## Subject Index: Volume 29

### Ablation procedures
- Long-term follow-up after radiofrequency modification of the atrioventricular node in patients with atrial fibrillation, 113
- New electrocardiographic algorithm using retrograde P waves for differentiating atrioventricular node reentrant tachycardia from atrioventricular reciprocating tachycardia mediated by concealed accessory pathway, 394
- Subthreshold stimulation of the region of the slow pathway during atrioventricular node reentrant tachycardia: correlation with effect or radiofrequency catheter ablation, 408

### Academic medicine
- Public enemy number 2: academic medicine under the federal spotlight (Editor's page), 1117
- ACC
  - American College of Cardiology National Database: progress and challenges, 459
  - American College of Cardiology report on EC GEXAM, 466
- Reimbursement for cardiac rehabilitation services (letter), 475

### ACC/AHA Practice Guidelines
- ACC/AHA Guidelines for the Clinical Application of Echocardiography: Executive Summary: a report of the American College of Cardiology/American Heart Association Task Force on Practice Guidelines (Committee on Clinical Applications of Echocardiography), 862

### ACC news
- ACC Chapter contact information, 1121
- Newly elected members of the College, 882
- 1997–1998 Board of Governors, 1118
- President's page: cardiovascular research—is something missing?, 457
- President's page: challenging the future with the success of our past, 880
- President's page: evaluation and management—the 51% solution, 219
- President's page: first, do no harm, 1405
- President's page: too many cardiologists?, 703

### Accessory pathways
- New electrocardiographic algorithm using retrograde P waves for differentiating atrioventricular node reentrant tachycardia from atrioventricular reciprocating tachycardia mediated by concealed accessory pathway, 394
- Subthreshold stimulation of the region of the slow pathway during atrioventricular node reentrant tachycardia: correlation with effect or radiofrequency catheter ablation, 408

### Acetylcholine
- Nitric oxide activity in the atherosclerotic human coronary circulation, 308

### Acute myocardial infarction
- See Myocardial infarction

### Adenosine
- Adenosine thallium-201 tomography in evaluation of graft patency later after coronary artery bypass graft surgery, 1290

### Afterdepolarizations
- Optical mapping of drug-induced polymorphic arrhythmias and torsade de pointes in the isolated rabbit heart, 831

### Age factors
- See also Elderly
- Acute myocardial infarction: clinical characteristics, management and outcome in a metropolitan Veterans Affairs medical center teaching hospital, 915
- Age dependency of left ventricular diastolic function in pressure overload hypertrophy, 181
- Age-dependent changes in cardiac muscarinic receptor function in healthy volunteers, 187
- Age-gender influence on the rate-corrected QT interval and the QT-heart rate relation in families with genotypically characterized long QT syndrome, 93

### Alpha-tropomyosin gene
- Age-dependent changes in cardiac muscarinic receptor function in healthy volunteers, 187

### Alcohol
- Spectrum of alcohol-induced myocardial damage detected by indium-111-labeled monoclonal antimyosin antibodies, 160

### Alpha-tropomyosin gene
- Clinical features of hypertrophic cardiomyopathy caused by mutation of a "hot spot" in the alpha-tropomyosin gene, 635

### Ambulatory care
- Outpatient coronary stent implantation, 323

### Amiodarone
- Heart rate is a marker of amiodarone mortality reduction in severe heart failure, 1199
- Intravenous amiodarone, 1190

### Amyloidosis
- Clinical value of a new Doppler index in cardiac amyloidosis (letter), 471
- Iodine-123 metiodobenzylguanidin scintigraphy assessment of myocardial sympathetic innervation in patients with familial amyloid polyneuropathy, 168

### Anastomosis
- Cardiorespiratory response to exercise after modified Fontan operation: determinants of performance, 785

### Angina pectoris
- Akinetic versus dyskinetic postinfarction scar: relation to surgical outcome in patients undergoing endoventricular circular patch plasty repair, 1569
- Coronary angioplasty for elderly patients with "high-risk" unstable angina: short-term outcomes and long-term survival, 339
- Correlation of angiographic morphology and clinical presentation in unstable angina, 519
- Dose-ranging trial of enonaparin for unstable angina: results of TIMI 11A trial, 1474
- Effect of transdermal nitroglycerin or N-acetylcysteine, or both, in the long-term treatment of unstable angina pectoris, 941
- Investigation of the mechanism of chest pain in patients with angiographically normal coronary arteries using transesophageal dobutamine stress echocardiography, 293
- Percutaneous transluminal coronary angioplasty versus medical therapy for stable angina pectoris: outcomes for patients with double-vessel versus single-vessel coronary artery disease in a Veterans Affairs cooperative randomized trial, 1505
- William Heberden revisited: postprandial angina—interval between food and exercise and meal composition are important determinants of time of onset of ischemia and maximal exercise tolerance, 302

### Angiogenesis
- See Myocardial angiogenesis

### Angiography
- Correlation of angiographic morphology and clinical presentation in unstable angina, 519
- Detailed angiographic analysis of patients with ambulatory electrocardiographic ischemia: results from the Asymptomatic Cardiac Ischemia Pilot (ACIP) study angiographic core laboratory, 78
- Reappraisal of exercise electrocardiographic indexes of the severity of ischemic heart disease: angiographic and scintigraphic correlates, 1497

### Angioplasty
- See also Restenosis
- Analysis of the relative cost and effectiveness of primary angioplasty versus tissue-type plasminogen activator: the Primary Angioplasty in Myocardial Infarction (PAMI) trial, 901
- Antiarrhythmic effects of repeated coronary occlusion during balloon angioplasty, 1035
- Bailout and corrective use of Gianturco-Roubin flex stents after percutaneous transluminal coronary angioplasty: operator reports and angiographic core laboratory verification from the National Heart, Lung, and Blood Institute/New Approaches to Coronary Intervention Registry, 934
- Coronary angioplasty for elderly patients with "high-risk" unstable angina: short-term outcomes and long-term survival, 339
- Coronary angioplasty results in leukocyte and platelet activation with adhesion molecule expression: evidence of inflammatory responses in coronary angioplasty, 1276
- Estrogen replacement therapy after coronary angioplasty in women, 1
- Fate of collateral vessels after successful coronary angioplasty in patients with effort angina, 544
Percutaneous transluminal coronary angioplasty versus medical therapy for stable angina pectoris: outcomes for patients with double-vessel versus single-vessel coronary artery disease in a Veterans Affairs cooperative randomized trial, 1505

Prospective, randomized evaluation of prophylactic intraaortic balloon counterpulsation in high risk patients with acute myocardial infarction treated with primary angioplasty, 1459

PTCA comes to the bifurcations in the road: what the VA has to offer (editorial comment), 1512

Randomized comparison of percutaneous transluminal coronary angioplasty by the radial, brachial and femoral approaches: the Access study, 1269

Randomized comparison of primary coronary angioplasty with thrombolytic therapy in low risk patients with acute myocardial infarction, 908

Role of coronary artery lumen enlargement in improving coronary blood flow after balloon angioplasty and stenting: a combined intravascular ultrasound Doppler flow and imaging study, 1520

Rule No. 7: nights and weekends (editorial comment), 913

Angiography

Heterogeneity of cardiac allograft vasculopathy: clinical insights from coronary angiography, 1339

Angiotensin-converting enzyme inhibitors

See also specific agent

Angiotensin-converting enzyme inhibitor therapy affects left ventricular mass in patients with ejection fraction >40% after acute myocardial infarction, 49

Angiotensin-converting enzyme inhibitors, angiotensin II receptor antagonists, and calcium channel blocking agents: a review of potential benefits and possible adverse reactions, 1414

Angiotensin-converting enzyme inhibitors potentiate preconditioning through bradykinin B2 receptor activation in human heart, 1599

Beta-adrenergic blocking agents or angiotensin converting enzyme inhibitors, or both, for postinfarction patients with left ventricular dysfunction (editorial comment), 237

Angiotensin-converting enzyme receptor gene

Angiotensin II type 1 receptor gene polymorphism is associated with coronary artery vasoconstriction, 486

Association of angiotensin I-converting enzyme gene polymorphism with myocardial ischemia and patency of infarct-related artery in patients with acute myocardial infarction, 1468

Deletion polymorphism of angiotensin-converting enzyme gene and left ventricular hypertrophy in southern Italian patients, 365

Angiotensin receptor antagonists

Angiotensin-converting enzyme inhibitors, angiotensin II receptor antagonists, and calcium channel blocking agents: a review of potential benefits and possible adverse reactions, 1414

Anisotropy

Electrophysiologic effects of sodium channel blockade on anisotropic conduction and conduction block in canine myocardium: preferential slowing of longitudinal conduction by flecaidine versus disopyramide or lidocaine, 1639

Arrhythmias, ventricular

Antiarrhythmic effect of increasing the daily intake of magnesium and potassium in patients with frequent ventricular arrhythmias, 1029

Antiarrhythmic effects of repeated coronary occlusion during balloon angioplasty, 1035

High incidence of appropriate implantable cardioverter-defibrillator therapy in patients with syncope of unknown etiology and inducible ventricular arrhythmias, 370

Intravenous amiodarone, 1190

Optical mapping of drug-induced polymorphic arrhythmias and torsade de pointes in the isolated rabbit heart, 831

Twisting of the points (editorial comment), 843

Aspirin

High pressure assisted coronary stent implantation accomplished without intravascular ultrasound guidance and subsequent antiocoagulation, 21

Ticlopidine and aspirin pretreatment reduces coagulation and platelet activation during coronary dilation procedures, 13

Atherectomy

Comparison of early and recent results with rotational atherectomy, 353

Atherosclerosis

Atherosclerosis in the human brachial artery, 318

Clinical factors associated with calcific aortic valve disease, 630

Coronary calcification and coronary atherosclerosis: site by site comparative morphologic study of electron beam computed tomography and coronary angiography, 1549

Histologic correlates of angiographic chronic total coronary artery occlusions: influence of occlusion duration on neovascular channel patterns and intimal plaque composition, 955

Nitric oxide activity in the atherosclerotic human coronary circulation, 308

Atresia

Fontan procedure for pulmonary atresia with intact ventricular septum: operative and late results, 1359

Atrial fibrillation/flutter

Acute conversion of atrial fibrillation and flutter: direct current cardioversion versus intravenously administered pure class III agents (editorial comment), 391

Acute effects of dual-right side atrial pacing in patients with spontaneous and inducible atrial flutter and fibrillation, 1007

Atrial fibrillation activates platelets and coagulation in a time-dependent manner: a study in patients with paroxysmal atrial fibrillation, 106

Changes in intracardiac atrial cardioversion threshold at rest and during exercise, 576

Cost-effectiveness of transesophageal echocardiographic-guided cardioversion: a decision analytic model for patients admitted to the hospital with atrial fibrillation, 122

Effect of dual-site right atrial pacing in patients with spontaneous and inducible atrial flutter and fibrillation, 1007

Intravenous dofetilide, a class III antiarrhythmic agent, for the termination of unsustained atrial fibrillation or flutter, 385

Left atrial appendage "stunning" after electrical...
cardioversion of atrial flutter: an attenuated response compared with atrial fibrillation as the mechanism for lower susceptibility to thromboembolic events, 582

Left atrial chamber and appendage function after internal atrial defibrillation: a prospective and serial transesophageal echocardiographic study, 131

Long-term follow-up after radiofrequency modification of the atrioventricular node in patients with atrial fibrillation, 113

Measurement of atrial refractoriness dispersion: is there a better way? (letter), 228

Mechanism of initiation of atrial flutter in humans: site of unidirectional block and direction of rotation, 376

Multicenter low energy transvenous atrial defibrillation (XAD) trial results in different subsets of atrial fibrillation, 750

Atrial septal defect
Atrial septal defect in adults: cardiopulmonary exercise capacity before and 4 months and 10 years after defect closure, 1345

Atrial size
Left atrial size in hypertensive men: influence of obesity, race and age, 651

Atrioventricular node
Electrocardiographic manifestations of dual atrioventricular node conduction during sinus rhythm, 1015

Electrophysiologic properties of the atrioventricular node in pediatric patients, 403

Long-term follow-up after radiofrequency modification of the atrioventricular node in patients with atrial fibrillation, 113

New electrocardiographic algorithm using retrograde P waves for differentiating atrioventricular node reentrant tachycardia from atrioventricular reciprocating tachycardia mediated by concealed accessory pathway, 394

Subthreshold stimulation of the region of the slow pathway during atrioventricular node reentrant tachycardia: correlation with effect or radiofrequency catheter ablation, 408

Atrium
Effect of high intensity drive train stimulation on dispersion of atrial refractoriness: role of autonomic nervous system, 1000

Atropine
Prognostic value of dobutamine-atropine stress echocardiography early after acute myocardial infarction, 254

Authorship
Authorship: taking the high road (Editor’s page), 702

Autonomic nervous system
Effect of high intensity drive train stimulation on dispersion of atrial refractoriness: role of autonomic nervous system, 1000

Randomized trial of a hospital-based exercise training program after acute myocardial infarction: cardiac autonomic effects, 1263

Backscatter
Qualitative or quantitative assessment of spontaneous echo contrast? (letter), 222

Balloon
See also Counterpulsation

Baroreflex
Age-dependent changes in cardiac muscarinic receptor function in healthy volunteers, 187

Impaired baroreflex sensitivity is correlated with hemodynamic deterioration of sustained ventricular tachycardia, 568

Beta-adrenergic blocking agents
See also specific agent

Additive beneficial effects of beta-blockers to angiotensin-converting enzyme inhibitors in the Survival and Ventricular Enlargement (SAVE) study, 229

Beta-adrenergic blocking agents or angiotensin-converting enzyme inhibitors, or both, for postinfarction patients with left ventricular dysfunction (editorial comment), 237

Bethesda Conference Report
Practice guidelines and quality of care: October 21–22, 1996, 1125

Blood flow
See also Collateral vessels

Accuracy of Doppler catheter measurements: effect of inhomogeneous beam power distribution on mean and peak velocity, 283

Basal and flow-mediated nitric oxide production by atheromatous coronary arteries, 1256

Cardiovascular reflex: a mechanism for “linked angina” (letter), 705

Importance of nitric oxide in the coronary artery at rest and during pacing in humans, 85

Proportionate reversible decreases in systolic function and myocardial oxygen consumption after modest reductions in coronary flow: hibernation versus stunning, 1623

Simultaneous determination of aortic valve area by the Gorlin formula and by transesophageal echocardiography under different transvalvular flow conditions: evidence that anatomic aortic valve area does not change with variations in flow in aortic stenosis, 1296

Blood pressure
See also Hypertension

Systolic blood pressure revisited, 1407

Books received, 474, 890, 1124, 1652

Brachial artery
Atherosclerosis in the human brachial artery, 318

Randomized comparison of percutaneous transluminal coronary angioplasty by the radial, brachial and femoral approaches: the Access study, 1269

Bradycardia
Bradycardia after heart transplantation: reversal with theophylline (letter), 470

Bradykinin
Angiotensin-converting enzyme inhibitors potentiate preconditioning through bradykinin B2 receptor activation in human heart, 1599

Breathing
See Work of breathing

Bundle branch block
Functional myocardial perfusion abnormality induced by left ventricular asynchronous contraction: experimental study using myocardial contrast echocardiography, 1632

Calcium, calcification
Coronary calcification and coronary atherosclerotic site by site comparative morphologic study of electron beam computed tomography and coronary angiography, 1549

Determinants and correlates of target lesion calcium in coronary artery disease: a clinical, angiographic and intravascular ultrasound study, 268

Echocardiographic assessment of commissural calcium: a simple predictor of outcome after percutaneous mitral balloon valvotomy, 175

Electron beam computed tomographic coronary calcium score cutoffs and severity of associated angiographic lumen stenosis, 1542

Calcium channel blocking agents
See also specific agent

Angiotensin-converting enzyme inhibitors, angiotensin II receptor antagonists, and calcium channel blocking agents: a review of potential benefits and possible adverse reactions, 1414

Capillary wedge pressure
Index of early left ventricular filling that combined with pulsed Doppler peak E velocity may estimate capillary wedge pressure, 448

Captopril
Additive beneficial effects of beta-blockers to angiotensin-converting enzyme inhibitors in the Survival and Ventricular Enlargement (SAVE) study, 229

Effects of afterload-reducing drugs on pathogenesis of antioxidant changes and congestive heart failure in rats, 856

Cardiac catheterization
Coronary revascularization and cardiac catheterization in the United States: trends in racial differences, 1557

Myocardial contrast echocardiography in acute myocardial infarction using aortic root injections of microbubbles in conjunction with harmonic imaging: potential application in the cardiac catheterization laboratory, 207

Cardiac conduction
Electrocardiographic manifestations of dual atrioventricular node conduction during sinus rhythm, 1015

Electrophysiologic effects of sodium channel blockade on anisotropic conduction and conduction block in canine myocardium: preferential slowing of longitudinal conduction by bepridil versus disopyramide or lidocaine, 1639

Electrophysiologic properties of the atrioventricular node in pediatric patients, 403

Mechanism of initiation of atrial flutter in humans: site of unidirectional block and direction of rotation, 376

Cardiac rehabilitation
Reimbursement for cardiac rehabilitation services (letter), 475

Cardiac tamponade
Doppler evaluation of patients with constrictive pericarditis: use in triaspid regurgitation velocity curves to determine enhanced ventricular interaction (letter), 705

Cardiac transplantation
See Heart transplantation

Cardioselective mediators
Cardioselective mediators are released after ischemia from an isolated heart: role of coronary endothelial cells, 1390

Cardiogenic shock
See Shock, cardiogenic

Cardiologists
Do cardiologists do it better?, 475
Catheterization
See Cardiac catheterization

Chemosensitivity
Effects of dihydrocodeine on chemosensitivity and exercise tolerance in patients with chronic heart failure, 147

Chlamydia pneumoniae
Detection of Chlamydia pneumoniae in human nonatherosclerotic stenotic aortic valves, 1054

Cholesterol
See also Hypercholesterolemia; Lipoproteins
Variations in cholesterol management practices of U.S. physicians, 139

Cilazapril
Increased survival after long-term treatment with mibebradil, a selective T-channel antagonist, in heart failure, 416

Coagulation system
Atrial fibrillation activates platelets and coagulation in a time-dependent manner: a study in patients with paroxysmal atrial fibrillation, 106

Collateral vessels
Clinical, angiographic and hemodynamic predictors of recruitable collateral flow assessed during balloon angioplasty coronary occlusion, 275

Comparison of collateral vascular responses in the donor and recipient coronary arteries during transient coronary occlusion assessed by intracoronary blood flow velocity analysis in patients, 1528

Effect of basic fibroblast growth factor on myocardial angiogenesis in dogs with mature collateral vessels, 1102

Fate of collateral vessels after successful coronary angioplasty in patients with effort angina, 544

Therapeutic angiogenesis: just the basic fact(or)s, please (editorial comment), 1107

Conduction
See Cardiac conduction

Congenital heart defects
See also Surgery, pediatric; specific defect
Atrial septal defect in adults: cardiopulmonary exercise capacity before and 4 months and 10 years after defect closure, 1345

Echocardiographic determinants of clinical course of infants with critical and severe pulmonary valve stenosis, 1095

Exercise tolerance in patients with Ebstein’s anomaly, 1615

Outcomes after bidirectional cavopulmonary shunt in infants less than 6 months old, 1346

Partial anomalous pulmonary venous connection: diagnosis by transesophageal echocardiography, 1351

Congestive heart failure
See Heart failure

Contractile function
Cardiodepressive mediators are released after ischemia from an isolated heart: role of coronary endothelial cells, 1390

Functional myocardial perfusion abnormality induced by left ventricular asynchronous contraction: experimental study using myocardial contrast echocardiography, 1632

Investigation of the mechanism of chest pain in patients with angiographically normal coronary arteries using transesophageal dobutamine stress echocardiography, 293

Myocardial contractile effects of l-arginine in the human allograft, 1332

Prognostic value of noninvasively obtained left ventricular contractile reserve in patients with severe heart failure, 422

Contrast agents
Detection of myocardial perfusion in multiple echocardiographic windows with one intravenous injection of microbubbles using transient response second harmonic imaging, 791

Contrast media
Contrast media: is there a preferable agent for coronary interventions? (letter), 1122

Coronary artery branches
Importance of the canal branch of the right coronary artery in patients with anterior wall acute myocardial infarction: electrocardiographic and angiographic correlation, 506

Coronary artery disease
Basal and flow-mediated nitric oxide production by atheromatous coronary arteries, 1256

Comparative diagnostic accuracy of TI-201 and Te-99m sestamibi SPECT imaging (perfusion and ECG-gated SPECT) in detecting coronary artery disease in women, 69

Detailed angiographic analysis of patients with ambulatory electrocardiographic ischemia: results from the Asymptomatic Cardiac Ischemia Pilot (ACIP) study angiographic core laboratory, 78

Determinants and correlates of target lesion calcium in coronary artery disease: a clinical, angiographic and intravascular ultrasound study, 268

Diagnosis of coronary artery disease by exercise thallium-201 tomography in patients with right ventricular pacemakers, 1221

Electron beam computed tomographic coronary calcium score cutoffs and severity of associated angiographic lumen stenosis, 1542

Heterogeneity of cardiac allograft vasculopathy: clinical insights from coronary angiography, 1339

Long-term prognostic significance of dobutamine echocardiography in patients with suspected coronary artery disease: results of a 5-year follow-up study, 962

Long-term survival of African Americans in the Coronary Artery Surgery study (CASS), 1542

Percutaneous transluminal coronary angioplasty versus medical therapy for stable angina pectoris: outcomes for patients with double-vessel versus single-vessel coronary artery disease in a Veterans Affairs cooperative randomized trial, 1505

“Prevalence” or “pretest likelihood” of coronary artery disease? (letter) 225

Relation between ambulatory electrocardiographic monitoring and myocardial perfusion imaging to detect coronary artery disease and myocardial ischemia: an ACIP ancillary study, 764

Relation between clinical, angiographic and ischemic findings at baseline and ischemia-related adverse outcome at 1 year in the Asymptomatic Cardiac Ischemia Pilot study, 1483

Relation of donor age and preexisting coronary artery disease on angiography and intracoronary ultrasound to later development of accelerated allograft coronary artery disease, 623
Simultaneous diprydamole/maximal subjective exercise with 99mTc-MIBI SPECT: improved diagnostic yield in coronary artery disease, 531

Troponin T identifies patients with unstable coronary artery disease who benefit from long-term antithrombotic protection, 43

Coronary artery obstruction
Coronary artery obstruction after the arterial switch operation for transposition of the great arteries, 202

Coronary flow
See Blood flow

Coronary flow reserve
Role of coronary artery lumen enlargement in improving coronary blood flow after balloon angioplasty and stenting: a combined intravascular ultrasound Doppler flow and imaging study, 1520

Coronary occlusion
Antiarrhythmic effects of repeated coronary occlusion during balloon angioplasty, 1053

Comparison of collateral vascular responses in the donor recipient coronary artery during transient coronary occlusion assessed by intracoronary blood flow velocity analysis in patients, 1528

Histologic correlates of angiographic chronic total coronary artery occlusions: influence of occlusion duration on neovascular channel patterns and intimal plaque composition, 955

Coronary perfusion
See Myocardial perfusion

Evaluation of patterns of perfusion and metabolism in dobutamine-responsive myocardium, 55

Corrections


Cost effectiveness
Analysis of the relative cost and effectiveness of primary angioplasty versus tissue-type plasminogen activator: the Primary Angioplasty in Myocardial Infarction (PAMI) trial, 901

Cost-effectiveness
Cost-effectiveness of transesophageal echocardiographic-guided cardioversion: a decision analytic model for patients admitted to the hospital with atrial fibrillation, 122

Doppler ultrasound
Accuracy of Doppler catheter measurements: effect of inhomogeneous beam power distribution on mean and peak velocity, 283

Altered response of the left ventricular diastolic function during coronary angioplasty-induced ischemia: a color M-mode Doppler study, 261

Dexamethasone
Sustained local delivery of dexamethasone by a novel intravascular eluting stent to prevent restenosis in the porcine coronary injury model, 808

Diastolic function
Age dependency of left ventricular diastolic function in pressure overload hypertrophy, 181

Alteration of left ventricular diastolic function during coronary angioplasty-induced ischemia: a color M-mode Doppler study, 1246

Determinants of pulmonary hypertension in left ventricular dysfunction, 153

Doppler evaluation of patients with constrictive pericarditis: use in tricuspid regurgitation velocity curves to determine enhanced ventricular interaction (letter), 705

Diet
William Heberden revisited: postprandial angina—interval between food and exercise and meal composition are important determinants of time of onset of ischemia and maximal exercise tolerance, 302

Diprydamole
Simultaneous diprydamole/maximal subjective exercise with 99mTc-MIBI SPECT: improved diagnostic yield in coronary artery disease, 531

Disopyramide
Electrophysiologic effects of sodium channel blockade on anisotropic conduction and conduction block in canine myocardium: preferential slowing of longitudinal conduction by flecaïnide versus disopyramide or lidocaine, 1639

Dobutamine
Combination of dobutamine and myocardial contrast echocardiography to differentiate postischemic from infarcted myocardium, 974

Effects of prolonging dobutamine dose during stress echocardiography, 526

Identification of hibernating myocardium: comparative accuracy of myocardial contrast echocardiography, rest-redistribution thallium-201 tomography and dobutamine echocardiography, 985

Investigation of the mechanism of chest pain in patients with angiographically normal coronary arteries using transesophageal dobutamine stress echocardiography, 293

Long-term prognostic significance of dobutamine echocardiography in patients with suspected coronary artery disease: results of a 5-year follow-up study, 969

Oxygen-saving effect of a new cardioactive agent, MCT-154, in diseased human hearts, 613

Paradoxical sinus deceleration during dobutamine stress echocardiography: description and angiographic correlation, 99

Prognostic value of dobutamine echocardiography early after uncomplicated acute myocardial infarction: a comparison with exercise electrocardiography, 261

Prognostic value of dobutamine-atropine stress echocardiography early after acute myocardial infarction, 254

Dofetilide
Acute conversion of atrial fibrillation and flutter: direct current cardioversion versus intravenously administered pure class III agents (editorial comment), 391

Intravascular dofetilide, a class III antiarrhythmic agent, for the termination of unsustained atrial fibrillation or flutter, 385

Dilation
Transmural balloon dilation for neonatal critical aortic stenosis: early and midterm results, 442

Diprydamole
Simultaneous diprydamole/maximal subjective exercise with 99mTc-MIBI SPECT: improved diagnostic yield in coronary artery disease, 531

Dopamine
Ninety percent of patients with unstable angina: a comparison of dopamine and nitroprusside, 398

Doppler
Clinical value of a new Doppler index in cardiac catheterization, 924

Doppler ultrasound
Accuracy of Doppler catheter measurements: effect of inhomogeneous beam power distribution on mean and peak velocity, 283

Altered response of the left ventricular diastolic function during coronary angioplasty-induced ischemia: a color M-mode Doppler study, 1246

Clinical value of a new Doppler index in cardiac amyloidosis (letter), 471

Doppler evaluation of patients with constrictive pericarditis: use in tricuspid regurgitation velocity curves to determine enhanced ventricular interaction (letter), 705

Doxycycline
Effects of doxycycline on chemosensitivity and exercise tolerance in patients with chronic heart failure, 147
velocity curves to determine enhanced ventricular interaction (letter), 705
Index of early left ventricular filling that combined with pulsed Doppler peak E velocity may estimate capillary wedge pressure, 448

Drug administration
Sustained local delivery of dexamethasone by a novel intravascular eluting stent to prevent restenosis in the porcine coronary injury model, 808

Drug concentrations
Drug clearance and arterial uptake after local perivascular delivery to the rat carotid artery, 1645

E6010
Prospective, randomized, double-blind multicenter trial of a single bolus injection of the novel modified t-PA E6010 in the treatment of acute myocardial infarction: comparison with native t-PA, 1447

Earthquake
Earthquake-induced potentiation of acute risk factors in hypertensive elderly patients: possible triggering of cardiovascular events after a major earthquake, 926

Ebstein’s anomaly
Exercise tolerance in patients with Ebstein’s anomaly, 1615

Echocardiography
See also Adenosine; Dobutamine; Doppler ultrasound; Stress testing
ACC/AHA Guidelines for the Clinical Application of Echocardiography; Executive Summary: a report of the American College of Cardiology/American Heart Association Task Force on Practice Guidelines (Committee on Clinical Application of Echocardiography), 802
Combination of dobutamine and myocardial contrast echocardiography to differentiate postischemic from infarcted myocardium, 974
Cost-effectiveness of transesophageal echocardiographic-guided cardioversion: a decision analytic model for patients admitted to the hospital with atrial fibrillation, 122
Detection of myocardial perfusion in multiple echocardiographic windows with one intravenous injection of microbubbles using transient response second harmonic imaging, 791
Identification of hibernating myocardium: comparative accuracy of myocardial contrast echocardiography, rest-redistribution thallium-201 tomography and dobutamine echocardiography, 985
Myocardial contrast echocardiography in acute myocardial infarction using aortic root injections of microbubbles in conjunction with harmonic imaging: potential application in the cardiac catheterization laboratory, 207
Partial anomalous pulmonary venous connection: diagnosis by transesophageal echocardiography, 1351
Pericardial thickness measured with transesophageal echocardiography: feasibility and potential clinical usefulness, 1317
Qualitative or quantitative assessment of spontaneous echo contrast? (letter), 222
Simultaneous determination of aortic valve area by the Gorlin formula and by transesophageal echocardiography under different transvalvular flow conditions: evidence that anatomic aortic valve area does not change with variations in flow in aortic stenosis, 1296

Editorials, editorial comments, editorial reviews
Acute conversion of atrial fibrillation and flutter: direct current cardioversion versus intravenously administered pure class III agents, 391
Beta-adrenergic blocking agents or angiotensin converting enzyme inhibitors, or both, for postinfarction patients with left ventricular dysfunction, 237
Decision for revascularization in the 1990s: between a rock and an expert panel, 898
Estrogen for men: reversal of cardiovascular misfortune?, 1445
How best to identify prognostically important left ventricular hypertrophy: a cut to the chase, 648
PTCA comes to the bifurcations in the road: what the VA has to offer, 1512
Rule No. 7: nights and weekends, 913
Therapeutic angiogenesis: just the basic facts or(s), please, 1107
Twisting of the points, 843
Unobstructed thinking (and terminology) is called for in the understanding and management of hypertrophic cardiomypathy, 741

Editor’s page
Authorship: taking the high road, 702
Do we practice geriatric cardiology?, 217
JACC Annual Report—1997, 1651
Public enemy number 2: academic medicine under the federal spotlight, 1117
Reflections of a cardiologist chief, 1403
We’ve got to stop meeting like this!, 455

Education
American College of Cardiology report on ECGEXAM, 467

Ejection fraction
Angiotensin-converting enzyme inhibitor therapy affects left ventricular mass in patients with ejection fraction >40% after acute myocardial infarction, 49
Ejection fraction and risk of thromboembolic events in patients with systolic dysfunction and sinus rhythm: evidence for gender differences in the studies of left ventricular dysfunction, 1074
Left atrial appendage “stunning” after electrical cardioversion of atrial flutter: an attenuated response compared with atrial fibrillation as the mechanism for lower susceptibility to thromboembolic events, 582

Endothelial cells
Cardiodepressive mediators are released after ischemia from an isolated heart: role of coronary endothelial cells, 1390
Cigarette smoking is associated with increased monocyte adhesion to endothelial cells: reversibility with oral L-arginine but not vitamin C, 491

Endothelial function
Myocardial contractile effects of L-arginine in the human allograft, 1332
Preserved endothelial function in patients with severe hypertriglyceridemia and low functional lipoprotein lipase activity, 964

Endothelial growth factor
Passivation of metallic stents after arterial gene transfer of pVHVEGF165 inhibits thrombus formation and intimal thickening, 1371

Endothelium-dependent relaxation
Impaired endothelium-dependent relaxation after cardiac global ischemia and reperfusion: role of warm blood cardioplegia, 681
Testosterone worsens endothelial dysfunction associated with hypercholesterolemia and environmental tobacco smoke exposure in male rabbit aorta, 800

Enoxaparin
Dose-ranging trial of enoxaparin for unstable angina: results of TIMI 11A trial, 1474
Measurement of atrial refractoriness dispersion: is there a better way? (letter), 228
New electrocardiographic algorithm using retrograde P waves for differentiating atrioventricular node reentrant tachycardia from atrioventricular reciprocating tachycardia mediated by concealed accessory pathway, 394
Prehospital electrocardiogram in acute myocardial infarction: is its full potential being realized?, 498

Endothelium-dependent relaxation in the left ventricular outflow tract: electrocardiographic patterns consistent with a left ventricular site of origin, 1023

Electrophysiologic studies
Exploring postinfarction reentrant tachycardia with entrainment mapping, 1180
George Ralph Mines, ventricular fibrillation and the discovery of the vulnerable period, 1397
Optical mapping of drug-induced polymorphic arrhythmias and torsade de pointes in the isolated rabbit heart, 831
Propafenone during acute myocardial ischemia in patients: a double-blind, randomized, placebo-controlled study, 561

Embolism
Characteristics of pulmonary artery pressure waveform for differentially diagnosing chronic pulmonary thromboembolism and primary pulmonary hypertension, 1311
Ejection fraction and risk of thromboembolic events in patients with systolic dysfunction and sinus rhythm: evidence for gender differences in the studies of left ventricular dysfunction, 1074
Left atrial appendage “stunning” after electrical cardioversion of atrial flutter: an attenuated response compared with atrial fibrillation as the mechanism for lower susceptibility to thromboembolic events, 582

Electrocardiography
See also Adenosine; Dobutamine; Doppler ultrasound; Stress testing
American College of Cardiology report on ECGEXAM, 467

Endothelial cell growth and function
Myocardial contractile effects of L-arginine in the human allograft, 1332
Preserved endothelial function in patients with severe hypertriglyceridemia and low functional lipoprotein lipase activity, 964

Endothelial growth factor
Passivation of metallic stents after arterial gene transfer of pVHVEGF165 inhibits thrombus formation and intimal thickening, 1371

Endothelium-dependent relaxation
Impaired endothelium-dependent relaxation after cardiac global ischemia and reperfusion: role of warm blood cardioplegia, 681
Testosterone worsens endothelial dysfunction associated with hypercholesterolemia and environmental tobacco smoke exposure in male rabbit aorta, 800

Enoxaparin
Dose-ranging trial of enoxaparin for unstable angina: results of TIMI 11A trial, 1474
Measurement of atrial refractoriness dispersion: is there a better way? (letter), 228
New electrocardiographic algorithm using retrograde P waves for differentiating atrioventricular node reentrant tachycardia from atrioventricular reciprocating tachycardia mediated by concealed accessory pathway, 394
Prehospital electrocardiogram in acute myocardial infarction: is its full potential being realized?, 498
Repetitive monomorphic tachycardia from the left ventricular outflow tract: electrocardiographic patterns consistent with a left ventricular site of origin, 1023

Electrophysiologic studies
Exploring postinfarction reentrant tachycardia with entrainment mapping, 1180
George Ralph Mines, ventricular fibrillation and the discovery of the vulnerable period, 1397
Optical mapping of drug-induced polymorphic arrhythmias and torsade de pointes in the isolated rabbit heart, 831
Propafenone during acute myocardial ischemia in patients: a double-blind, randomized, placebo-controlled study, 561

Embolism
Characteristics of pulmonary artery pressure waveform for differentially diagnosing chronic pulmonary thromboembolism and primary pulmonary hypertension, 1311
Ejection fraction and risk of thromboembolic events in patients with systolic dysfunction and sinus rhythm: evidence for gender differences in the studies of left ventricular dysfunction, 1074
Left atrial appendage “stunning” after electrical cardioversion of atrial flutter: an attenuated response compared with atrial fibrillation as the mechanism for lower susceptibility to thromboembolic events, 582

Electrocardiography
See also Adenosine; Dobutamine; Doppler ultrasound; Stress testing
American College of Cardiology report on ECGEXAM, 467

Endothelial cell growth and function
Myocardial contractile effects of L-arginine in the human allograft, 1332
Preserved endothelial function in patients with severe hypertriglyceridemia and low functional lipoprotein lipase activity, 964

Endothelial growth factor
Passivation of metallic stents after arterial gene transfer of pVHVEGF165 inhibits thrombus formation and intimal thickening, 1371

Endothelium-dependent relaxation
Impaired endothelium-dependent relaxation after cardiac global ischemia and reperfusion: role of warm blood cardioplegia, 681
Testosterone worsens endothelial dysfunction associated with hypercholesterolemia and environmental tobacco smoke exposure in male rabbit aorta, 800

Enoxaparin
Dose-ranging trial of enoxaparin for unstable angina: results of TIMI 11A trial, 1474
Measurement of atrial refractoriness dispersion: is there a better way? (letter), 228
New electrocardiographic algorithm using retrograde P waves for differentiating atrioventricular node reentrant tachycardia from atrioventricular reciprocating tachycardia mediated by concealed accessory pathway, 394
Prehospital electrocardiogram in acute myocardial infarction: is its full potential being realized?, 498
Repetitive monomorphic tachycardia from the left ventricular outflow tract: electrocardiographic patterns consistent with a left ventricular site of origin, 1023
Esophagus
Cardioesophageal reflex: a mechanism for “linked angina” (letter), 705

Estrogen
Arterial reactivity is enhanced in genetic males taking high dose estrogens, 1432
Estrogen for men: reversal of cardiovascular misfortune? (editorial comment), 1445
Estrogen replacement therapy after coronary angioplasty in women, 1
Long-term estrogen therapy improves vascular function in male to female transsexuals, 1437

Exercise
See also Running
Association between activity at onset of symptoms and outcome of acute myocardial infarction, 250

Exercise testing
See Stress testing

Exercise training
Effect of high intensity exercise training on central hemodynamic responses to exercise in men with reduced left ventricular function, 1591
Effects of endurance training on mitochondrial ultrastructure and fiber type distribution in skeletal muscle of patients with stable chronic heart failure, 1067
Exercise training in patients with severe congestive heart failure: enhancing peak aerobic capacity while minimizing the increase in ventricular wall stress, 597
Randomized trial of a hospital-based exercise training program after acute myocardial infarction: cardiac autonomic effects, 1263

Fas ligand
Plasma Fas ligand, an inducer of apoptosis, and plasma soluble Fas, in inhibitor of apoptosis, in patients with chronic congestive heart failure, 1214

Femoral artery
Randomized comparison of percutaneous transluminal coronary angioplasty by the radial, brachial and femoral approaches: the Access study, 1269

Fibrillation
See Atrial fibrillation/flutter: Ventricular fibrillation

Fibroblast growth factor
Effect of basic fibroblast growth factor on myocardial angiogenesis in dogs with mature collateral vessels, 1102

Fibrosis
Cell-mediated cytotoxicity in hearts with dilated cardiomyopathy: correlation with interstitial fibrosis and foci of activated T lymphocytes, 429

Flecainide
Electrophysiologic effects of sodium channel blockade on anisotropic conduction and conduction block in canine myocardium: preferential slowing of longitudinal conduction by flecainide versus disopyramide or lidocaine, 1639

Fluorine-18-fluorodeoxyglucose
Can nitrogen-13 ammonia kinetic modeling define myocardial viability independent of fluorine-18-fluorodeoxyglucose?

Flutter
See Atrial fibrillation/flutter

Gender issues
Age-gender influence on the rate-corrected QT interval and the QT-heart rate relation in females with genetically characterized long QT syndrome, 93
Ejection fraction and risk of thromboembolic events in patients with systolic dysfunction and sinus rhythm: evidence for gender differences in the studies of left ventricular dysfunction, 1074
Gender and acute myocardial infarction: is there a different response to thrombolysis?, 35
Hospital mortality in women and men with acute cardiac ischemia: a prospective multicenter study, 1490

Gene therapy
Passivation of metallic stents after arterial gene transfer of plVEGF165 inhibits thrombus formation and intimal thickening, 1371

Generalists
Do cardiologists do it better?, 475

Genetics
Age-gender influence on the rate-corrected QT interval and the QT-heart rate relation in families with genetically characterized long QT syndrome, 93
Angiotensin II type 1 receptor gene polymorphism is associated with coronary artery vasoconstruction, 486
Association of angiotensin I-converting enzyme gene polymorphism with myocardial ischemia and patency of infarct-related artery in patients with acute myocardial infarction, 1468
Clinical features of hypertrophic cardiomyopathy caused by mutation of a “hot spot” in the alpha-tropomyosin gene, 635
Deletion polymorphism of angiotensin-converting enzyme gene and left ventricular hypertrophy in southern Italian patients, 365
Sudden death due to troponin T mutations, 549

Gorlin formula
Simultaneous determination of aortic valve area by the Gorlin formula and by transesophageal echocardiography under different transvalvular flow conditions: evidence that anatomic aortic valve area does not change with variations in flow in aortic stenosis, 1296

Grafts
See also Surgery, coronary artery bypass
Adenosine thallium-201 tomography in evaluation of graft patency later after coronary artery bypass graft surgery, 1290
Comparison of collateral vascular responses in the donor and recipient coronary artery during transient coronary occlusion assessed by intracoronary blood flow velocity analysis in patients, 1528
Heterogeneity of cardiac allograft vasculopathy: clinical insights from coronary angiography, 1339
Myocardial contractile effects of L-arginine in the human allograft, 1332

Predictors of graft patency 3 years after coronary artery bypass graft surgery, 1563

Growth hormone
Growth hormone attenuates early left ventricular remodeling and improves cardiac function in rats with large myocardial infarction, 1109

Harmonic imaging
Detection of myocardial perfusion in multiple echocardiographic windows with one intravenous injection of microbubbles using transient response second harmonic imaging, 791
Myocardial contrast echocardiography in acute myocardial infarction using aortic root injections of microbubbles in conjunction with harmonic imaging: potential application in the cardiac catheterization laboratory, 207

Health care
See also Quality of health care
President’s page: evaluation and management—the 51% solution, 219

Health Care Financing Administration
President’s page: first, do no harm, 1405

Health insurance
Reimbursement for cardiac rehabilitation services (letter), 473

Heart block
See Bundle branch block

Heart failure
Acute unloading of the work of breathing extends exercise duration in patients with heart failure, 590
Clinical correlates and prognostic significance of the ventilatory response to exercise in chronic heart failure, 1585
Digoxin reduces cardiac sympathetic activity in severe congestive heart failure (letter), 472
Does digoxin provide additional hemodynamic and autonomic benefit at higher doses in patients with mild to moderate heart failure and normal sinus rhythm? Effects of afterload-reducing drugs on pathogenesis of antioxidant changes and congestive heart failure in rats, 856
Effects of dihydrodcoideine on chemosensitivity and exercise tolerance in patients with chronic heart failure, 147
Effects of endurance training on mitochondrial ultrastructure and fiber type distribution in skeletal muscle of patients with stable chronic heart failure, 1067
Exercise training in patients with severe congestive heart failure: enhancing peak aerobic capacity while minimizing the increase in ventricular wall stress, 597
Heart rate is a marker of amiodarone mortality reduction in severe heart failure, 1199
Increased survival after long-term treatment with mibebradil, a selective T-calcium channel antagonist, in heart failure, 416
Left ventricular remodeling with carvedilol in patients with congestive heart failure due to ischemic heart disease, 1060
Plasma Fas ligand, an inducer of apoptosis, and plasma soluble Fas, in inhibitor of apoptosis, in patients with chronic congestive heart failure, 1214
Prognostic value of noninvasively obtained left ventricular contractile reserve in patients with severe heart failure, 422
Tachycardia-induced cardiomyopathy: a review of animal models and clinical studies, 709
Heart rate
Impaired baroreflex sensitivity is correlated with hemodynamic deterioration of sustained ventricular tachycardia, 568
Left ventricular hypertrophy in hypertensive patients is associated with abnormal rate adaptation of QT interval, 778
Paradoxical sinus deceleration during dobutamine stress echocardiography: description and angiographic correlation, 994

Heart transplantation
Bradyarrhythmia after heart transplantation: reversal with theophylline (letter), 470
Cardiovascular reflex: a mechanism for "linked angina" (letter), 705
Hypertension prophylaxis with omega-3-fatty acids in heart transplant recipients, 1324
QT dispersion as a marker of risk in patients awaiting heart transplantation, 1576
Relation of donor age and preexisting coronary artery disease on angiography and intracoronary ultrasound to later development of accelerated allograft coronary artery disease, 623

Hemodynamics
Clinical correlates and prognostic significance of the ventilatory response to exercise in chronic heart failure, 1585
Effect of high intensity exercise training on central hemodynamic responses to exercise in men with reduced left ventricular function, 1591
Effects of endurance training on mitochondrial ultrastructure and fiber type distribution in skeletal muscle of patients with stable chronic heart failure, 1067
Impaired baroreflex sensitivity is correlated with hemodynamic deterioration of sustained ventricular tachycardia, 568

Hemostasis
Ticlopidine and aspirin pretreatment reduces coagulation and platelet activation during coronary dilation procedures, 13

Heparin
Dose-ranging trial of enoxaparin for unstable angina: results of TIMI IIA trial, 1474
Ticlopidine and aspirin pretreatment reduces coagulation and platelet activation during coronary dilation procedures, 13

Hibernation
Identification of hibernating myocardium: comparative accuracy of myocardial contrast echocardiography, rest-redistribution thallium-201 tomography and dobutamine echocardiography, 985
Proportionate reversible decreases in systolic function and myocardial oxygen consumption after modest reductions in coronary flow: hibernation versus stunning, 1623

Historical perspectives
George Ralph Mines, ventricular fibrillation and the discovery of the vulnerable period, 1397
William Heberden revisited: postprandial angina—interval between food and exercise and meal composition are important determinants of time of onset of ischemia and maximal exercise tolerance, 302

Hoe 642
Infarct size limitation by a new Na⁺-H⁺ exchange inhibitor, Hoe 642: difference from preconditioning in the role of protein kinase C, 603

Holter monitoring
Relation between ambulatory electrocardiographic monitoring and myocardial perfusion imaging to detect coronary artery disease and myocardial ischemia: an ACIP ancillary study, 764

Hydrochloric acid
Cardiovascular reflex: a mechanism for "linked angina" (letter), 705

Hypercholesterolemia
Dietary l-arginine supplementation normalizes platelet aggregation in hypercholesterolemic humans, 479
Testosterone worsens endothelial dysfunction associated with hypercholesterolemia and environmental tobacco smoke exposure in male rabbit aorta, 900

Hypertension
Angiotensin-converting enzyme inhibitors, angiotensin II receptor antagonists, and calcium channel blocking agents: a review of potential benefits and possible adverse reactions, 1414
Characteristics of pulmonary artery pressure waveform for differentially diagnosing chronic pulmonary thromboembolism and primary pulmonary hypertension, 1311
Deletion polymorphism of angiotensin-converting enzyme gene and left ventricular hypertrophy in southern Italian patients, 365
Determinants of pulmonary hypertension in left ventricular dysfunction, 153
Earthquake-induced potentiation of acute risk factors in hypertensive elderly patients: possible triggering of cardiovascular events after a major earthquake, 926
Hypertension prophylaxis with omega-3-fatty acids in heart transplant recipients, 1324
Left atrial size in hypertensive men: influence of obesity, race and age, 651
Left ventricular hypertrophy in hypertensive patients is associated with abnormal rate adaptation of QT interval, 778
Systolic blood pressure revisited, 1407

Hypertrophic cardiomyopathy
Preserved endothelial function in patients with severe hypertrophic cardiomyopathy and low functional lipoprotein lipase activity, 964

Hypertrophy
See also Cardiomyopathy
Age dependency of left ventricular diastolic function in pressure overload hypertrophy, 181
Deletion polymorphism of angiotensin-converting enzyme gene and left ventricular hypertrophy in southern Italian patients, 365
How best to identify prognostically important left ventricular hypertrophy: a cut to the chase (editorial comment), 648
Left ventricular hypertrophy in hypertensive patients is associated with abnormal rate adaptation of QT interval, 778
Prediction of mortality risk by different methods: evidence of inflammatory responses in coronary angioplasty, 1276

Insulin
President’s page: first, do no harm, 1405

Intima
Passivation of metallic stents after arterial gene transfer of pVEGF_Fas inhibits thrombus formation and intimal thickening, 1371

Intraaortic balloon pumping
See Counterpulsation

Iodine-123 metaiodobenzylguanidine
Iodine-123 metaiodobenzylguanidine scintigraphy assessment of myocardial sympathetic innervation in patients with familial amyloid polyneuropathy, 168

Ischemia
See also Myocardial ischemia
Angiotensin-converting enzyme inhibitors potentiate preconditioning through bradykinin B2 receptor activation in human heart, 1599
Cardioselective mediators are released after ischemia from an isolated heart: role of coronary endothelial cells, 1390
Clinical, angiographic and hemodynamic predictors of recruitable collateral flow assessed during balloon angioplasty coronary occlusion, 275
Detailed angiographic analysis of patients with ambulatory electrocardiographic ischemia: results from the Asymptomatic Cardiac Ischemia Pilot (ACIP) study angiographic core laboratory, 78
Effects of preload, afterload and inotropy on dynamics of ischemic segmental wall motion, 846
Ischemic preconditioning during coronary angioplasty (letter), 469
Left ventricular remodeling with carvedilol in patients with congestive heart failure due to ischemic heart disease, 1060

JACC
JACC Annual Report—1997 (Editor’s page), 1651

Late potentials
Late potentials in the thrombolytic era: time for reevaluation? (letter), 224

Letters to the editor
Bradyarrhythmia after heart transplantation: reversal with theophylline, 470
Cardiovascular reflex: a mechanism for “linked angina,” 705
Clinical value of a new Doppler index in cardiac amyloidosis, 471
Contrast media: is there a preferable agent for coronary angiography?, 1122
Coronary bypass graft surgery and patient outcome, 706
Doppler evaluation of patients with constrictive
Mortality rates
Acute myocardial infarction: clinical characteristics, management and outcome in a metropolitan Veterans Affairs medical center teaching hospital, 915
Arhythmia and mortality after the Mustard procedure: a 30-year single-center experience, 194
Coronary angioplasty for elderly patients with “high risk” unstable angina: short-term outcomes and long-term survival, 339
Heart rate is a marker of amiodarone mortality reduction in severe heart failure, 1199
Hospital mortality in women and men with acute cardiac ischemia: a prospective multicenter study, 1490
Long-term prognostic significance of dobutamine echocardiography in patients with suspected coronary artery disease: results of a 5-year follow-up study, 969
Long-term survival of African Americans in the Coronary Artery Surgery study (CASS), 358
Prediction of mortality risk by different methods of indexation for left ventricular mass, 541
Thrombolysis: the risk of rupture and other risks, (letter), 221

Muscarinic receptors
Age-dependent changes in cardiac muscarinic receptor function in healthy volunteers, 187

Myocardial angiogenesis
Effect of basic fibroblast growth factor on myocardial angiogenesis in dogs with mature collateral vessels, 1102
Therapeutic angiogenesis: just the basic fact(or)s, please (editorial comment), 1107

Myocardial hibernation
See Hibernation

Myocardial infarction
See also Thrombolytic therapy
Acute myocardial infarction: clinical characteristics, management and outcome in a metropolitan Veterans Affairs medical center teaching hospital, 915
Akinetic versus dyskinetic postinfarction scar: relation to surgical outcome in patients undergoing endoventricular circular patch plasty repair, 1569
Analysis of the relative cost and effectiveness of primary angioplasty versus tissue-type plasminogen activator: the Primary Angioplasty in Myocardial Infarction (PAMI) trial, 901
Angiotensin-converting enzyme inhibitor therapy affects left ventricular mass in patients with ejection fraction >40% after acute myocardial infarction, 49
Association between activity at onset of symptoms and outcome of acute myocardial infarction, 250
Association of angiotensin I-converting enzyme gene polymorphism with myocardial ischemia and patency of infarct-related artery

Magnesium
Antiarrhythmic effect of increasing the daily intake of magnesium and potassium in patients with frequent ventricular arrhythmias, 1029

Manuscripts
Authorship: taking the high road (Editor’s page), 702

MCI-154
Oxygen-saving effect of a new cardiotonic agent, MCI-154, in diseased human hearts, 613

Medical meetings
We’ve got to stop meeting like this! (Editor’s page), 455

Medicare
President’s page: first, do no harm, 1405
Public enemy number 2: academic medicine under the federal spotlight (Editor’s page), 1117

Meetings
See Medical meetings

Men
See also Gender issues
Arterial reactivity is enhanced in genetic males taking high dose estrogens, 1432
Estrogen for men: reversal of cardiovascular misfortune? (editorial comment), 1445
Long-term estrogen therapy improves vascular function in male to female transsexuals, 1437

Menopause
See Estrogen

Metabolism
Evaluation of patterns of perfusion and metabolism in dobutamine-responsive myocardium, 55

Mibefradil
Increased survival after long-term treatment with mibefradil, a selective T-calcium channel antagonist, in heart failure, 416

Microbubbles
Detection of myocardial perfusion in multiple echocardiographic windows with one intravenous injection of microbubbles using transient response second harmonic imaging, 791
Interactions between microbubbles and ultrasound: in vitro and in vivo observations, 1081
Myocardial contrast echocardiography in acute myocardial infarction using aortic root injections of microbubbles in conjunction with harmonic imaging: potential application in the cardiac catheterization laboratory, 207

Mitral valve disease
Clinical course and hemodynamic observations after supravalvular mitral valve replacement in infants and children, 1089
Determinants of pulmonary hypertension in left ventricular dysfunction, 153
Echocardiographic assessment of commissural calcium: a simple predictor of outcome after percutaneous mitral balloon valvotomy, 175

Monoclonal antibodies
Spectrum of alcohol-induced myocardial damage detected by indium-111-labeled monoclonal antimonyosin antibodies, 160

Monocytes
Cigarette smoking is associated with increased monocyte adhesion to endothelial cells: reversibility with oral L-arginine but not vitamin C, 491
in patients with acute myocardial infarction, 1468
Beta-adrenergic blocking agents or angiotensin converting enzyme inhibitors, or both, for postinfarction patients with left ventricular dysfunction (editorial comment), 237
Coronary revascularization surgery after myocardial infarction: impact of bypass surgery on survival after thrombolytic surgery, 240
Coronary stent placement in patients with acute myocardial infarction: complications of clinical and angiographic outcome after randomization to antiplatelet or anticoagulant therapy, 28
Exploring postinfarction reentrant ventricular tachycardia with entrainment mapping, 1180
Importance of the conal branch of the right coronary artery in patients with anterior wall acute myocardial infarction: electrocardiographic and angiographic correlation, 506
Infarct size limitation by a new Na⁺-H⁺ exchange inhibitor, Hoe 642: difference from preconditioning in the role of protein kinase C, 693
Medical management of selected patients with left ventricular free wall rupture during acute myocardial infarction, 512
Myocardial contrast echocardiography in acute myocardial infarction using aortic root injections of microbubbles in conjunction with harmonic imaging: potential application in the cardiac catheterization laboratory, 207
Prediction of infarction by stress echocardiography (letter), 226
Prehospital electrocardiogram in acute myocardial infarction: is its full potential being realized?, 498
Prognostic value of dobutamine echocardiography early after uncomplicated acute myocardial infarction, 261
Prospective, randomized, double-blind multicenter trial of a single bolus injection of the novel modified t-PA E6010 in the treatment of acute myocardial infarction: comparison with native t-PA, 1447
Prospective, randomized evaluation of prophylactic intracoronary balloon counterpulsation in high risk patients with acute myocardial infarction treated with primary angioplasty, 1459
Randomized trial of a hospital-based exercise training program after acute myocardial infarction: cardiac autonomic effects, 1263
Risk of primary and recurrent acute myocardial infarction from lipoprotein(a)—I (letter), 887
Risk of primary and recurrent acute myocardial infarction from lipoprotein(a)—II (letter), 887
Thrombolysis and Q wave versus non-Q wave first acute myocardial infarction: a GUSTO-I substudy, 772
Myocardial ischemia
Alteration of left ventricular diastolic function during coronary angioplasty-induced ischemia: a color M-mode Doppler study, 1246
Antiarrhythmic effects of repeated coronary occlusion during balloon angioplasty, 1035
Association of angiotensin I-converting enzyme gene polymorphism with myocardial ischemia and patency of infarct-related artery in patients with acute myocardial infarction, 1468
Clinical implications of silent versus symptomatic exercise-induced myocardial ischemia in patients with stable coronary disease, 756
Effects of myocardial ischemia on ventricular fibrillation inducibility and defibrillation efficacy, 817
Hospital mortality in women and men with acute cardiac ischemia: a prospective multicenter study, 1490
Ischemic burden in silent and painful myocardial ischemia: a quantitative exercise septastami tomographic study, 948
Prognostic value of cardiac troponin T after noncardiac surgery: 6-month follow-up data, 1241
Prognostic value of dobutamine-atropine stress echocardiography early after acute myocardial infarction, 254
Propafenone during acute myocardial ischemia in patients: a double-blind, randomized, placebo-controlled study, 561
Reappraisal of exercise electrocardiographic indexes of the severity of ischemic heart disease: angiographic and scintigraphic correlates, 1497
Relation between ambulatory electrocardiographic monitoring and myocardial perfusion imaging to detect coronary artery disease and myocardial ischemia: an ACIP ancillary study, 764
Relation between clinical, angiographic and ischemic findings at baseline and ischemia-related adverse outcome at 1 year in the Asymptomatic Cardiac Ischemia Pilot study, 1483
Myocardial perfusion
Detection of myocardial perfusion in multiple electrocardiographic windows with one intravenous injection of microbubbles using transient response second harmonic imaging, 791
Functional myocardial perfusion abnormality induced by left ventricular asynchronous contraction: experimental study using myocardial contrast echocardiography, 1632
Interactions between microbubbles and ultrasound: in vitro and in vivo observations, 1081
Long-term effect of right ventricular pacing on myocardial perfusion and function, 744
Myocardial contrast echocardiography in acute myocardial infarction using aortic root injections of microbubbles in conjunction with harmonic imaging: potential application in the cardiac catheterization laboratory, 207
Relation between ambulatory electrocardiographic monitoring and myocardial perfusion imaging to detect coronary artery disease and myocardial ischemia: an ACIP ancillary study, 764
Myocardial stunning
See Stunning
Myocardial viability
Assessment of myocardial viability in chronic coronary artery disease using technetium-99m septastami SPECT: correlation with histologic and positron emission tomographic studies and follow-up, 62
Can nitrogen-13 ammonia kinetic modeling define myocardial viability independent of fluorine-18-fluorodeoxyglucose?, 337
Combination of dobutamine and myocardial contrast echocardiography to differentiate postischemic from infarcted myocardium, 974
Evaluation of patterns of perfusion and metabolism in dobutamine-responsive myocardium, 55
Prognostic value of dobutamine-atropine stress echocardiography early after acute myocardial infarction, 254
Myocardium
Iodine-123 metaiodobenzylguanidine scintigraphy assessment of myocardial sympathetic innervation in patients with familial amyloid polyneuropathy, 168
Spectrum of alcohol-induced myocardial damage detected by indium-111-labeled monoclonal antitrypsin antibodies, 160
N-acetylcysteine
Effect of transdermal nitroglycerin or N-acetylcysteine, or both, in the long-term treatment of unstable angina pectoris, 941
Neovascular channel patterns
Histologic correlates of angiographic chronic total coronary artery occlusions: influence of occlusion duration on neovascular channel patterns and intimal plaque composition, 955
Neuropeptide Y
Coronary vasoconstrictive effects of neuropeptide Y and their modulation by the ATP-sensitive potassium channel in anesthetized dogs, 1380
Nitric oxide synthase
Importance of nitric oxide in the coronary artery: evidence from the nitric oxide synthase-knockout mouse, 778
Nitric oxide
Basal and flow-mediated nitric oxide production in human coronary artery, 1256
Importance of nitric oxide in the coronary artery at rest and during pacing in humans, 85
Nitric oxide activity in the atherosclerotic human coronary circulation, 308
Nitric oxide synthase
Inducible nitric oxide synthase and tumor necrosis factor-alpha in myocardium in human dilated cardiomyopathy, 716
Myocardial contractile effects of l-arginine in the human allograft, 1332
Nitrogen-13 ammonia
Can nitrogen-13 ammonia kinetic modeling define myocardial viability independent of fluorine-18-fluorodeoxyglucose?, 337
Nitroglycerin
Effect of transdermal nitroglycerin or N-acetylcysteine, or both, in the long-term treatment of unstable angina pectoris, 941
Osteoporosis
Left atrial size in hypertensive men: influence of obesity, race and age, 651
Oclusion
See Coronary occlusion
Omega-3 fatty acids
Hypertension prophylaxis with omega-3 fatty acids in heart transplant recipients, 1324
Oxygen consumption
Oxygen-saving effect of a new cardiotoxic agent, MCI-154, in diseased human hearts, 613
Proportionate reversible decreases in systolic function and myocardial oxygen
consumption after modest reductions in coronary flow: hibernation versus stunning, 1623

**P waves**
New electrocardiographic algorithm using retrograde P waves for differentiating atrioventricular node reentrant tachycardia from atrioventricular reciprocating tachycardia mediated by concealed accessory pathway, 394

**Pacemakers**
Diagnosis of coronary artery disease by exercise thallium-201 tomography in patients with right ventricular pacemakers, 1221

**Pacing**
Acute effects of dual-right side atrial pacing in patients with spontaneous and inducible atrial flutter and fibrillation, 1007
Basal and flow-mediated nitric oxide production by atheromatous coronary arteries, 1256
Dual-chamber pacing for hypertrophic cardiomyopathy: a randomized double-blind crossover trial, 435
Effect of dual-site right atrial pacing in patients with spontaneous and inducible atrial flutter and fibrillation, 1007
Effect of high intensity drive train stimulation on dispersion of atrial refractoriness: role of autonomic nervous system, 1000
Effects of dual-chamber pacing for pediatric patients with hypertrophic obstructive cardiomyopathy, 734
Importance of nitric oxide in the coronary artery at rest and during pacing in humans, 85
Long-term effect of right ventricular pacing on myocardial perfusion and function, 744
Mechanism of initiation of atrial flutter in humans: site of unidirectional block and direction of rotation, 376
Unobstructed thinking (and terminology) is called for in the understanding and management of hypertrophic cardiomyopathy (editorial comment), 741

**Pediatric cardiology**
See also Congenital heart defects; Surgery, pediatric
Effects of dual-chamber pacing for pediatric patients with hypertrophic obstructive cardiomyopathy, 734
Electrophysiologic properties of the atrioventricular node in pediatric patients, 403
Syncope in children and adolescents, 1039
Transvascular balloon dilation for neonatal critical aortic stenosis: early and midterm results, 442
Unobstructed thinking (and terminology) is called for in the understanding and management of hypertrophic cardiomyopathy (editorial comment), 741

**Perfusion**
See Myocardial perfusion

**Pericarditis**
Doppler evaluation of patients with constrictive pericarditis: use in tricuspid regurgitation velocity curves to determine enhanced ventricular interaction (letter), 705
Pericardial thickness measured with transesophageal echocardiography: feasibility and potential clinical usefulness, 1317

**Perivascular space**
Drug clearance and arterial uptake after local perivascular delivery to the rat carotid artery, 1645

**Physician workforce**
President’s page: too many cardiologists? 1645

**Plaque**
See Atherosclerosis

**Plasminogen activator**
Analysis of the relative cost and effectiveness of primary angioplasty versus tissue-type plasminogen activator: the Primary Angioplasty in Myocardial Infarction (PAMI) trial, 901
Coronary revascularization surgery after myocardial infarction: impact of bypass surgery on survival after thrombolytic surgery, 240
Prospective, randomized, double-blind multicenter trial of a single bolus injection of the novel modified t-PA E0010 in the treatment of acute myocardial infarction: comparison with native t-PA, 1447

**Platelet**
Antiplatelet effect of ticlopidine after coronary stenting, 1515
Atrial fibrillation activates platelets and coagulation in a time-dependent manner: a study in patients with paroxysmal atrial fibrillation, 106
Coronary angioplasty results in leukocyte and platelet activation with adhesion molecule expression: evidence of inflammatory responses in coronary angioplasty, 1276
Dietary l-arginine supplementation normalizes platelet aggregation in hypercholesterolemic humans, 479

**Platelet-derived growth factor**
Growth factors released into the coronary circulation after vascular injury promote proliferation of human vascular smooth muscle cells in culture, 1536

**Potassium channel**
Coronary vasodilator effects of neuropeptide Y and their modulation by the ATP-sensitive potassium channel in anesthetized dogs, 1380

**Potassium**
Antiarrhythmic effect of increasing the daily intake of magnesium and potassium in patients with frequent ventricular arrhythmias, 1029

**Potassium channel**
Coronary vasodilator effects of neuropeptide Y and their modulation by the ATP-sensitive potassium channel in anesthetized dogs, 1380

**Psychiatric 5**
PR interval
Electrocardiographic manifestations of dual atrioventricular node conduction during sinus rhythm, 1015

**Practice guidelines**
Introduction (Bethesda Conference Report), 1130
Practice guidelines and quality of care (Bethesda Conference Report), 1125
Task Force 5. Assessment, appraisal, and regulation of new technology (Bethesda Conference Report), 1171
Task Force 1. Clinical practice guideline development, dissemination and computerization (Bethesda Conference Report), 1133
Task Force 2. Guideline implementation (Bethesda Conference Report), 1141
Task Force 3. Guidelines for credentialling practicing physicians (Bethesda Conference Report), 1148
Task Force 4. Referral guidelines and the collaborative care of patients with cardiovascular disease (Bethesda Conference Report), 1162

**Practice patterns**
Variations in cholesterol management practices of U.S. physicians, 139

**Prazosin**
Effects of afterload-reducing drugs on pathogenesis of antioxidant changes and congestive heart failure in rats, 856

**Preconditioning**
Angiotensin-converting enzyme inhibitors potentiate preconditioning through bradykinin B2 receptor activation in human heart, 1599
Infarct size limitation by a new Na+ reversibility exchange inhibitor, Hoe 642: difference from preconditioning in the role of protein kinase C, 693
Ischemic preconditioning during coronary angioplasty (letter), 469

**Procarbazine**
Evaluation of a staged treatment protocol for rapid automatic junctional tachycardia after operation for congenital heart disease, 1046

**Propafenone**
Propafenone during acute myocardial ischemia in patients: a double-blind, randomized, placebo-controlled study, 561

**Protein kinase C**
Pulmonary artery
Characteristics of pulmonary artery pressure waveform for differentially diagnosing chronic pulmonary thromboembolism and primary pulmonary hypertension, 1311

**Pulmonary valve disease**
Echocardiographic determinants of clinical course of infants with critical and severe pulmonary valve stenosis, 1095

**Pulmonary veins**
Partial anomalous pulmonary venous connection: diagnosis by transesophageal echocardiography, 1351

**Q wave**
Thrombolysis and Q wave versus non-Q wave first acute myocardial infarction: a GUSTO-I substudy, 772

**QT interval**
Age-related influence on the rate-corrected QT interval and the QT-heart rate relation in families with genotypically characterized long QT syndrome, 93
Left ventricular hypertrophy in hypertensive patients is associated with abnormal rate adaptation of QT interval, 778
QT dispersion as a marker of risk in patients awaiting heart transplantation, 1576
Twisting of the points (editorial comment), 843

**Quality of health care**
Do cardiologists do it better?, 475
Introduction (Bethesda Conference Report), 1130
Practice guidelines and quality of care (Bethesda Conference Report), 1125
Task Force 4. Referral guidelines and the collaborative care of patients with cardiovascular disease (Bethesda Conference Report), 1162

**Race issues**
Acute myocardial infarction: clinical characteristics, management and outcome in a metropolitan Veterans Affairs medical center teaching hospital, 915

**Reperfusion**
Coronary angioplasty results in leukocyte and platelet activation with adhesion molecule expression: evidence of inflammatory responses in coronary angioplasty, 1276

**Revascularization**
Coronary revascularization surgery after myocardial infarction: impact of bypass surgery on survival after thrombolytic surgery, 240
Coronary revascularization and cardiac catheterization in the United States: trends in racial differences, 1557
Left atrial size in hypertensive men: influence of obesity, race and age, 651
Long-term survival of African Americans in the Coronary Artery Surgery study (CASS), 358

Radial arteries
Randomized comparison of percutaneous transluminal coronary angioplasty by the radial, brachial and femoral approaches: the Access study, 1269
Routine use of unilateral and bilateral radial arteries for bypass surgery (letter), 886

Referral guidelines
Task Force 4. Referral guidelines and the collaborative care of patients with cardiovascular disease (Bethesda Conference Report), 1162

Relative value scale
President’s page: first, do no harm, 1405
President’s page: cardiovascular research—is something missing?, 457

Restenosis
Coronary angioplasty results in leukocyte and platelet activation with adhesion molecule expression: evidence of inflammatory responses in coronary angioplasty, 1276
Fate of collateral vessels after successful coronary angioplasty in patients with effort angina, 544
Restenosis of endovascular stents from stent compression, 328
Sustained local delivery of dexamethasone as a novel intravascular eluting stent to prevent restenosis in the porcine coronary injury model, 808

Revascularization
See also Angioplasty; Surgery, coronary artery bypass
Acute myocardial infarction: clinical characteristics, management and outcome in a metropolitan Veterans Affairs medical center teaching hospital, 915
Akinetic versus dyskinetic postinfarction scar: relation to surgical outcome in patients undergoing endoventricular circular patch plasty repair, 1569
Coronary revascularization and cardiac catheterization in the United States: trends in racial differences, 1557
Decision for revascularization in the 1990s: between a rock and an expert panel (editorial comment), 898
Histologic correlates of angiographic chronic total coronary artery occlusions: influence of occlusion duration on neovascular channel patterns and intimal plaque composition, 955
Percutaneous treatment of protected and unprotected coronary stenoses with new devices: immediate angiographic results and intermediate-term follow-up, 345
Quantitative rest technetium-99m tetrofosmin imaging in predicting functional recovery after revascularization: comparison with rest-redistribution thallium-201, 1226
Underuse of coronary revascularization procedures: application of a clinical method, 891

Risk factors
Arrhythmia and mortality after the Mustard procedure: a 30-year single-center experience, 194
Earthquake-induced potentiation of acute risk factors in hypertensive elderly patients: possible triggering of cardiovascular events after a major earthquake, 926
Ejection fraction and risk of thromboembolic events in patients with systolic dysfunction and sinus rhythm: evidence for gender differences in the studies of left ventricular dysfunction, 1074
QT dispersion as a marker of risk in patients awaiting heart transplantation, 1576
Risk for sudden cardiac death associated with marathon running (letter), 224
Thrombolytic: the risk of rupture and other risks (letter), 221

RR interval
Left ventricular hypertrophy in hypertensive patients is associated with abnormal rate adaptation of QT interval, 778

Running
Risk for sudden cardiac death associated with marathon running (letter), 224

Scarf
Akinetic versus dyskinetic postinfarction scar: relation to surgical outcome in patients undergoing endoventricular circular patch plasty repair, 1569

Scintigraphy
Reappraisal of exercise electrocardiographic indexes of the severity of ischemic heart disease: angiographic and scintigraphic correlates, 1497

Shock, cardiogenic
Thrombolysis plus aortic counterpulsation: improved survival in patients who present to community hospitals with cardiogenic shock, 1454

Shunting
Institutional experience with second- and third-stage palliative procedures for hypoplastic left heart syndrome: the impact of the bidirectional cavopulmonary shunt, 665
Outcomes after bidirectional cavopulmonary shunt in infants less than 6 months old, 1365

Silent defects
Clinical implications of silent versus symptomatic exercise-induced myocardial ischemia in patients with stable coronary disease, 756
Ischemic burden in silent and painful myocardial ischemia: a quantitative exercise stress tomographic study, 948

Skeletal muscle
Effects of endurance training on mitochondrial ultrastructure and fiber type distribution in skeletal muscle of patients with stable chronic heart failure, 1067

Smoking
See also Nicotine replacement therapy
Cigarette smoking is associated with increased monocyte adhesion to endothelial cells: reversibility with oral L-arginine but not vitamin C, 491
Testosterone worsens endothelial dysfunction associated with hypercholesterolemia and environmental tobacco smoke exposure in male rabbit aorta, 800

Socioeconomic status
Underuse of coronary revascularization procedures: application of a clinical method, 891

Sodium channel blocking agents
Electrophysiologic effects of an sodium channel blocker on anisotropic conduction and conduction block in canine myocardium: preferential slowing of longitudinal conduction by flecainide versus disopyramide or lidocaine, 1639

Sodium-hydrogen exchange inhibitor
Infarct size limitation by a new Na+/H+ exchange inhibitor, Hoe 642: difference from preconditioning in the role of protein kinase C, 693

Sotalol
Electrophysiologic mechanisms of antiarrhythmic efficacy of a sotalol and class Ia drug combination: elimination of reverse use dependence, 100

ST segment
Importance of the conal branch of the right coronary artery in patients with acute anterior wall myocardial infarction: electrocardiographic and angiographic correlation, 506
Thrombolysis and Q wave versus non-Q wave first acute myocardial infarction: a GUSTO-I substudy, 772
William Heberden revisited: postprandial angina—interval between food and exercise and meal composition as important determinants of time of onset of ischemia and maximal exercise tolerance, 302

Stenosis
See also Restenosis
Adenosine thallium-201 tomography in evaluation of graft patency later after coronary artery bypass graft surgery, 1290
Electron beam computed tomographic coronary calcium score cutpoints and severity of associated angiographic lumen stenosis, 1542
Percutaneous treatment of protected and unprotected coronary stenoses with new devices: immediate angiographic results and intermediate-term follow-up, 345

Stenting
Antiplaletel effect of ticlopidine after coronary stenting, 1515
Bailout and corrective use of Gianturco-Roubin flex stents after percutaneous transluminal coronary angioplasty: operator reports and angiographic core laboratory verification from the National Heart, Lung, and Blood Institute/New Approaches to Coronary Intervention Registry, 934
Clinical and angiographic implications of coronary stenting in thrombus-containing lesions, 725
Coronary stent placement in patients with acute myocardial infarction: complications of clinical and angiographic outcome after randomization to antiplatelet or anticoagulant therapy, 28
High pressure assisted coronary stent implantation accomplished without intravascular ultrasound guidance and subsequent anticoagulation, 21
Outpatient coronary stent implantation, 323
Passive formation of metallic stents after arterial gene transfer of pIVEGF-NH2 inhibits thrombus formation and intimal thickening, 1371

Restenosis of endovascular stents from stent compression, 328

Role of coronary artery lumen enlargement in improving coronary blood flow after balloon angioplasty and stenting: a combined intravascular ultrasound Doppler flow and imaging study, 1520

Subacute stent thrombosis in the era of intravascular ultrasound-guided coronary stenting without anticoagulation: frequency, predictors and clinical outcome, 6

Sustained local delivery of dexamethasone by a novel intravascular cluting stent to prevent restenosis in the porcine coronary injury model, 808

**Stress Testing**

*See also Atropine; Dobutamine; Thallium-201 studies*

**Stress testing**

Acute unloading of the work of breathing extends exercise duration in patients with heart failure, 590

Atrial septal defect in adults: cardiopulmonary exercise capacity before and 4 months and 10 years after defect closure, 1345

Cardiorespiratory response to exercise after modified Fontan operation: determinants of performance, 785

Changes in intracardiac atrial cardioversion threshold at rest and during exercise, 576

Clinical correlates and prognostic significance to ventilatory response to exercise in chronic heart failure, 1585

Clinical implications of silent versus symptomatic exercise-induced myocardial ischemia in patients with stable coronary disease, 756

Effects of dihydrocodeine on chemosensitivity and exercise tolerance in patients with chronic heart failure, 147

Exercise tolerance in patients with Ebstein’s anomaly, 1615

Ischemic burden in silent and painful myocardial ischemia: a quantitative exercise sestamibi tomographic study, 948

Prediction of infarction by stress echocardiography (letter), 226

Prognostic value of dobutamine echocardiography early after uncomplicated acute myocardial infarction: a comparison with exercise electrocardiography, 261

Prognostic value of dobutamine-atropine stress echocardiography early after acute myocardial infarction, 254

Reappraisal of exercise electrocardiographic indexes of the severity of ischemic heart disease: angiographic and scintigraphic correlates, 1497

Relation between ambulatory electrocardiographic monitoring and myocardial perfusion imaging to detect coronary artery disease and myocardial ischemia: an ACIP ancillary study, 764

Simultaneous dipyridamole/maximal subjective exercise with 99mTc-MIBI SPECT: improved diagnostic yield in coronary artery disease, 531

William Heberden revisited: postprandial angina—interval between food and exercise and meal composition are important determinants of time of onset of ischemia and maximal exercise tolerance, 302

**Stroke volume**

Relation of hemodynamic volume load to arterial and cardiac size, 1303

**Stunning**

Left atrial appendage “stunning” after electrical cardioversion of atrial flutter: an attenuated response compared with atrial fribillation as the mechanism for lower susceptibility to thromboembolic events, 562

Proportionate reversible decreases in systolic function and myocardial oxygen consumption after modest reductions in coronary flow: hibernation versus stunning, 1623

**Sudden death**

Risk for sudden cardiac death associated with marathon running (letter), 224

Sudden death due to troponin T mutations, 549

**Surgery**

Prognostic value of cardiac troponin T after noncardiac surgery: 6-month follow-up data, 1241

**Surgery, coronary artery bypass**

See also Grafts


Coronary angioplasty for elderly patients with “high-risk” unstable angina: short-term outcomes and long-term survival, 339

**Surgery, coronary artery bypass**

Coronary bypass graft surgery and patient outcome (letter), 706

**Surgery, pediatric**

Coronary revascularization surgery after myocardial infarction: impact of bypass surgery on survival after thrombolytic surgery, 240

Routine use of unilateral and bilateral radial arteries for bypass surgery (letter), 886

**Tachycardia**

See also Ventricular tachycardia

Electrophysiologic properties of the atrioventricular node in pediatric patients, 403

Evaluation of a staged treatment protocol for rapid automatic junctional tachycardia after operation for congenital heart disease, 1046

New electrocardiographic algorithm using retrograde P waves for differentiating atrioventricular node reentrant tachycardia from atrioventricular reciprocating tachycardia mediated by concealed accessory pathway, 394

Tachycardia-induced cardiomyopathy: a review of animal models and clinical studies, 709

**Technetium-99m**

Assessment of myocardial viability in chronic coronary artery disease using technetium-99m sestamibi SPECT: correlation with histologic and postmortem emission tomographic studies and follow-up, 62

Comparative diagnostic accuracy of Tc-201 and Tc-99m sestamibi SPECT imaging (perfusion and ECG-gated SPECT) in detecting coronary artery disease in women, 69

Quantitative rest technetium-99m tetrofosmin imaging in predicting functional recovery after revascularization: comparison with rest-redistribution thallium-201, 1226

Simultaneous dipyridamole/maximal subjective exercise with 99mTc-MIBI SPECT: improved diagnostic yield in coronary artery disease, 531

**Technology**

Task Force 5. Assessment, approval, and regulation of new technology (Bethesda Conference Report), 1171

**Testosterone**

Testosterone worsens endothelial dysfunction associated with hypercholesterolemia and innervation in patients with familial amyloid polyneuropathy, 168

**Syncope**

High incidence of appropriate implantable cardioverter-defibrillator therapy in patients with syncope of unknown etiology and inducible ventricular arrhythmias, 570

Syncope in children and adolescents, 1039

Timing of first syncope recurrence predicts syncopal frequency after a positive tilt table test result, 1284

**Systolic function**

Effects of preload, afterload and inotropy on dynamics of ischemic segmental wall motion, 546

Ejection fraction and risk of thromboembolic events in patients with systolic dysfunction and sinus rhythm: evidence for gender differences in the studies of left ventricular dysfunction, 1074

Proportionate reversible decreases in systolic function and myocardial oxygen consumption after modest reductions in coronary flow: hibernation versus stunning, 1623

**T-cells**

Cell-mediated cytotoxicity in hearts with dilated cardiomyopathy: correlation with interstitial fibrosis and foci of activated T lymphocytes, 429

**Ventricular tachycardia**

Electrophysiologic properties of the atrioventricular node in pediatric patients, 403

Evaluation of a staged treatment protocol for rapid automatic junctional tachycardia after operation for congenital heart disease, 1046

New electrocardiographic algorithm using retrograde P waves for differentiating atrioventricular node reentrant tachycardia from atrioventricular reciprocating tachycardia mediated by concealed accessory pathway, 394

Tachycardia-induced cardiomyopathy: a review of animal models and clinical studies, 709
environmental tobacco smoke exposure in male rabbit aorta, 800

Tetrofosmin
See Technetium-99m

Thallium-201
Comparative diagnostic accuracy of TI-201 and Tc-99m sestamibi SPECT imaging (perfusion and ECG-gated SPECT) in detecting coronary artery disease in women, 69

Thallium studies
Identification of hibernating myocardium: comparative accuracy of myocardial contrast echocardiography, rest-redistribution thallium-201 tomography and dobutamine echocardiography, 985

Thallium-201 studies
Adenosine thallium-201 tomography in evaluation of graft patency later after coronary bypass graft surgery, 1290

Diagnosis of coronary artery disease by exercise thallium-201 tomography in patients with right ventricular pacemakers, 1221

Quantitative test results of technetium-99m tetrofosmin imaging in predicting functional recovery after revascularization: comparison with rest-redistribution thallium-201, 1226

Theophylline
Bradycardia after heart transplantation: reversal with theophylline (letter), 470

Thrombolytic therapy
See also specific agent

Acute myocardial infarction: clinical characteristics, management and outcome in a metropolitan Veterans Affairs medical center teaching hospital, 915

Gender and acute myocardial infarction: is there a different response to thrombolysis?, 35

Late potentials in the thrombolytic era: time for reevaluation? (letter), 224

Randomized comparison of primary coronary angioplasty with thrombolytic therapy in low risk patients with acute myocardial infarction, 908

Rule No. 7: nights and weekends (editorial comment), 913

Thrombolysis: the risk of rupture and other risks (letter), 221

Thrombolysis and Q wave versus non-Q wave first acute myocardial infarction: a GUSTO-I substudy, 772

Thrombolysis plus aortic counterpulsation: improved survival in patients who present to community hospitals with cardiogenic shock, 1454

Thrombus, thrombosis
Clinical and angiographic implications of coronary stenting in thrombus-containing lesions, 725

Correlation of angiographic morphology and clinical presentation in unstable angina, 519

Passivation of metallic stents after arterial gene transfer of phVEGF, inhibits thrombus formation and intimal thickening, 1371

Subacute stent thrombosis in the era of intravascular ultrasound-guided coronary stenting without anticoagulation: frequency, predictors and clinical outcome, 6

Ticlopidine
Antiplalet effect of ticlopidine after coronary stenting, 1515

High pressure assisted coronary stent implantation accomplished without intravascular ultrasound guidance and subsequent anticoagulation, 21

Ticlopidine and aspirin pretreatment reduces coagulation and platelet activation during coronary dilation procedures, 13

Tilt testing
Timing of first syncpe recurrence predicts syncope frequency after a positive tilt table test result, 1284

Tomography
See also Thallium-201 studies

Assessment of myocardial viability in chronic coronary artery disease using technetium-99m sestamibi SPECT: correlation with histologic and positron emission tomographic studies and follow-up, 62

Comparative diagnostic accuracy of TI-201 and Tc-99m sestamibi SPECT imaging (perfusion and ECG-gated SPECT) in detecting coronary artery disease in women, 69

“Prevalence” or “pretest likelihood” of coronary artery disease? (letter), 225

Relation between ambulatory electrocardiographic monitoring and myocardial perfusion imaging to detect coronary artery disease and myocardial ischemia: an ACIP ancillary study, 764

Simultaneous dipyridamole/maximal subjective exercise with 99mTc-MIBI SPECT: improved diagnostic yield in coronary artery disease, 531

Torsade de pointes
Optical mapping of drug-induced polymorphic arrhythmias and torsade de pointes in the isolated rabbit heart, 831

Twisting of the points (editorial comment), 843

Transplantation
See Heart transplantation

Transposition of great arteries
Coronary artery obstruction after the arterial switch operation for transposition of the great arteries, 202

Transsexuals
Long-term estrogen therapy improves vascular function in male to female transsexuals, 1437

Triglycerides
See Hypertriglyceridemia

Tropin T
Prognostic value of cardiac troponin T after noncardiac surgery: 6-month follow-up data, 1241

Sudden death due to troponin T mutations, 549

Troponin T identifies patients with unstable coronary artery disease who benefit from long-term antithrombotic protection, 43

Tumor necrosis factor
Inducible nitric oxide synthase and tumor necrosis factor-alpha in myocardium in human dilated cardiomyopathy, 716

Ultrasound
Heterogeneity of cardiac allograft vasculopathy: clinical insights from coronary angiography, 1339

Interactions between microbubbles and ultrasound: in vitro and in vivo observations, 1081

Valve disease
See Aortic valve disease; Mitral valve disease; Pulmonary valve disease

Valve prosthesis
Clinical course and hemodynamic observations after supraannular mitral valve replacement in infants and children, 1089

Valvotomy
Echocardiographic assessment of commissural calcium: a simple predictor of outcome after percutaneous mitral balloon valvotomy, 175

Valvuloplasty
Echocardiographic determinants of clinical course of infants with critical and severe pulmonary valve stenosis, 1095

Vascular function
Arterial reactivity is enhanced in genetic males taking high dose estrogens, 1432

Long-term estrogen therapy improves vascular function in male to female transsexuals, 1437

Vascular smooth muscle
Growth factors released into the coronary circulation after vascular injury promote proliferation of human vascular smooth muscle cells in culture, 1536

Vasoconstriction
Angiotensin II type 1 receptor gene polymorphism is associated with coronary artery vasoconstriction, 486

Coronary vasoconstrictive effects of neuropeptide Y and their modulation by the ATP-sensitive potassium channel in anesthetized dogs, 1380

Vasomotion
Basal and flow-mediated nitric oxide production by atheromatous coronary arteries, 1256

Vasospasm
Reactivity-based coronary vasospasm independent of atherosclerosis in rhesus monkeys, 671

Ventricular arrhythmias
See Arrhythmias, ventricular

Ventricular fibrillation
Can a class III antiarrhythmic drug improve electrical defibrillation efficacy during ventricular fibrillation?, 688

Effects of myocardial ischemia on ventricular fibrillation inducibility and defibrillation efficacy, 617

George Ralph Mines, ventricular fibrillation and the discovery of the vulnerable period, 1397

Ventricular filling
Index of early left ventricular filling that combined with pulsed Doppler peak E velocity may estimate capillary wedge pressure, 448

Persistence of restrictive left ventricular filling pattern in dilated cardiomyopathy: an ominous prognostic sign, 604

Ventricular function
Additive beneficial effects of beta-blockers to angiotensin-converting enzyme inhibitors in the Survival and Ventricular Enlargement (SAVE) study, 229

Akinetic versus dyssynchronous postinfarction scar: relation to surgical outcome in patients undergoing endoventricular circular patch plasty repair, 1569

Beta-adrenergic blocking agents or angiotensin converting enzyme inhibitors, or both, for postinfarction patients with left ventricular dysfunction (editorial comment), 237

Determinants of pulmonary hypertension in left ventricular dysfunction, 153

Effect of high intensity exercise training on
central hemodynamic responses to exercise in men with reduced left ventricular function, 1591
Growth hormone attenuates early left ventricular remodeling and improves cardiac function in rats with large myocardial infarction, 1109
Identification of hibernating myocardium: comparative accuracy of myocardial contrast echocardiography, rest-redistribution thallium-201 tomography and dobutamine echocardiography, 985
Long-term effect of right ventricular pacing on myocardial perfusion and function, 744
Quantitative rest technetium-99m tetrofosmin imaging in predicting functional recovery after revascularization: comparison with rest-redistribution thallium-201, 1226

**Ventricular mass**
Angiotensin-converting enzyme inhibitor therapy affects left ventricular mass in patients with ejection fraction >40% after acute myocardial infarction, 49
How best to identify prognostically important left ventricular hypertrophy: a cut to the chase (editorial comment), 648
Prediction of mortality risk by different methods of indexation for left ventricular mass, 541
Relation of hemodynamic volume load to arterial and cardiac size, 1303

**Ventricular pressure**
Age dependency of left ventricular diastolic function in pressure overload hypertrophy, 181

**Ventricular rate**
Long-term follow-up after radiofrequency modification of the atrioventricular node in patients with atrial fibrillation, 113

**Ventricular remodeling**
Growth hormone attenuates early left ventricular remodeling and improves cardiac function in rats with large myocardial infarction, 1109
Left ventricular remodeling with carvedilol in patients with congestive heart failure due to ischemic heart disease, 1060

**Ventricular septal defects**
Fontan procedure for pulmonary atresia with intact ventricular septum: operative and late results, 1359

**Ventricular tachycardia**
Electrophysiologic mechanisms of antiarrhythmic efficacy of a sotalol and class Ia drug combination: elimination of reverse use dependence, 100
Exploring postinfarction reentrant ventricular tachycardia with entrainment mapping, 1180
Impaired baroreflex sensitivity is correlated with hemodynamic deterioration of sustained ventricular tachycardia, 568
Repetitive monomorphic tachycardia from the left ventricular outflow tract: electrocardiographic patterns consistent with a left ventricular site of origin, 1023

**Ventricular wall motion**
Effects of preload, afterload and inotropy on dynamics of ischemic segmental wall motion, 846

**Ventricular wall rupture**
Medical management of selected patients with left ventricular free wall rupture during acute myocardial infarction, 512

**Ventricular wall stress**
Exercise training in patients with severe congestive heart failure: enhancing peak aerobic capacity while minimizing the increase in ventricular wall stress, 597

**Viability**
See Myocardial viability

**Vitamin C**
Cigarette smoking is associated with increased monocyte adhesion to endothelial cells: reversibility with oral L-arginine but not vitamin C, 491

**Waiting lists**
QT dispersion as a marker of risk in patients awaiting heart transplantation, 1576

**Women**
See also Estrogen, Gender issues
Comparative diagnostic accuracy of TI-201 and Tc-99m sestamibi SPECT imaging (perfusion and ECG-gated SPECT) in detecting coronary artery disease in women, 69
“Prevalence” or “pretest likelihood” of coronary artery disease? (letter), 225

**Work of breathing**
Acute unloading of the work of breathing extends exercise duration in patients with heart failure, 590