

- Accelerated idioventricular rhythm, prevalence and significance in ST-elevation myocardial infarction patients treated with primary percutaneous coronary intervention, 1641
- Acute coronary syndromes
- acute effects of statin therapy on coronary atherosclerosis following, 750
 - blood hematocrit and erythrocyte deformability effect on adenosine 5'-diphosphate platelet reactivity in patients on dual antiplatelet therapy with, 764
 - clinical and subclinical peripheral artery disease in mid-term prognosis of patients with, 1494
 - comparison of men and women in six Middle Eastern countries with, 1018
 - comparison of outcomes in patients ≥ 70 years versus < 70 years after transradial coronary stenting with maximal antiplatelet therapy for, 624
 - first, effects of decreasing low-density lipoprotein cholesterol and increasing high-density lipoprotein cholesterol on incidence of (from the Air Force/Texas Coronary Atherosclerosis Prevention Study), 829
 - fragmented QRS on a 12-lead electrocardiogram usefulness for predicting mortality in, 1631
 - Guillain-Barré syndrome and, 1452
 - non-ST-elevation
 - myocardial perfusion scintigraphy and value in patients with, 738 (Editorial)
 - myocardial perfusion scintigraphy effectiveness to predict coronary anatomy in patients with, 644
 - patient age and mortality association with reported contraindications to early beta blocker use for, 1324
 - site-reported versus core laboratory-reported creatine kinase-MB values (from the International Trial SYNERGY), 1330
 - timing and duration of myocardial ischemia on Holter monitoring following percutaneous coronary intervention and their association with clinical outcomes (a PROTECT-TIMI 30 Substudy Analysis), 36
 - patient characteristics associated with the choice of triple antithrombotic therapy in, 1171
 - predictive values of post-treatment adenosine diphosphate-induced aggregation and vasodilator-stimulated phosphoprotein index for stent thrombosis in clopidogrel-treated patients after, 1078
 - predictors of early discontinuation of evidence-based medicine after, 175
 - pregnancy-associated plasma protein A usefulness in patients with, 1465
 - prior statin therapy impact on arrhythmic events in patients with (from the Global Registry of Acute Coronary Events [GRACE]), 1613
 - prognostic impact of atrial fibrillation types in, 1317
 - prognostic value of admission fasting glucose levels in patients with, 470
 - serum choline and free F₂-isoprostane elevations' usefulness to predict 30-day cardiovascular outcomes in patients with, 638
 - simvastatin 20 mg versus 80 mg usefulness in preventing contrast-induced nephropathy in patients with undergoing percutaneous coronary intervention for, 519
 - suspected, clinical significance of borderline elevated troponin I levels across different assays in patients with, 164
 - suspected in patients with negative 12-hour troponin, safety of contrast in stress echocardiography in stable patients and, 14
- Acute myocardial infarction. *see also* ST-segment myocardial infarction
- assessment of left ventricular dyssynchrony using magnetic resonance-myocardial tagging as a determinant of ventricular remodeling after, 19
 - atrial fibrillation trends complicating, 169
 - chemokine network in relation to infarct size and left ventricular remodeling following, 1179
 - comparison between myocardial contrast echocardiography and ^{99m}technetium sestamibi single photon emission computed tomography determined myocardial viability in predicting hard cardiac events following, 1184
 - comparison of blood glucose values in patients with versus without diabetes mellitus on admission for, 769
 - elevated troponin I frequency and diagnosis of, 9
 - fasting glucose changes during hospitalization usefulness to predict long-term mortality in patients with, 1013
 - high concentrations of plasma carboxy-terminal telopeptide of collagen type I relation with outcome in, 904
 - incidence after initiation of neutral protamine Hagedorn insulin versus insulin glargine in patients with type 2 diabetes mellitus, 910
 - intra-aortic balloon pump counterpulsation usefulness in patients with cardiogenic shock from, 327
 - intracoronary hyperoxemic therapy in, 791 (Editor's Roundtable)
 - intracoronary injection of mononuclear bone marrow stem cells effect on left ventricular function in patients with, 1336
 - nausea and vomiting relation to location of the infarct in, 1638
 - non-Hodgkin lymphoma and, 450
 - predictors of six-month major adverse cardiac events in 30-day survivors after (from the Korea Acute Myocardial Infarction Registry), 182
 - prevalence and prognostic significance of transient, persistent, and new-onset anemia after, 486
 - primary coronary angioplasty effects on left ventricular remodeling and heart failure in patients < 70 versus ≥ 70 years with, 926
 - soluble Fms-like tyrosine kinase-1 as a biomarker of acute heart failure in patients with, 1478
 - time to reperfusion impact on myocardial damage assessed by left ventricular longitudinal strain after, 480
 - timing, causes, and predictors of death after three years' follow-up in the Danish multicenter randomized study of fibrinolysis versus primary angioplasty in (DANAMI-2) Trial, 210
 - two-dimensional strain echocardiography usefulness to predict segmental viability following, and optimization using Bayesian logistic spatial modeling, 1023
- Adenosine 5'-diphosphate, platelet reactivity in patients with acute coronary syndromes on dual antiplatelet therapy, blood hematocrit and erythrocyte deformability effect on, 764
- Adiponectin, plasma levels of, as risk factor or risk marker for arterial stiffness, 742 (Readers' Comments)
- Adipose tissue
- coronary artery calcium in subjects without previous coronary events and comparative relation of general, central, and visceral measures of, 943
 - subcutaneous and visceral, relation to coronary and abdominal aortic calcium (from the Framingham Heart Study), 543
- Adolescents, with arrhythmogenic right ventricular cardiomyopathy, exercise testing utility in, 411
- Adrenergic blockers. *see* Alpha adrenergic blockers; Beta adrenergic blocking agents
- Adults. *see also* Men; Women
- with aortic stenosis, heavier versus lighter operatively excised stenotic aortic valves and implications for percutaneous aortic valve implantation with and without replacement, 393
 - non-pregnant, innocent murmurs as a suspect diagnosis in, 735 (Editorial)
 - persistent tricuspid regurgitation and its predictor after percutaneous and isolated surgical closure of secundum atrial septal defect in, 856
- young
- with congenital and acquired heart block associated with congenital heart disease, right ventricular pacing impact on three-dimensional global left ventricular dyssynchrony in children and, 700
 - healthy, multimodality imaging usefulness for detecting differences in temporal occurrence of left ventricular systolic mechanical events in, 440
 - influence of the metabolic syndrome versus the sum of its individual components on left ventricular geometry in (from the Bogalusa Heart Study), 69
 - normal weight, waist-to-height ratio utility in detecting central obesity and related adverse cardiovascular risk profile among (from the Bogalusa Heart Study), 721
- Age
- ≥ 55 years in long-distance runners, predisposing factors and consequences of elevated biomarker levels in, 1434
 - ≥ 65 years, door-to-balloon time and mortality in patients with ST-elevation myocardial infarction undergoing primary percutaneous coronary intervention, 1199
 - ≥ 60 years in women and ≥ 50 years in men, C-reactive protein usefulness for guiding treatment in, 354

- >70 years, serum leptin relation to cardiac mass and left atrial dimension in, 602
- ≥70 years versus <70 years, comparison of outcomes after transradial coronary stenting with maximal antiplatelet therapy in, 624
- C-reactive protein utility for cardiovascular risk stratification in subjects without existing cardiovascular diseases and, 538
- early triage of patients with acute chest pain having cardiac computed tomographic angiography and, 1165
- 45 to 79 years in men, consistency with Dietary Approaches to Stop Hypertension Diet and heart failure incidence in, 1416
- gender differences in quality of care and outcomes of patients hospitalized with heart failure and differences in (OPTIMIZE-HF), 107
- as non-modifiable cardiovascular risk factor, 1307 (Editorial)
- reported contraindications to early use of beta blockers for non-ST-elevation acute coronary syndrome, in-hospital mortality and, 1324
- Air Force/Texas Coronary Atherosclerosis Prevention Study, effects of decreasing low-density cholesterol and increasing high-density lipoprotein cholesterol on the incidence of first acute coronary events, 829
- Air kerma, as predictor of increased radiation dose during percutaneous coronary intervention, 1241
- Air pollution, T-wave alternans in high-risk patients and, 665
- Alaskan Eskimos. *see also* American Indians
- lipoprotein subfractions relation to carotid atherosclerosis in (from the GOCADAN Study), 1516
- Alcohol septal ablation
- in hypertrophic cardiomyopathy, sudden death after, 743 (Readers' Comments)
- for obstructive hypertrophic cardiomyopathy, ventricular arrhythmia following, 128
- Alpha adrenergic blockers, for benign prostatic hypertrophy and impact on outcomes in patients with heart failure, 270
- AMADEUS Trial, effectiveness and safety of percutaneous coronary sinus-based mitral valve repair in patients with dilated cardiomyopathy, 565
- Ambulatory care, feasibility and safety of same-day home discharge after radiofrequency catheter ablation, 254
- American Indians. *see also* Alaskan Eskimos
- free of clinically overt cardiovascular disease, prognostic value of multiple biomarkers in (from the Strong Heart Study), 247
- The American Journal of Cardiology*
- and *Journal of Periodontology* Editors' Consensus: periodontitis and atherosclerotic cardiovascular disease, 59
- Proceedings of the Editorial Board Meeting on March 29, 2009, 453 (From the Editor)
- Amiodarone, intravenous cyclodextrin-based formulation (PM101), evaluation of the effects on blood pressure in healthy humans of, 1152
- Amlodipine besylate, versus olmesartan medoxomil on regression of ventricular and vascular hypertrophy, 359
- Amyloidosis, systemic light-chain, with cardiac involvement, telemetry monitoring and arrhythmia frequencies and types in patients undergoing stem cell transplantation, 990
- Anemia, transient, persistent, and new-onset after acute myocardial infarction, prevalence and prognostic significance of, 486
- Aneurysms, coronary artery, comparison in patients with Kawasaki disease of factors associated with coronary artery dilation only versus, 1742
- Angina pectoris
- comparison of frequency of calcified versus non-calcified coronary lesions by computed tomographic angiography in patients with stable versus unstable, 305
- prolonged bivalirudin infusion versus intraprocedural bivalirudin to prevent myocardial damage after percutaneous coronary intervention in patients with, 1063
- unstable
- diabetes mellitus usefulness to predict long-term outcomes in patients with, 492
- effect of drug-eluting stents on frequency of repeat revascularization in patients with non-ST-elevation myocardial infarction or, 1654
- unstable and stable, long term mortality after percutaneous coronary intervention in patients treated for ST-elevation myocardial infarction versus, 333
- Anticoagulants/anticoagulation therapy
- antiplatelet therapy in patients undergoing percutaneous coronary stenting with (from STENTing and oral antiCOagulants [STENTICO]), 338
- subcutaneous enoxaparin safety as bridging agent in patients with mechanical heart valve versus nonvalvular atrial fibrillation on, 1429
- Antiplatelet therapy
- dual, blood hematocrit and erythrocyte deformability effect on adenosine 5'-diphosphate platelet reactivity in patients with acute coronary syndromes on, 764
- maximal
- impact of final activated clotting time after transradial coronary stenting with, 1235
- with transradial coronary stenting for acute coronary syndrome, comparison of outcomes in patients ≥70 years versus <70 years after, 624
- patient characteristics associated with the choice of triple antithrombotic therapy in acute coronary syndromes vs. dual or single, 1171
- in patients with anticoagulants undergoing percutaneous coronary stenting (from STENTing and oral antiCOagulants [STENTICO]), 338
- Aorta
- coarctation of
- late cardiovascular complications after surgical or balloon angioplasty in an Asian cohort of, 1139
- risk of aortic root or ascending aorta complications in patients with bicuspid aortic valve with and without, 1001
- thoracic and abdominal, ethnic-specific risks for atherosclerotic calcification of (from the Multi-Ethnic Study of Atherosclerosis), 812
- Aortic stenosis
- bone modifiers and the quest to slow progression of, 125 (Editorial)
- osteoporosis treatment and progression of, 122
- Aortic valve, bicuspid, risk of aortic root or ascending aorta complications in patients with and without coarctation of the aorta and with, 1001
- Aortic valve replacement
- isolated, interaction and prognostic effects of left ventricular diastolic dysfunction and patient-prosthesis mismatch as determinants of outcome after, 707
- with or without concomitant coronary artery bypass grafting in patients with left ventricular ejection fractions ≥30% versus patients with ejection fraction >30%, 1717
- percutaneous, transesophageal Doppler echocardiography assessment of coronary blood flow in patients with severe aortic stenosis after, 850
- Aortic valvuloplasty, in-utero, postnatal angiographic appearance of left ventricular myocardium in fetal patients with aortic stenosis having, 1271
- Apolipoprotein B, in patients with combined hyperlipidemia during simvastatin plus fenofibrate therapy, correlation of non-high-density lipoprotein cholesterol and low-density lipoprotein cholesterol with (A Subanalysis of the SAFARI Trial), 548
- Apoptosis, in patients with acute myocarditis, 995
- Armed Forces Regression Study (AFREGS), combined analysis with the Familial Atherosclerosis Treatment Study (FATS) the HDL-Atherosclerosis Treatment Study (HATS), combination lipid therapy effects on coronary stenosis and clinical cardiovascular events in coronary disease patients with metabolic syndrome, 1457
- Arrhythmias. *see also* Tachyarrhythmias
- atrial, after cardioversion, smoking role in the recurrence of, 678
- frequencies and types in patients with systemic light-chain amyloidosis with cardiac involvement undergoing stem cell transplantation, 990
- gender differences in electrophysiological characteristics in focal atrial tachycardia, 97
- Guillain-Barré syndrome and, 1452
- malignant ventricular, in patients with acute right ventricular infarction undergoing mechanical reperfusion, 1678
- non-Hodgkin lymphoma and, 450
- in patients with acute coronary syndromes, impact of prior statin therapy on (from the Global Registry of Acute Coronary Events [GRACE]), 1613
- propofol infusion syndrome with myocardial fat accumulation and, 1160
- Arterial stiffness, plasma adiponectin after heart transplantation, as risk factor or risk marker for, 742 (Readers' Comments)

- Asians. *see also* Koreans
late cardiovascular complications after surgical or balloon angioplasty of coarctation of the aorta in, 1139
- Aspirin
atorvastatin effect on platelet thromboxane A₂ synthesis in patients with acute myocardial infarction treated with, 1618
platelet response to clopidogrel therapy and, assessment, mechanisms and clinical implication of variability in, 227
plus clopidogrel effectiveness at abolishing risk of very late thrombosis after drug-eluting stent implantation (from the TYCOON [Two-Year Clopidogrel Need] Study), 1357
plus omega-3 fatty acids plus clopidogrel versus clopidogrel plus, comparison of bleeding complications in patients with cardiovascular disease, 1052
prevalence in patients with stable coronary heart disease of unresponsiveness to clopidogrel and/or, 1189
resistance among patients with and without drug-eluting stent thrombosis, 525
resistance in healthy drug-naïve men versus women (from the Heredity and Phenotype Intervention Heart Study), 606
- ASTEROID Study, safety and efficacy of achieving very low low-density lipoprotein cholesterol levels with rosuvastatin 40 mg daily, 29
- Atherosclerosis
carotid, lipoprotein subfractions in Alaskan Eskimos and (from the GOCADAN Study), 1516
coronary
acute effects of statin therapy following an acute coronary syndrome on, 750
bariatric surgery effects on inflammatory, functional and structural markers of, 1251
and cardiovascular risk factors in retired National Football League players, 805
left ventricular mass and volume with telmisartan, ramipril, or in combination in patients with diabetes mellitus or previous (from the ONgoing Telmisartan Alone and in Combination with Ramipril Global Endpoint Trial [ON-TARGET]), 1484
nonintervened nonculprit coronary lesions, long-term percutaneous coronary intervention rates and associated independent predictors for progression of, 648
periodontitis, vitamin D and, 1164 (Readers' Comments)
statin-ezetimibe combination usefulness to reduce the care gap in dyslipidemia management in patients with a high risk of, 798
subclinical, assessment in asymptomatic patients with type 2 diabetes mellitus with single photon emission computed tomography and coronary computed tomography angiography, 890
of the thoracic and abdominal aorta, ethnic-specific risks for (from the Multi-Ethnic Study of Atherosclerosis), 812
leukocyte subtype counts and regression after pravastatin treatment for, 464
- Athletes
cytosolic release of cardiac troponin after marathons by, 742 (Readers' Comments)
long term and intensive endurance training effect on the age related decline in left and right ventricular diastolic function as assessed by Doppler echocardiography in, 1145
predisposing factors and consequences of elevated biomarker levels in long-distance runners aged ≥ 55 years, 1434
retired National Football League players, cardiovascular risk factors and coronary atherosclerosis in, 805
young competitive, U.S. versus Italian experiences with sudden cardiac death among, implications for preparticipation screening strategies, 276
- Atorvastatin
platelet thromboxane A₂ synthesis in aspirin-treated patients with acute myocardial infarction and effect of, 1618
two-day pretreatment effect on the incidence of periprocedural myocardial infarction following elective percutaneous coronary intervention with, 630
- Atrial fibrillation
association of the parameters derived from the relation between RR intervals and left ventricle performance with a history of heart failure in patients with, 959
body mass index and risk of left atrial thrombus in patients with, 1699
complicating acute myocardial infarction, trends in, 169
incident, relation of multiple inflammatory biomarkers to, 92
lone, urotensin II levels and, 1704
nonvalvular, safety of subcutaneous enoxaparin as anticoagulation bridging therapy in patients with mechanical heart valve versus with, 1429
in an older Italian population, prevalence, functional impact, and mortality of (from the Pro.V.A. Study), 1092
paroxysmal, five-year outcomes after segmental pulmonary vein isolation for, 366
permanent, of >2 years duration and left atrial size >5 cm, radiofrequency ablation results using 2-mm irrigated tip ablation catheter and targeting areas of complex fractionated atrial electrograms, 683
porphyria and, 373
transesophageal echocardiography role among patients undergoing electrophysiology testing with, 1256
types of, and prognostic impact in acute coronary syndromes, 1317
- Atrial flutter, ablation of, meta-analysis of supraventricular tachycardia and, 671
- Atrial remodeling, after Fontan operation, 1737
- Atrial septal defect
early diastolic mitral annular velocity usefulness to predict plasma levels of brain natriuretic peptide and transient heart failure development after device closure of, 1732
secundum type, persistent tricuspid regurgitation and its predictor in adults after percutaneous and isolated surgical closure of, 856
- Atrial shunts, inheritance of cyanotic congenital heart disease and, 148
- Atrial tachycardia, focal, gender differences of electrophysiological characteristics in, 97
- Atrial thrombus, left, risk in patients with atrial fibrillation, body mass index and, 1699
- Attention-deficit hyperactivity disorder, electrocardiographic screening in children with, 1296
- Balloon pump, intra-aortic counterpulsation using, for cardiogenic shock from acute myocardial infarction, 327
- Balloon valvuloplasty, in patients with severe aortic stenosis, N-terminal pro-brain natriuretic peptide levels and, 846
- Bare-metal stents
clinical outcomes after sirolimus-eluting, paclitaxel-eluting, and (from the First Phase of the Prospective German Multicenter DES.DE Registry), 1362
drug-eluting stent outcomes in coronary artery disease patients with and without human immunodeficiency virus versus, 216
histopathology of clinical coronary restenosis in drug-eluting stents versus, 1660
impact of different re-stenting strategies on expansion of a drug-eluting stent implanted to treat restenosis due to, 531
timing of noncardiac surgery after coronary artery stenting with drug-eluting stents or, 1229
- Bariatric surgery, effects on inflammatory, functional and structural markers of coronary atherosclerosis, 1251
- Bayesian logistic spatial modeling, two-dimensional strain echocardiography usefulness to predict segmental viability following acute myocardial infarction and optimization using, 1023
- Beta adrenergic blocking agents (beta blockers)
chronic use after noncardiac surgery, and stroke after, 429
in high-risk patients after myocardial infarction in conjunction with captopril and/or valsartan (from the VALsartan In Acute Myocardial Infarction [VALIANT] Trial), 151
reported contraindications for non-ST-elevation acute coronary syndrome, relation of patient age and mortality to, 1324
- Bezafibrate Infarction Prevention (BIP) Study, usefulness of combining serum uric acid and C-reactive protein for risk stratification of patients with coronary artery disease, 194
- Bicuspid aortic valve, with and without coarctation of the aorta, risk of aortic root or ascending aorta complications in patients with, 1001
- Biomarkers
of acute heart failure in patients with acute myocardial infarction, soluble Fms-like tyrosine kinase-1 as, 1478
diagnosis of heart failure in children with single ventricle physiology using, 1280
elevated levels in long-distance runners aged ≥ 55 years, predisposing factors and consequences of, 1434
multiple, prognostic value in American Indians free of clinically overt cardiovascular disease (from the Strong Heart Study), 247

- multiple inflammatory, relation to incident atrial fibrillation, 92
- in patients with acute coronary syndrome, usefulness of serum choline and free F₂-isoprostane elevations to predict 30-day cardiovascular outcomes, 638
- for postoperative cardiac events in high-risk patients undergoing noncardiac surgery, plasma N-terminal prohormone brain natriuretic peptide levels as, 137
- Bivalirudin**
- monotherapy versus unfractionated heparin plus tirofiban in patients undergoing elective percutaneous coronary intervention with diabetes mellitus, 1222
- prolonged infusion versus intraprocedural, to prevent myocardial damage after percutaneous coronary intervention in patients with angina pectoris, 1063
- Blood clotting**, after transradial coronary stenting with maximal antiplatelet therapy, impact of final activated time for, 1235
- Blood pressure**
- in firefighters, excess body weight impact on arterial structure, function and, 1441
- Guillain-Barré syndrome and variability of, 1452
- PM101 effects in healthy humans on, 1152
- systemic, in patients with osteoarthritis, effects of the cyclooxygenase inhibiting nitric oxide donator naproxen versus naproxen in, 840
- Blood transfusion**, in patients with a blood hematocrit of 24% to 30% after percutaneous coronary intervention, 1069
- Body composition**, in middle-aged men and women, cardiorespiratory fitness, low-grade inflammation and, 240
- Body mass index**
- high on-treatment platelet reactivity, relation to failed clopidogrel dose adjustment according to platelet reactivity monitoring in patients undergoing percutaneous coronary intervention and, 1511
- left atrial thrombus risk in patients with atrial fibrillation and, 1699
- Body weight**
- excess, in firefighters, impact on arterial structure, function, and blood pressure, 1441
- in overweight and obese men, habitual aerobic exercise effect on arterial function and, 823
- Bogalusa Heart Study**
- influence of the metabolic syndrome versus the sum of its individual components on left ventricular geometry in young adults, 69
- utility of waist-to-height ratio in detecting central obesity and related adverse cardiovascular risk profile among normal weight younger adults, 721
- Bone marrow stem cells**, mononuclear, left ventricular function in patients with acute myocardial infarction after intracoronary injection of, 1336
- Bone mineral density**, stress test–induced myocardial ischemia and, 199
- Bundle branch block**, left, cardiac resynchronization therapy in patients with right ventricular pacing versus, 1163 (Readers' Comments)
- Bypass Angioplasty Revascularization Investigation 2 Diabetes Study**, relation of severe coronary artery narrowing to insulin or thiazolidinedione use in patients with type 2 diabetes mellitus, 52
- Calcium**
- abdominal aortic, coronary artery calcium detected with lateral dual energy X-ray absorptiometry and, 299
- coronary and abdominal aortic
- detected with lateral dual energy X-ray absorptiometry, 299
- relation of subcutaneous and visceral adipose tissue to (from the Framingham Heart Study), 543
- coronary artery
- comparative relation of general, central, and visceral adiposity measures in subjects without previous coronary events for, 943
- detection in patients with chest pain versus computed tomographic angiography and exercise testing, 1499
- electrocardiographic abnormalities without clinical coronary heart disease, carotid artery intima-medial thickness and (from the Multi-Ethnic Study of Atherosclerosis [MESA]), 1086
- in middle-age Japanese men, cholesteryl ester transfer protein, intima-media thickness of carotid artery and, 818
- in patients with stable versus unstable angina pectoris, comparison of calcified versus non calcified, 305
- prognostic accuracy of measurements in asymptomatic subjects of B-type natriuretic peptide and (from the Early Identification of Subclinical Atherosclerosis by Noninvasive Imaging Research [EISNER] Study), 1245
- Captopril, beta blocker usefulness in conjunction with valsartan in high-risk patients after myocardial infarction and/or (from the VALsartan In Acute Myocardial Infarction [VALIANT] Trial), 151
- Carboxy-terminal telopeptide of collagen type I, high concentrations of plasma levels of, and outcome in acute myocardial infarction, 904
- Cardiac catheterization, transradial, effect of intra-arterial versus intravenous heparin on radial artery occlusion after, 1083
- Cardiac disease, inherited, penetrance and risk profile studied in a dedicated screening clinic, 406
- Cardiac events. *see also* Cardiovascular events; Left ventricular systolic mechanical events
- major adverse, predictors in 30-day survivors after acute myocardial infarction of (from the Korea Acute Myocardial Infarction Registry), 182
- postoperative in high-risk patients undergoing noncardiac surgery, plasma N-terminal prohormone natriuretic peptide as marker for, 137
- predicting after acute myocardial infarction, comparison between myocardial contrast echocardiography and ^{99m}technetium sestamibi single photon emission computed tomography determined myocardial viability in, 1184
- Cardiac rehabilitation and exercise training, impact on cardiac risk factors and one-year health care costs of, 1389
- Cardiac remodeling, exercise-induced, impact of family hypertension history on, 101
- Cardiac resynchronization therapy
- after chronic right ventricular pacing, long-term clinical response of, 116
- long-term effect on functional mitral valve regurgitation, 383
- optimization of the interventricular delay using the QRS width in, 1407
- in patients with left bundle branch block versus right ventricular pacing, 1163 (Readers' Comments)
- Cardiogenic shock
- from acute myocardial infarction, intra-aortic balloon pump counterpulsation usefulness in patients with, 327
- without flow-limiting angiographic coronary artery disease—(from the Should We Emergently Revascularize Occluded Coronary Arteries for Cardiogenic Shock Trial and Registry), 24
- Cardiomyopathy
- arrhythmogenic right ventricular
- electrocardiographic changes in patients with, 741 (Readers' Comments), *Reply*, 741
- exercise testing usefulness in children and teenagers with, 411
- dilated, effectiveness and safety of percutaneous coronary sinus-based mitral valve repair in patients with (from the AMADEUS Trial), 565
- electrocardiographic characteristics at initial diagnosis in patients with isolated left ventricular noncompaction, 984
- hypertrophic
- centers for, 1158 (Editorial)
- left ventricular outflow tract obstruction as a risk factor for sudden cardiac death in, 695
- prognostic implications of the Doppler restrictive filling pattern in, 1727
- sudden death after alcohol septal ablation in, 743 (Readers' Comments)
- 12-lead electrocardiogram patterns relation to implanted defibrillator-terminated ventricular tachyarrhythmias in, 1722
- idiopathic dilated, treating children with (from the Pediatric Cardiomyopathy Registry), 281
- isolated left ventricular noncompaction syndrome, 1135
- obstructive hypertrophic, ventricular arrhythmia following alcohol septal ablation for, 128
- Tako-Tsubo
- clinical characteristics of, 578
- left ventricular dysfunction assessment in, 1163 (Readers' Comments)
- transient stress, prevalence and clinical characteristics of right ventricular dysfunction in, 133
- Cardiorespiratory fitness, in middle-aged men and women, body composition, low-grade inflammation and, 240
- Cardiovascular disease
- age as non-modifiable risk factor for, 1307 (Editorial)

- atherosclerotic, *The American Journal of Cardiology* and *Journal of Periodontology* Editors' Consensus: periodontitis and, 59
- comparison of bleeding complications with omega-3 fatty acids plus aspirin plus clopidogrel versus aspirin plus clopidogrel in patients with, 1052
- C-reactive protein utility for cardiovascular risk stratification across three age groups in subjects without existing, 538
- ischemic, flushing profile of extended-release niacin/laropiprant versus gradually titrated niacin extended-release in patients with dyslipidemia with and without, 74
- physical activity ability beyond commonly evaluated cardiometabolic risk factors to predict, 1522
- prognostic value of multiple biomarkers in American Indians free of clinically overt (from the Strong Heart Study), 247
- reducing risks of nonsteroidal anti-inflammatory drugs by using topical formulations, 1315 (Readers' Comments)
- risk factors and coronary atherosclerosis in retired National Football League players, 805
- risk profile association with outcomes in Hispanic patients referred for percutaneous coronary intervention (from the National Heart, Lung, and Blood Institute Dynamic Registry), 775
- screening for depression or suicidality in patients with, 1194
- waist-to-height ratio utility in detecting central obesity and related adverse risk profile among normal weight younger adults for (from the Bogalusa Heart Study), 721
- Cardiovascular events. *see also* Cardiac events; Left ventricular systolic mechanical events
- combination lipid therapy effects on coronary stenosis in coronary disease patients with metabolic syndrome and (combined analysis of the Familial Atherosclerosis Treatment Study [FATS], the HDL-Atherosclerosis Treatment Study [HATS], and the Armed Forces Regression Study [AFREGS]), 1457
- comparative relation of general, central, and visceral adiposity measures for coronary artery calcium in subjects without previous, 943
- in men, ratio of triglycerides to high-density lipoprotein cholesterol usefulness in, 1393
- in obese persons with stable coronary heart disease, heart failure hospitalization and (from the Heart and Soul Study), 883
- outcome for hypertensive patients during antihypertensive treatment, mitral E wave deceleration time to peak E velocity ratio and, (from the LIFE Echo-Substudy), 1098
- and plasma triglycerides in the treating to new targets and incremental decrease in end-points through aggressive lipid lowering trials of statins in patients with coronary artery disease, 459
- short- and long-term, relation of troponin I levels following nonemergent percutaneous coronary intervention to, 1210
- Cardioversion, smoking role in the recurrence of atrial arrhythmias after, 678
- Cardioverter-defibrillators, implanted, relation of 12-lead electrocardiogram patterns in hypertrophic cardiomyopathy to ventricular tachyarrhythmias terminated by, 1722
- Carotid artery, stenting, effectiveness and safety for significant carotid stenosis in patients with contralateral occlusion (from the German ALKK-CAS Registry Experience), 725
- Carotid artery intima-media thickness
- electrocardiographic abnormalities without clinical coronary heart disease, coronary artery calcium and (from the Multi-Ethnic Study of Atherosclerosis [MESA]), 1086
- in middle-age Japanese men, cholesteryl ester transfer protein, coronary calcium, and, 818
- pomegranate juice consumption effects in men and women at moderate risk of coronary heart disease on, 936
- as predictor of coronary artery disease in patients with diabetes mellitus, 1041
- screening for subclinical coronary artery disease measuring, 1383
- Cerebral ischemic lesions, transcatheter patent foramen ovale closure in patients with migraine headaches and with moderate to large right-to-left shunt and damage due to, 434
- Chemokine network, in relation to infarct size and left ventricular remodeling following acute myocardial infarction, 1179
- Chest pain
- acute, age and gender usefulness in the early triage of patients having cardiac computed tomographic angiography with, 1165
- coronary calcium detection versus computed tomographic angiography and exercise testing to detect obstructive coronary artery disease in patients with, 1499
- three-year outcomes and cost analysis in patients receiving 64-slice computed tomographic coronary angiography for, 498
- Children
- with arrhythmogenic right ventricular cardiomyopathy, utility of exercise testing in, 411
- with attention-deficit hyperactivity disorder, electrocardiographic screening in, 1296
- with congenital and acquired heart block associated with congenital heart disease, right ventricular pacing impact on three-dimensional global left ventricular dyssynchrony in young adults and, 700
- echocardiographic versus cardiac magnetic resonance imaging measurements of single ventricular volumes, mass, and ejection fraction (from the Pediatric Heart Network Fontan Cross-sectional Study), 419
- with idiopathic dilated cardiomyopathy, treatment of (from the Pediatric Cardiomyopathy Registry), 281
- impact of prenatal versus postnatal diagnosis of congenitally corrected transposition of the great arteries for, 1276
- with Sickle cell disease, prospective echocardiography assessment of pulmonary hypertension and its potential etiologies in, 713
- with single ventricle physiology, plasma biomarkers for diagnosis of heart failure in, 1280
- with transposition of the great arteries operated with arterial switch, left ventricular function in, 583
- Cholesterol
- high-density lipoprotein
- dalcetrapib safety and tolerability alone or in combination with statins for increasing, 82
- increasing, and decreasing low-density lipoprotein cholesterol, effects on the incidence of first acute coronary events (from the Air Force/Texas Coronary Atherosclerosis Prevention Study), 829
- for predicting first coronary event in men, ratio of triglycerides to, 1393
- serum levels after initiation of lipid-altering therapy targeting low-density cholesterol, National Cholesterol Education Program Adult Treatment Panel III Goals and, 1689
- low-density lipoprotein
- correlation of non-high-density lipoprotein cholesterol and with apolipoprotein B during simvastatin plus fenofibrate therapy in patients with combined hyperlipidemia (A Subanalysis of the SAFARI Trial), 548
- decreasing, and increasing high-density lipoprotein cholesterol, effects on the incidence of first acute coronary events (from the Air Force/Texas Coronary Atherosclerosis Prevention Study), 829
- high-density cholesterol and triglycerides after initiation of lipid-altering therapy for National Cholesterol Education Program Adult Treatment Panel III Goals, 1689
- other major serum lipoprotein levels and National Cholesterol Education Program Adult Treatment Panel III goals for, 1697 (Editorial)
- very low levels of, safety and efficacy of achieving with rosuvastatin 40 mg daily (from the ASTEROID Study), 29
- Cholesteryl ester transfer protein, in middle-age Japanese men, coronary calcium, intima-media thickness of the carotid artery and, 818
- Choline, serum levels, to predict 30-day cardiovascular outcomes in patients with acute coronary syndrome, usefulness of free F₂-isoprostane elevations and, 638
- Chronic kidney disease. *see* Kidney disease, chronic
- Circumferential uniformity ratio estimate (CURE), for assessment of left ventricular dyssynchrony after acute myocardial infarction to determine ventricular remodeling, 19
- Clinical Outcomes Utilizing Revascularization and Aggressive Drug Evaluation (COURAGE) Trial, impact of medical therapy without percutaneous coronary intervention as initial strategy in high-risk patients, 1055
- Clopidogrel
- after drug-eluting stent implantation in Korean patients, reasonable duration of use of, 1668

- before coronary angiography to candidates for percutaneous coronary intervention, early administration of loading dose of, 1505
- failed dose adjustment according to platelet reactivity monitoring in patients undergoing percutaneous coronary intervention, relation of body mass index and high on-treatment platelet reactivity and, 1511
- high-dose pretreatment usefulness in patients undergoing primary angioplasty for ST-elevation myocardial infarction, 514
- omega-3 fatty acids plus aspirin plus, versus aspirin plus, comparison of bleeding complications in patients with cardiovascular disease, 1052
- in patients with versus without chronic renal failure, 1292
- platelet response to aspirin therapy and, assessment, mechanisms and clinical implication of variability in, 227
- plus aspirin effectiveness at abolishing risk of very late thrombosis after drug-eluting stent implantation (from the TYCOON [Two-Year Clopidogrel Need] Study), 1357
- predictive values of post-treatment adenosine diphosphate-induced aggregation and vasodilator-stimulated phosphoprotein index for stent thrombosis after acute coronary syndrome in patients treated with, 1078
- prevalence in patients with stable coronary heart disease of unresponsiveness to aspirin and/or, 1189
- resistance after drug-eluting stent implantation in Koreans, relation of genetic polymorphisms in cytochrome P450 gene to, 46
- resistance among patients with and without drug-eluting stent thrombosis, 525
- Collagen type I, relation of high concentrations of plasma carboxy-terminal telopeptide levels and outcome in acute myocardial infarction, 904
- Complex fractionated atrial electrograms, radiofrequency ablation for permanent atrial fibrillation of >2 years duration and left atrial size >5 cm using 2-mm irrigated tip ablation catheter and targeting areas of, 683
- Complications After Thrombocytopenia Caused by Heparin (CATCH) Registry, six-month follow-up of patients with in-hospital thrombocytopenia during heparin-based anticoagulation, 1285
- Computed tomography. *see also* Coronary angiography
- dual-energy, of the heart with single photon emission computed tomography for assessment of coronary artery stenosis and of the myocardial blood supply, 318
 - dual source, intravascular ultrasound for evaluation of coronary arteries at least one year after cardiac transplantation versus, 1351
 - multidetector, coronary flow reserve measured by echocardiography to identify significant left anterior descending coronary artery stenosis assessed by, 657
 - multidetector-row, comparison to echocardiography and fluoroscopy for evaluation of patients with mechanical prosthetic valve obstruction, 1128
 - multislice
 - relation between Framingham risk categories and the presence of functionally relevant coronary lesions as determined by stress testing and, 758
 - for suspected congenital heart disease, multi-plane three-dimensional and four-dimensional echocardiography and magnetic resonance angiography versus, 739 (Readers' Comments)
 - single photon emission
 - subclinical coronary atherosclerosis assessment in asymptomatic patients with type 2 diabetes mellitus with coronary computed tomography angiography and, 890
 - ^{99m}technetium sestamibi single photon emission determined myocardial viability in predicting hard cardiac events following acute myocardial infarction, myocardial contrast echocardiography versus, 1184
- Congenital heart disease
- cyanotic, persistent foramen ovale relation to inheritance of, 148
 - exercise capacity determinants after arterial switch operation for transposition of the great arteries and, 1007
 - multi-plane three-dimensional and four-dimensional echocardiography versus multi-slice computed tomography and magnetic resonance angiography for suspected, 739 (Readers' Comments)
 - right ventricular pacing impact on three-dimensional global left ventricular dyssynchrony in children and young adults with congenital and acquired heart block associated with, 700
- Contrast agents. *see also* Nephropathy, contrast-induced
- stress echocardiography in stable patients and in patients with suspected acute coronary syndrome but negative 12-hour troponin and safety of, 14
- Coronary anatomy, myocardial perfusion scintigraphy in patients with non-ST-elevation acute coronary syndrome to predict, 644
- Coronary angiography
- computed tomographic
 - accuracy for stenosis quantification using quantitative coronary angiography or intravascular ultrasound as gold standard for, 1047
 - age and gender usefulness in the early triage of patients with acute chest pain having, 1165
 - comparison of frequency of calcified versus non-calcified coronary lesions in patients with stable versus unstable angina pectoris by, 305
 - and exercise testing to detect obstructive coronary artery disease in patients with chest pain versus coronary calcium detection, 1499
 - image quality and radiation dose with conventional helical scanning versus sequential scanning protocol for, 1343
 - impact of findings on the medical treatment and control of coronary artery disease and its risk factors, 873
 - non-invasive multi-slice, comparison of invasive coronary angiography and fractional flow reserve for the evaluation of men with known coronary artery disease versus, 653
 - 64-slice, for chest pain, three-year outcomes and cost analysis in patients receiving, 498
 - before stress testing, 613 (Editorial)
 - subclinical coronary atherosclerosis assessment in asymptomatic patients with type 2 diabetes mellitus with single photon emission computed tomography and, 890
 - for suspected congenital heart disease, multi-plane three-dimensional and four-dimensional echocardiography and multi-slice computed tomography versus, 739 (Readers' Comments)
 - transesophageal echocardiography evaluation of patients with native valvular heart disease versus, 1421
 - early administration of loading dose of clopidogrel to candidates for percutaneous coronary intervention before, 1505
 - postnatal appearance of left ventricular myocardium in fetal patients with aortic stenosis having in-utero valvuloplasty using, 1271
 - quantitative, accuracy of computed tomographic angiography for stenosis quantification using intravascular ultrasound as the Gold Standard versus, 1047
- Coronary angioplasty
- gradual computerized, outcomes of patients undergoing coronary stenting and, 223
 - primary
 - effects on left ventricular remodeling and heart failure in patients <70 and ≥70 years with acute myocardial infarction, 926
 - for ST-elevation myocardial infarction, high-dose clopidogrel pretreatment usefulness in patients undergoing, 514
 - timing, causes, and predictors of death after three years' follow-up in the Danish multicenter randomized study of fibrinolysis in acute myocardial infarction versus (DANAMI-2) Trial, 210
 - renal artery, wide pulse pressure usefulness as a predictor of poor outcome after stenting and, 732
 - surgical or balloon, for coarctation of the aorta, late cardiovascular complications in an Asian cohort after, 1139
- Coronary arteries. *see also* Stenosis
- acute occlusion of the left anterior descending, typical "takotsubo" left ventricular contraction pattern and, 202
 - comparison in patients with Kawasaki disease of factors associated with dilation only versus aneurysms of, 1742
 - drug-eluting stent strut distribution relation to stent thrombosis in, 342
 - dual source computed tomography versus intravascular ultrasound at least one year after cardiac transplantation for evaluation of, 1351
 - in firefighters, excess body weight impact on blood pressure, and structure and function of, 1441
 - function in overweight and obese men, habitual aerobic exercise effect on body weight and, 823
 - left anterior descending, effectiveness and safety of total endoscopic left internal mammary artery bypass graft to, 1684
 - multiple culprit, in patients with ST segment elevation myocardial infarction referred for primary percutaneous coronary intervention, 619

- perforation during percutaneous coronary intervention, incidence, risk factors, management and outcomes of, 1674
- severe narrowing of, relation to insulin or thiazolidinedione use in patients with type 2 diabetes mellitus (from the Bypass Angioplasty Revascularization Investigation 2 Diabetes Study), 52
- transradial stenting of, impact of final activated clotting time with maximal antiplatelet therapy after, 1235
- Coronary artery bypass grafting
- isolated, with and without peripheral artery disease, comparison of two-year outcomes in patients undergoing, 1377
 - in patients with left ventricular ejection fractions $\geq 30\%$ versus patients with ejection fraction $> 30\%$, aortic valve replacement with or without, 1717
 - total endoscopic of left internal mammary artery, effectiveness and safety to left anterior descending artery of, 1684
- Coronary artery disease
- angiographic ($> 75\%$ narrowing), Duke sudden death cardiac risk score usefulness for predicting sudden cardiac death in patients with, 1624
 - bare metal versus drug-eluting stent outcomes in patients with and without human immunodeficiency virus and, 216
 - carotid intima-media thickness in patients with diabetes mellitus usefulness as a predictor of, 1041
 - combining serum uric acid and C-reactive protein for risk stratification of patients with (Bezafibrate Infarction Prevention [BIP] Study), 194
 - flow-limiting angiographic, cardiogenic shock without (from the Should We Emergently Revascularize Occluded Coronary Arteries for Cardiogenic Shock Trial and Registry), 24
 - functionally relevant as determined by multislice computed tomography and stress testing, relation between Framingham risk categories and, 758
 - homocysteine-lowering vitamin therapy impact on long-term outcome of patients with, 745
 - and its risk factors, impact of coronary computed tomographic angiography findings on the medical treatment and control of, 873
 - known in men, comparison of non-invasive multi-slice computed tomographic coronary angiography with invasive coronary angiography and fractional flow reserve for, 653
 - medical therapy without percutaneous coronary intervention as initial strategy in high-risk patients with (from the Clinical Outcomes Utilizing Revascularization and Aggressive Drug Evaluation (COURAGE) Trial), 1055
 - neutrophil gelatinase-associated lipocalin association with severity of, 917
 - plasma triglycerides and cardiovascular events in the treating to new targets and incremental decrease in end-points through aggressive lipid lowering trials of statins in patients with, 459
 - stable, optimal medical therapy impact with or without percutaneous coronary intervention on long-term cardiovascular end points in patients with (from the COURAGE Trial), 1
 - stable, optimal medical therapy with or without percutaneous coronary intervention for patients with chronic kidney disease and, 1647
 - subclinical, screening for by measuring carotid artery intima-media thickness, 1383
 - suspected, in patients referred for noninvasive evaluation of myocardial ischemia, prognostic significance of QRS duration in, 1490
 - T-wave alternans, air pollution and traffic in high-risk patients with, 665
- Coronary bifurcations, treated using the novel self-expanding Sideguard side branch stent, serial intravascular ultrasound of, 1216
- Coronary blood flow, in patients with severe aortic stenosis assessed by transesophageal Doppler echocardiography after percutaneous aortic valve replacement, 850
- Coronary flow reserve, measured by echocardiography to improve the identification of significant, left anterior descending coronary artery stenosis assessed by multidetector computed tomography, 657
- Coronary heart disease
- alcohol consumption in hypertensive male physicians and (from the Physicians' Health Study), 932
 - clinical, electrocardiographic abnormalities with coronary artery calcium and carotid artery intima-media thickness in individuals without (from the Multi-Ethnic Study of Atherosclerosis [MESA]), 1086
 - pomegranate juice consumption effects on carotid intima-media thickness in men and women at moderate risk for, 936
- stable
- obesity and heart failure hospitalization and (from the Heart and Soul Study), 883
 - prevalence of unresponsiveness to aspirin and/or clopidogrel in patients with, 1189
- COURAGE Trial, impact of optimal medical therapy with or without percutaneous coronary intervention on long-term cardiovascular end points in patients with stable coronary artery disease, 1
- C-reactive protein
- for cardiovascular risk stratification across three age groups in subjects without existing cardiovascular diseases, 538
 - for guiding treatment in women ≥ 60 years and men ≥ 50 years of age, 354
 - serum level
 - C-reactive protein gene polymorphisms' effect on heart rate variability in healthy male twins and, 1748
 - usefulness of combining uric acid level for risk stratification of patients with coronary artery disease with (Bezafibrate Infarction Prevention [BIP] Study), 194
- Creatine kinase-MB values, site-reported versus core laboratory-reported, in non-ST-elevation acute coronary syndrome (from the International Trial SYNERGY), 1330
- Cryoplasty, PolarCath, treatment of complex superficial femoral artery lesions with, 447
- Cystatin C, for acute heart failure, usefulness and prognosis following admission, 389
- Cytochrome P450 gene, genetic polymorphisms and clopidogrel resistance after drug-eluting stent implantation in Koreans and, 46
- Dalcetrapib, safety and tolerability of, 82
- DANAMI-2 Trial, timing, causes, and predictors of death after three years' follow-up in the Danish multicenter randomized study of fibrinolysis compared to primary angioplasty in acute myocardial infarction, 210
- Death
- sudden, in patients with sarcoidosis, comparison of necropsy findings from cardiac sarcoidosis versus from other causes, 571
 - sudden cardiac
 - after alcohol septal ablation in hypertrophic cardiomyopathy, 743 (Readers' Comments)
 - in hypertrophic cardiomyopathy, left ventricular outflow tract obstruction as a risk factor for, 695
 - in patients with angiographic ($> 75\%$ narrowing) coronary artery disease, Duke sudden cardiac death risk score usefulness for predicting, 1624
 - in patients with silent myocardial ischemia after myocardial infarction (from the Swiss Interventional Study on Silent Ischemia Type II [SWISSI II]), 158
 - in young competitive athletes, U.S. versus Italian experiences and implications for preparticipation screening strategies, 276
 - timing, causes, and predictors after three years' follow-up in the Danish multicenter randomized study of fibrinolysis versus primary angioplasty in acute myocardial infarction (DANAMI-2) Trial, 210
- Defibrillators, implanted, relation of 12-lead electrocardiogram patterns in hypertrophic cardiomyopathy to ventricular tachyarrhythmias terminated by, 1722
- Depression, in patients with cardiovascular illnesses, screening for suicidality or, 1194
- Diabetes mellitus
- bivalirudin monotherapy versus unfractionated heparin plus tirofiban in patients undergoing elective percutaneous coronary intervention with, 1222
 - carotid intima-media thickness usefulness as a predictor of coronary artery disease in patients with, 1041
 - comparison of blood glucose values on admission for acute myocardial infarction in patients with versus without, 769
 - left ventricular mass and volume with telmisartan, ramipril, or in combination in patients with previous atherosclerotic events or with (from the ONgoing Telmisartan Alone and in Combination with Ramipril Global Endpoint Trial [ONTARGET]), 1484
 - predicting long-term outcomes in patients with unstable angina pectoris and, 492
 - prognostic value of hemoglobin A1C levels in patients undergoing percutaneous coronary intervention with stent implantation with, 41

- renin-angiotensin system blockade role in patients with, 835
- type 2
- blood glucose concentrations on admission in non-diabetic patients with first acute myocardial infarction effect on short- and long-term mortality vs. in patients with (from the MONICA/KORA Augsburg Myocardial Infarction Registry), 1607
 - comparison of incidence of acute myocardial infarction following initiation of neutral protamine Hagedorn insulin versus insulin glargine in patients with, 910
 - left ventricular strain and strain rate imaging in asymptomatic patients with, 1398
 - severe coronary artery narrowing relation to insulin or thiazolidinedione use in patients with (from the Bypass Angioplasty Revascularization Investigation 2 Diabetes Study), 52
 - subclinical coronary atherosclerosis assessment in asymptomatic patients with single photon emission computed tomography and coronary computed tomography angiography with, 890
- Diagnosis
- cardiac physical, in the digital age as important but increasingly neglected skill, 590
 - of heart failure in children with single ventricle physiology using various biomarkers, 1280
 - penetrance and risk profile of inherited cardiac diseases studied in a dedicated screening clinic, 406
 - prenatal versus postnatal, impact on congenitally corrected transposition of the great arteries, 1276
- Diastolic function, left and right ventricular, as assessed by Doppler echocardiography, long-term and intensive endurance training effect on age-related decline in athletes of, 1145
- Diet, plant-based, plasma lipids and, 946, 957 (Editorial)
- Dietary Approaches to Stop Hypertension (DASH) Diet, heart failure incidence in men aged 45 to 79 years and consistency with, 1416
- Doppler imaging. *see also* Echocardiography, Doppler tissue, for detecting differences in temporal occurrence of left ventricular systolic mechanical events in healthy young adults, usefulness of other imaging modalities with, 440
- Drug-eluting stents. *see* Stents, drug-eluting
- Dual energy X-ray absorptiometry
- lateral spine images, association of coronary aortic calcium with abdominal aortic calcium detected on, 299
- Duke sudden cardiac death risk score
- usefulness for predicting sudden cardiac death in patients with angiographic (>75% narrowing) coronary artery disease, 1624
- Dyslipidemia
- flushing profile of extended-release niacin/taropirant versus gradually titrated niacin extended-release in patients with and without ischemic cardiovascular disease and with, 74
 - management in patients with a high risk of atherosclerotic disease, statin-ezetimibe combination usefulness to reduce care gap in, 798
 - persistent mixed, after statin initiation for low-density lipoprotein cholesterol, combination therapy for optimal management of, 1695 (Editorial)
- Dyspnea
- acute, systemic hypertension impact on diagnostic performance of B-type natriuretic peptides in patients with, 966
 - cardiac versus noncardiac, usefulness of adjusting for clinical covariates to improve the ability of B-type natriuretic peptides to distinguish, 689
 - paroxysmal nocturnal, in prospective population studies of incident heart failure, 259
 - in patients unable to perform exercise stress testing, outcome and myocardial ischemia relation to, 265
- Early Identification of Subclinical Atherosclerosis by Noninvasive Imaging Research (EISNER) Study
- prognostic accuracy of B-natriuretic peptide measurements and coronary artery calcium in asymptomatic subjects, 1245
- Echocardiography
- of aortic stenosis progression and osteoporosis treatment, 122
- B-type natriuretic peptides relation to left ventricular end-diastolic volume measured by cardiac magnetic resonance six months after admission for ST-elevation myocardial infarction and, 878
- comparison of cardiac magnetic resonance imaging measurements of functional single ventricular volumes, mass, and ejection fraction to (from the Pediatric Heart Network Fontan Cross-Sectional Study), 419
- Doppler
- assessment of long-term and intensive endurance training effect on age-related decline in athletes of left and right ventricular diastolic function using, 1145
 - of restrictive left ventricular filling, prognostic implications in hypertrophic cardiomyopathy, 1727
 - transesophageal, percutaneous aortic valve replacement effects on coronary blood flow in patients with severe aortic stenosis assessed by, 850
- for evaluation of patients with mechanical prosthetic valve obstruction, multidetector-row computed tomography versus fluoroscopy versus, 1128
- left ventricular strain and strain rate imaging in asymptomatic patients with type 2 diabetes mellitus, 1398
- measuring coronary flow reserve to identify significant left anterior descending coronary artery stenosis assessed by multidetector computed tomography, 657
- multi-plane three-dimensional and four-dimensional, of suspected congenital heart disease versus multi-slice computed tomography and magnetic resonance angiography, 739 (Readers' Comments)
- myocardial contrast, comparison with ^{99m}Tc sestamibi single photon emission computed tomography determined myocardial viability in predicting hard cardiac events following acute myocardial infarction, 1184
- prospective assessment of pulmonary hypertension and its potential etiologies in children with Sickle cell disease using, 713
- real-time 3-dimensional
- for detecting differences in temporal occurrence of left ventricular systolic mechanical events in healthy young adults, usefulness of other imaging modalities with, 440
 - direct measurement of vena contracta area for assessing severity of mitral regurgitation using, 978
- speckle-tracking analysis of left ventricular longitudinal strain, after acute myocardial infarction, time to reperfusion impact on myocardial damage assessed by, 480
- stress, safety of contrast in stable patients and patients with suspected acute coronary syndrome but with negative 12-hour troponin, 14
- three-dimensional speckle tracking, quantitative evaluation of regional left ventricular function in patients with and without heart disease using, 1755
- transesophageal
- among patients with atrial fibrillation undergoing electrophysiology testing and role of, 1256
 - cardiac computed tomographic angiographic evaluation of patients with native valvular heart disease versus, 1421
 - Doppler, percutaneous aortic valve replacement effects on coronary blood flow in patients with severe aortic stenosis assessed by, 850
- two-dimensional speckle tracking and strain rate imaging of transcatheter pulmonary valve implantation effect on short-term right ventricular function, 862
- two-dimensional speckle tracking longitudinal strain imaging, validation for viability assessment in patients with chronic ischemic left ventricular dysfunction and comparison with contrast-enhanced magnetic resonance imaging, 312
- two-dimensional strain, usefulness to predict segmental viability following acute myocardial infarction and optimization using Bayesian logistic spatial modeling, 1023
- Ejection fractions
- echocardiographic versus cardiac magnetic resonance imaging measurements of (from the Pediatric Heart Network Fontan Cross-sectional Study), 419
 - left ventricular, distribution in patients with ischemic and hypertensive heart disease and chronic heart failure, 1413
 - left ventricular $\geq 30\%$ versus $>30\%$, aortic valve replacement with or without concomitant coronary artery bypass grafting in patients with patients with, 1717
 - normal, death and dying in heart failure with, 1311 (Editorial)

- preserved
left ventricular, following fibrinolytic therapy for ST-segment elevation myocardial infarction, myocardial infarct size and ventricular tachyarrhythmia among patients with, 475
with ventricular dysfunction and heart failure symptoms with, application to patients with systemic right ventricles, 414
- Electrocardiograms
Guillain-Barré syndrome and changes in, 1452
QRS notching in malignant versus benign forms of early repolarization in, 1402
12-lead, fragmented QRS usefulness for predicting mortality in acute coronary syndrome from, 1631
12-lead patterns, relation of implanted defibrillator-terminated ventricular tachyarrhythmias in hypertrophic cardiomyopathy to, 1722
- Electrocardiography
changes in patients with arrhythmogenic right ventricular cardiomyopathy, 741 (Readers' Comments), *Reply*, 741
characteristics at initial diagnosis in patients with isolated left ventricular non-compaction, 984
screening in children with attention-deficit hyperactivity disorder using, 1296
- Electrophysiology testing, transesophageal echocardiography role among patients with atrial fibrillation undergoing, 1256
- Endurance training, long-term and intensive, age-related decline in athletes of left and right ventricular diastolic function assessed by Doppler echocardiography, 1145
- Enoxaparin, subcutaneous, safety as outpatient anticoagulation bridging therapy in patients with mechanical heart valve versus nonvalvular atrial fibrillation, 1429
- Epidemiology, of decompensated heart failure in a single community in northeastern United States, 377
- Erythrocyte deformability, and blood hematocrit effect on adenosine 5'-diphosphate platelet reactivity in patients with acute coronary syndromes on dual antiplatelet therapy, 764
- Erythropoietin, to augment myocardial salvage induced by coronary thrombolysis in patients with ST-segment elevation acute myocardial infarction, 1035
- Evidence-based medicine, after acute coronary syndrome, predictors of early discontinuation of, 175
- Exercise. *see also* Athletes; Physical activity
capacity determinants after arterial switch operation for transposition of the great arteries, 1007
cardiac remodeling induced by, and impact of family hypertension history on, 101
- Exercise stress testing
in children and teenagers with arrhythmogenic right ventricular cardiomyopathy, 411
and computed tomographic angiography in patients with chest pain versus coronary calcium detection, 1499
coronary computed tomographic angiography before, 613 (Editorial)
dyspnea in patients unable to perform, myocardial ischemia and outcome relation to, 265
- Ezetimibe, in combination with statins to reduce the care gap in dyslipidemia management in patients with a high risk of atherosclerotic disease, 798
- F₂-isoprostane, free, in patients with acute coronary syndrome, usefulness of serum choline elevations to predict 30-day cardiovascular outcomes and, 638
- Familial Atherosclerosis Treatment Study (FATS), combined analysis with the HDL-Atherosclerosis Treatment Study (HATS) and the Armed Forces Regression Study (AFREGS), combination lipid therapy effects on coronary stenosis and clinical cardiovascular events in coronary disease patients with metabolic syndrome, 1457
- Femoral artery, complex superficial lesions of, treatment with PolarCath cryoplasty, 447
- Fenofibrate, and simvastatin therapy for patients with combined hyperlipidemia, correlation of non-high-density lipoprotein cholesterol and low-density lipoprotein cholesterol with apolipoprotein B in patients with hyperlipidemia, 548
- Fibrinolysis
for ST-segment elevation myocardial infarction, myocardial infarct size and ventricular tachyarrhythmia among patients with preserved left ventricular ejection fractions following, 475
timing, causes, and predictors of death after three years' follow-up in the Danish multicenter randomized study of primary angioplasty in acute myocardial infarction versus (DANAMI-2) Trial, 210
- Firefighters, excess body weight impact on arterial structure, function, and blood pressure in, 1441
- First Phase of the Prospective German Multicenter DES.DE Registry, clinical outcomes after sirolimus-eluting, paclitaxel-eluting and bare metal stents, 1362
- Fish oil, plus aspirin and clopidogrel versus aspirin plus clopidogrel, comparison of bleeding complications in patients with cardiovascular disease, 1052
- Fluoroscopy, for evaluation of patients with mechanical prosthetic valve obstruction, multidetector-row computed tomography versus echocardiography versus, 1128
- Fontan operation (procedure)
atrial remodeling after, 1737
echocardiographic versus cardiac magnetic resonance imaging measurements of single ventricular volumes, mass, and ejection fraction (from the Pediatric Heart Network Fontan Cross-sectional Study), 419
- Foramen ovale
persistent, inheritance of cyanotic congenital heart disease and, 148
transcatheter patent closure in patients with migraine headaches and with moderate to large right-to-left shunt and instrumental cerebrovascular damage, 434
- Fractional flow reserve, for the evaluation of men with known coronary artery disease, comparison of non-invasive multi-slice computed tomography coronary angiography versus invasive coronary angiography and, 653
- Framingham Heart Study, relation of subcutaneous and visceral adipose tissue to coronary and abdominal aortic calcium, 543
- Framingham risk score, as determined by multislice computed tomography and stress testing, relation between the presence of functionally relevant coronary lesions and, 758
- Gender differences. *see also* Men; Women
age-related differences in quality of care and outcomes of patients hospitalized with heart failure and (from OPTIMIZE-HF), 107
early triage of patients with acute chest pain having cardiac computed tomographic angiography and, 1165
of electrophysiological characteristics in focal atrial tachycardia, 97
trends in age-adjusted mortality from ST-segment elevation myocardial infarction in the United States (1988–2004) based on gender, infarct location, comorbidities and, 1030
- Genetic polymorphisms
in C-reactive protein gene, heart rate variability and C-reactive protein levels in male twins and, 1748
in cytochrome P450 gene, relation to clopidogrel resistance after drug-eluting stent implantation in Koreans of, 46
- German ALKK-CAS Registry Experience, effectiveness and safety of carotid artery stenting for significant carotid stenosis in patients with contralateral occlusion, 725
- Global Registry of Acute Coronary Events (GRACE), prior statin therapy impact on arrhythmic events in patients with acute coronary syndromes, 1613
- Glomerular filtration rate, reduced estimated, and microalbuminuria role in prevalence of peripheral artery disease, 1446
- Glucose
admission fasting levels in patients with acute coronary syndrome, prognostic value of, 470
blood concentrations, effect on admission in non-diabetic versus diabetic patients with first acute myocardial infarction on short- and long-term mortality (from the MONICA/KORA Augsburg Myocardial Infarction Registry), 1607
blood levels of, comparison on admission for acute myocardial infarction in patients with versus without diabetes mellitus of, 769
fasting, usefulness of changes during hospitalization in to predict long-term mortality in patients with acute myocardial infarction, 1013

- GOCADAN Study, lipoprotein subfractions and carotid atherosclerosis in Alaskan Eskimos, 1516
- Guillain-Barré syndrome, cardiovascular complications of, 1452
- HDL-Atherosclerosis Treatment Study (HATS), combined analysis with the Armed Forces Regression Study (AFREGS) and the Familial Atherosclerosis Treatment Study (FATS) the, combination lipid therapy effects on coronary stenosis and clinical cardiovascular events in coronary disease patients with metabolic syndrome, 1457
- Health care costs
 one-year, workplace wellness programs impact on cardiac risk factors and, 1389
 three-year outcomes in patients receiving 64-slice computed tomographic coronary angiography for chest pain and analysis of, 498
- Heart and Soul Study, relation of obesity to heart failure hospitalization and cardiovascular events in persons with stable coronary heart disease, 883
- Heart block, congenital and acquired, associated with congenital heart disease, right ventricular pacing impact on three-dimensional global left ventricular dyssynchrony in children and young adults with, 700
- Heart disease. *see also* Cardiomyopathy; Congenital heart disease; Coronary heart disease; Valvular heart disease
 quantitative evaluation of regional left ventricular function using three-dimensional speckle tracking echocardiography in patients with and without, 1755
- Heart failure
 acute
 cystatin C usefulness and prognosis following admission for, 389
 soluble Fms-like tyrosine kinase-1 in patients with acute myocardial infarction as a biomarker of, 1478
 age- and gender-related differences in quality of care and outcomes of patients hospitalized with (from OPTIMIZE-HF), 107
 alpha 1-adrenergic antagonist use for benign prostatic hypertrophy, impact on outcomes in patients with, 270
 application of classic heart failure definitions of asymptomatic and symptomatic ventricular dysfunction and heart failure symptoms with preserved ejection fraction to patients with systemic right ventricles, 414
 atrial fibrillation in an older Italian population and (from the Pro.V.A. Study), 1092
 chronic, distribution of left ventricular ejection fractions in patients with ischemic and hypertensive heart disease and, 1413
 decompensated, epidemiology in a single community in the northeastern United States, 377
 etiology of, influence on the obesity paradox, 1116
 Guillain-Barré syndrome and, 1452
 incidence in men aged 45 to 79 years, consistency with Dietary Approaches to Stop Hypertension Diet and, 1416
 incident, value of orthopnea, paroxysmal nocturnal dyspnea, and medications in prospective population studies of, 259
 meta-analysis of randomized controlled trials of statins versus placebo in patients with, 1708
 with normal ejection fraction, death and dying in, 1311 (Editorial)
 in patients <70 and ≥70 years with acute myocardial infarction, primary coronary angioplasty effects on left ventricular remodeling and, 926
 in patients with atrial fibrillation, association of parameters derived from RR intervals and left ventricle performance with a history of, 959
 propofol infusion syndrome with arrhythmia, myocardial fat accumulation and, 1160
 risk stratifying patients with, peak oxygen pulse and peak oxygen uptake in, 554
 symptoms of ventricular dysfunction with preserved ejection fraction, application to patients with systemic right ventricles, 414
 transient, and plasma levels of brain natriuretic peptide after device closure of atrial septal defect, early diastolic mitral annular velocity usefulness to predict, 1732
- Heart murmurs, innocent, as a suspect diagnosis in non-pregnant adults, 735 (Editorial)
- Heart rate variability, in healthy male twins, C-reactive gene polymorphism effect on C-reactive protein levels and, 1748
- Heart transplantation
 corrected QT interval before and after, 596
- dual source computed tomography versus intravascular ultrasound for evaluation of coronary arteries at least one year after, 1351
- plasma adiponectin as risk factor or risk marker for arterial stiffness after, 742 (Readers' Comments)
- Hematocrit
 and erythrocyte deformability effect on adenosine 5'-diphosphate platelet reactivity in patients with acute coronary syndromes on dual antiplatelet therapy, 764
 of 24% to 30% after percutaneous coronary intervention, blood transfusion value in patients with, 1069
- Hemoglobin, A1C levels in patients with diabetes mellitus undergoing percutaneous coronary intervention with stent implantation
 prognostic value of, 41
- Heparin
 anticoagulation based on, six-month follow-up of patients with in-hospital thrombocytopenia during (from the Complications After Thrombocytopenia Caused by Heparin [CATCH] Registry), 1285
 in-hospital mortality of patients treated with, contribution of bleeding and thromboembolic events among with thrombocytopenia and, 292
 intra-arterial versus intravenous, effect on radial artery occlusion after transradial catheterization, 1083
 low molecular weight, use in pregnant women with mechanical heart valves, 1259
 unfractionated plus tirofiban versus bivalirudin monotherapy in patients with diabetes mellitus undergoing elective percutaneous coronary intervention, 1222
- Heredity and Phenotype Intervention Heart Study, aspirin resistance in healthy drug-naive men versus women, 606
- Hispanics, referred for percutaneous coronary intervention, cardiovascular risk profile association with outcomes in (from the National Heart Lung, and Blood Institute Dynamic Registry), 775
- Histopathology, of clinical coronary restenosis in drug-eluting versus bare metal stents, 1660
- Human immunodeficiency virus infection, bare metal versus drug-eluting stent outcomes in coronary artery disease patients with and without, 216
- Hyperlipidemia, combined, correlation of non-high-density lipoprotein cholesterol and low-density lipoprotein cholesterol with apolipoprotein B during simvastatin plus fenofibrate therapy in patients with (A Subanalysis of the SAFARI Trial), 548
- Hyperoxemic therapy, intracoronary, in acute myocardial infarction, 791 (Editor's Roundtable)
- Hypertension
 alcohol consumption and coronary heart disease in male physicians with (from the Physicians' Health Study), 932
 antecedent, meta-analysis of adverse cardiovascular outcomes after myocardial infarction associated with, 141
 distribution of left ventricular ejection fractions in patients with ischemic heart disease, chronic heart failure and, 1413
 exercise-induced cardiac remodeling and impact of family history of, 101
 mitral E wave deceleration time to peak E velocity ratio and cardiovascular outcome during antihypertensive treatment for patients with (from the LIFE Echo-Substudy), 1098
 olmesartan medoxomil versus amlodipine besylate on regression of left ventricular and vascular hypertrophy with, 359
 prehypertension diagnosis and management, 1105 (Editor's Roundtable)
- pulmonary
 in patients with obstructive sleep apnea syndrome, frequency and impact of, 1300
 prospective echocardiography assessments and its potential etiologies in children with Sickle cell disease, 713
 usefulness of red cell distribution width as a prognostic marker in, 868
 systemic, diagnostic performance of B-type natriuretic peptide in patients with acute dyspnea and, 966
- Inflammation, low-grade, in middle-aged men and women, body composition, cardiorespiratory fitness and, 240
- Inflammatory demyelinating polyneuropathy, cardiovascular complications of, 1452

- Inflammatory response syndrome, systemic, myeloperoxidase as predictor after primary percutaneous coronary intervention in patients with ST-segment elevation myocardial infarction of, 634
- Innocent murmurs, as a suspect diagnosis in non-pregnant adults, 735 (Editorial)
- Insulin
 - neutral protamine Hagedorn versus glargine initiation in patients with type 2 diabetes, incidence of acute myocardial infarction following, 910
 - relation of severe coronary artery narrowing to thiazolidinedione use in patients with type 2 diabetes mellitus or (from the Bypass Angioplasty Revascularization Investigation 2 Diabetes Study), 52
- International Trial SYNERGY, comparison of site-reported and core laboratory-reported creatine kinase-MB values in non-ST-elevation acute coronary syndrome, 1330
- Interventricular delay, optimization using the QRS width in cardiac resynchronization therapy of, 1407
- Intravascular ultrasound
 - accuracy of computed tomographic angiography for stenosis quantification using quantitative coronary angiography as the Gold Standard or, 1047
 - dual source computed tomography for evaluation of coronary arteries at least one year after cardiac transplantation versus, 1351
 - prospective, multicenter virtual histology registry, relation between individual plaque components and overall plaque burden in, 501
 - serial, of bifurcation lesions treated using the novel self-expanding Sideguard side branch stent, 1216
- Ischemia
 - distribution of left ventricular ejection fractions in patients with hypertensive heart disease, chronic heart failure and, 1413
 - myocardial (see Myocardial ischemia)
- Isolated left ventricular noncompaction
 - diagnosis and management, 1135
 - electrocardiographic characteristics at initial diagnosis in patients with, 984
- Italy, sudden cardiac death of young competitive athletes in the U.S. versus, implications for preparticipation screening strategies and, 276
- Journal of Periodontology and The American Journal of Cardiology* Editors' Consensus: periodontitis and atherosclerotic cardiovascular disease, 59
- Kawasaki disease, comparison of factors associated with coronary artery dilation only versus coronary artery aneurysms in patients with, 1742
- Kidney disease, chronic, optimal medical therapy with or without percutaneous coronary intervention for patients with stable coronary artery disease and, 1647
- Korea Acute Myocardial Infarction Registry, predictors of six-month major adverse cardiac events in 30-day survivors after acute myocardial infarction, 182
- Koreans. *see also* Asians
 - reasonable duration of clopidogrel use after drug-eluting stent implantation in, 1668
 - relation of genetic polymorphisms in the cytochrome P450 gene with clopidogrel resistance after drug-eluting stent implantation in, 46
- Laennec, René (1781–1826), stethoscope invention and, 743 (Readers' Comments)
- Laropiprant, with extended release niacin, flushing profile in patients with dyslipidemia with and without cardiovascular disease of gradually titrated extended release niacin versus, 74
- Left atrial dimension, serum leptin, left ventricular mass in individuals >70 years of age and, 602
- Left atrial remodeling, after Fontan operation, 1737
- Left bundle branch block, cardiac resynchronization therapy in patients with right ventricular pacing versus, 1163 (Readers' Comments)
- Left ventricle, after Fontan procedure, echocardiographic versus cardiac magnetic resonance imaging measurements of functional single ventricular volumes, mass, and ejection fraction (from the Pediatric Heart Network Fontan Cross-Sectional Study), 419
- Left ventricular dysfunction. *see also* Left ventricular function
 - assessment in Tako-Tsubo cardiomyopathy, 1163 (Readers' Comments)
 - in asymptomatic patients with type 2 diabetes mellitus, left ventricular strain and strain rate imaging of, 1398
 - chronic ischemic, validation of echocardiographic two-dimensional speckle tracking longitudinal strain imaging for viability assessment and comparison with contrast-enhanced magnetic resonance imaging in patients with, 312
 - diastolic, and patient-prosthesis mismatch as determinants of outcome after isolated aortic valve replacement, interaction and prognostic effects of, 707
- Left ventricular dyssynchrony
 - three-dimensional global, in children and young adults with congenital and acquired heart block associated with congenital heart disease, impact of right ventricular pacing on, 700
 - as ventricular remodeling determinant, post-acute myocardial infarction assessment by a tagging magnetic image derived metric of, 19
- Left ventricular end-diastolic volume, measured by both echocardiography and cardiac magnetic resonance six months after admission for ST-elevation myocardial infarction, relation of B-type natriuretic peptides to, 878
- Left ventricular filling, restrictive, in hypertrophic cardiomyopathy, prognostic implications of Doppler pattern of, 1727
- Left ventricular function. *see also* Left ventricular dysfunction
 - heart failure in patients with atrial fibrillation, association parameters derived from RR intervals and, 959
 - in patients with acute myocardial infarction, intracoronary injection of mononuclear bone marrow stem cells effect on, 1336
 - in patients with transposition of the great arteries operated with arterial switch, 583
 - regional, quantitative evaluation using three-dimensional speckle tracking echocardiography in patients with and without heart disease of, 1755
- Left ventricular geometry
 - myocardial deformation in patients after surgical repair of tetralogy of Fallot, impact of right ventricular dilation on, 1264
 - myocardial deformation response to stress, interaction of myocardial ischemia and, 897
 - in young adults, influence of the metabolic syndrome versus the sum of its individual components on (from the Bogalusa Heart Study), 69
- Left ventricular hypertrophy, olmesartan medoxomil versus amlodipine besylate on regression of vascular hypertrophy and, 359
- Left ventricular longitudinal strain, after acute myocardial infarction, time to reperfusion impact on myocardial damage assessed by, 480
- Left ventricular mass
 - serum leptin, left atrial dimension in individuals >70 years of age and, 602
 - and volume in patients with previous atherosclerotic events or with diabetes mellitus with telmisartan alone or in combination with ramipril (from the ONgoing Telmisartan Alone and in Combination with Ramipril Global Endpoint Trial [ONTARGET]), 1484
- Left ventricular myocardium, in fetal patients having in-utero aortic valvuloplasty, postnatal angiographic appearance of, 1271
- Left ventricular noncompaction, isolated
 - electrocardiographic characteristics at initial diagnosis in patients with, 984
- Left ventricular noncompaction, isolated, diagnosis and management, 1135
- Left ventricular outflow tract obstruction, as a risk factor for sudden cardiac death in hypertrophic cardiomyopathy, 695
- Left ventricular remodeling
 - after acute myocardial infarction, chemokine network in relation to infarct size and, 1179
 - assessed by a tagging magnetic resonance image derived metric as a determinant of left ventricular dyssynchrony after acute myocardial infarction, 19
 - in patients <70 and ≥70 years with acute myocardial infarction, primary coronary angioplasty effects on heart failure and, 926
 - in patients with organic mitral regurgitation, N-terminal pro-B-type natriuretic peptide relation to symptoms and severity of and to, 559
- Left ventricular systolic mechanical events, in healthy young adults, multimodality imaging usefulness for detecting differences in temporal occurrence of, 440
- Left ventricular volume, and mass in patients with previous atherosclerotic events or with diabetes mellitus with telmisartan alone or in combination with ramipril (from the ONgoing Telmisartan Alone and in Combination with Ramipril Global Endpoint Trial [ONTARGET]), 1484
- Leptin, serum levels, cardiac mass and left atrial dimension in individuals >70 years of age and, 602

- LIFE Echo-Substudy, mitral E wave deceleration time to peak E velocity ratio and cardiovascular outcome for hypertensive patients during antihypertensive treatment, 1098
- Lipids**
- combination therapy effects on coronary stenosis progression and clinical cardiovascular events in coronary disease patients with metabolic syndrome (combined analysis of the Familial Atherosclerosis Treatment Study [FATS], the HDL-Atherosclerosis Treatment Study [HATS], and the Armed Forces Regression Study [AFREGS]), 1457
 - long-term effects of pioglitazone by baseline anti-hyperglycemia medication therapy and statin use on, from the PROactive Experience (PROactive 14), 234
 - plasma levels of, plant-based diets and, 946, 957 (Editorial)
 - seasonal variation in, 739 (Readers' Comments)
- Lipocalin, neutrophil gelatinase-associated, coronary artery disease severity and, 917
- Lipoprotein subfractions. *see also* Cholesterol
- carotid atherosclerosis in Alaskan Eskimos and (from the GOCADAN Study), 1516
- Lymphoma, non-Hodgkin, acute myocardial infarction and tachyarrhythmia due to, 450
- Magnetic resonance imaging (MRI)**
- B-type natriuretic peptides relation to left ventricular end-diastolic volume measured by echocardiography six months after admission for ST-elevation myocardial infarction and, 878
 - comparison of echocardiographic imaging measurements of functional single ventricular volumes, mass, and ejection fraction to (from the Pediatric Heart Network Fontan Cross-Sectional Study), 419
 - contrast-enhanced, validation of echocardiographic two-dimensional speckle tracking longitudinal strain imaging for viability assessment in patients with chronic ischemic left ventricular dysfunction and comparison with, 312
 - for detecting differences in temporal occurrence of left ventricular systolic mechanical events in healthy young adults, usefulness of other imaging modalities with, 440
 - in patients with acute ST-elevation myocardial infarction treated by primary coronary intervention, effect of coronary collaterals on microvascular obstruction as assessed by, 1204
- Mammary arteries, left internal, effectiveness and safety of total endoscopic bypass graft to left anterior descending coronary artery from, 1684
- Marathon running. *see also* Runners, long-distance
- cytosolic release of cardiac troponin after, 742 (Readers' Comments)
- Maximal Individual Therapy in Acute Myocardial Infarction Plus (MITRA Plus) Registry, clinical benefit of early reperfusion in patients with ST-segment elevation myocardial infarction usually excluded from randomized clinical trials, 1074
- Medications**
- optimal, for patients with stable coronary artery disease and chronic kidney disease with or without percutaneous coronary intervention, 1647
 - optimal, with or without percutaneous coronary intervention, impact on long-term cardiovascular end points (from the COURAGE Trial), 1
 - in prospective population studies of incident heart failure, 259
- Men**
- ≥50 years of age, C-reactive protein usefulness for guiding treatment in, 354
 - aged 45 to 79 years, consistency with Dietary Approaches to Stop Hypertension Diet and heart failure incidence in, 1416
 - aspirin resistance in healthy drug-naive women versus (from the Heredity and Phenotype Intervention Heart Study), 606
 - body composition, cardiorespiratory fitness, and low-grade inflammation in middle-aged women and, 240
 - hypertensive physicians, coronary heart disease and alcohol consumption in (from the Physicians' Health Study), 932
 - with known coronary artery disease, comparison of non-invasive multi-slice computed tomographic coronary angiography with invasive coronary angiography and fractional flow reserve for, 653
 - overweight and obese, habitual aerobic exercise effect on body weight and arterial function in, 823
 - triglycerides-to-high-density lipoprotein cholesterol ratio usefulness for predicting first coronary event in, 1393
 - twins, heart rate variability and C-reactive protein levels in, C-reactive protein gene polymorphisms and, 1748
 - women with acute coronary syndrome in six Middle Eastern countries compared to, 1018
- Meta-analysis**
- of ablation of atrial flutter and supraventricular tachycardia, 671
 - of adverse cardiovascular outcomes associated with antecedent hypertension after myocardial infarction, 141
 - of prognostic value of stress testing in patients with asymptomatic severe aortic stenosis, 972
 - of randomized controlled trials of statins versus placebo in patients with heart failure, 1708
- Metabolic syndrome**
- combination lipid therapy effects on coronary stenosis progression and clinical cardiovascular events in coronary disease patients with (combined analysis of the Familial Atherosclerosis Treatment Study [FATS], the HDL-Atherosclerosis Treatment Study [HATS], and the Armed Forces Regression Study [AFREGS]), 1457
 - sum of individual components' influence on left ventricular geometry in young adults vs. (from the Bogalusa Heart Study), 69
- Microalbuminuria, and reduced estimated glomerular filtration rate in prevalence of peripheral artery disease, 1446
- Migraine headache**
- patent foramen ovale closure and, 1163 (Readers' Comments)
 - usefulness of transcatheter patent foramen ovale closure with moderate to large right-to-left shunt and instrumental evidence of cerebrovascular damage in patients with, 434
- Mitral annular velocity, early diastolic, usefulness to predict plasma levels of brain natriuretic peptide and transient heart failure development after device closure of atrial septal defect, 1732
- Mitral E wave deceleration time to peak E velocity ratio, cardiovascular outcome in hypertensive patients during antihypertensive treatment and (from the LIFE Echo-Substudy), 1098
- Mitral valve regurgitation
- direct measurement of vena contracta area by real-time 3-dimensional echocardiography for assessing severity of, 978
 - functional, long-term effect of cardiac resynchronization therapy on, 383
 - organic, N-terminal pro-B-type natriuretic peptide relation to symptoms, severity, and left ventricular remodeling in patients with, 559
 - pre- and postprocedural, impact on outcomes after percutaneous mitral valvuloplasty for mitral stenosis, 1122
- Mitral valve repair, percutaneous coronary sinus-based, effectiveness and safety in patients with dilated cardiomyopathy (from the AMADEUS Trial), 565
- Mitral valvuloplasty, percutaneous, for mitral stenosis, pre- and postprocedural mitral regurgitation impact on outcomes after, 1122
- MONICA/KORA Augsburg Myocardial Infarction Registry, effect of blood glucose concentrations on admission in non-diabetic versus diabetic patients with first acute myocardial infarction on short- and long-term mortality, 1607
- Mortality**
- after percutaneous coronary intervention, contrast-induced nephropathy and, 1763 (Readers' Comments)
 - age-adjusted, from ST-segment elevation myocardial infarction, trends based on race, gender, infarct location, and comorbidities in the United States (1988–2004) for, 1030
 - atrial fibrillation in an older Italian population and (from the Pro.V.A. Study), 1092
 - door-to-balloon time and mortality in patients ≥65 years with ST-elevation myocardial infarction undergoing primary percutaneous coronary intervention association with, 1199
 - homocysteine-lowering vitamin therapy in patients with coronary artery disease and, 745
 - in-hospital
 - contribution of bleeding and thromboembolic events among patients with thrombocytopenia treated with heparin to, 292
 - reported contraindications to early use of beta blockers for non-ST-elevation acute coronary syndrome, patient age and, 1324

- long-term
 after percutaneous coronary intervention in patients treated for acute ST-elevation myocardial infarction versus those with unstable and stable angina pectoris, 333
 usefulness of fasting glucose changes during hospitalization for acute myocardial infarction to predict, 1013
- natriuretic peptide testing for long-term risk assessment following acute ischemic stroke of, 287
- short- and long-term, blood glucose concentrations on admission in non-diabetic versus diabetic patients with first acute myocardial infarction effect on (from the MONICA/KORA Augsburg Myocardial Infarction Registry), 1607
- Multi-Ethnic Study of Atherosclerosis (MESA)
 electrocardiographic abnormalities with coronary artery calcium and carotid artery intima-medial thickness in individuals without clinical coronary heart disease, 1086
 ethnic-specific risks for atherosclerotic calcification of the thoracic and abdominal aorta, 812
- Myeloperoxidase, as predictor of systemic inflammatory response syndrome in patients with ST-segment elevation myocardial infarction after primary percutaneous coronary intervention, 634
- Myocardial blood supply, comparison of dual-energy computed tomography of the heart with single photon emission computed tomography for assessment of, 318
- Myocardial fat accumulation, propofol infusion syndrome with arrhythmia and, 1160
- Myocardial infarction
 acute (*see* Acute myocardial infarction)
 acute right ventricular, undergoing mechanical reperfusion, malignant ventricular arrhythmias in patients with, 1678
 beta blocker usefulness in conjunction with captopril and/or valsartan in high-risk patients after (from the VALsartan In Acute Myocardial Infarction [VALIANT] Trial), 151
 first acute, blood glucose concentrations on admission in non-diabetic versus diabetic patients effect on short- and long-term mortality (from the MONICA/KORA Augsburg Myocardial Infarction Registry), 1607
 meta-analysis of adverse cardiovascular outcomes associated with antecedent hypertension after, 141
 non-ST-elevation
 effect of drug-eluting stents on frequency of repeat revascularization in patients with unstable angina pectoris or, 1654
 in patients with poor R-wave progression, utility of frontal plane QRS axis in identification of, 190
 periprocedural, effect of two-day pretreatment with atorvastatin after elective percutaneous coronary intervention on incidence of, 630
 ST-segment (*see* ST-segment myocardial infarction)
 sudden cardiac death in patients with silent myocardial ischemia after (from the Swiss Interventional Study on Silent Ischemia Type II [SWISSI II]), 158
- Myocardial ischemia
 dyspnea in patients unable to perform exercise stress testing, long-term outcome and, 265
 on Holter monitoring following percutaneous coronary intervention, timing and duration and their association with clinical outcomes of (a PROTECT-TIMI 30 Substudy Analysis), 36
 myocardial deformation response to stress, interaction of left ventricular geometry and, 897
 prognostic significance of QRS duration in patients with suspected coronary artery disease referred for noninvasive evaluation of, 1490
 silent, sudden cardiac death after myocardial infarction in patients with (from the Swiss Interventional Study on Silent Ischemia Type II [SWISSI II]), 158
 stress test-induced, bone mineral density and, 199
- Myocardial perfusion scintigraphy
 predicting coronary anatomy in patients with non-ST-elevation acute coronary syndrome using, 644
 value in patients with non-ST segment elevation acute coronary syndromes, 738 (Editorial)
- Myocarditis
 acute, apoptosis in patients with, 995
 Guillain-Barré syndrome and, 1452
- Naproxinod, effects on systemic blood pressure in patients with osteoarthritis, naproxen versus, 840
- Naproxen, effects on systemic blood pressure in patients with osteoarthritis, naproxinod versus, 840
- National Cardiovascular Data Registry, prevalence, predictors, and in-hospital outcomes of non-infarct artery intervention during primary percutaneous coronary intervention for ST-segment elevation myocardial infarction, 507
- National Cholesterol Education Program Adult Treatment Panel III Goals for all major serum lipoproteins after initiation of lipid-altering therapy, frequency of obtaining, 1689
 combination therapy for persistent mixed dyslipidemia after statin initiation and, 1695 (Editorial)
 low-density lipoprotein as primary focus of, 1697 (Editorial)
- National Football League players, retired, cardiovascular risk factors and coronary atherosclerosis in, 805
- National Heart, Lung, and Blood Institute Dynamic Registry, association of a unique cardiovascular risk profile with outcomes in Hispanic patients referred for percutaneous coronary intervention, 775
- Nationwide Inpatient Sample, rate of acute ST-elevation myocardial infarction in the United States from 1988 to 2004 from, 5
- Natriuretic peptides
 B-type (brain) (*See also* N-terminal pro-brain natriuretic peptide)
 to distinguish cardiac from noncardiac dyspnea, usefulness of adjusting for clinical covariates to improve, 689
 levels on admission for ST-elevation myocardial infarction, relation to left ventricular end-diastolic volume six months later measured by both electrocardiography and cardiac magnetic resonance, 878
 in patients with acute dyspnea, systemic hypertension impact on diagnostic performance of, 966
 plasma levels of and transient heart failure development after device closure of atrial septal device, early diastolic mitral annular velocity usefulness to predict, 1732
 prognostic accuracy of measurements in asymptomatic subjects of coronary artery calcium and (from the Early Identification of Subclinical Atherosclerosis by Noninvasive Imaging Research [EISNER] Study), 1245
 testing for long-term risk assessment following acute ischemic stroke, 287
- Nausea, infarct location in acute myocardial infarction and, 1638
- Nephropathy, contrast-induced. *see also* Contrast agents
 morbidity and mortality following percutaneous coronary intervention, 1763 (Readers' Comments)
 in patients with mild renal insufficiency undergoing an elective coronary procedure, efficacy of single-bolus of sodium bicarbonate to prevent, 921
 prevention using simvastatin 20 mg versus 80 mg in patients with acute coronary syndrome undergoing percutaneous coronary intervention, 519
- Neurogenic stunned myocardium, Guillain-Barré syndrome and, 1452
- Neutrophil gelatinase-associated lipocalin, coronary artery disease severity and, 917
- Niacin, flushing profile in patients with dyslipidemia with and without ischemic cardiovascular disease of extended-release niacin/laropiprant versus gradually titrated extended-release, 74
- Nonsteroidal anti-inflammatory drugs, reducing cardiovascular risks by using topical formulations of, 1315 (Readers' Comments)
- N-terminal pro-brain natriuretic peptide. *see also* Natriuretic peptides, B-type
 balloon valvuloplasty effect in patients with severe aortic stenosis on levels of, 846
 plasma levels as a marker for postoperative cardiac events in high-risk patients undergoing noncardiac surgery, 137
 symptoms, severity, and left ventricular remodeling in patients with organic mitral regurgitation and, 559
- Obesity
 central, among normal weight younger adults, utility of waist-to-height ratio in detecting related adverse cardiovascular risk profile and (from the Bogalusa Heart Study), 721
 coronary artery calcium in subjects without previous coronary events, and comparative relation of general, central, and visceral measures of, 943
 etiology of heart failure influence on paradox of, 1116
 habitual aerobic exercise effect on body weight and arterial function in men who are overweight and, 823

- heart failure hospitalization and cardiovascular events in persons with stable coronary heart disease and (from the Heart and Soul Study), 883
- Olmesartan medoxomil, versus amlodipine besylate on regression of ventricular and vascular hypertrophy, 359
- Omega-3 fatty acids, plus aspirin plus clopidogrel, versus aspirin plus clopidogrel, comparison of bleeding complications in patients with cardiovascular disease, 1052
- ONgoing Telmisartan Alone and in Combination with Ramipril Global Endpoint Trial (ONTARGET), left ventricular mass and volume with telmisartan, ramipril, or in combination in patients with diabetes mellitus or previous atherosclerotic events, 1484
- OPTIMIZE-HF, age- and gender-related differences in quality of care and outcomes of patients hospitalized with heart failure, 107
- Orthopnea, in prospective population studies of incident heart failure, 259
- Osteoarthritis, cyclooxygenase inhibiting nitric oxide donator naproxen versus naproxen effects on systemic blood pressure in patients with, 840
- Osteoporosis, aortic stenosis progression and treatment of, 122, 125 (Editorial)
- Outpatients, feasibility and safety of same-day home discharge after radiofrequency catheter ablation, 254
- Oxygen, aqueous, intracoronary, in acute myocardial infarction, 791 (Editor's Roundtable)
- Paclitaxel-eluting stents
 - clinical outcomes after sirolimus-eluting, bare metal, and (from the First Phase of the Prospective German Multicenter DES.DE Registry), 1362
 - in patients with ST-elevation myocardial infarction, efficacy and safety of zotarolimus- versus sirolimus- versus, 1370
 - rapamycin-eluting stents in patients undergoing primary percutaneous coronary intervention for ST-elevation myocardial infarction compared to, 205
- Patent foramen ovale
 - closure, migraines and, 1163 (Readers' Comments)
 - transcatheter closure in patients with migraine headaches and with moderate to large right-to-left shunt and damage due to cerebral ischemic lesions, 434
- Patient compliance, predictors of early discontinuation of evidence-based medicine after acute coronary syndrome and, 175
- Patient-prosthesis mismatch, and left ventricular diastolic dysfunction as determinants of outcome after isolated aortic valve replacement, interaction and prognostic effects of, 707
- Peak exercise oxygen pulse, risk stratifying patients with heart failure, peak oxygen uptake and, 554
- Peak exercise oxygen uptake, risk stratifying patients with heart failure, peak oxygen pulse and, 554
- Pediatric Cardiomyopathy Registry, treating children with idiopathic dilated cardiomyopathy, 281
- Pediatric Heart Network Fontan Cross-sectional Study, echocardiographic versus cardiac magnetic resonance imaging measurements of single ventricular volumes mass, and ejection fraction, 419
- Pediatrics. *see* Children
- Percutaneous coronary intervention
 - antiplatelet therapy in patients with anticoagulants undergoing (from STENTing and oral antiCOagulants [STENTICO]), 338
 - aortic valve implantation with and without replacement, comparison of heavier versus lighter operatively excised stenotic aortic valves in adults with aortic stenosis and implications for, 393
 - association of a unique cardiovascular risk profile with outcomes in Hispanic patients referred for (from the National Heart, Lung, and Blood Institute Dynamic Registry), 775
 - blood transfusion value in patients with a blood hematocrit of 24% to 30% after, 1069
 - body mass index relation to high on-treatment platelet reactivity and failed clopidogrel dose adjustment according to platelet reactivity monitoring in patients undergoing, 1511
 - contrast-induced nephropathy morbidity and mortality following, 1763 (Readers' Comments)
 - coronary artery perforation during, incidence, risk factors, management and outcomes of, 1674
 - early administration of loading dose of clopidogrel before coronary angiography to candidates for, 1505
 - elective
 - comparison of bivalirudin monotherapy versus unfractionated heparin plus tirofiban in patients with diabetes mellitus undergoing, 1222
 - two-day pretreatment with atorvastatin effect on the incidence of periprocedural myocardial infarction following, 630
 - gradual computerized angioplasty effect on outcomes of patients undergoing stenting with, 223
 - long-term rates and associated independent predictors for progression of nonintervened nonculprit coronary lesions, 648
 - medical therapy without, as initial strategy in high-risk patients from the Clinical Outcomes Utilizing Revascularization and Aggressive Drug Evaluation (COURAGE) Trial, 1055
 - nonemergent, relation of troponin I levels to short- and long-term outcomes, 1210
 - optimal medical therapy for patients with stable coronary artery disease and chronic kidney disease with or without, 1647
 - optimal medical therapy impact on long-term cardiovascular end points in patients with stable coronary artery disease with or without (from the COURAGE Trial), 1
 - in patients treated for acute ST-elevation myocardial infarction versus those with unstable and stable angina pectoris, long-term mortality after, 333
 - in patients with angina pectoris, prolonged bivalirudin infusion versus intraprocedural bivalirudin in preventing myocardial damage after, 1063
 - in patients with diabetes mellitus undergoing stent implantation with, prognostic value of hemoglobin A1C levels in, 41
 - predictors of increased radiation dose during, 1241
 - primary
 - accelerated idioventricular rhythm prevalence and significance in ST-elevation myocardial infarction patients treated with, 1641
 - coronary collaterals' effect on microvascular obstruction as assessed by magnetic resonance imaging in patients with acute ST-elevation myocardial infarction treated by, 1204
 - door-to-balloon time and mortality in patients ≥ 65 years with ST-elevation myocardial infarction undergoing, 1199
 - multiple culprit arteries in patients with ST segment elevation myocardial infarction referred for, 619
 - myeloperoxidase as predictor of systemic inflammatory response syndrome in patients with ST-segment elevation myocardial infarction after, 634
 - prognostic impact of Q waves on presentation and ST resolution in patients with ST-elevation myocardial infarction treated with, 780
 - for ST-elevation myocardial infarction, rapamycin- versus paclitaxel-eluting stents in patients undergoing, 205
 - for ST-segment elevation myocardial infarction, prevalence, predictors, and in-hospital outcomes of non-infarct artery intervention during (from the National Cardiovascular Data Registry), 507
 - repeat frequency in patients with unstable angina pectoris or non-ST-elevation myocardial infarction, effect of drug-eluting stents on, 1654
 - simvastatin 20 mg versus 80 mg usefulness in preventing contrast-induced nephropathy in patients with acute coronary syndrome undergoing, 519
 - stroke associated with, incidence and predictors of, 349
 - timing and duration of myocardial ischemia on Holter monitoring following, and their association with clinical outcomes (a PROTECT-TIMI 30 Substudy Analysis), 36- Percutaneous mitral valvuloplasty, for mitral stenosis, pre- and postprocedural mitral regurgitation impact on outcomes after, 1122
- Periodontitis, atherosclerotic cardiovascular disease and vitamin D, 1164 (Readers' Comments)
- Periodontitis, *The American Journal of Cardiology* and *Journal of Periodontology* Editors' Consensus: atherosclerotic cardiovascular disease and, 59
- Peripheral artery disease
 - comparison of two-year outcomes in patients undergoing isolated coronary artery bypass grafting with and without, 1377
 - mid-term prognosis of patients with acute coronary syndrome and clinical and subclinical, 1494
 - reduced estimated glomerular filtration rate and microalbuminuria role in prevalence of, 1446

- Phosphoprotein index, post treatment vasodilator-stimulated, predictive values of adenosine diphosphate-induced platelet aggregation for stent thrombosis after acute coronary syndrome in clopidogrel-treated patients and, 1078
- Physical activity. *see also* Exercise
 predicting cardiovascular disease beyond commonly evaluated cardiometabolic risk factors using, 1522
- Physical examinations, cardiac, in the digital age as important but increasingly neglected skill, 590
- Physicians' Health Study, alcohol consumption and coronary heart disease in hypertensive male physicians, 932
- Pioglitazone, long-term effects measured by baseline anti-hyperglycemia medication therapy and statin use of, from the PROactive Experience (PROactive 14), 234
- Placebos, randomized controlled trials in patients with heart failure, meta-analysis of statins versus, 1708
- Plaques
 composition, multifactorial contribution to, 739 (Readers' Comments)
 individual components and overall burden of in the prospective, multicenter virtual histology intravascular ultrasound registry, 501
- Platelet aggregation, post treatment adenosine diphosphate-induced, predictive values of vasodilator-stimulated phosphoprotein index for stent thrombosis after acute coronary syndrome in clopidogrel-treated patients and, 1078
- Platelet reactivity, failed clopidogrel dose adjustment according to monitoring in patients undergoing percutaneous coronary intervention of, relation of body mass index and high on-treatment platelet reactivity and, 1511
- Platelets
 adenosine 5'-diphosphate reactivity in patients with acute coronary syndromes on dual antiplatelet therapy, blood hematocrit and erythrocyte deformability effect on, 764
 clopidogrel responsiveness in patients with versus without chronic renal failure to, 1292
 response to aspirin and clopidogrel therapy, assessment, mechanisms, and clinical implication of variability in, 227
 thromboxane A₂ synthesis of, atorvastatin effect in aspirin-treated patients with acute myocardial infarction and, 1618
- Pomegranate juice, carotid artery intima-media thickness and consumption by men and women at moderate risk of coronary heart disease of, 936
- Porphyria, atrial fibrillation and, 373
- Pravastatin, leukocyte subtype counts and coronary atherosclerotic regression following treatment with, 464
- Pregnancy, low molecular weight heparin use in women with mechanical heart valves and, 1259
- Pregnancy-associated plasma protein A, in patients with acute coronary syndrome, 1465
- Prehypertension, 1105 (Editor's Roundtable)
- PROactive Experience (PROactive 14), long-term effects of pioglitazone measured by baseline anti-hyperglycemia medication therapy and statin use, 234
- Propofol infusion syndrome with arrhythmia, myocardial fat accumulation and cardiac failure, 1160
- Prospective population studies, of incident heart failure, value of orthopnea, paroxysmal nocturnal dyspnea, and medications in, 259
- Prostatic hypertrophy, benign, alpha 1-adrenergic antagonist use for and outcomes in patients with heart failure, 270
- PROTECT-TIMI 30 Substudy Analysis, timing and duration of myocardial ischemia on Holter monitoring following percutaneous coronary intervention and their association with clinical outcomes, 36
- Pro.V.A. Study, prevalence, functional impact, and mortality of atrial fibrillation in an older Italian population, 1092
- Pulmonary hypertension
 in patients with obstructive sleep apnea syndrome, frequency and impact of, 1300
 prospective echocardiography assessments and its potential etiologies in children with Sickle cell disease, 713
 usefulness of red cell distribution width as a prognostic marker in, 868
- Pulmonary valve, transcatheter implantation of, two-dimensional speckle tracking and strain rate imaging of effect on short-term right ventricular function after, 862
- Pulmonary vein isolation, segmental, for paroxysmal atrial fibrillation, five-year outcomes after, 366
- Pulse pressures, wide, usefulness as a predictor of poor outcome after renal artery angioplasty and stenting, 732
- QRS axis, frontal plane, identifying non-ST-elevation myocardial infarction in patients with poor R-wave progression and utility of, 190
- QRS duration, in patients with suspected coronary artery disease referred for noninvasive evaluation of myocardial ischemia, prognostic significance of, 1490
- QRS fragmentation
 on a 12-lead electrocardiogram, usefulness for predicting mortality in acute coronary syndrome, 1631
 in patients with repaired tetralogy of Fallot, 740 (Readers' Comments)
- QRS notching, in malignant versus benign electrocardiographic forms of early repolarization, 1402
- QRS width, optimization of the interventricular delay in cardiac resynchronization therapy using, 1407
- QT interval, corrected, before and after heart transplantation, 596
- Q waves, prognostic impact on presentation and ST resolution in patients with ST-elevation myocardial infarction treated with primary percutaneous coronary intervention, 780
- Race, trends in age-adjusted mortality from ST-segment elevation myocardial infarction in the United States (1988–2004) based on gender, infarct location, comorbidities and, 1030
- Radial artery, occlusion after transradial catheterization, effect of intra-arterial versus intravenous heparin on, 1083
- Radiation dose
 image quality of computed coronary tomographic angiography comparison of conventional helical scanning with sequential scanning protocol and, 1343
 increased, during percutaneous coronary intervention, predictors of, 1241
- Radiotrequency catheter ablation
 feasibility and safety of same-day home discharge after, 254
 for permanent atrial fibrillation of >2 years duration and left atrial size >5 cm using 2-mm irrigated tip ablation catheter and targeting areas of complex fractionated atrial electrograms, 683
- Ramipril, left ventricular mass and volume in patients with previous atherosclerotic events or with diabetes mellitus with telmisartan alone or in combination with (from the ONgoing Telmisartan Alone and in Combination with Ramipril Global Endpoint Trial [ONTARGET]), 1484
- Red blood cells, distribution width as prognostic marker in pulmonary hypertension, 868
- Renal failure, chronic, clopidogrel responsiveness in patients with versus without, 1292
- Renal insufficiency, mild, efficacy of single-bolus sodium bicarbonate to prevent contrast-induced nephropathy in patients undergoing an elective coronary procedure with, 921
- Renin-angiotensin system blockade, diabetes mellitus and, 835
- Reperfusion
 early, clinical benefit in patients with ST-segment elevation myocardial infarction usually excluded from randomized clinical trials (from the Maximal Individual Therapy in Acute Myocardial Infarction Plus [MITRA Plus] Registry), 1074
 mechanical, malignant ventricular arrhythmias in patients with acute right ventricular infarction undergoing, 1678
- Repolarization, early, QRS notching in malignant versus benign electrocardiographic forms of, 1402
- Restenosis, with bare-metal stents, impact of re-stenting strategies on expansion of a drug-eluting stent implanted to treat, 531
- Revascularization. *see* Percutaneous coronary intervention
- Right atrial remodeling, after Fontan operation, 1737
- Right ventricle, systemic, application of classic heart failure definitions of asymptomatic and symptomatic ventricular dysfunction and heart failure symptoms with preserved ejection fraction to patients with, 414
- Right ventricular dilation, left ventricular myocardial deformation in patients after surgical repair of tetralogy of Fallot and, 1264

- Right ventricular dysfunction
 asymptomatic and symptomatic, and heart failure symptoms with preserved ejection fractions, application to patients with systemic right ventricles, 414
 in transient stress cardiomyopathy, prevalence and clinical characteristics of, 133
- Right ventricular function, short-term, transcatheter pulmonary valve implantation effect as determined by two-dimensional speckle tracking strain and strain rate imaging on, 862
- Right ventricular pacing
 cardiac resynchronization therapy in patients with left bundle branch block versus, 1163 (Readers' Comments)
 chronic, long-term clinical response of cardiac resynchronization after, 116
- Rosuvastatin, safety and efficacy of achieving very low low-density lipoprotein cholesterol levels with 40 mg daily (from the ASTEROID Study), 29
- RR intervals, left ventricle performance with a history of heart failure in patients with atrial fibrillation, association of parameters derived from relation between, 959
- Runners, long-distance
 aged ≥ 55 years, predisposing factors and consequences of elevated biomarker levels in, 1434
 cytosolic release of cardiac troponin after marathons by, 742 (Readers' Comments)
- R-wave progression, poor, utility of the frontal plane QRS axis in identifying non-ST-elevation myocardial infarction in patients with, 190
- Sarcoidosis, necropsy findings in patients dying suddenly from cardiac sarcoidosis versus dying suddenly from other causes and with, 571
- Seasonal variations, in lipids, 739 (Readers' Comments)
- Should We Emergently Revascularize Occluded Coronary Arteries for Cardiogenic Shock Trial and Registry, cardiogenic shock without flow-limiting angiographic coronary artery disease, 24
- Sickle cell disease, prospective echocardiography assessment of pulmonary hypertension and its potential etiologies in children with, 713
- Simvastatin, and fenofibrate therapy for patients with combined hyperlipidemia, correlation of non-high-density lipoprotein cholesterol and low-density lipoprotein cholesterol with apolipoprotein B in patients with hyperlipidemia, 548
- Single ventricle physiology, biomarkers of heart failure in children with, 1280
- Sirolimus-eluting stents
 clinical outcomes after paclitaxel-eluting, bare metal, and (from the First Phase of the Prospective German Multicenter DES.DE Registry), 1362
 in patients with ST-elevation myocardial infarction, efficacy and safety of zotarolimus- versus paclitaxel- versus, 1370
- Sleep apnea syndrome, obstructive, frequency and impact of pulmonary hypertension in patients with, 1300
- Smoking, recurrence of atrial arrhythmias after cardioversion and, 678
- Sodium bicarbonate, single-bolus efficacy to prevent contrast-induced nephropathy in patients with mild renal insufficiency undergoing an elective coronary procedure, 921
- Statins
 acute effects on coronary atherosclerosis following an acute coronary syndrome of, 750
 arrhythmic events in patients with acute coronary syndromes, impact of prior therapy with (from the Global Registry of Acute Coronary Events [GRACE]), 1613
 in combination with ezetimibe to reduce the care gap in dyslipidemia management in patients with a high risk of atherosclerotic disease, 798
 for increasing high-density lipoprotein cholesterol, dalcetrapib safety and tolerability alone or in combination with, 82
 initiation for low-density lipoprotein cholesterol, combination therapy for optimal management of persistent mixed dyslipidemia after, 1695 (Editorial)
 long-term lipid effects of pioglitazone by baseline anti-hyperglycemia medication therapy and use of, from the PROactive Experience (PROactive 14), 234
 plasma triglycerides and cardiovascular events in the treating to new targets and incremental decrease in end-points through aggressive lipid lowering trials in patients with coronary artery disease of, 459
 randomized controlled trials in patients with heart failure, meta-analysis of placebo versus, 1708
- Stem cell transplantation, telemetry monitoring and arrhythmia frequencies and types in patients with systemic light-chain amyloidosis with cardiac involvement undergoing, 990
- Stenosis
 aortic
 comparison of heavier versus lighter operatively excised stenotic aortic valves in adults and implications for percutaneous aortic valve implantation without replacement, 393
 in fetal patients having in-utero aortic valvuloplasty, postnatal angiographic appearance of left ventricular myocardium in, 1271
 severe
 asymptomatic, meta-analysis of prognostic value of stress testing in patients with, 972
 balloon valvuloplasty effect on N-terminal pro-brain natriuretic peptide in patients with, 846
 percutaneous aortic valve replacement effects on coronary blood flow assessed by transesophageal Doppler echocardiography in patients with, 850
 carotid artery, effectiveness and safety of carotid artery stenting in patients with contralateral occlusion (from the German ALKK-CAS Registry Experience), 725
 combination lipid therapy effects on clinical cardiovascular events in coronary disease patients with metabolic syndrome and (combined analysis of the Familial Atherosclerosis Treatment Study [FATS], the HDL-Atherosclerosis Treatment Study [HATS], and the Armed Forces Regression Study [AFREGS]), 1457
 coronary artery
 comparison of dual-energy computed tomography of the heart with single photon emission computed tomography for assessment of, 318
 comparison of long versus short ("spot") drug-eluting stenting for, 786
 mitral, pre- and postprocedural mitral regurgitation impact on outcomes after percutaneous mitral valvuloplasty for, 1122
 quantification, accuracy of quantitative coronary angiography or intravascular ultrasound as the gold standard for, 1047
 renal artery, wide pulse pressure usefulness as a predictor of poor outcome after angioplasty and stenting for, 732
 significant, of left anterior descending coronary artery assessed by multidetector computed tomography, usefulness of coronary flow reserves measured by echocardiography to identify, 657
- STENTing and oral antiCOagulants (STENTICO), antiplatelet therapy in patients with anticoagulants undergoing percutaneous coronary stenting, 338
- Stents
 bare-metal (*see* Bare-metal stents)
 drug-eluting
 aspirin and clopidogrel resistance among patients with and without thrombosis due to, 525
 bare metal stent outcomes in coronary artery disease patients with and without human immunodeficiency virus versus, 216
 clopidogrel plus aspirin effectiveness at abolishing risk of very late thrombosis after implantation of (from the TYCOON [Two-Year CIOpidOgrel Need] Study), 1357
 frequency of repeat revascularization in patients with unstable angina pectoris or non-ST-elevation myocardial infarction and, 1654
 histopathology of clinical coronary restenosis in bare metal stents versus, 1660
 impact of different re-stenting strategies on expansion of a drug-eluting stent implanted to treat bare-metal stent restenosis, 531
 implantation in Koreans, relation of genetic polymorphisms in cytochrome P450 gene to clopidogrel resistance after, 46
 for long coronary stenoses, comparison of long versus short ("spot"), 786
 reasonable duration of clopidogrel use after implantation in Korean patients of, 1668
 strut distribution relation to stent thrombosis in coronary arteries, 342
 timing of noncardiac surgery after coronary artery stenting with bare-metal stents or, 1229
 gradual computerized angioplasty effect on outcomes of patients undergoing insertion of, 223

- implantation of, with percutaneous coronary intervention in patients with diabetes mellitus, prognostic value of hemoglobin A1C levels in, 41
- paclitaxel-eluting (*see* Paclitaxel-eluting stents)
- rapamycin- versus paclitaxel-eluting, in patients undergoing primary percutaneous coronary intervention for ST-elevation myocardial infarction, 205
- self-expanding Sideguard side branch, serial intravascular ultrasound analysis of bifurcation lesions treated using, 1216
- sirolimus-eluting (*see* Sirolimus-eluting stents)
- transradial coronary, with maximal antiplatelet therapy for acute coronary syndrome, comparison of outcomes in patients ≥ 70 years versus < 70 years after, 624
- zotarolimus-eluting, in patients with ST-elevation myocardial infarction, efficacy and safety of sirolimus- versus paclitaxel- versus, 1370
- Stethoscope, René Laennec (1781–1826) and the invention of, 743 (Readers' Comments)
- Stress, interaction of left ventricular geometry and myocardial ischemia in the response of myocardial deformation to, 897
- Stress cardiomyopathy, transient, prevalence and clinical characteristics of right ventricular dysfunction in, 133
- Stress testing
- bone mineral density and myocardial ischemia induced by, 199
 - in patients with asymptomatic severe aortic stenosis, meta-analysis of prognostic value of, 972
 - relation between Framingham risk categories and the presence of functionally relevant coronary lesions as determined on multislice computed tomography and, 758
- Stroke
- acute ischemic, natriuretic peptide testing for long-term risk assessment following, 287
 - after noncardiac surgery, effect of chronic beta-blocker use on, 429
 - associated with percutaneous coronary intervention, incidence and predictors of, 349
 - transcatheter patent foramen ovale closure in patients with migraine headaches and with moderate to large right-to-left shunt and damage due to, 434
- Strong Heart Study, prognostic value of multiple biomarkers in American Indians free of clinically overt cardiovascular disease, 247
- ST-segment myocardial infarction
- accelerated idioventricular rhythm prevalence and significance in patients treated with primary percutaneous coronary intervention for, 1641
- acute
- coronary collaterals' effect on microvascular obstruction as assessed by magnetic resonance imaging in patients treated with primary coronary intervention for, 1204
 - erythropoietin to augment myocardial salvage induced by coronary thrombolysis in patients with, 1035
 - rate in the United States from 1988 to 2004 (from the Nationwide Inpatient Sample), 5
 - in the United States (1988–2004) based on race, gender, infarct location and comorbidities, trends in the age-adjusted mortality from, 1030
 - cardiac troponin I measurements at 24 and 48 hours relation to magnetic resonance-determined infarct size in patients with, 1472
 - clinical benefit of early reperfusion therapy in patients usually excluded from randomized clinical trials with (from the Maximal Individual Therapy in Acute Myocardial Infarction Plus [MITRA Plus] Registry), 1074
 - door-to-balloon time and mortality in patients ≥ 65 years undergoing primary percutaneous coronary intervention for, 1199
 - efficacy and safety of zotarolimus-, sirolimus-, and paclitaxel-eluting stents in patients with, 1370
 - high-dose clopidogrel pretreatment in patients undergoing primary angioplasty for, 514
 - long term mortality after percutaneous coronary intervention in patients treated for unstable and stable angina pectoris versus, 333
 - multiple culprit arteries in patients referred for primary percutaneous coronary intervention with, 619
 - myeloperoxidase as predictor of systemic inflammatory response syndrome after primary percutaneous coronary intervention in patients with, 634
 - myocardial infarct size and ventricular tachyarrhythmia among patients with preserved left ventricular ejection fraction following fibrinolytic therapy for, 475
 - prevalence, predictors, and in-hospital outcomes of non-infarct artery intervention during primary percutaneous coronary intervention for (from the National Cardiovascular Data Registry), 507
 - prognostic impact of Q waves on presentation and ST resolution in patients treated with primary percutaneous coronary intervention for, 780
 - rapamycin- versus paclitaxel-eluting stents in patients undergoing primary percutaneous coronary intervention for, 205
 - relation of plasma brain natriuretic peptide levels on admission for ST-elevation myocardial infarction to left ventricular end-diastolic volume six months later measured by both echocardiography and cardiac magnetic resonance, 878
- Suicidality, in patients with cardiovascular illnesses, screening for depression or, 1194
- Supersaturation oxygenation, intracoronary, in acute myocardial infarction, 791 (Editor's Roundtable)
- Supraventricular tachycardia, meta-analysis of ablation of atrial flutter and, 671
- Surgery, noncardiac
- after coronary artery stenting with bare metal or drug-eluting stents, timing of, 1229
 - chronic beta-blocker use on stroke after, 429
- Swiss Interventional Study on Silent Ischemia Type II (SWISS II), sudden cardiac death in patients with silent myocardial ischemia after myocardial infarction, 158
- Tachyarrhythmias. *see also* Arrhythmias
- implanted defibrillator-terminated ventricular, relation of 12-lead electrocardiogram patterns in hypertrophic cardiomyopathy to, 1722
 - non-Hodgkin lymphoma and, 450
 - ventricular, and myocardial infarct size among patients with preserved left ventricular ejection fraction following fibrinolytic therapy for ST-segment elevation myocardial infarction, 475
- Tachycardia
- focal atrial, gender differences of electrophysiological characteristics in, 97
 - supraventricular, meta-analysis of ablation of atrial flutter and, 671
- Takotsubo (stress) cardiomyopathy
- clinical characteristics of, 578
 - left ventricular dysfunction assessment in, 1163 (Readers' Comments)
- Takotsubo left ventricular contraction pattern, acute occlusion of the left anterior descending coronary artery and, 202
- Telmisartan, left ventricular mass and volume in patients with previous atherosclerotic events or with diabetes mellitus with ramipril alone or in combination with (from the ONgoing Telmisartan Alone and in Combination with Ramipril Global Endpoint Trial [ONTARGET]), 1484
- Tetralogy of Fallot
- repaired, QRS fragmentation in patients with, 740 (Readers' Comments)
 - right ventricular dilation impact on left ventricular myocardial deformation in patients after surgical repair of, 1264
- Thiazolidinedione, relation of severe coronary artery narrowing to insulin use in patients with type 2 diabetes mellitus or (from the Bypass Angioplasty Revascularization Investigation 2 Diabetes Study), 52
- Thrombocytopenia
- contribution of bleeding and thromboembolic events to in-hospital mortality among patients treated with heparin experiencing, 292
 - in-hospital, during heparin-based anticoagulation, six-month follow-up of patients with (from the Complications After Thrombocytopenia Caused by Heparin [CATCH] Registry), 1285
- Thrombolysis, in patients with ST-segment elevation acute myocardial infarction, erythropoietin to augment myocardial salvage induced by, 1035
- Thrombosis
- drug-eluting stent, aspirin and clopidogrel resistance among patients with and without, 525
 - stent
 - after acute coronary syndrome in clopidogrel-treated patients, predictive values of post-treatment adenosine diphosphate-induced aggregation and vasodilator-stimulated phosphoprotein index for, 1078

- in coronary arteries, drug-eluting stent strut distribution relation to, 342
 very late, after drug-eluting stent implantation, clopidogrel plus aspirin effectiveness at abolishing risk of (from the TYCOON [Two-Year CIOpidOgreI Need] Study), 1357
- Thromboxane A₂, platelet synthesis of, atorvastatin effect in aspirin-treated patients with acute myocardial infarction and, 1618
- Thrombus, left atrial, risk in patients with atrial fibrillation, body mass index and, 1699
- Tirofiban, plus unfractionated heparin versus bivalirudin monotherapy in patients with diabetes mellitus undergoing elective percutaneous coronary intervention, 1222
- Traffic exposure, T-wave alternans and air pollution in high-risk patients and, 665
- Transient ischemic attacks, transcatheter patent foramen ovale closure in patients with migraine headaches and with moderate to large right-to-left shunt and damage due to, 434
- Transposition of the great arteries
 congenitally corrected, impact of prenatal versus postnatal diagnosis of, 1276
 exercise capacity determinants after arterial switch operation for, 1007
 operated with arterial switch, ventricular function in patients with, 583
- Triage, early, age and gender usefulness in patients with acute chest pain having cardiac computed tomographic angiography during, 1165
- Tricuspid regurgitation, persistent, and its predictor in adults after percutaneous and isolated surgical closure of secundum atrial septal defect, 856
- Triglycerides
 plasma levels, and cardiovascular events in the treating to new targets and incremental decrease in end-points through aggressive lipid lowering trials of statins in patients with coronary artery disease, 459
 for predicting first coronary event in men, ratio of high-density lipoprotein cholesterol to, 1393
 serum levels after initiation of lipid-altering therapy targeting low-density cholesterol, National Cholesterol Education Program Adult Treatment Panel III Goals and, 1689
- Triple antithrombotic therapy, in acute coronary syndromes, patient characteristics associated with the choice of, 1171
- Troponin
 cardiac, cytosolic release after marathon running, 742 (Readers' Comments)
 negative 12-hour, safety of contrast in stress echocardiography in stable patients and in patients with suspected acute coronary syndrome but with, 14
- Troponin I
 borderline elevated levels across different assays in patients with suspected acute coronary syndrome, clinical significance of, 164
 elevated, diagnosis of acute myocardial infarction and frequency of, 9
 measurements at 24 and 48 hours relation to magnetic resonance-determined infarct size in patients with ST-elevation myocardial infarction, 1472
 serum levels following nonemergent percutaneous coronary intervention, relation to short- and long-term outcomes, 1210
- T-wave alternans, air pollution and traffic in high-risk subjects, 665
- Twin studies, male, heart rate variability and C-reactive protein levels in, C-reactive protein gene polymorphisms and, 1748
- TYCOON (Two-Year CIOpidOgreI Need) Study, clopidogrel plus aspirin effectiveness at abolishing risk of very late thrombosis after drug-eluting stent implantation, 1357
- Tyrosine kinase-1, soluble Fms-like, as biomarker of acute heart failure in patients with acute myocardial infarction, 1478
- Ultrasound. *see* Intravascular ultrasound
- United States
 decompensated heart failure in a single community in northeastern, epidemiology of, 377
 sudden cardiac death of young competitive athletes in Italy versus, implications for preparticipation screening strategies and, 276
 trends (1988–2004) in age-adjusted mortality from ST-segment elevation myocardial infarction based on race, gender, infarct location, and comorbidities in, 1030
- Uric acid, serum level, usefulness of combining C-reactive protein for risk stratification of patients with coronary artery disease with (Bezafibrate Infarction Prevention [BIP] Study), 194
- Urotensin II, serum levels, lone atrial fibrillation and, 1704
- Valsartan, beta blocker usefulness in conjunction with captopril in high-risk patients after myocardial infarction and/or (from the VALsartan In Acute Myocardial Infarction [VALIANT] Trial), 151
- Valves, mechanical prosthetic
 low molecular weight heparin use in pregnant women with, 1259
 obstruction in, multidetector-row computed tomography compared to echocardiography and fluoroscopy for evaluation of, 1128
 safety of subcutaneous enoxaparin as outpatient anticoagulation bridging therapy in patients with nonvalvular atrial fibrillation versus with, 1429
- Valvular heart disease, native, cardiac computed tomographic angiography compared to transesophageal evaluation of patients with native, 1421
- Valvuloplasty, balloon, in patients with severe aortic stenosis, N-terminal pro-brain natriuretic peptide levels and, 846
- Vena contracta area, direct measurement by real-time 3-dimensional echocardiography for assessing severity of mitral regurgitation, 978
- Ventricular arrhythmia, alcohol septal ablation for obstructive hypertrophic cardiomyopathy and, 128
- Vitamin D, periodontitis, atherosclerotic cardiovascular disease and, 1164 (Readers' Comments)
- Vitamins, long-term outcome of patients with coronary artery disease and homocysteine-lowering therapy with, 745
- Vomiting, infarct location in acute myocardial infarction and, 1638
- Waist-to-height ratio, utility in detecting central obesity and related adverse cardiovascular risk profile among normal weight younger adults (from the Bogalusa Heart Study), 721
- Women
 ≥60 years of age, C-reactive protein usefulness for guiding treatment in, 354
 aspirin resistance in healthy drug-naive women versus (from the Heredity and Phenotype Intervention Heart Study), 606
 body composition, cardiorespiratory fitness, and low-grade inflammation in middle-aged men and, 240
 comparison of men with acute coronary syndrome in six Middle Eastern countries to, 1018
 pregnant, with mechanical heart valves, low molecular weight heparin use in, 1259
 with recurrence of atrial arrhythmias after cardioversion, smoking role in, 678
- Worksite wellness programs, impact on cardiac risk factors and one-year health care costs of, 1389