reperfusion treatment in acute myocardial infarction, 828
- Gender-specific impact of diabetes and myocardial infarction at baseline and during follow-up on mortality from all causes and coronary heart disease, 1413
- Health-related quality of life after interventional or conservative strategy in patients with unstable angina or non-ST-segment elevation myocardial infarction, 221
- High serum erythropoietin level is associated with smaller infarct size in patients with acute myocardial infarction who undergo successful primary percutaneous coronary intervention, 1406
- Impact of diabetes mellitus on myocardial perfusion after primary angioplasty in patients with acute myocardial infarction, 508
- Late gadolinium-enhanced magnetic resonance imaging in acute and chronic myocardial infarction, 501
- Multiple plaque rupture and C-reactive protein in acute myocardial infarction, 1594
- Pharmacogenetic effect of factor XIII Valine 34 leu polymorphism on fibrinolytic therapy for acute myocardial infarction, 25
- Prediction of mortality after primary percutaneous coronary intervention for acute myocardial infarction, 1397
- Prior exercise training improves the outcome of acute myocardial infarction in the rat, 931
- Propranolol ameliorates infarct size in the setting of acute anterior myocardial infarction treated with primary percutaneous intervention (letter), 1545
- Prognostic implications of elevated troponin in patients with suspected acute coronary syndrome but no critical epicardial coronary disease, 19
- Prognostic importance of blood mass index after complicated myocardial infarction (letter), 156
- Quantitative measurement of infarct size by contrast-enhanced magnetic resonance imaging early after acute myocardial infarction, 544
- Randomized, double-blinded, placebo-controlled multicenter trial of adenosine as an adjunct to reperfusion in the treatment of acute myocardial infarction (AMISTAD-II), 1776
- Reperfusion strategies for acute myocardial infarction in the elderly, 471
- Role of collateral blood flow in the apparent disparity between the extent of abnormal wall thickening and perfusion defect size during acute myocardial infarction and demand ischemia, 565
- Serial analyses of N-terminal pro-B-type natriuretic peptide in patients with non-ST-segment elevation acute coronary syndromes, 533
- Three decades of clinical trials with beta-blockers (editorial), 531
- Which white blood cell subtypes predict increased cardiovascular risk?, 1638
- Year in interventional cardiology, 1117
- Year in valvular heart disease, 111

Myocardial infarction (AMI)

- Cardiovascular magnetic resonance for the diagnosis of acute myocarditis: prospects for detecting myocardial inflammation, 1824
- Diagnostic performance of cardiovascular magnetic resonance in patients with suspected acute myocarditis: comparison of different approaches, 1816
- Highlights of the year in JACC 2004, 137
- 36th Bethesda Conference: Task force 4: HCM and other cardiomyopathies, mitral valve prolapse, myocarditis, and Marfan syndrome, 1340

Myocardium

- Failure to protect the myocardium against ischemia/reperfusion injury after chronic atorvastatin treatment is recaptured by acute atorvastatin treatment, 1287

Myopericarditis

- Cautious interpretation of data regarding myopericarditis associated with smallpox vaccination (letter), 160
- Naproxen
- Pharmacodynamic interaction of naproxen with low-dose aspirin in healthy subjects, 1295

Natriuretic peptides

- Changes in BNP levels and bioelectrical impedance measurements after treatment with high dose furosemide and hypertonic saline solution
versus high dose of furosemide along, in refractory congestive heart failure, 1997
Community screening for left ventricular systolic dysfunction using plasma and urinary natriuretic peptides, 1043
C-type natriuretic peptide, a novel antifibrotic and anti hypertrophic agent, prevents cardiac remodeling after myocardial infarction, 608
Discordant atrial natriuretic peptide and brain natriuretic peptide levels in lone atrial fibrillation, 82
Efficacy of brain natriuretic peptide levels in differentiating constrictive pericarditis from restrictive cardiomyopathy, 1901
Incremental predictive power of B-type natriuretic peptide and tissue Doppler echocardiography in the prognosis of patients with congestive heart failure, 1223
Obesity and B-type natriuretic peptide levels in heart failure (letter), 967
Relationship between B-type natriuretic peptides and pulmonary capillary wedge pressure in the intensive care unit, 1667
Serial analyses of N-terminal pro-B-type natriuretic peptide in patients with non-ST-segment elevation acute coronary syndromes, 533
Warning! Context-sensitive data (editorial), 542
Year in valvular heart disease, 111

Neointima
Polymer-based paclitaxel-eluting stents reduce in-stent neointimal tissue proliferation, 1201

Nitric oxide
Beneficial effect of hydroxyfasudil, a specific rho kinase inhibitor, on ischemia/reperfusion injury in canine coronary microcirculation in vivo, 599
Does inhaled nitric oxide support the hemodynamics of spontaneous breathing patients with cardiogenic shock related to right ventricular myocardial infarction? (letter), 965

Nitric oxide synthase
Beneficial effect of hydroxyfasudil, a specific rho kinase inhibitor, on ischemia/reperfusion injury in canine coronary microcirculation in vivo, 599
Inducible nitric oxide synthase in severe human heart failure (editorial), 1425
Ventricular assist device therapy normalizes inducible nitric oxide synthase expression and reduces cardiomyocyte apoptosis in the failing human heart, 1419

Noncardiac surgery
Impact of pulmonary hypertension on the outcomes of noncardiac surgery, 1691
Statin decrease perioperative cardiac complications in patients undergoing noncardiac vascular surgery, 336

Non-ischemic-dependent atrial flutter
Separating nonischemic– from ischemia-dependent atrial flutter using wavefront variability, 1269

Non-ST-segment elevation acute coronary syndromes
Gender disparities in the diagnosis and treatment of non-ST-segment elevation acute coronary syndromes, 832

Non-ST-segment elevation myocardial infarction
Health-related quality of life after interventional or conservative strategy in patients with unstable angina or non-ST-segment elevation myocardial infarction, 221
Serial analyses of N-terminal pro-B-type natriuretic peptide in patients with non-ST-segment elevation acute coronary syndromes, 533
Norwood operation
Impact of re-coarctation following the Norwood operation on survival in the balloon angioplasty era, 1845

Obesity
Obesity and B-type natriuretic peptide levels in heart failure (letter), 967
Prognostic importance of body mass index after complicated myocardial infarction (letter), 156

Obstructive sleep apnea
Inhibition of awake sympathetic nerve activity of heart failure patients with obstructive sleep apnea by nocturnal continuous positive airway pressure, Usui

Occlusion
Different effects of high cholesterol diet on ischemic cardiac dysfunction and remodeling induced by coronary stenosis and by coronary occlusion, 2078
Increase of C-reactive protein is associated with enhanced activation of endogenous fibrinolysis at baseline but an impaired endothelial fibrinolytic response after venous occlusion, 30
Thirty-day incidence and six-month clinical outcome of thrombotic stent occlusion after bare-metal, sirolimus, or paclitaxel stent implantation, 947

Older adults
Sixt age; Elderly
Heart failure training: care for older adults with chronic heart failure (letter), 2096

Omega-3 fatty acids
Fish intake and risk of incident heart failure, 2015
Omega-3 fatty acids for secondary prevention (letter), 1552

Outcomes
Association of a negative residual stenosis following rescue/adjunctive percutaneous coronary intervention with impaired myocardial perfusion and adverse outcomes among ST-segment elevation myocardial infarction patients, 357
Better outcome after pediatric defibrillation dosage than adult dosage in a swine model of pediatric ventricular fibrillation, 786
Definition of failed lysis may have influenced outcome in the MERLIN trial (letter), 808
Gender-based outcomes after paclitaxel-eluting stent implantation in patients with coronary artery disease, 1180
Outcomes of paclitaxel-eluting stent implantation in patients with stenosis of the left anterior descending coronary artery, 1186
Outcomes with the paclitaxel-eluting stent in patients with acute coronary syndromes, 1165
Outcomes with the polymer-based paclitaxel-eluting TAXUS stent in patients with diabetes mellitus, 1172
Polymer-based paclitaxel-eluting stents reduce in-stent neointimal tissue proliferation, 1201
Prospective randomized comparison between paclitaxel and sirolimus stents in the real world of interventional cardiology, 308
Thirty-day incidence and six-month clinical outcome of thrombotic stent occlusion after bare-metal, sirolimus, or paclitaxel stent implantation, 947
Unrestricted use of paclitaxel- versus sirolimus-eluting stents for coronary artery disease in an unselected population, 1135
What is the risk of stent thrombosis associated with the use of paclitaxel-eluting stents for percutaneous coronary intervention?, 941

Parasympathetic nerve stimulation
Rapid and stable reentry within the pulmonary vein is a mechanism initiating parasympathetic nerve stimulation, 1872

Patent ductus arteriosus
36th Bethesda Conference: Task force 2: congenital heart disease, 1326

Patent foramen ovale
Association of interatrial shunts and migraine headaches, 489
Migraine headache relief after transcatheter closure of patent foramen ovale, 493
Proper conduct of Valsalva maneuver for the detection of patent foramen ovale (letter), 1145
Transcatheter closure of patent foramen ovale for migraine prophylaxis (editorial), 496
Transcatheter treatment of atrial septal aneurysm associated with patent foramen ovale for prevention of recurrent paradoxical embolism in high-risk patients, 377

PCSK9
Common PCSK9 haplotype, encompassing the E670G coding single nucleotide polymorphism, is a novel genetic marker for plasma low-density-lipoprotein cholesterol levels and severity of coronary atherosclerosis, 1611
What promise does PCSK9 hold? (editorial), 1620

Pediatrics
See Children

Percutaneous coronary interventions
Advantage of percutaneous coronary intervention over medical therapy in angina relief and the placebo effect (letter), 327
Association of a negative residual stenosis following rescue/adjunctive percutaneous coronary intervention with impaired myocardial perfusion and adverse outcomes among ST-segment elevation myocardial infarction patients, 357
Big chill: the deleterious effects of public reporting on access to health care for the sickest patients, 1585
Detection of embolic particles with the Doppler guide wire during coronary intervention in patients with acute myocardial infarction, 212
Economic effects of prolonged clopidogrel therapy after percutaneous coronary intervention, 369
High serum erythropoietin level is associated with smaller infarct size in patients with acute myocardial infarction who undergo successful primary percutaneous coronary intervention, 1406
Highlights of the year in JACC 2004, 137
Hyperglycemia is an important predictor of impaired coronary flow before reperfusion therapy in ST-segment elevation myocardial infarction, 999
Impact of diabetes mellitus on myocardial perfusion after primary angioplasty in patients with acute myocardial infarction, 508
Is aspirin resistance or female gender associated with a high incidence of myocardial infarction after nonurgent percutaneous coronary intervention? (letter), 635
Prediction of mortality after primary percutaneous coronary intervention for acute myocardial infarction, 1397
Primary angioplasty is cost-minimizing compared with pre-hospital thrombolysis for patients within 60 min of a percutaneous coronary intervention center, 515
Performance-enhancing substances
36th Bethesda Conference: Task force 9: drugs and performance-enhancing substances, 1364
Pericarditis
36th Bethesda Conference: Task force 4: HCM and other cardiomyopathies, mitral valve prolapse, myocarditis, and Marfan syndrome, 1340
Periprosthetic
Effect of periprosthetic on the onset and progression of left ventricular dysfunction in Duchenne muscular dystrophy, 855
Peripheral arterial disease
Detection of peripheral vascular stenosis by assessing skeletal muscle flow reserve, 780
Phenylalanine
Efficacy of a patient-activated pharmacologic pump using phenylalanine as active drug and prodromal symptoms as a marker of imminent loss of consciousness to abort tilt-induced syncope (letter), 320
Phosphatase and tensin homolog deleted on chromosome 10
Failure to protect the myocardium against ischemia/reperfusion injury after chronic atorvastatin treatment is recaptured by acute atorvastatin treatment, 1287
Phosphoinositide 3-kinase
Targeted inhibition of βARK1-associated phosphoinositide 3-kinase activity preserves β-adrenergic receptor signaling and prolongs survival in heart failure induced by catecholamine overexposure, 1863
Pioglitazone
Improvement or cardiovascular risk markers by pioglitazone is independent from glycemic control—results from the Pioner study, 1925
Placebo effect
Advantage of percutaneous coronary intervention over medical therapy in angina relief and the placebo effect (letter), 327
Planimetry
Planimetry of mitral valve stenosis by magnetic resonance imaging, 2048
Plant sterols
Plant sterols in serum and in atherosclerotic plaques of patients undergoing carotid endarterectomy, 1795
Plaque
Act local, act global (editorial), 1600
Angiographic follow-up study of coronary rupture plaques in nonculprit lesions, 652
Detection of lipid-laden atherosclerotic plaque by wavelet analysis of radio-frequency intravascular ultrasound signals in vitro validation and preliminary in vivo application, 1954
Diffuse and active inflammation occurs in both vulnerable and stable plaques of the entire coronary tree, 1585
Does shear stress modulate both plaque progression and regression in the thoracic aorta?, 846
Effect of lipid-lowering therapy with atorvastatin on atherosclerotic aortic plaques detected by noninvasive magnetic resonance imaging, 733
Incidence and clinical correlates of ruptured plaques in saphenous vein grafts: an intravascular ultrasound study, 1974
Multiple plaque rupture and C-reactive protein in acute myocardial infarction, 1594
Picking plaques that pop . . . (editorial), 1970
Plant sterols in serum and in atherosclerotic plaques of patients undergoing carotid endarterectomy, 1795
Plaque rupture and intracoronary thrombus in nonculprit vessels (editorial), 659
Volumetric quantitative analysis of tissue characteristics of coronary plaques after statin therapy using three dimensional integrated backscatter intravascular ultrasound (3D IB-IVUS), 1946
Plasma
Relationship between inflammation and venous thromboembolism as studied by microparticle assessment in plasma (editorial), 1472
Plasma protein-A
Pregnancy-associated plasma protein-A levels in patients with acute coronary syndromes, 229
Plasminogen activator inhibitor-1
Gender differences in endothelial tissue-type plasminogen activator release in middle-aged adults (letter), 1547
Platelet(s)
Antagonism of selectin function attenuates microvascular platelet deposition and platelet-mediated myocardial injury after transient ischemia, 293
Elevation of endothelial microparticles, platelets, and leukocyte activation in patients with venous thromboembolism, 1467
Enhanced shear-induced platelet aggregation in patients who experienced subacute stent thrombosis: a case-control study, 1753
Highlights of the year in JACC 2004, 137
Only two-week smoking cessation improves platelet aggregability and intraplatelet redox imbalance of long-term smokers, 589
Platelet P-selectin plays an important role in arterial thrombogenesis by forming large stable platelet-leukocyte aggregates, 1280
Impact of valve prosthesis-patient mismatch on
atherosclerotic inflammation (editorial), 1458
Evidence for an increased rate of cardiovascular
events in patients without structural heart disease, 1259
36th Bethesda Conference: Task force 2: congenital
heart disease, 1326
Years in valve replacement, 111
Residual pulmonary artery hypertension after mitral
valve replacement, 1034
Pulmonary artery hypertension on the outcomes
of noncardiac surgery, 1691
Increased [18F]fluorodeoxyglucose accumulation in
right ventricular free wall in patients with
pulmonary hypertension and the effect of
epoprostanol, 1850
Pulmonary stenosis
36th Bethesda Conference: Task force 2: congenital
heart disease, 1326
Pulmonary valve replacement
Year in valvular heart disease, 111
Pulmonary vein antrum isolation
Need for atrial flutter ablation following pulmonary
vein antrum isolation in patients with and
without previous cardiac surgery, 690
Pre-existent left atrial scarring in patients
undergoing pulmonary vein antrum isolation, 285
Pulmonary veins
Autonomically induced conversion of pulmonary
vein focal firing into atrial fibrillation, 1879
Multislice computed tomography versus intracardiac
echocardiography to evaluate the pulmonary
veins before radiofrequency catheter ablation of
atrial fibrillation, 343
Outflow tract tachycardia with R/S transition in
lead V_{S}, 418
Radiofrequency ablation of ‘benign’ right
ventricular outflow tract extrasystole? (editorial), 1266
Radiofrequency catheter ablation of premature
ventricular complexes from right ventricular
outflow tract improves left ventricular dilation
and clinical status in patients without
structural heart disease, 1259
Role of transtelephonic electrocardiographic
monitoring in detecting short-term
arrhythmia recurrences after radiofrequency
ablation in patients with atrial fibrillation, 873
Transcatheter radiofrequency ablation of atrial
fibrillation in patients with left ventricular
prostheses and enlarged atria, 868
Randomized controlled trials
Cardiac medical therapy in patients after
undergoing coronary artery bypass graft
surgery, 177
Efficacy and safety of high-density lipoprotein
cholesterol-increasing compounds, 185
Real-time contrast echocardiography
Safety of dobutamine stress real-time myocardial
contrast echocardiography, 1235
Reentry
Rapid and stable reentry within the pulmonary vein
as a mechanism initiating paroxysmal atrial
fibrillation, 1872
Remodeling
C-type natriuretic peptide, a novel antifibrotic and
antihypertrophic agent, prevents cardiac
remodeling after myocardial infarction, 608
Detection of pathologic or physiologic left
ventricular remodeling in athletes (letter), 1731
Renal insufficiency
Angiotensin-converting enzyme inhibitors and
outcome among patients with heart failure and
renal insufficiency: need for a prospective
study(letter), 1905
Renal transplantation
Effect of kidney transplantation on left ventricular
systolic dysfunction and congestive heart
failure in patients with end-stage renal
disease, 1051

Prothesis-patient mismatch
Impact of valve prosthesis-patient mismatch on
pulmonary arterial pressure after mitral valve
replacement, 1034
Residual pulmonary artery hypertension after mitral
valve replacement (editorial), 1041
Prosthetic heart valves
See also Bioprostheses
Clinical development of percutaneous heart valve
technology, 1554
36th Bethesda Conference: Task force 3: valvular
dysfunction, 1461
Pregnancy-associated plasma protein-A
levels in patients with acute coronary syndromes, 229
Relation of dosing to clopidogrel responsiveness
and the incidence of high post-treatment
platelet aggregation in patients undergoing
coronary stenting, 1392
Variability in platelet responsiveness to clopidogrel
among 544 individuals, 246
Platelet-derived nitric oxide
Only two-week smoking cessation improves platelet
aggregability and intraplatelet redox imbalance
of long-term smokers, 589
Platelet-leukocyte aggregates
Platelet P-selectin plays an important role in
arterial thrombogenesis by forming large
stable platelet-leukocyte aggregates, 1280
Polyunsaturated fatty acids
N-3 fatty acids for the prevention of atrial
fibrillation after coronary artery bypass
surgery, 1723
Positron emission tomography
Comparison of treadmill exercise versus
dipyridamole stress with myocardial perfusion
imaging using rubidium-82 positron emission
imaging, 1227
Positron emission tomography-measured abnormal
responses of myocardial blood flow to
sympathetic stimulation are associated with
the risk of developing cardiovascular events, 1505
Pravastatin
Relative efficacy of atorvastatin 80 mg and
pravastatin 40 mg in achieving he dual goals
of low-density lipoprotein cholesterol, 1644
Pregnancy-associated plasma protein-A
Pregnancy-associated plasma protein-A levels in
patients with acute coronary syndromes, 229
Premature ventricular complexes
Radiofrequency catheter ablation of premature
ventricular complexes from right ventricular
outflow tract improves left ventricular dilation
and clinical status in patients without
structural heart disease, 1259
36th Bethesda Conference: Task force 7: arrhythmias, 1354
PRESTO trial
Predictive factors for ischemic target vessel
revascularization in the Prevention of
Restenosis with Tranilast and its Outcomes
(PRESTO) trial, 198
Primary aldosteronism
Evidence for an increased rate of cardiovascular
events in patients with primary aldosteronism, 1243
Should we consider aldosterone as the primary
screening target for preventing cardiovascular
events? (editorial), 1249
Progenitor cells
Circulating endothelial progenitor cells are reduced
in peripheral vascular complications of type 2
diabetes mellitus, 1449
Endothelial progenitor cell capture by stents coated
with antibody against CD34, 1574
Endothelial progenitor cell survival and
angiogenesis following ischemia (editorial), 1458
Impaired progenitor cell activity in age-related
endothelial dysfunction, 1441
Prosthesis-patient mismatch
Impact of valve prosthesis-patient mismatch on
pulmonary arterial pressure after mitral valve
replacement, 1034
Residual pulmonary artery hypertension after mitral
valve replacement (editorial), 1041
Pulmonary arterial pressure
Impact of valve prosthesis-patient mismatch on
pulmonary arterial pressure after mitral valve
replacement, 1034
Pulmonary arterial hypertension
Residual pulmonary artery pressure after mitral
valve replacement, 1034
Pulmonary artery
Electrocardiographic and electrophysiologic
characteristics of ventricular tachycardia
originating within the pulmonary artery, 887
Pulmonary artery stents
Highlights of the year in JACC, 2004, 137
Pulmonary capillary wedge pressure
Relationship between B-type natriuretic peptides
and pulmonary capillary wedge pressure in the
intensive care unit, 1667
Pulmonary hypertension
Impact of pulmonary hypertension on the outcomes
of noncardiac surgery, 1691
Increased [18F]fluorodeoxyglucose accumulation in
right ventricular free wall in patients with
pulmonary hypertension and the effect of
epoprostanol, 1850
Pulmonary stenosis
36th Bethesda Conference: Task force 2: congenital
heart disease, 1326
Pulmonary valve replacement
Year in valvular heart disease, 111
PQRS duration
Cross-sectional relations of electrocardiographic
QRS duration to left ventricular dimensions,
685
QT interval
Diabetic linoeratic acid and adjusted QT and JT
intervals in the National Heart, Lung, and
Blood Institute Family Heart Study, 1716
Quality of life
Health-related quality of life after interventional or
conservative strategy in patients with unstable
angina or non–ST-segment elevation
myocardial infarction, 221
Race
See also African Americans
Care disparities (editorial), 79
Trends in implantable cardioverter-defibrillator
racial disparity, 72
Radiofrequency ablation
See also Ablation
Focal atrial tachycardia from the ostium of the
coronary sinus, 1488
Multislice computed tomography versus intracardiac
echocardiography to evaluate the pulmonary
veins before radiofrequency catheter ablation of
atrial fibrillation, 343
Outflow tract tachycardia with R/S transition in
lead V_{S}, 418
Radiofrequency ablation of ‘benign’ right
ventricular outflow tract extrasystole? (editorial), 1266
Radiofrequency catheter ablation of premature
ventricular complexes from right ventricular
outflow tract improves left ventricular dilation
and clinical status in patients without
structural heart disease, 1259
Role of transtelephonic electrocardiographic
monitoring in detecting short-term
arrhythmia recurrences after radiofrequency
ablation in patients with atrial fibrillation, 873
Transcatheter radiofrequency ablation of atrial
fibrillation in patients with left ventricular
prostheses and enlarged atria, 868
Randomized controlled trials
Cardiac medical therapy in patients after
undergoing coronary artery bypass graft
surgery, 177
Efficacy and safety of high-density lipoprotein
cholesterol-increasing compounds, 185
Real-time contrast echocardiography
Safety of dobutamine stress real-time myocardial
contrast echocardiography, 1235
Reentry
Rapid and stable reentry within the pulmonary vein
as a mechanism initiating paroxysmal atrial
fibrillation, 1872
Remodeling
C-type natriuretic peptide, a novel antifibrotic and
antihypertrophic agent, prevents cardiac
remodeling after myocardial infarction, 608
Detection of pathologic or physiologic left
ventricular remodeling in athletes (letter), 1731
Renal insufficiency
Angiotensin-converting enzyme inhibitors and
outcome among patients with heart failure and
renal insufficiency: need for a prospective
study(letter), 1905
Renal transplantation
Effect of kidney transplantation on left ventricular
systolic dysfunction and congestive heart
failure in patients with end-stage renal
disease, 1051
Improvement of heart failure after renal transplantation (editorial), 1061

Reperfusion
Assessment of myocardial viability in reperfused acute myocardial infarction using 16-slice computed tomography in comparison to magnetic resonance imaging, 2042
Beneficial effect of hydroxyfasudil, a specific rho-kinase inhibitor, on ischemia/reperfusion injury in canine coronary microcirculation in vivo, 599
Gender and myocardial salvage after reperfusion treatment in acute myocardial infarction, 828

Hyperglycemia is an important predictor of impaired coronary flow before reperfusion therapy in ST-segment elevation myocardial infarction, 999
Randomized, double-blinded, placebo-controlled multicenter trial of adenosine as an adjunct to reperfusion in the treatment of acute myocardial infarction (AMISTAD-II), 1776
Reperfusion strategies for acute myocardial infarction in the elderly, 471

Rescue angioplasty
Definition of failed lysis may have influenced outcome in the MERLIN trial (letter), 808
Rescue angioplasty—The MERLIN trial (letter), 806

Research
Alcohol and the cardiovascular system: research challenges and opportunities, 1916
Antagonism of selectin function attenuates microvascular platelet deposition and platelet-mediated myocardial injury after transient ischemia, 293
Beneficial effect of hydroxyfasudil, a specific rho-kinase inhibitor, on ischemia/reperfusion injury in canine coronary microcirculation in vivo, 599
Detection of peripheral vascular stenosis by assessing skeletal muscle flow reserve, 780
Effectiveness of fludrocortisone and salt in preventing syncope recurrence in children, 484
Prior exercise training improves the outcome of acute myocardial infarction in the rat, 931
Statins decrease perioperative cardiac complications in patients undergoing noncardiac vascular surgery, 336

Restenosis
See also Stenosis
Angiographic patterns of restenosis after paclitaxel-eluting stent implantation, 805
Predictive factors for ischemic target vessel revascularization in the Prevention of Restenosis with Tranilast and its Outcomes (PRESTO) trial, 198

Simple, inexpensive, rapid, and accurate preclinical model for in-stent restenosis (letter), 1310
Year in interventional cardiology, 1117

Restrictive cardiomyopathy
Efficacy of brain natriuretic peptide levels in differentiating constrictive pericarditis from restrictive cardiomyopathy, 1901

Retroperitoneal hematoma
Risk factors for the development of retroperitoneal hematoma after percutaneous coronary intervention in the era of glycoprotein IIb/IIIa inhibitors and vascular closure devices, 363

Revascularization
Predictive factors for ischemic target vessel revascularization in the Prevention of Restenosis with Tranilast and its Outcomes (PRESTO) trial, 198

Relationship between angiographic late loss and target lesion revascularization after coronary stent implantation, 1191

Rheumatoid arthritis
Simvastatin improves endothelial function in patients with rheumatoid arthritis, 461

Rho-kinase inhibitors
Beneficial effect of hydroxyfasudil, a specific rho-kinase inhibitor, on ischemia/reperfusion injury in canine coronary microcirculation in vivo, 599

Right atrial pacing
Right atrial pacing impairs cardiac function during resynchronization therapy, 1482

Right bundle branch block
Detection of left ventricular asynchrony in patients with right bundle branch block after repair of tetralogy of Fallot using tissue-Doppler imaging-derived strain, 915

36th Bethesda Conference: Task force 7: arrhythmias, 1354

Right ventricle
Improvements in cardiac form and function after transcatheter closure of secundum atrial septal defects, 499
Increased [18F]fluorodeoxyglucose accumulation in right ventricular free wall in patients with pulmonary hypertension and the effect of epoprostenol, 1850
Left ventricular assist device support normalizes left and right ventricular beta-adrenergic pathway properties, 668

Right ventricular cardiomyopathy
Noninvasive detection of myocardial fibrosis in arrhythmogenic right ventricular cardiomyopathy using delayed-enhancement magnetic resonance imaging, 98

Right ventricular myocardial infarction
Does inhalated nitric oxide support the hemodynamics of spontaneous breathing patients with cardiogenic shock related to right ventricular myocardial infarction? (letter), 965

Right ventricular outflow tract
Radiofrequency ablation of "benign" right ventricular outflow tract extrastole? (editorial), 1266
Radiofrequency catheter ablation of premature ventricular complexes from right ventricular outflow tract improves left ventricular dilation and clinical status in patients without structural heart disease, 1259

Risk stratification
Electrocardiography and Doppler echocardiography for risk stratification in patients with chronic heart failure, 1072
Glutathione peroxidase-1 and homocysteine for cardiovascular risk prediction, 1631
Improvement or cardiovascular risk markers by pioglitazone is independent from glycemic control—results from the Pioner study, 1925
Is the association between flow-mediated dilatation and cardiovascular risk limited to low risk populations?, 1987
Primary and a half prevention—can we identify symptomatic subjects with high vascular risk? (editorial), 1994
Prognostic score for prediction of cardiac mortality risk after adenosine stress myocardial perfusion scintigraphy, 722
Quantitative instruments for predicting risk...and benefit (editorial), 730

What is the risk of stent thrombosis associated with the use of paclitaxel-eluting stents for percutaneous coronary intervention?, 941
Which white blood cell subtypes predict increased cardiovascular risk?, 1638

Rubidium-82 positron emission tomography
Comparison of treadmill exercise versus dipyridamole stress with myocardial perfusion imaging using rubidium-82 positron emission tomography, 1227

Salt
Effectiveness of fludrocortisone and salt in preventing syncope recurrence in children, 484

Saphenous vein grafts
Incidence and clinical correlates of ruptured plaques in saphenous vein grafts: an intravascular ultrasound study, 1974
Treatment of saphenous vein graft lesions with drug-eluting stents, 989
Year in interventional cardiology, 1117

Sarcoidosis
Evaluation of the accuracy of gadolinium-enhanced cardiovascular magnetic resonance in the diagnosis of cardiac sarcoidosis, 1063

Scintigraphy
Prognostic score for prediction of cardiac mortality risk after adenosine stress myocardial perfusion scintigraphy, 722

Screenings
Identifying high-risk asymptomatic diabetic patients who are candidates for screening stress single photon emission computed tomography imaging, 43
Primary and a half prevention—can we identify asymptomatic subjects with high vascular risk? (editorial), 1994
Should we screen for occult coronary artery disease among asymptomatic patients with diabetes?, 50

Selectins
Antagonism of selectin function attenuates microvascular platelet deposition and platelet-mediated myocardial injury after transient ischemia, 293
Platelet P-selectin plays an important role in arterial thrombogenesis by forming large stable platelet-leukocyte aggregates, 1260

Septal tachycardia
Cryo-ablation for septal tachycardia substrates in pediatric patients, 581

September 11, 2001
World Trade Center attack and cardiac events: fact or fear? (letter), 1732

Shear stress
Does shear stress modulate both plaque progression and regression in the thoracic aorta?, 846

Shear-induced platelet aggregation
Enhanced shear-induced platelet aggregation in patients who experienced subacute stent thrombosis: a case-control study, 1753

Short QT syndrome
36th Bethesda Conference: Task force 7: arrhythmias, 1354

SHP-1
Tyrosine phosphatase SHP-1 is a negative regulator of endothelial superoxide formation, 1700

Shunts
Association of interarterial shunts and migraine headaches, 489

Simvastatin
Simvastatin improves endothelial function in patients with rheumatoid arthritis, 461

Single nucleotide polymorphism
Common PCSK9 haplotype, encompassing the E670G coding single nucleotide haplotype, encompasses the E670G coding single nucleotide
polymorphism, is a novel genetic marker for plasma low-density-lipoprotein cholesterol levels and severity of coronary atherosclerosis, 1611

Single-photon emission computed tomography

See also Computed tomography

Ethnic differences in the prognostic value of stress technetium-99m tetrofosmin gated single-photon emission computed tomography myocardial perfusion imaging, 1494

Highlights of the year in JACC 2004, 137

Identifying high-risk asymptomatic diabetic patients who are candidates for screening stress single-photon emission computed tomography imaging, 42

Sirolimus-eluting stents

Direct stenting of native de novo coronary artery lesions with the sirolimus-eluting stent, 10

Highlights of the 2004 Transcatheter Cardiovascular Therapeutics (TCT) Annual Meeting: clinical implications, 796

Prospective randomized comparison between paclitaxel and sirolimus stents in the real world of interventional cardiology, 308

Sirolimus-eluting stent implantation for unprotected left main coronary artery stenosis, 351

Stent underexpansion and residual reference segment stenosis are related to stent thrombosis after sirolimus-eluting stent implantation, 995

Thirty-day incidence and six-month clinical outcome of thrombotic stent occlusion after bare-metal, sirolimus, or paclitaxel stent implantation, 947

Unrestricted use of paclitaxel- versus sirolimus-eluting stents for coronary artery disease in an unselected population, 1135

Skeletal muscle flow reserve

Detection of peripheral vascular stenosis by assessing skeletal muscle flow reserve, 780

Sleep apnea

Cardiac resynchronization therapy, central sleep apnea, and Cheyne-Stokes respiration in chronic heart failure patients (letter), 633

Inhibition of awake sympathetic nerve activity of heart failure patients with obstructive sleep apnea by nocturnal continuous positive airway pressure, 2008

Treating sleep apnea in heart failure patients: promises but still no prizes (editorial), 2012

Smallpox vaccination

Cautious interpretation of data regarding myopericarditis associated with smallpox vaccination (letter), 160

Smokeless tobacco

Hemodynamic and autonomic effects of smokeless tobacco in healthy young men, 910

Smoking

Association of smoking with improved myocardial perfusion and the angiographic characterization of myocardial tissue perfusion after fibrinolytic therapy for ST-segment elevation myocardial infarction (letter), 321

Only two-week smoking cessation improves platelet aggregability and intraplatelet redox imbalance of long-term smokers, 589

Spectral Doppler sonification

Broad-beam spectral Doppler sonification of the vena contracta using matrix-array technology, 770

Spontaneous echo contrast

Patients with atrial fibrillation and dense spontaneous echo contrast at high risk—a prospective and serial follow-up over 12 months with transeosophageal echocardiography and cerebral magnetic resonance imaging, 1808

Sports

36th Bethesda Conference: Task force 8: classification of sports, 1364

ST segment

C-reactive protein and electrocardiographic ST segment depression additively predict mortality: The Strong Heart Study, 1788

Statins

Additive beneficial effects of fenofibrate combined with atorvastatin in the treatment of combined hyperlipidemia, 1649

Efficacy and safety of high-density lipoprotein cholesterol-increasing compounds, 185

Failure to protect the myocardium against ischemia/reperfusion injury after chronic atorvastatin treatment is recaptured by acute atorvastatin treatment, 1287

Optimal lipids, statins, and dementia (letter), 963

Pleiotropic effects of statins (editorial), 1292

Relative efficacy of atorvastatin 80 mg and pravastatin 40 mg in achieving its dual goals of low-density lipoprotein cholesterol, 1644

Statins decrease perioperative cardiac complications in patients undergoing noncardiac vascular surgery, 336

Volumetric quantitative analysis of tissue characteristics of coronary plaques after plaque therapy using three dimensional integrated backscatter intravascular ultrasound (3D IB-LVUS), 1946

Stenosis

See also Restenosis

Association of a negative residual stenosis following rescue/adjunctive percutaneous coronary intervention with impaired myocardial perfusion and adverse outcomes among ST-segment elevation myocardial infarction patients, 357

Coronary stenosis detection by 16-slice computed tomography in heart transplant patients: comparison with conventional angiography and impact on clinical management, 1827

Different effects of high cholesterol diet on ischemic cardiac dysfunction and remodeling induced by coronary stenosis and by coronary occlusion, 2078

Evaluation of flow in the left anterior descending coronary artery but not in the left internal mammary artery graft predicts significant stenosis of the arterial conduit, 424

Outcomes of paclitaxel-eluting stent implantation in patients with stenosis of the left anterior descending coronary artery, 1186

Sirolimus-eluting stent implantation for unprotected left main coronary artery stenosis, 351

Stent underexpansion and residual reference segment stenosis are related to stent thrombosis after sirolimus-eluting stent implantation, 995

Stents and stenting

See also Drug-eluting stents

Angiographic patterns of restenosis after paclitaxel-eluting stent implantation, 805

Clinical competence statement on carotid stenting: training and credentialing for carotid stenting—multisociety consensus recommendations, 165

Coronary stenting versus balloon angioplasty in small vessels (letter), 323

Creatine kinase-MB elevation following stent implantation (letter), 1908

Direct stenting of native de novo coronary artery lesions with the sirolimus-eluting stent, 10

Drug-eluting stent thrombosis, 954

Drug-eluting stents for diabetes mellitus, 479

Endothelial progenitor cell capture by stents coated with antibody against CD34, 1574

Enhanced shear-induced platelet aggregation in patients who experienced subacute stent thrombosis: a case-control study, 1753

Highlights of the 2004 Transcatheter Cardiovascular Therapeutics (TCT) Annual Meeting: clinical implications, 796

Highlights of the year in JACC 2004, 137

Late angiographic stent thrombosis (LAST) events with drug-eluting stents, 2088

Multiple overlapping drug-eluting stents to treat diffuse disease of the left anterior descending coronary artery, 1745

Outcomes with the pacltazex-eluting stent in patients with acute coronary syndromes, 1165

Outcomes with the polymer-based paclitaxel-eluting TAXUS stent in patients with diabetes mellitus, 1172

Polymer-based paclitaxel-eluting stents reduce in-stent neointimal tissue proliferation, 1201

Prevalence and clinical impact of stent fractures after femoropopliteal stenting, 312

Prospective randomized comparison between paclitaxel and sirolimus stents in the real world of interventional cardiology, 308

Relation of dosing to clopidogrel responsiveness and the incidence of high post-treatment platelet aggregation in patients undergoing coronary stenting, 1392

Relationship between angiographic late loss and target lesion revascularization after coronary stent implantation, 1191

Sirolimus-eluting stent implantation for unprotected left main coronary artery stenosis, 351

Stent thrombosis in awake patients with an impaired response to antiplatelet therapy, 1748

Stent underexpansion and residual reference segment stenosis are related to stent thrombosis after sirolimus-eluting stent implantation, 995

Surrogates, substudies, and real clinical end points in trial of drug-eluting stents (editorial), 1206

Thirty-day incidence and six-month clinical outcome of thrombotic stent occlusion after bare-metal, sirolimus, or paclitaxel stent implantation, 947

Treatment of saphenous vein graft lesions with paclitaxel-eluting stents, 805

Drug-eluting stents, 989

What is the risk of stent thrombosis associated with the use of pacltazex-eluting stents for percutaneous coronary intervention?, 941

Stress echocardiography

Stress echocardiography: current methodology and clinical applications, 1747

Stroke

Angiotensin II inhibition and prevention of atrial fibrillation and stroke (editorial), 720

Angiotensin II receptor blockade reduces new-onset atrial fibrillation and subsequent stroke compared to atenolol, 712

Are transthoracic echocardiographic parameters associated with atrial fibrillation recurrence or stroke? Results from the AFFIRM study, 2026
Recent hypertension trials, 813

ST-segment elevation myocardial infarction
See also Myocardial infarction

Association of a negative residual stenosis following rescue/adjunctive percutaneous coronary intervention with impaired myocardial perfusion and adverse outcomes among ST-segment elevation myocardial infarction patients, 357

Association of smoking with improved myocardial perfusion and the angiographic characterization of myocardial tissue perfusion after fibrinolytic therapy for ST-segment elevation myocardial infarction (letter), 321

Conflation of empiric and nonempiric truths in cardiovascular guidelines (letter), 1553

Hyperglycemia is an important predictor of impaired coronary flow before reperfusion therapy in ST-segment elevation myocardial infarction, 999

Omega-3 fatty acids for secondary prevention (letter), 1552

Subclinical hypothyroidism

Does subclinical hypothyroidism affect cardiac pump performance?, 439

Supraventricular tachycardia

36th Bethesda Conference: Task force 7: Efficacy of a patient-activated pharmacologic pump

Preservation of the anterior fat pad and incidence of postoperative atrial fibrillation following coronary surgery (letter), 1308

Statins decrease perioperative cardiac complications in patients undergoing noncardiac vascular surgery, 336

Year in cardiovascular surgery, 1517

Sympathetic nerves

Inhibition of awake sympathetic nerve activity of heart failure patients with obstructive sleep apnea by nocturnal continuous positive airway pressure, 2008

Syncope

Amnesia for loss of consciousness in carotid sinus syndrome—implications for presentation with falls, 1841

Effectiveness of fludrocortisone and salt in preventing syncope recurrence in children, 484

Efficacy of a patient-activated pharmacologic pump using phenylephrine as active drug and prodromal symptoms as a marker of imminent loss of consciousness to abort tilt-induced syncope (letter), 320

36th Bethesda Conference: Task force 7: arrhythmias, 1354

Systolic blood pressure

Influence of pretreatment systolic blood pressure on benefit from carvedilol in severe chronic heart failure patients (letter), 809

Systolic dysfunction

Noninvasive diagnosis of coronary artery disease in patients with heart failure and systolic dysfunction of uncertain etiology, using late gadolinium-enhanced cardiovascular magnetic resonance, 743

Tachyarrhythmias

Transcatheter crioablation of tachyarrhythmias in children, 133

Tachycardia

See also Atrial tachycardia; Ventricular tachycardia

Cryo-ablation for septic tachycardia substrates in pediatric patients, 581

Outflow tract tachycardia with R/S transition in lead V6, 418

Target lesion revascularization

Relationship between angiographic late loss and target lesion revascularization after coronary stent implantation, 1191

Target vessel revascularization

Predictive factors for ischemic target vessel revascularization in the Prevention of Restenosis with Tranlast and its Outcomes (PRESTO) trial, 198

TAXUS stent

Gender-based outcomes after paclitaxel-eluting stent implantation in patients with coronary artery disease, 1180

Outcomes of paclitaxel-eluting stent implantation in patients with stenosis of the left anterior descending coronary artery, 1186

Outcomes with the polymer-based paclitaxel-eluting TAXUS stent in patients with diabetes mellitus, 1172

Polymer-based paclitaxel-eluting stents reduce in-stent neointimal tissue proliferation, 1201

Relationship between angiographic late loss and target lesion revascularization after coronary stent implantation, 1191

Surrogates, substudies, and real clinical end points in trial of drug-eluting stents, (editorial), 2126

Technetium-99m

Ethnic differences in the prognostic value of stress technetium-99m tetrofosmin gated single-photon emission computed tomography myocardial perfusion imaging, 1494

Prognostic value of lang sestamibi uptake in myocardial perfusion imaging of patients with known or suspected coronary artery disease, 1676

Telemetry

Noninvasive home telemetry for patients with heart failure at high risk of recurrent admission and death, 1654

Tetralogy of Fallot

Detection of left ventricular asynchrony in patients with right bundle branch block after repair of tetralogy of Fallot using tissue-Doppler imaging-derived strain, 915

Enhanced T-helper-1 lymphocyte activation patterns in acute coronary syndromes, 1939

Thoracic aorta

Does shear stress modulate both plaque progression and regression in the thoracic aorta?, 846

Thrombin

CD40 ligand enhances monocyte tissue factor expression and thrombin generation via oxidative stress in patients with hypercholesterolemia, 35

Thrombosis

Elevation of endothelial microparticles, platelets, and leukocyte activation in patients with venous thromboembolism, 1467

Relationship between inflammation and venous thromboembolism as studied by microparticle assessment in plasma (editorial), 1472

Thrombogenesis

Platelet P-selectin plays an important role in arterial thrombogenesis by forming large stable platelet-leukocyte aggregates, 1280

Thrombolysis

Primary angioplasty is cost-minimizing compared with pre-hospital thrombolysis for patients within 60 min of a percutaneous coronary intervention center, 515

Thrombolysis should be regarded as first-line therapy for prosthetic valve thrombosis in the absence of contraindications (letter), 325

Thrombosis

Drug-eluting stent thrombosis, 954

Enhanced shear-induced platelet aggregation in patients who experienced subacute stent thrombosis: a case-control study, 1753

Late angiographic stent thrombosis (LAST) events with drug-eluting stents, 2088

Stent thrombosis is associated with an impaired response to antiplatelet therapy, 1748

Thirty-day incidence and six-month clinical outcome of thrombotic stent occlusion after bare-metal, sirolimus, or paclitaxel stent implantation, 947

Thrombolysis should be regarded as first-line therapy for prosthetic valve thrombosis in the absence of contraindications (letter), 325

What is the risk of stent thrombosis associated with the use of paclitaxel-eluting stents for percutaneous coronary intervention?, 941

Thrombus

Plaque rupture and intracoronary thrombus in nonculprit vessels (editorial), 659

Tilt-induced syncope

Efficacy of a patient-activated pharmacologic pump using phenylephrine as active drug and prodromal symptoms as a marker of imminent loss of consciousness to abort tilt-induced syncope (letter), 320

Tissue Doppler imaging

Detection of left ventricular asynchrony in patients with right bundle branch block after repair of tetralogy of Fallot using tissue-Doppler imaging-derived strain, 915

Incremental predictive power of B-type natriuretic peptide and tissue Doppler echocardiography in the prognosis of patients with congestive heart failure, 1223

Independent and incremental prognostic value of early mitral annulus velocity in patients with impaired left ventricular systolic function, 272

Tissue factor

Alterations in myocardial tissue factor expression and cellular localization in dilated cardiomyopathy, 1081

Relationship between inflammation and venous thromboembolism as studied by microparticle assessment in plasma (editorial), 1472

Tissue synchronization imaging

Novel tool to assess systolic asynchrony and identify responders of cardiac resynchronization therapy by tissue synchronization imaging, 677

Tissue-type plasminogen activator

Gender differences in endothelial tissue-type plasminogen activator release in middle-aged adults (letter), 1547

Tobacco

Hemodynamic and autonomic effects of smokeless tobacco in healthy young men, 910
Plasma triglycerides and type III hyperlipidemia are independently associated with premature familial coronary artery disease, 1003

Troponins
Prognostic implications of elevated troponin in patients with suspected acute coronary syndrome but no critical epicardial coronary disease, 19
Relationship of irreversible myocardial injury to troponin I and creatine kinase-MB elevation after coronary artery bypass graft surgery: insights from cardiovascular magnetic resonance imaging (letter), 629

Tumor necrosis factor-related apoptosis-inducing ligand
Involvement of tumor necrosis factor-related apoptosis-inducing ligand (TRAIL) in atherosclerosis, 1018

22q11.2 microdeletion
Prevalence and clinical manifestations of 22q11.2 microdeletion in adults with selected craniofacial anomalies, 595

Ultrasound
Detection of peripheral vascular stenosis by assessing skeletal muscle flow reserve, 780
Incidence and clinical correlates of ruptured plaques in saphenous vein grafts: an intravascular ultrasound study, 1974
Intracoronary ultrasound assessment late after the arterial switch operation for transposition of the great arteries, 2061
Measurement of ventricular torsion by 2D ultrasound speckle, 2034
Polymer-based paclitaxel-eluting stents reduce in-stent neointimal tissue proliferation, 1201
Stent underexpansion and residual reference segment stenosis are related to stent thrombosis after sirolimus-eluting stent implantation, 995
Use of ultrasound contrast agents for gene or drug delivery in cardiovascular medicine, 329
Volumetric quantitative analysis of tissue characteristics of coronary plaques after stent therapy using three dimensional integrated backscatter intravascular ultrasound (3D IB-IVUS), 1946

Unstable angina
Health-related quality of life after interventional or conservative strategy in patients with unstable angina or non-ST-segment elevation myocardial infarction, 221
Persistent systemic inflammation in unstable angina is largely unrelated to the atherothrombotic burden, 239

Vaccines
Cardiac complications of vaccines (letter), 1309

Valsalva maneuver
Proper conduct of Valsalva maneuver for the detection of patent foramen ovale (letter), 1149

Valvular heart disease
36th Bethesda Conference: Task force 3: valvular heart disease, 1334
Year in valvular heart disease, 111

Vascular endothelial growth factor
Direct intramyocardial plasmid vascular endothelial growth factor-A, 982

Vasodilation
Noninvasive assessment of coronary vasodilation using magnetic resonance angiography, 104

Vena contracta
Broad-beam spectral Doppler sonification of the vena contracta using matrix-array technology, 370

Venous occlusion
Increase of C-reactive protein is associated with enhanced activation of endogenous fibrinolysis at baseline but an impaired endothelial fibrinolytic response after venous occlusion, 30

Venous thromboembolism
Elevation of endothelial microparticles, platelets, and leukocyte activation in patients with venous thromboembolism, 1467
Relationship between inflammation and venous thromboembolism as studied by microparticle assessment in plasma (editorial), 1472

Ventricles
See Left ventricle; Right ventricle

Ventricular assist devices
See also Left ventricular assist devices
Ventricular assist device therapy normalizes inducible nitric oxide synthase expression and reduces cardiomyocyte apoptosis in the failing human heart, 1419

Ventricular asynchrony
Ventricular asynchrony predicts a better outcome in patients with chronic heart failure receiving cardiac resynchronization therapy, 65

Ventricular fibrillation
Better outcome after pediatric defibrillation dosage than adult dosage in a swine model of pediatric ventricular fibrillation, 786
Depression as a predictor for appropriate shocks among patients with implantable cardioverter-defibrillators, 1090
Effects of left ventricular assist device therapy on ventricular arrhythmias, 1428

Ventricular septal defect
36th Bethesda Conference: Task force 2: congenital heart disease, 1326

Ventricular tachycardia
Depression as a predictor for appropriate shocks among patients with implantable cardioverter-defibrillators, 1090
Effects of left ventricular assist device therapy on ventricular arrhythmias, 1428
Electrocardiographic and electrophysiologic characteristics of ventricular tachycardia originating within the pulmonary artery, 887
Fast ventricular tachycardias in patients with implantable cardioverter-defibrillators: efficacy and safety of antitachycardia pacing, 460
Idiopathic ventricular arrhythmia arising from the mitral annulus, 877
Infarct morphology identifies patients with substrate for sustained ventricular tachycardia, 1104
36th Bethesda Conference: Task force 7: arrhythmias, 1354

Ventricular torsion
Measurement of ventricular torsion by 2D ultrasound speckle, 2034

Verapamil
Cellular and ionic mechanism for drug-induced long QT syndrome and effectiveness of verapamil, 300

Wall thickening
Role of collateral blood flow in the apparent disparity between the extent of abnormal wall thickening and perfusion defect size during acute myocardial infarction and demand ischemia, 565
Warfarin
Atrial fibrillation: the ancient conundrum defies simple solution, 1814

White blood cells
Which white blood cell subtypes predict increased cardiovascular risk?, 1638

Wolff-Parkinson-White syndrome
Adenosine monophosphate-activated protein kinase disease mimicks hypertrophic cardiomyopathy and Wolff-Parkinson-White syndrome, 922
36th Bethesda Conference: Task force 7: arrhythmias, 1354

Women
See also Gender
Is aspirin resistance or female gender associated with a high incidence of myonecrosis after nonurgent percutaneous coronary intervention? (letter), 635

World Trade Center attack
World Trade Center attack and cardiac events: fact or fear? (letter), 1732

Ximelagatran
Ximelagatran: oral direct thrombin inhibitor as anticoagulant therapy in atrial fibrillation, 1