# SUBJECT INDEX

## A

**Abdominal aortic aneurysm**
- Prevalence and Prognosis of Asymptomatic Coronary Artery Disease in Patients With Abdominal Aortic Aneurysm and Minor or No Perioperative Risks 1203

**Ablation**
- Noncontact-Mapping-Guided Catheter Ablation of Atrial Fibrillation 233
- Real-Time 3-Dimensional Imaging of the Esophagus and Left Atrium With a Noncontact Mapping System 826

**Acetylcholine**
- Vascular Dilation Responses of Rat Small Mesenteric Arteries at High Intravascular Pressure in Spontaneously Hypertensive Rats 2091

**Acute coronary syndrome (ACS)**
- Clinical Implications of Electrocardiograms for Patients With Non-ST-Segment Elevation Acute Coronary Syndromes in the Interventional Era 798
- Early, Accurate, Non-Invasive Predictors of Left Main or 3-Vessel Disease in Patients With Non-ST-Segment Elevation Acute Coronary Syndrome 1105
- Comparison of Low vs Moderate Dose of Atorvastatin in Clopidogrel Resistance After Coronary Stenting in Korean Patients With Acute Coronary Syndrome 1111
- Impact of Severe Earthquake on the Occurrence of Acute Coronary Syndrome and Stroke in a Rural Area of Japan: Experience From the Noto Peninsula Earthquake 1243
- Incremental Effects of Eicosapentaenoic Acid on Cardiovascular Events in Statin-Treated Patients With Coronary Artery Disease: Secondary Prevention Analysis From JELIS 1283
- Relationship Between Coronary Arterial Remodeling, Fibrous Cap Thickness and High-Sensitivity C-Reactive Protein Levels in Patients With Acute Coronary Syndrome 1291
- Impact of Metabolic Syndrome on 10-Year Clinical Outcomes Among Patients With Acute Coronary Syndrome 1454
- Expression Levels of Toll-Like Receptor Genes in Coronary Atherosclerotic Lesions of Patients With Acute Coronary Syndrome or Stable Angina Pectoris 1479
- High Ratio of Myeloid Dendritic Cells to Plasmacytoid Dendritic Cells in Blood of Patients With Acute Coronary Syndrome 1914
- Erythropoietin in Patients With Acute Coronary Syndrome and Its Cardioprotective Action After Percutaneous Coronary Intervention 1920
- Increased Epicardial Fat Volume Quantified by 64-Multidetector Computed Tomography is Associated With Coronary Atherosclerosis and Totally Occlusive Lesions 1927
- Effects of Intravenous Nifeklant as a Lifesaving Drug for Severe Ventricular Tachyarrhythmias Complicating Acute Coronary Syndrome 2021

**Acute decompensated heart failure**
- Effects of Long-Term Intravenous Administration of Adrenomedullin (AM) Plus hANP Therapy in Acute Decompensated Heart Failure: A Pilot Study 892
- Effect of Carperitide on Plasma Adiponectin Levels in Acute Decompensated Heart Failure Patients With Diabetes Mellitus 2264
- A Simple Risk Score to Predict In-Hospital Death of Elderly Patients With Acute Decompensated Heart Failure: Hypoalbuminemia as an Additional Prognostic Factor 2276

**Acute myocardial infarction (AMI)**
- Effects of Pretreatment With Statins on Infarct Size in Patients With Acute Myocardial Infarction Who Receive Fibrinolytic Therapy 330
- Current Status of Emergency Care for ST-Elevation Myocardial Infarction in an Urban Setting in Japan 484
- Elevation of Plasma Granzyme B Levels After Acute Myocardial Infarction: Correlation With Left Ventricular Remodeling 503
- Level and Prognostic Value of Serum Myeloperoxidase in Patients With Acute Myocardial Infarction Undergoing Primary Percutaneous Coronary Intervention 726
- Nicorandil Treatment in Patients With Acute Myocardial Infarction: A Meta-Analysis 925
- Role of Stromal Cell-Derived Factor-1α, Level and Value of Circulating Interleukin-10 and Endothelial Progenitor Cells in Patients With Acute Myocardial Infarction Undergoing Primary Coronary Angioplasty 1097
- Why Do We Still Not Have Cardioprotective Drugs? 1171
- Diabetes Mellitus as a Predictor of Retinopathy Associated With Acute Myocardial Infarction 1278
- Relationship Between Coronary Arterial Remodeling, Fibrous Cap Thickness and High-Sensitivity C-Reactive Protein Levels in Patients With Acute Coronary Syndrome 1291
- Thrombus Aspiration Complicated by Systemic Embolization in Patients With Acute Myocardial Infarction 1356
- Branch Segment Occlusion With Acute Myocardial Infarction is a Risk for Left Ventricular Free Wall Rupture 1473
- Prognostic Significance of Cystatin C in Patients With ST-Elevation Myocardial Infarction 1669
- Spontaneous and Simultaneous Multivessel Coronary Spasm Causing Multisite Myocardial Infarction, Cardiogenic Shock, Atrioventricular Block, and Ventricular Fibrillation 1961
- Safety and Efficacy of Transradial vs Transfemoral Arterial Primary Coronary Angioplasty for Acute Myocardial Infarction: Single-Center Experience 2050
- Successful Percutaneous Intervention to Acute Myocardial Infarction Presenting With Typical Chest Pain in Transplanted Heart 2166
- Lack of Clinical Benefit of Improved Angiographic Results With Sirolimus-Eluting Stents Compared With Paclitaxel and Zotarolimus-Eluting Stents in Patients With Acute Myocardial Infarction Undergoing Percutaneous Coronary Intervention 2229
- Partial vs Full Coverage for Tandem Lesions in Culprit Vessel During Primary Coronary Intervention in Patients With Acute ST-Elevation Myocardial Infarction: The PERFECT-AMI Study 2236

**Adaptive immunity**
- Immune System and Atherosclerotic Disease: Heterogeneity of Leukocyte Subsets Participating in the Pathogenesis of Atherosclerosis 994

**Adiponectin**
- Adipokines, Myokines and Cardiovascular Disease 13
- Pioglitazone Reduces the Necrotic-Core Component in Coronary Plaque in Association With Enhanced Plasma Adiponectin in Patients With Type 2 Diabetes Mellitus 343
- Adiponectin and Cardiovascular Disease 608
- Effect of Clopidogrel Treatment on Adiponectin and Soluble CD40 Ligand Levels in Diabetic Patients With Peripheral Arterial Occlusion Disease 948
- Effect of Carvedilol on Plasma Adiponectin Concentration in
Autonomic nervous system

Atrial flutter

Biomarkers

Blood flow

Blood pressure

Blood volume

Body mass index

Brain natriuretic peptide

Brugada syndrome

Calcium

Cardiac amyloidosis

Vein Isolation Technique 1606

Atrial Function During Different Multisite Atrial Pacing Modalities in Patients With Bradyarrhythmias 2029

Effects of Atrial Fibrillation on Long-Term Outcomes in Patients Hospitalized for Heart Failure in Japan: A Report From the Japanese Cardiac Registry of Heart Failure in Cardiology (JCARE-CARD) 2084

Effect of Preoperative Atorvastatin Therapy on Atrial Fibrillation Following Off-Pump Coronary Artery Bypass Grafting 2244

Atrial flutter

Cavotricuspid Isthmus Conduction Split by Pouch-Like Recesses During Typical Atrial Flutter 179

Noninvasive Characterization of Intra-Atrial Reentrant Tachycardias After Surgical Repair of Congenital Heart Diseases 451

Action Potential Characteristics in the Sinus Venosa of Patients With and Without Atrial Flutter 647

Atrial septal defect

Left Ventricular Torsion in Patients With Secundum Atrial Septal Defect 1308

Atrium

Infiltration of Macrophages Through the Atrial Endocardium of Inflammation-Induced Rats: Contribution of Fractalkine 932

Autonomic nervous system

Vagal Effects on the Occurrence of Focal Atrial Fibrillation Originating From the Pulmonary Veins 48

Influence of Autonomic Stimulation on the Genesis of Atrial Fibrillation in Remodeled Canine Atria not the Same as in Normal Atria 468

Vagal Modification Can Also Help Prevent Late Recurrence of Atrial Fibrillation After Segmental Pulmonary Vein Isolation 632

Vagal Modification can be a Valid Predictor of Late Recurrence of Paroxysmal Atrial Fibrillation Independent of the Pulmonary Vein Isolation Technique 1606

Sex/Gender Medicine: The Biological Basis for Personalized Care in Cardiovascular Medicine 1774

Bag-valve-mask

Comparison of Arterial Blood Gases of Laryngeal Mask Airway and Bag-Valve-Mask Ventilation in Out-of-Hospital Cardiac Arrests 490

Beat-to-beat blood pressure

Measurement of Hemodynamics During Postural Changes Using a New Wearable Cephalic Laser Blood Flowmeter 1950

Bepridil

Dose-Response Effects of Bepridil in Patients With Persistent Atrial Fibrillation Monitored With Transthoracic Electrocardiograms: A Multicenter, Randomized, Placebo-Controlled, Double-Blind Study (J-BAF Study) 1020

Two Patients With Bepridil-Induced Interstitial Pneumonia 1352

Opposing Effects of Bepridil on Ventricular Repolarization in Humans: Inhomogeneous Prolongation of the Action Potential Duration vs Flattening of Its Restitution Kinetics 1612

Biomarkers

Cardiovascular Diagnostic Biomarkers: The Past, Present and Future 806

Biopsy

Intracardiac Echocardiography-Guided Cardiac Tumor Biopsy 381

Blood flow

Important Regulatory Role of Activated Platelet-Derived Procoagulant Activity in the Propagation of Thrombi Formed Under Arterial Blood Flow Conditions 540

Vascular Mechanobiology: Endothelial Cell Responses to Fluid Shear Stress 1983

Blood pressure

Influence of Systolic Blood Pressure and Cigarette Smoking on Endothelial Function in Young Healthy People 174

Change in Blood Pressure Just After Initiation of Cardiac Resynchronization Therapy Predicts Long-Term Clinical Outcome in Patients With Advanced Heart Failure 288

Orthostatic Hypertension: A Measure of Blood Pressure Variation for Predicting Cardiovascular Risk 1002

Interaction of ADIPOQ Genetic Polymorphism With Blood Pressure and Plasma Cholesterol Level on the Risk of Coronary Artery Disease 1934

Blood volume

Angiotensin II Receptor Blocker, Valsartan, Increases Myocardial Blood Volume and Regresses Hypertrophy in Hypertensive Patients 2098

Body mass index

Lipoprotein Metabolism, Insulin Resistance, and Adipocytokine Levels in Japanese Female Adolescents With a Normal Body Mass Index and High Body Fat Mass 534

Waist Circumference and Waist-to-Height Ratio as Predictors of Cardiovascular Disease Risk in Korean Adults 1643

Brain natriuretic peptide

Effects of Long-Term Intravenous Administration of Adrenomedullin (AM) Plus hANP Therapy in Acute Decompensated Heart Failure: A Pilot Study 892

Effect of Carvedilol on Plasma Adiponectin Concentration in Patients With Chronic Heart Failure 1067

Dose-Dependent Prognostic Effect of Carvedilol in Patients With Chronic Heart Failure: Special Reference to Ranscardiac Gradient of Noradrenaline 2270

Brugada syndrome

Long-Term Electrocardiographic Follow-up From Childhood of an Adult Patient With Brugada Syndrome Associated With Sick Sinus Syndrome: A Case Report 575

Action Potential Alternans in the Right Ventricular Outflow Tract in a Patient With Asymptomatic Brugada Syndrome 580

Dynamic Change in ST-Segment and Spontaneous Occurrence of Ventricular Fibrillation in Brugada Syndrome With a Novel Nonsense Mutation in the SCN5A Gene During Long-Term Follow-up 584

Phenotypic Overlap of Cardiac Sodium Channelopathies: Individual-Specific or Mutation-Specific? 810

Significance of Early Onset and Progressive Increase of Activation Delay During Premature Stimulation in Brugada Syndrome 1408

A Predictor of Positive Drug Provocation Testing in Individuals With Saddle-Back Type ST-Segment Elevation 1836

Calcium

The Pathological Role of Transient Receptor Potential Channels in Heart Disease 419

Important Regulatory Role of Activated Platelet-Derived Procoagulant Activity in the Propagation of Thrombi Formed Under Arterial Blood Flow Conditions 540

From the Ryanodine Receptor to Cardiac Arrhythmias 1561

Cardiac amyloidosis

Cardiac Amyloidosis Presumptively DIAGNOSED as Cardiac Syndrome X 1349
Cardiac function
- A 50-Year Research Journey: From Laboratory to Clinic
- Hemodynamic and Echocardiographic Evaluation of Orthotopic Heart Transplantation With the Modified Bicaval Anastomosis Technique
- Erythropoietin in Patients With Acute Coronary Syndrome and Its Cardioprotective Action After Percutaneous Coronary Intervention
- Valve Repair Improves Central Sleep Apnea in Heart Failure Patients With Valvular Heart Diseases

Cardiac index
- Long-Term Epoprostenol Therapy in Pulmonary Artery Hypertension: Sequence of Changes in Hemodynamic Effects

Cardiac output
- A 50-Year Research Journey: From Laboratory to Clinic
- Whole Body Bioimpedance Monitoring for Outpatient Chronic Heart Failure Follow up

Cardiac rehabilitation
- Health-Related Quality of Life in Patients With Coronary Heart Disease After Residual vs Ambulatory Cardiac Rehabilitation

Cardiac resynchronization therapy
- Change in Blood Pressure Just After Initiation of Cardiac Resynchronization Therapy Predicts Long-Term Clinical Outcome in Patients With Advanced Heart Failure
- Quantitative Assessment of Dysynchrony Using ECG-Gated SPECT Myocardial Perfusion Imaging Prior to and Following Cardiac Resynchronization Therapy
- Successful Cardiac Resynchronization Therapy in a 3-Year-Old Girl With Isolated Left Ventricular Non-Compaction and Narrow QRS Complex: A Case Report

Cardiomyopathy
- Left Ventricular Noncompaction
- Mutational Analysis of Fukutin Gene in Dilated Cardiomyopathy and Hypertrophic Cardiomyopathy
- Novel LAMP-2 Mutation in a Family With Danon Disease Presenting With Hypertrophic Cardiomyopathy
- Short-Term Amiodarone Treatment Attenuates the Production of Monocyte Cytokines and Chemokines by C-Reactive Protein and Improves Cardiac Function in Patients With Idiopathic Dilated Cardiomyopathy and Ventricular Tachycardia
- Hemodynamic and Echocardiographic Evaluation of Orthotopic Heart Transplantation With the Modified Bicaval Anastomosis Technique
- Myocardial Recovery by Mechanical Unloading With Left Ventricular Assist System
- Radiofrequency Catheter Ablation of Supraventricular Tachycardia in Infants and Toddlers
- Correlation Between Left Ventricular Diastolic Function and Ejection Fraction in Dilated Cardiomyopathy Using Magnetic Resonance Imaging With Late Gadolinium Enhancement
- Isolated Non-Compaction of the Ventricular Myocardium Associated With Long QT Syndrome: A Report of 2 Cases

Cardiopulmonary bypass
- Patient Selection and Therapeutic Strategy for Emergency Percutaneous Cardiopulmonary System in Cardiopulmonary Arrest Patients

Cardiopulmonary resuscitation
- Patient Selection and Therapeutic Strategy for Emergency Percutaneous Cardiopulmonary System in Cardiopulmonary Arrest Patients

Cardiovascular diseases
- Outcome of Less Invasive Proximal Arch Replacement With Moderate Hypothermic Circulatory Arrest Followed by Aggressive Rapid Re-Warming in Emergency Surgery for Type A Aortic Dissection
- Endothelial Function and Oxidative Stress in Cardiovascular Diseases
- Aortic Pulse Wave Velocity Predicts Cardiovascular Mortality in Middle-Aged and Elderly Japanese Men
- Adiponectin and Cardiovascular Disease
- Metabolic Syndrome and All-Cause and Cardiovascular Disease Mortality: Japan Public Health Center-Based Prospective (JPHC) Study
- Nitric Oxide Synthases and Cardiovascular Diseases: Insights From Genetically Modified Mice
- Orthostatic Hypertension: A Measure of Blood Pressure Variation for Predicting Cardiovascular Risk
- High-Normal Blood Pressure and the Risk of Cardiovascular Disease
- Associations Between Metabolic Syndrome and Mortality From Cardiovascular Disease in Japanese General Population, Findings on Overweight and Non-Overweight Individuals: Ibaraki Prefectural Health Study
- Waist Circumference and Waist-to-Height Ratio as Predictors of Cardiovascular Disease Risk in Korean Adults
- Carotid Magnetic Resonance Imaging: A Window to Study Atherosclerosis and Identify High-Risk Plaques
- Angiopoietin-Like Proteins: Potential Therapeutic Targets for Metabolic Syndrome and Cardiovascular Disease

Cardiovascular events
- Prognostic Significance of Plasma Osteopontin Levels in Patients Undergoing Percutaneous Coronary Intervention
- Elevated Serum Uric Acid is an Independent Predictor for Cardiovascular Events in Patients With Severe Coronary Artery Stenosis: Subanalysis of the Japanese Coronary Artery Disease (JCAD) Study
- Carotid arteries
- Carotid Magnetic Resonance Imaging: A Window to Study Atherosclerosis and Identify High-Risk Plaques
- Carotid intima-media thickness
- Rationale and Design of the Carotid Plaque in Human for All Evaluations With Aggressive Rosuvastatin Therapy (CHALLENGER Trial): Evaluation by Magnetic Resonance Imaging
- Diagonal Ear-Lobe Crease is Correlated With Atherosclerotic Changes in Carotid Arteries

Carvedilol
- Carvedilol Reduces the Severity of Central Sleep Apnea in Chronic Heart Failure
- Effect of Carvedilol on Plasma Adiponectin Concentration in Patients With Chronic Heart Failure
- Dose-Dependent Prognostic Effect of Carvedilol in Patients With Chronic Heart Failure: Special Reference to Ranscardiac Gradient of Norepinephrine

Catecholamines
- Morphologically Unique Feature of Recurrent Ampulla (Takotsubo) Cardiomyopathy
- Upregulation of Heme Oxygenase-1 in an Animal Model of Takotsubo Cardiomyopathy
- Striking Observations During Emergency Catecholamine Treatment of Cardiac Syncope in a Patient With Initially Unrecognized Takotsubo Cardiomyopathy

Catheter ablation
- Cavotricuspid Isthmus Conduction Split by Pouch-Like Recesses During Typical Atrial Flutter
- Complications in the Catheter Ablation of Atrial Fibrillation: Incidence and Management
- Noncontact Mapping-Guided Catheter Ablation of Atrial Fibrillation
- Hybrid Epicardial and Endocardial Catheter Ablation in a Patient

Adiponectin and Cardiovascular Disease

Metabolic Syndrome and All-Cause and Cardiovascular Disease Mortality: Japan Public Health Center-Based Prospective (JPHC) Study

Nitric Oxide Synthases and Cardiovascular Diseases: Insights From Genetically Modified Mice

Orthostatic Hypertension: A Measure of Blood Pressure Variation for Predicting Cardiovascular Risk

High-Normal Blood Pressure and the Risk of Cardiovascular Disease

Associations Between Metabolic Syndrome and Mortality From Cardiovascular Disease in Japanese General Population, Findings on Overweight and Non-Overweight Individuals: Ibaraki Prefectural Health Study

Waist Circumference and Waist-to-Height Ratio as Predictors of Cardiovascular Disease Risk in Korean Adults

Carotid Magnetic Resonance Imaging: A Window to Study Atherosclerosis and Identify High-Risk Plaques

Angiopoietin-Like Proteins: Potential Therapeutic Targets for Metabolic Syndrome and Cardiovascular Disease

Prognostic Significance of Plasma Osteopontin Levels in Patients Undergoing Percutaneous Coronary Intervention

Elevated Serum Uric Acid is an Independent Predictor for Cardiovascular Events in Patients With Severe Coronary Artery Stenosis: Subanalysis of the Japanese Coronary Artery Disease (JCAD) Study

Carotid arteries

Carotid Magnetic Resonance Imaging: A Window to Study Atherosclerosis and Identify High-Risk Plaques

Carotid intima-media thickness

Rationale and Design of the Carotid Plaque in Human for All Evaluations With Aggressive Rosuvastatin Therapy (CHALLENGER Trial): Evaluation by Magnetic Resonance Imaging

Diagonal Ear-Lobe Crease is Correlated With Atherosclerotic Changes in Carotid Arteries

Carvedilol

Carvedilol Reduces the Severity of Central Sleep Apnea in Chronic Heart Failure

Effect of Carvedilol on Plasma Adiponectin Concentration in Patients With Chronic Heart Failure

Dose-Dependent Prognostic Effect of Carvedilol in Patients With Chronic Heart Failure: Special Reference to Ranscardiac Gradient of Norepinephrine

Catecholamines

Morphologically Unique Feature of Recurrent Ampulla (Takotsubo) Cardiomyopathy

Upregulation of Heme Oxygenase-1 in an Animal Model of Takotsubo Cardiomyopathy

Striking Observations During Emergency Catecholamine Treatment of Cardiac Syncope in a Patient With Initially Unrecognized Takotsubo Cardiomyopathy

Catheter ablation

Cavotricuspid Isthmus Conduction Split by Pouch-Like Recesses During Typical Atrial Flutter

Complications in the Catheter Ablation of Atrial Fibrillation: Incidence and Management

Noncontact Mapping-Guided Catheter Ablation of Atrial Fibrillation

Hybrid Epicardial and Endocardial Catheter Ablation in a Patient
Subject Index

With Atrial Fibrillation and Suspicious Left Atrial Thrombus 384
• Metabolic Syndrome and Risk of Recurrence of Atrial Fibrillation After Catheter Ablation 438
• New Access for Radiofrequency Catheter Ablation of Left-Sided Atrioventricular Accessory Pathways: Safety and Efficacy of the Transradial Approach 833
• Quantitative Analysis and Characteristics of the Electromagnets Recorded Within the Non-Coronary Aortic Sinus of Valsalva 838
• Comparison of Endocardial and Epicardial Lesion Size Following Large-Tip and Extra-Large-Tip Transcatheter Cryoablation 1619
• Radiofrequency Catheter Ablation of Supraventricular Tachycardia in Infants and Toddlers 1717

Catheterization
• A 50-Year Research Journey: From Laboratory to Clinic 3
• Catheters
  • Evaluation of Coronary Endothelial Function by Catheter-Type NO Sensor in High-Fat-Diet-Induced Obese Dogs 562

Cerebrovascular circulation
• Asymptomatic Cerebral Microbleeds Seen in Healthy Subjects Have a Strong Association With Asymptomatic Lacunar Infarction 530

Chemokines
• Infiltration of Macrophages Through the Atrial Endocardium of Inflammation-Induced Rats: Contribution of Fractalkine 932

Chemotherapy
• Successful Combined Treatment of Primary Cardiac Malignant Lymphoma With Urgent Cardiac Operation and Chemotherapy 967

Cholesterol
• Interaction of ADIPOQ Genetic Polymorphism With Blood Pressure and Plasma Cholesterol Level on the Risk of Coronary Artery Disease 1934

Chronic heart failure
• Long Term Prognosis of Chronic Heart Failure: Reduced vs Preserved Left Ventricular Ejection Fraction 92
• Carvedilol Reduces the Severity of Central Sleep Apnea in Chronic Heart Failure 295
• Effect of Carvedilol on Plasma Adiponectin Concentration in Patients With Chronic Heart Failure 1067
• Dose-Dependent Prognostic Effect of Carvedilol in Patients With Chronic Heart Failure: Special Reference to Ranscardiac Gradient of Norepinephrine 2270

Chronic heart transplant rejection
• The CardioWest Total Artificial Heart for Chronic Heart Transplant Rejection 1167

Cilostazol
• Effect of Cilostazol Treatment on Adiponectin and Soluble CD40 Ligand Levels in Diabetic Patients With Peripheral Arterial Occlusion Disease 948

Circadian blood pressure rhythm
• Relation Between Abnormalities in Circadian Blood Pressure Rhythm and Target Organ Damage in Normotensives 899

Claudication
• Patients With Peripheral Artery Disease Who Complete 12-Week Supervised Exercise Training Program Show Reduced Cardiovascular Mortality and Morbidity 167

Clopidogrel
• Clopidogrel Resistance in Japanese Patients Scheduled for Percutaneous Coronary Intervention 336
• Comparison of Low vs Moderate Dose of Atorvastatin in Clopidogrel Resistance After Coronary Stenting in Korean Patients With Acute Coronary Syndrome 1111

Impact of CYP2C19 Polymorphisms on the Antiplatelet Effect of Clopidogrel in an Actual Clinical Setting in Japan 1498

Coagulation
• Impact of Decreased Renal Function on Coagulation and Fibronolyis in Patients With Non-Valvular Atrial Fibrillation 846
• Coagulation Activity Is Increased in the Left Atria of Patients With Paroxysmal Atrial Fibrillation During the Non-Paroxysmal Period: Comparison With Chronic Atrial Fibrillation 1403
• Increased P-Selectin Expression on Platelets and Decreased Plasma Thrombomodulin in Fontan Patients 1705

Coil embolization
• Early and Late Outcomes of Coil Embolization of Pulmonary Sequestration in Children 938

Complications
• Complications in the Catheter Ablation of Atrial Fibrillation: Incidence and Management 221
• Optimal Clinical Pathway for the Patient With Type B Acute Aortic Dissection 264

Computed tomography (CT)
• Diagnostic Accuracy of Angiographic View Image for the Detection of Coronary Artery Stenoses by 64-Detector Row CT: A Pilot Study Comparison With Conventional Post-Processing Methods and Axial Images Alone 691
• Unusual Case of Left Ventricular Pseudoaneurysm 974
• Computed Tomographic Coronary Angiography for Diagnosing Stable Coronal Artery Disease: A Cost-Utility and Cost-Effectiveness Analysis 1263
• Inadequate Increase in the Volume of Major Epicardial Coronary Arteries Compared With That in Left Ventricular Mass: Novel Concept for Characterization of Coronary Arteries Using 64-Slice Computed Tomography 1448
• Increased Epicardial Fat Volume Quantified by 64-Multidetector Computed Tomography is Associated With Coronary Atherosclerosis and Totally Occlusive Lesions 1927

Congenital heart disease
• Pulmonary Ateria With Ventricular Septal Defects and Major Aortopulmonary Collateral Arteries: 18-Year Clinical Experience and Angiographic Follow-up of Major Aortopulmonary Collateral Arteries 516
• Nationwide Survey of Care Facilities for Adults With Congenital Heart Disease in Japan 1147
• Congenital Ateria of the Left Main Coronary Artery Associated With Patent Ductus Arteriosus and Aortic Regurgitation 1163
• Increased P-Selectin Expression on Platelets and Decreased Plasma Thrombomodulin in Fontan Patients 1705
• Impaired Pulmonary Perfusion Associated With Thymus Hyperplasia in an Infant Candidate for Fontan Operation 2348

Congestive heart failure
• Autoimmune Mechanisms Underlying Dilated Cardiomyopathy 602
• Whole Body Bioimpedance Monitoring for Outpatient Chronic Heart Failure Follow up 1074
• Incidence and Clinical Predictors of Deep Vein Thrombosis in Patients Hospitalized With Heart Failure in Japan 1513

Connexin43 (Cx43)
• Effects of Aldosterone on Cx43 Gap Junction Expression in Neonatal Rat Cultured Cardiomyocytes 1504
• Ischemia Enhances Translocation of Connexin43 and Gap Junction Intercellular Communication, Thereby Propagating Contraction Band Necrosis After Reperfusion 1661
• Antioxidant, EUK-8, Prevents Murine Dilated Cardiomyopathy 2125

Contractility
• Relationship of Maximum Rate of Pressure Rise Between Aorta and Left Ventricle in Pediatric Patients: Implication for Ven-
tricular-Vascular Interaction With the Potential for Noninvasive Determination of Left Ventricular Contractility 1698

Coronary angiography
- Detection of Relevant Coronary Artery Disease Using Dual-Source Computed Tomography in a High Probability Patient Series: Comparison With Invasive Angiography 316
- Diagnostic Accuracy of Angiographic View Image for the Detection of Coronary Artery Stenoses by 64-Detector Row CT: A Pilot Study Comparison With Conventional Post-Processing Methods and Axial Images Alone 691
- Computed Tomographic Coronary Angiography for Diagnosing Stable Coronary Artery Disease: A Cost-Utility and Cost-Effectiveness Analysis 1263

Coronary artery bypass
- Radial Artery as a Graft for Coronary Artery Bypass Grafting 1178

Coronary artery bypass grafting
- Long-Term Results of Saphenous Vein Graft for Coronary Stenosis Caused by Kawasaki Disease 73
- Radial Artery as Conduit is Safe and Effective in Coronary Bypass Surgery in the Elderly: Single-Central Results From 326 Patients 1049
- Comparison of Drug-Eluting Stents and Coronary Artery Bypass Grafting for the Treatment of Multivessel Coronary Artery Disease in Patients With Chronic Kidney Disease 1228
- Long-Term Clinical and Angiographic Follow-up in Patients With Isolated Ostial Stenosis of the Left Coronary Artery 1271
- Percutaneous Treatment With Drug-Eluting Stent vs Bypass Surgery in Patients Suffering From Chronic Stable Angina With Multivessel Disease Involving Significant Proximal Stenosis in Left Anterior Descending Artery 1848
- The Impact of Pravastatin Therapy on Long-Term Outcome in Patients With Metabolic Syndrome Undergoing Complete Coronary Revascularization 2104
- Effect of Preoperative Atorvastatin Therapy on Atrial Fibrillation Following Off-Pump Coronary Artery Bypass Grafting 2244

Coronary artery disease
- Long-Term Results of Saphenous Vein Graft for Coronary Stenosis Caused by Kawasaki Disease 73
- Elevated Serum C-Reactive Protein Levels Predict Cardiovascular Events in the Japanese Coronary Artery Disease (JCAD) Study 78
- Detection of Diastolic Abnormality by Dyssynchrony Imaging: Correlation With Coronary Artery Disease in Patients Presenting With Visibly Normal Wall Motion 125
- Are Metabolic Factors Associated With Coronary Artery Stenosis on MDCT? 132
- Prognostic Significance of Plasma Osteopontin Levels in Patients Undergoing Percutaneous Coronary Intervention 152
- Detection of Relevant Coronary Artery Disease Using Dual-Source Computed Tomography in a High Probability Patient Series: Comparison With Invasive Angiography 316
- Treatment With Statin on Atheroma Regression Evaluated by Intravascular Ultrasound With Virtual Histology (TRUTH Study): Rationale and Design 352
- Diagnostic Accuracy of Angiographic View Image for the Detection of Coronary Artery Stenoses by 64-Detector Row CT: A Pilot Study Comparison With Conventional Post-Processing Methods and Axial Images Alone 691
- Differential Effects of Calcium-Channel Blockers on Vascular Endothelial Function in Patients With Coronary Spastic Angina 713
- Re-Restenosis and Target Lesion Revascularization After Treatment of Sirolimus-Eluting Stent Restenosis: Retrospective Analysis From 4 Japanese Hospitals 867
- Gender Differences in Patients With Coronary Artery Disease in Japan: The Japanese Coronary Artery Disease Study (The JCAD Study) 912
- Marked Aortic Valve Stenosis Progression After Receiving Long-Term Aggressive Cholesterol-Lowering Therapy Using Low-Density Lipoprotein Apheresis in a Patient With Familial Hypercholesterolemia 963
- Rheumatoid Arthritis: A Model of Systemic Inflammation Driving Atherosclerosis 977
- Frequency and Spatial Distribution of Thin-Cap Fibroatheroma Assessed by 3-Vessel Intravascular Ultrasound and Optical Coherence Tomography: An Ex Vivo Validation and an Initial In Vivo Feasibility Study 1086
- Improved Long-Term Prognosis of Elderly Women in the Era of Sirolimus-Eluting Stents 1219
- Long-Term Clinical and Angiographic Follow-up in Patients With Isolated Ostial Stenosis of the Left Coronary Artery 1271
- Multicenter and Retrospective Case Study of Warfarin and Aspirin Combination Therapy in Patients With Giant Coronary Aneurysms Caused by Kawasaki Disease 1319
- Drug-Eluting Stents: Insights From Invasive Imaging Technologies 1371
- Coronary Risk Factor Profile and Prognostic Factors for Young Japanese Patients Undergoing Coronary Revascularization 1459
- A Functional Interleukin-1 Receptor Antagonist Polymorphism Influences Atherosclerosis Development: The Interleukin-1β Interleukin-1 Receptor Antagonist Balance in Atherosclerosis 1531
- Serial Intravascular Ultrasound Assessment of Atherosclerosis Progression and Regression: State-of-the-Art and Limitations 1557
- Cardiac MRI in Ischemic Heart Disease 1577
- Comparative Impact of Scintigraphic Parameters and B-Type Natriuretic Peptide for the Prediction of Major Cardiac Events in the QGS-Prognostic Value in the Elderly (Q-PROVE) Study 1655
- Early Stent Thrombosis Because of Stent Dislodgement in a Coronary Artery Aneurysm 1759
- Silent Very Late Thrombotic Occlusion of Sirolimus-Eluting Stent Confirmed by Directional Coronary Atherectomy 1762
- Percutaneous Treatment With Drug-Eluting Stent vs Bypass Surgery in Patients Suffering From Chronic Stable Angina With Multivessel Disease Involving Significant Proximal Stenosis in Left Anterior Descending Artery 1848
- Oxygen Uptake Kinetics During and After Exercise are Useful Markers of Coronary Artery Disease in Patients With Exercise Electrocardiography Suggesting Myocardial Ischemia 1864
- Increased Epidiastolic Fat Volume Quantified by 64-Multidetector Computed Tomography is Associated With Coronary Atherosclerosis and Totally Occlusive Lesions 1927
- Interaction of ADIPOQ Genetic Polymorphism With Blood Pressure and Plasma Cholesterol Level on the Risk of Coronary Artery Disease 1934
- Effect of Rosuvastatin on Coronary Atheroma in Stable Coronary Artery Disease: Multicenter Coronary Atherosclerosis Study Measuring Effects of Rosuvastatin Using Intravascular Ultrasound in Japanese Subjects (COSMOS) 2110
- Incremental Prognostic Value of Stress/Rest Gated Perfusion SPECT in Patients With Coronary Artery Disease: Subanalysis of the J-ACCESS Study 2288

Coronary circulation
- Role of Coronary Vasodilatation in Ischemic Heart Disease and Search for Novel Therapeutic Targets 394
- Evaluation of Coronary Endothelial Function by Catheter-Type
Diabetes mellitus
- Cardiac Adiposity and Global Cardiometabolic Risk: New Concept and Clinical Implication 27
- Patients With Peripheral Artery Disease Who Complete 12-Week Supervised Exercise Training Program Show Reduced Cardiovascular Mortality and Morbidity 167
- Piglitazone Reduces the Necrotic-Core Component in Coronary Plaque in Association With Enhanced Plasma Adiponectin in Patients With Type 2 Diabetes Mellitus 343
- Impact of Diabetes Mellitus on Rehospitalization for Heart Failure Among Survivors of Acute Myocardial Infarction in the Percutaneous Coronary Intervention Era 662
- Effect of Cilostazol Treatment on Adiponectin and Soluble CD40 Ligand Levels in Diabetic Patients With Peripheral Arterial Occlusion Disease 948
- Decreased Expression of Transient Receptor Potential Vanilloid 1 Impaires the Postischemic Recovery of Diabetic Mouse Hearts 1127
- Diabetes Mellitus as a Predictor of Retinopathy Associated With Acute Myocardial Infarction 1278
- Effect of Carperitide on Plasma Adiponectin Levels in Acute Decompensated Heart Failure Patients With Diabetes Mellitus 2264

Diabetic nephropathy
- Is Diabetic Nephropathy a Predicted Risk Factor?: Kaplan-Meier and Multivariate Analysis of Confounding Risk Factors in Off-Pump Coronary Artery Bypass Grafting for Chronic Dialysis Patients 2056

Diagnosis
- Intracardiac Echocardiography-Guided Cardiac Tumor Biopsy 381
- Clinical Implications of Electrocardiograms for Patients With Non-ST-Segment Elevation Acute Coronary Syndromes in the Interventional Era 798
- Cardiovascular Diagnostic Biomarkers: The Past, Present and Future 806
- Early, Accurate, Non-Invasive Predictors of Left Main or 3-Vessel Disease in Patients With Non-ST-Segment Elevation Acute Coronary Syndrome 1105
- Relationship of Maximum Rate of Pressure Rise Between Aorta and Left Ventricle in Pediatric Patients: Implication for Ventricular-Vascular Interaction With the Potential for Noninvasive Determination of Left Ventricular Contractility 1698

Diastole
- Elevated E/E' Predicts Prognosis in Congestive Heart Failure Patients With Preserved Systolic Function 86

Dilated cardiomyopathy
- Effectiveness of Nocturnal Home Oxygen Therapy to Improve Exercise Capacity, Cardiac Function and Cardiac Sympathetic Nerve Activity in Patients With Chronic Heart Failure and Central Sleep Apnea 299
- Evaluation of Sympathetic Activity by 123I-Metaiodobenzylguanidine Myocardial Scintigraphy in Dilated Cardiomyopathy Patients With Sleep Breathing Disorder 686
- Hydrogen Sulfide Regulates Cardiac Function and Structure in Adriamycin-Induced Cardiomyopathy 741
- Outcome of Non-Transplant Surgical Strategy for End-Stage Dilated Cardiomyopathy in Young Children 1045
- Global Gene Expression Profiling in the Failing Myocardium 1568
- Value of Ventricular Stiffness Index and Ventriculoarterial Interaction in Patients With Nonischemic Dilated Cardiomyopathy 1683
- Conditional Antisense-Knockdown of Zebrafish Cardiac Troponin C as a New Animal Model for Dilated Cardiomyopathy 1691
- Antioxidant, EUK-8, Prevents Murine Dilated Cardiomyopathy 2125

Dissection
- Outcome of Less Invasive Proximal Arch Replacement With Moderate Hypothermic Circulatory Arrest Followed by Aggressive Rapid Re-Warming in Emergency Surgery for Type A Acute Aortic Dissection 69
- Cardiovascular Diagnostic Biomarkers: The Past, Present and Future 806

Drug-eluting stent
- Angiographic Patterns of Restenosis After Sirolimus-Eluting Stent Implantation 508
- Molecular Basis of Restenosis and Novel Issues of Drug-Eluting Stents 615
- Assessment of Sirolimus-Eluting Coronary Stent Implantation With Aspirin Plus Low Dose Ticlopidine Administration: One Year Results From CYPHER Stent Japan Post-Marketing Surveillance Registry (J-PMS) 1038
- Comparison of Drug-Eluting Stents and Coronary Artery Bypass Grafting for the Treatment of Multivessel Coronary Artery Disease in Patients With Chronic Kidney Disease 1228
- Drug-Eluting Stents: Insights From Invasive Imaging Technologies 1371
- Advanced Neointimal Growth is Not Associated With a Low Risk of In-Stent Thrombus: Optical Coherence Tomographic Findings After First-Generation Drug-Eluting Stent Implantation 1627
Echocardiography

Elevated E/E' Predicts Prognosis in Congestive Heart Failure Patients With Preserved Systolic Function

Target Organ Status in White-Coat Hypertensives: Usefulness of Serum Procollagen Type I Propeptide in the Respect of Left Ventricular Diastolic Dysfunction

Detection of Diastolic Abnormality by Dyssynchrony Imaging: Correlation With Coronary Artery Disease in Patients Presenting With Visibly Normal Wall Motion

Novel Method of Predicting the Optimal Atrioventricular Delay in Patients With Complete AV Block, Normal Left Ventricular Function and an Implanted DDD Pacemaker

Pocket-Sized Transthoracic Echocardiography Device for the Measurement of Cardiac Chamber Size and Function

Striking Observations During Emergency Catecholamine Treatment of Cardiac Syncope in a Patient With Initially Unrecognized Takotsubo Cardiomyopathy

Angiotensin II Receptor Blocker, Valsartan, Increases Myocardial Blood Volume and Regresses Hypertrophy in Hypertensive Patients

Biventricular Noncompaction Associated With Left Ventricular Systolic and Diastolic Dysfunction and Severe Pulmonary Hypertension in a Young Man

Ejection fraction

Long Term Prognosis of Chronic Heart Failure: Reduced vs Preserved Left Ventricular Ejection Fraction

Effect of Carvedilol on Plasma Adiponectin Concentration in Patients With Chronic Heart Failure

Characteristics and Outcomes of Hospitalized Patients With Heart Failure and Reduced vs Preserved Ejection Fraction: A Report From the Japanese Cardiac Registry of Heart Failure in Cardiology (JCARE-CARD)

Elderly

Radial Artery as Conduit is Safe and Effective in Coronary Bypass Surgery in the Elderly: Single-Central Results From 326 Patients

Comparative Impact of Scintigraphic Parameters and B-Type Natriuretic Peptide for the Prediction of Major Cardiac Events in the QGS-Prognostic Value in the Elderly (Q-PROVE) Study

A Simple Risk Score to Predict In-Hospital Death of Elderly Patients With Acute Decompensated Heart Failure: Hypoalbunemia as an Additional Prognostic Factor

Electrocardiogram

Effects of Pretreatment With Statins on Infarct Size in Patients With Acute Myocardial Infarction Who Receive Fibrinolytic Therapy

Clinical Implications of Electrocardiograms for Patients With Non-ST-Segment Elevation Acute Coronary Syndromes in the Interventional Era

A Case of Massive Pulmonary Embolism With ST Elevation in Leads V1-4

A Predictor of Positive Drug Provocation Testing in Individuals With Saddle-Back Type ST-Segment Elevation
Heart Failure 673
- Why Do We Still Not Have Cardioprotective Drugs? 1171
- GSK-3β, a Therapeutic Target for Cardiomyocyte Protection 1184
- Improvement of Quality of Life With Nocturnal Oxygen Therapy in Heart Failure Patients With Central Sleep Apnea 1255
- Obstructive Sleep Apnea and Cardiovascular Disease 1363
- Myocardial Recovery by Mechanical Unloading With Left Ventricular Assist System 1386
- Chronic Kidney Disease as an Independent Risk for Long-Term Adverse Outcomes in Patients Hospitalized With Heart Failure in Japan: Report From the Japanese Cardiac Registry of Heart Failure in Cardiology (JCARE-CARD) 1442
- Global Gene Expression Profiling in the Failing Myocardium 1568
- Clinical Impact of Atrial Fibrillation in Patients With Hypertrophic Cardiomyopathy: Results From Kochi KYOMA Study 1599
- Pheochromocytoma-Induced Cardiogenic Shock Rescued by Percutaneous Cardiopulmonary Bypass System 1753
- Sex/Gender Medicine: The Biological Basis for Personalized Care in Cardiovascular Medicine 1774
- Characteristics and Outcomes of Hospitalized Patients With Heart Failure and Reduced vs Preserved Ejection Fraction: A Report From the Japanese Cardiac Registry of Heart Failure in Cardiology (JCARE-CARD) 1893
- Anemia is an Independent Predictor of Long-Term Adverse Outcomes in Patients Hospitalized With Heart Failure in Japan: A Report From the Japanese Cardiac Registry of Heart Failure in Cardiology (JCARE-CARD) 1901
- Effects of Atrial Fibrillation on Long-Term Outcomes in Patients Hospitalized for Heart Failure in Japan: A Report From the Japanese Cardiac Registry of Heart Failure in Cardiology (JCARE-CARD) 2084
- Valve Repair Improves Central Sleep Apnea in Heart Failure Patients With Valvular Heart Diseases 2148
- Successful Cardiac Resynchronization Therapy in a 3-Year-Old Girl With Isolated Left Ventricular Non-Compaction and Narrow QRS Complex: A Case Report 2173

Heart rate
- Significance of Heart Rate in the Prevalence of Metabolic Syndrome and Its Related Risk Factors in Japanese 1431
- The Borg Scale as an Important Tool of Self-Monitoring and Self-Regulation of Exercise Prescription in Heart Failure Patients During Hydrotherapy: A Randomized Blinded Controlled Trial 1871

Heart rate turbulence
- Ambulatory ECG-Based T-Wave Alternants and Heart Rate Turbulence Predict High Risk of Arrhythmic Events in Patients With Old Myocardial Infarction 2223

Heart rate variability
- Vagal Modification Can Also Help Prevent Late Recurrence of Atrial Fibrillation After Segmental Pulmonary Vein Isolation 632
- Vagal Modification can be a Valid Predictor of Late Recurrence of Paroxysmal Atrial Fibrillation Independent of the Pulmonary Vein Isolation Technique 1606
- Effects of Bilateral Stellate Ganglion Block on Autonomic Cardiovascular Regulation 1909

Hemodialysis
- Restored Cardiac Conditions and Left Ventricular Function After Parathyroidectomy in a Hemodialysis Patient: Parathyroidectomy Improves Cardiac Fatty Acid Metabolism Assessed by 131I-BMIPP 1956

Hemodynamics
- Direct Hemoperfusion Using Polymyxin-B Immobilized Fiber for Septic Shock After Cardiac Surgery 658
- Hemodynamic and Echocardiographic Evaluation of Orthotopic Heart Transplantation With the Modified Bicaval Anastomosis Technique 1235

Hemoglobin
- Hemoglobin, Leukocytosis and Clinical Outcomes of ST-Elevation Myocardial Infarction Treated With Primary Angioplasty: Anin Myocardial Infarction Registry 323
- Anemia is an Independent Predictor of Long-Term Adverse Outcomes in Patients Hospitalized With Heart Failure in Japan: A Report From the Japanese Cardiac Registry of Heart Failure in Cardiology (JCARE-CARD) 1901

High-density lipoprotein (LDL)-cholesterol
- Identification of Genetic Markers Associated With High-Density Lipoprotein-Cholesterol by Genome-Wide Screening in a Japanese Population: The Suita Study 1119
- High-Density Lipoprotein-Cholesterol and Ischemic Heart Disease Risk in Korean Men With Cardiac Risk: A Prospective Cohort Study 1296
- High-Density Lipoprotein-Cholesterol Trajectory Pattern, Associated Lifestyle and Biochemical Factors Among Taiwanese 1887

Hypertension
- Target Organ Status in White-Coat Hypertensives: Usefulness of Serum Procollagen Type I Propeptide in the Respect of Left Ventricular Diastolic Dysfunction 100
- Asymptomatic Cerebral Microbleeds Seen in Healthy Subjects Have a Strong Association With Asymptomatic Lacunar Infarction 530
- Orthostatic Hypertension: A Measure of Blood Pressure Variation for Predicting Cardiovascular Risk 1002
- Effects of Cardiac Complications on Cardiovascular Events in Japanese High-Risk Hypertensive Patients: Subanalysis of the CASE-J Trial 1080
- Prehypertension and Cardiovascular Risk Factor Clustering Among Mongolian Population in Rural and Animal Husbandry Area, Inner Mongolia, China 1437
- Sex/Gender Medicine: The Biological Basis for Personalized Care in Cardiovascular Medicine 1774
- Vascular Dilation Responses of Rat Small Mesenteric Arteries at High Intravascular Pressure in Spontaneously Hypertensive Rats 2091
- Angiotensin II Receptor Blocker, Valsartan, Increases Myocardial Blood Volume and Regresses Hypertrophy in Hypertensive Patients 2098
- Combination of an ACE Inhibitor and Indapamide Improves Blood Pressure Control, but Attenuates the Beneficial Effects of ACE Inhibition on Plasma Adiponecinit in Patients With Essential Hypertension 2282
- Endomyocardial Radial Strain Imaging and Left Ventricular Relaxation Abnormalities in Patients With Hypertrophic Cardiomyopathy or Hypertensive Left Ventricular Hypertrophy 2294

Hypertrophic cardiomyopathy
- QRS Prolongation is Associated With High Defibrillation Thresholds During Cardioverter-Defibrillator Implantations in Patients With Hypertrophic Cardiomyopathy 1028
- Clinical Impact of Atrial Fibrillation in Patients With Hypertrophic Cardiomyopathy: Results From Kochi KYOMA Study 1599
- Endomyocardial Radial Strain Imaging and Left Ventricular Relaxation Abnormalities in Patients With Hypertrophic Cardiomyopathy or Hypertensive Left Ventricular Hypertrophy 2294
- Clinical Profiles of Hypertrophic Cardiomyopathy With Apical...
Phenotype: Comparison of Pure-Apical Form and Distal-Dominant Form

Hypertrophy
- The Pathological Role of Transient Receptor Potential Channels in Heart Disease
- Effects of Cardiac Complications on Cardiovascular Events in Japanese High-Risk Hypertensive Patients: Subanalysis of the CASE-J Trial
- Inadequate Increase in the Volume of Major Epicardial Coronary Arteries Compared With That in Left Ventricular Mass: Novel Concept for Characterization of Coronary Arteries Using 64-Slice Computed Tomography

Hypothermia
- Therapeutic Hypothermia (30°C) Enhances Arrhythmogenic Substrates, Including Spatially Discordant Alternans, and Facilitates Pacing-Induced Ventricular Fibrillation in Isolated Rabbit Hearts

Imaging
- Relationship Between Thin Cap Fibroatheroma Identified by Virtual Histology and Angioscopic Yellow Plateau in Quantitative Analysis With Colorimetry
- Huge Primary Pleomorphic Leiomyosarcoma in the Right Ventricle With Impending Obstruction of Both Inflow and Outflow Tracts
- Frequency and Spatial Distribution of Thin-Cap Fibroatheroma Assessed by 3-Vessel Intravascular Ultrasound and Optical Coherence Tomography: An Ex Vivo Validation and an Initial In Vivo Feasibility Study
- Pocket-Sized Thoracoscopic Echocardiography Device for the Measurement of Cardiac Chamber Size and Function
- Serial Intravascular Ultrasound Assessment of Atherosclerosis Progression and Regression: State-of-the-Art and Limitations
- Carotid Magnetic Resonance Imaging: A Window to Study Atherosclerosis and Identify High-Risk Plaques
- Factors That Influence Measurements and Accurate Evaluation of Stent Apposition by Optical Coherence Tomography: Assessment Using a Phantom Model

Immune system
- Expression Levels of Toll-Like Receptor Genes in Coronary Atherosclerotic Lesions of Patients With Acute Coronary Syndrome or Stable Angina Pectoris

Immunology
- A Functional Interleukin-1 Receptor Antagonist Polymorphism Influences Atherosclerosis Development: The Interleukin-1β: Interleukin-1 Receptor Antagonist Balance in Atherosclerosis

Implantable cardioverter-defibrillator
- Defibrillator Electrogram T Wave Alternans as a Predictor of Spontaneous Ventricular Tachyarrhythmias in Defibrillator Recipients
- Long-Term Electrocardiographic Follow-up From Childhood of an Adult Patient With Brugada Syndrome Associated With Sick Sinus Syndrome: A Case Report
- QRS Prolongation is Associated With High Defibrillation Thresholds During Cardioverter-Defibrillator Implantations in Patients With Hypertrophic Cardiomyopathy

Infection
- Direct Hemoperfusion Using Polymyxin-B Immobilized Fiber for Septic Shock After Cardiac Surgery

Inflammation
- Significant Association Between Neutrophil Aggregation in Aspirated Thrombus and Myocardial Damage in Patients With ST-Segment Elevation Acute Myocardial Infarction
- Hemoglobin, Leukocytosis and Clinical Outcomes of ST-Elevation Myocardial Infarction Treated With Primary Angioplasty: An In Myocardial Infarction Registry
- Direct Hemoperfusion Using Polymyxin-B Immobilized Fiber for Septic Shock After Cardiac Surgery
- Tentative Cut Point of High-Sensitivity C-Reactive Protein for a Component of Metabolic Syndrome in Japanese
- Infiltration of Macrophages Through the Atrial Endocardium of Inflammation-Induced Rats: Contribution of Fractalkine
- Rheumatoid Arthritis: A Model of Systemic Inflammation Driven Atherosclerosis
- Role of the Phosphatidylinositol 3-Kinase/Protein Kinase B Pathway in Regulating Alternative Splicing of Tissue Factor mRNA in Human Endothelial Cells
- Poly12Ala Polymorphism of the Peroxisome Proliferator-Activated Receptor-γ Gene Is Associated With Metabolic Syndrome and Surrogate Measures of Insulin Resistance in Healthy Men: Interaction With Smoking Status

Intravascular ultrasound
- Pioglitazone Reduces the Necrotic-Core Component in Coronary Plaque in Association With Enhanced Plasma Adiponectin in Patients With Type 2 Diabetes Mellitus
- Qualitative and Quantitative Changes in Coronary Plaque Associated With Atorvastatin Therapy
- Frequency and Spatial Distribution of Thin-Cap Fibroatheroma Assessed by 3-Vessel Intravascular Ultrasound and Optical Coherence Tomography: An Ex Vivo Validation and an Initial In Vivo Feasibility Study
- Drug-Eluting Stents: Insights From Invasive Imaging Technologies
- Early Effect of Lipid-Lowering Therapy With Pitavastatin on Regression of Coronary Atherosclerotic Plaque: Comparison With Atorvastatin
- Serial Intravascular Ultrasound Assessment of Atherosclerosis Progression and Regression: State-of-the-Art and Limitations
- Pathological Finding of Sirolimus-Eluting Stent (SES) Restenosis Lesion With Black Hole Appearance on Intravascular Ultrasound
- Effect of Rosuvastatin on Coronary Atheroma in Stable Coronary Artery Disease: Multicenter Coronary Atherosclerosis Study Measuring Effects of Rosuvastatin Using Intravascular Ultrasound in Japanese Subjects (COSMOS)

Ion channels
- The Pathological Role of Transient Receptor Potential Channels in Heart Disease

Ischemia
- Silent Myocardial Ischemia
- Why Do We Still Not Have Cardioprotective Drugs?
- Original Papillary Muscle Sandwich Plasty for Ischemic Mitral Regurgitation
- Long-Term Clinical and Angiographic Follow-up in Patients With Isolated Ostial Stenosis of the Left Coronary Artery
- Diabetes Mellitus as a Predictor of Retinopathy Associated With Acute Myocardial Infarction
- Ischemia Enhances Translocation of Connexin43 and Gap Junction Intercellular Communication, Thereby Propagating Contraction Band Necrosis After Reperfusion
- Repetitive Endocardial Focal Discharges During Ventricular Fibrillation With Prolonged Global Ischemia in Isolated Rabbit Hearts

Ischemic heart disease
- Silent Myocardial Ischemia
- High-Density Lipoprotein-Cholesterol and Ischemic Heart Dis-
Ischemic stroke
- Association of Antiplatelet Therapy With Lower Risk of Death and Recurrent Cerebrovascular Events After Ischemic Stroke: Results From the China Ischemic Stroke Registry Study 2342

J

Japanese
- Elevated Serum C-Reactive Protein Levels Predict Cardiovascular Events in the Japanese Coronary Artery Disease (JCAD) Study 78
- Effects of Cardiac Complications on Cardiovascular Events in Japanese High-Risk Hypertensive Patients: Subanalysis of the CASE-J Trial 1080
- Incremental Prognostic Value of Stress/Rest Gated Perfusion SPECT in Patients With Coronary Artery Disease: Subanalysis of the J-ACCESS Study 2288

K

Kawasaki disease
- Long-Term Results of Saphenous Vein Graft for Coronary Stenosis Caused by Kawasaki Disease 73
- IVIG Reduced Vascular Oxidative Stress in Patients With Kawasaki Disease 1315
- Multicenter and Retrospective Case Study of Warfarin and Aspirin Combination Therapy in Patients With Giant Coronary Aneurysms Caused by Kawasaki Disease 1319

Kidney
- Comparison of Drug-Eluting Stents and Coronary Artery Bypass Grafting for the Treatment of Multivessel Coronary Artery Disease in Patients With Chronic Kidney Disease 1228
- Chronic Kidney Disease as an Independent Risk for Long-Term Adverse Outcomes in Patients Hospitalized With Heart Failure in Japan: Report From the Japanese Cardiac Registry of Heart Failure in Cardiology (JCARE-CARD) 1442
- Relationship Between Renal Function, Aortic Stiffness and Left Ventricular Function in Patients With Coronary Artery Disease 1740

Kinase
- Role of the Phosphatidylinositol 3-Kinase/Protein Kinase B Pathway in Regulating Alternative Splicing of Tissue Factor mRNA in Human Endothelial Cells 1746

L

Left ventricular function
- Striking Observations During Emergency Catecholamine Treatment of Cardiac Syncope in a Patient With Initially Unrecognized Takotsubo Cardiomyopathy 1543
- Relationship of Maximum Rate of Pressure Rise Between Aorta and Left Ventricle in Pediatric Patients: Implication for Ventricular-Vascular Interaction With the Potential for Noninvasive Determination of Left Ventricular Contractility 1698
- Right Ventricular Septal Pacing Preserves Long-Term Left Ventricular Function Via Minimizing Pacing-Induced Left Ventricular Dyssynchrony in Patients With Normal Baseline QRS Duration 1829
- Restored Cardiac Conditions and Left Ventricular Function After Parathyroidectomy in a Hemodialysis Patient: Parathyroidectomy Improves Cardiac Fatty Acid Metabolism Assessed by 131I-BMIPP 1956

Left ventricular hypertrophy
- Uric Acid and Left Ventricular Hypertrophy in Japanese Men 667
- Angiotensin II Receptor Blocker, Valsartan, Increases Myocardial Blood Volume and Regresses Hypertrophy in Hypertensive Patients 2098
- Endomyocardial Radial Strain Imaging and Left Ventricular Relaxation Abnormalities in Patients With Hypertrophic Cardiomyopathy or Hypertensive Left Ventricular Hypertrophy 2294

Leukocytes
- Significant Association Between Neutrophil Aggregation in Aspirated Thrombus and Myocardial Damage in Patients With ST-Segment Elevation Acute Myocardial Infarction 139
- Hemoglobin, Leukocytosis and Clinical Outcomes of ST-Elevation Myocardial Infarction Treated With Primary Angioplasty: Ann Myocardial Infarction Registry 323

Lipids
- Incremental Effects of Eicosapentaenoic Acid on Cardiovascular Events in Statin-Treated Patients With Coronary Artery Disease: Secondary Prevention Analysis From JELIS 1283
- Paraoxonase 1 Polymorphisms and Risk of Myocardial Infarction in Women and Men 1302

Lipoproteins
- Lipoprotein Metabolism, Insulin Resistance, and Adipocytokine Levels in Japanese Female Adolescents With a Normal Body Mass Index and High Body Fat Mass 534

Long-QT syndrome
- Phenotypic Overlap of Cardiac Sodium Channelopathies: Individual-Specific or Mutation-Specific? 810
- Isolated Non-Compaction of the Ventricular Myocardium Associated With Long QT Syndrome: A Report of 2 Cases 2169

Lymphocytes
- Elevation of Plasma Granulyme B Levels After Acute Myocardial Infarction: Correlation With Left Ventricular Remodeling 503

M

Magnetic resonance imaging
- Carotid Magnetic Resonance Imaging: A Window to Study Atherosclerosis and Identify High-Risk Plaques 1765
- Biventricular Noncompaction Associated With Left Ventricular Systolic and Diastolic Dysfunction and Severe Pulmonary Hypertension in a Young Man 2163

Mapping
- Noninvasive Characterization of Intra-Atrial Reentrant Tachyarhythmias After Surgical Repair of Congenital Heart Diseases 451
- Repetitive Endocardial Focal Discharges During Ventricular Fibrillation With Prolonged Global Ischemia in Isolated Rabbit Hearts 1803

Meta-analysis
- Nicorandil Treatment in Patients With Acute Myocardial Infarction: A Meta-Analysis 925

Metabolic syndrome
- Are Metabolic Factors Associated With Coronary Artery Stenosis on MDCT? 132
- Diagonal Earlobe Crease are Associated With Shorter Telomere in
Male Japanese Patients With Metabolic Syndrome: A Pilot Study 274

- Metabolic Syndrome and Risk of Recurrence of Atrial Fibrillation After Catheter Ablation 438
- Asymptomatic Cerebral Microbleeds Seen in Healthy Subjects Have a Strong Association With Asymptomatic Lacunar Infarction 530
- Evaluation of Coronary Endothelial Function by Catheter-Type NO Sensor in High-Fat-Diet-Induced Obese Dogs 562
- Tentative Cut Point of High-Sensitivity C-Reactive Protein for a Component of Metabolic Syndrome in Japanese 755
- Metabolic Syndrome and All-Cause and Cardiovascular Disease Mortality: Japan Public Health Center-Based Prospective (JPHC) Study 878
- Significance of Heart Rate in the Prevalence of Metabolic Syndrome and Its Related Risk Factors in Japanese 1431
- Impact of Metabolic Syndrome on 10-Year Clinical Outcomes Among Patients With Acute Coronary Syndrome 1454
- Associations Between Metabolic Syndrome and Mortality From Cardiovascular Disease in Japanese General Population, Findings on Overweight and Non-Overweight Individuals: Ibaraki Prefectural Health Study 1635
- Criteria of Waist Circumference According to Computed Tomography-Measured Visceral Fat Area and the Clustering of Cardiovascular Risk Factors 1881
- Optimal Cutoff Points of Waist Circumference for the Criteria of Abdominal Obesity: Comparison With the Criteria of the International Diabetes Federation 2068
- Prol12Ala Polymorphism of the Peroxisome Proliferator-Activated Receptor-γ Gene Is Associated With Metabolic Syndrome and Surrogate Measures of Insulin Resistance in Healthy Men: Interaction With Smoking Status 2118
- Angiopoietin-Like Proteins: Potential Therapeutic Targets for Metabolic Syndrome and Cardiovascular Disease 2192
- Risk of Smoking and Metabolic Syndrome for Incidence of Cardiovascular Disease: Comparison of Relative Contribution in Urban Japanese Population: The Suita Study 2258

Microcirculation

- Diabetes Mellitus as a Predictor of Retinopathy Associated With Acute Myocardial Infarction 1278

Mitochondria

- Nicorandil Attenuates FeCl₃-Induced Thrombus Formation Through the Inhibition of Reactive Oxygen Species Production 554

Mitral valve

- Original Papillary Muscle Sandwich Plasty for Ischemic Mitral Regurgitation 1240
- Papillary Muscle Suspension Concomitant With Approximation for Functional Mitral Regurgitation 2061

Morbidity

- Optimal Treatment Strategy for Patients With Paroxysmal Atrial Fibrillation: J-RHYTHM Study 242

Mortality

- Optimal Treatment Strategy for Patients With Paroxysmal Atrial Fibrillation: J-RHYTHM Study 242
- Current Status of Emergency Care for ST-Elevation Myocardial Infarction in an Urban Setting in Japan 484
- Aortic Pulse Wave Velocity Predicts Cardiovascular Mortality in Middle-Aged and Elderly Japanese Men 549
- Metabolic Syndrome and All-Cause and Cardiovascular Disease Mortality: Japan Public Health Center-Based Prospective (JPHC) Study 878
- Effects of Fine Particulate Matter on Daily Mortality for Specific Heart Diseases in Japan 1248
- Use of Serum Homocysteine to Predict Stroke, Coronary Heart Disease and Death in Ethnic Chinese: 12-Year Prospective Cohort Study 1423
- Associations Between Metabolic Syndrome and Mortality From Cardiovascular Disease in Japanese General Population, Findings on Overweight and Non-Overweight Individuals: Ibaraki Prefectural Health Study 1635
- Characteristics and Outcomes of Hospitalized Patients With Heart Failure and Reduced vs Preserved Ejection Fraction: A Report From the Japanese Cardiac Registry of Heart Failure in Cardiology (JCARE-CARD) 1893
- Anemia is an Independent Predictor of Long-Term Adverse Outcomes in Patients Hospitalized With Heart Failure in Japan: A Report From the Japanese Cardiac Registry of Heart Failure in Cardiology (JCARE-CARD) 1901
- Effects of Atrial Fibrillation on Long-Term Outcomes in Patients Hospitalized for Heart Failure in Japan: A Report From the Japanese Cardiac Registry of Heart Failure in Cardiology (JCARE-CARD) 2084
- The Impact of Pravastatin Therapy on Long-Term Outcome in Patients With Metabolic Syndrome Undergoing Complete Coronary Revascularization 2104

Multidetector computed tomography (MDCT)

- Quantitative Analysis of Myocardial Contrast Enhancement by First-Pass 64-Multidetector Computed Tomography in Patients With Coronary Heart Disease 116
- Relationship Between Coronary Artery Wall Thickness Measured by 64-Slice Multidetector Computed Tomography and Cardiovascular Risk Factors 681
- Surgical Treatment of Left Main Coronary Artery Aneurysm: A Case Report 770

Multidetector row computed tomography

- Are Metabolic Factors Associated With Coronary Artery Stenosis on MDCT? 132
- Novel Three-Dimensional Imaging of the Anatomical Relationship Between the Pulmonary Vein and Left Atrium: Transparent View 573

Muscle contraction

- Phosphorylation of Myosin Regulatory Light Chain by Myosin Light Chain Kinase, and Muscle Contraction 208

Muscles

- Adipokines, Myokines and Cardiovascular Disease 13
- Mutational Analysis of Fukutin Gene in Dilated Cardiomyopathy and Hypertrophic Cardiomyopathy 158

Myocardial infarction

- Significant Association Between Neutrophil Aggregation in Aspirated Thrombus and Myocardial Damage in Patients With ST-Segment Elevation Acute Myocardial Infarction 139
- Efficacy of Abciximab for Patients Undergoing Balloon Angioplasty: Data From Japanese Evaluation of C7E3 Fab for Elective and Primary PCI Organization in Randomized Trial (JEPPORT) 145
- Hemoglobin, Leukocytosis and Clinical Outcomes of ST-Elevation Myocardial Infarction Treated With Primary Angioplasty: Anin Myocardial Infarction Registry 323
- Impact of Diabetes Mellitus on Rehospitalization for Heart Failure Among Survivors of Acute Myocardial Infarction in the Percutaneous Coronary Intervention Era 662
- Silent Myocardial Ischemia 785
- Inhibitory Effect of Valsartan Against Progression of Left Ventricular Dysfunction After Myocardial Infarction: T-VENTURE Study 918
- Unusual Case of Left Ventricular Pseudoaneurysm 974
- A Case of Massive Pulmonary Embolism With ST Elevation in Leads V₁-V₄ 1157
• GSK-3β, a Therapeutic Target for Cardiomyocyte Protection 1184
• High-Density Lipoprotein-Cholesterol and Ischemic Heart Disease Risk in Korean Men With Cardiac Risk: A Prospective Cohort Study 1296
• Paraoxonase 1 Polymorphisms and Risk of Myocardial Infarction in Women and Men 1302
• Autonomic and Cardiovascular Effects of Acute High Altitude Exposure After Myocardial Infarction and in Normal Volunteers 1485
• Cardiac MRI in Ischemic Heart Disease 1577
• Ischemia Enhances Translocation of Connexin43 and Gap Junction Intercellular Communication, Thereby Propagating Contraction Band Necrosis After Reperfusion 1661
• Treatment With Recombinant Placental Growth Factor (PiGF) Enhances Both Angiogenesis and Arteriogenesis and Improves Survival After Myocardial Infarction 1674
• Acute Myocardial Infarction: The Enduring Challenge for Cardiac Protection and Survival 2000
• Cell-Based Therapies for Ischemic Heart Disease: “Trick and Treat” 2179
• Blood Eicosapentaenoic Acid and Docosahexaenoic Acid as Predictors of All-Cause Mortality in Patients With Acute Myocardial Infarction: Data From Infarction Prognosis Study (IPS) Registry 2250
• Controlled Release of Matrix Metalloproteinase-1 Plasmid DNA Prevents Left Ventricular Remodeling in Chronic Myocardial Infarction of Rats 2315

Myocardial ischemia
• Role of Coronary Vasocostriction in Ischemic Heart Disease and Search for Novel Therapeutic Targets 394
• Detection of Myocardial Ischemia Using 64-Slice MDCT: Comparison With Stress/Rest Myocardial Scintigraphy 905

Myocarditis
• Fulminant Eosinophilic Myocarditis Associated With Visceral Larva Migrans Caused by Toxocara Canis Infection 1344

Myocardium
• Isolated Non-Compaction of the Ventricular Myocardium Associated With Long QT Syndrome: A Report of 2 Cases 2169

Myxoma
• Primary Myxosarcoma of the Right Inferior Pulmonary Vein Presenting Clinically as Benign Left Atrial Myxoma With a Concurrent Right Lower Lung Tumor 1547

N
Nitric oxide
• Evaluation of Coronary Endothelial Function by Catheter-Type NO Sensor in High-Fat-Diet-Induced Obese Dogs 562
• Nitric Oxide Synthases and Cardiovascular Diseases: Insights From Genetically Modified Mice 986

Nitric oxide synthase
• Nitric Oxide Synthases and Cardiovascular Diseases: Insights From Genetically Modified Mice 986

Norepinephrine
• Dose-Dependent Prognostic Effect of Carvedilol in Patients With Chronic Heart Failure: Special Reference to Ranscardiac Gradient of Norepinephrine 2270

Nuclear medicine
• Physiological Changes in Human Cardiac Sympathetic Innervation and Activity Assayed by 123I-Metaiodobenzylguanidine (MIBG) Imaging 310

O
Obesity
• Cardiac Adiposity and Global Cardiometabolic Risk: New Concept and Clinical Implication 27
• Lipoprotein Metabolism, Insulin Resistance, and Adipocytokine Levels in Japanese Female Adolescents With a Normal Body Mass Index and High Body Fat Mass 534
• Evaluation of Coronary Endothelial Function by Catheter-Type NO Sensor in High-Fat-Diet-Induced Obese Dogs 562
• Adiponectin and Cardiovascular Disease 608
• Tentative Cut Point of High-Sensitivity C-Reactive Protein for a Component of Metabolic Syndrome in Japanese 755
• Waist Circumference and Waist-to-Height Ratio as Predictors of Cardiovascular Disease Risk in Korean Adults 1643

Obstruction
• Huge Primary Pleomorphic Leiomyosarcoma in the Right Ventricle With Impending Obstruction of Both Inflow and Outflow Tracts 779

Occlusion
• Increased Epicardial Fat Volume Quantified by 64-Multidetector Computed Tomography Is Associated With Coronary Atherosclerosis and Totally Occlusive Lesions 1927

Off-pump coronary artery bypass grafting
• Novel Surgical Method of Proximal Anastomosis in Off-Pump Coronary Artery Bypass Grafting 1342
• Is Diabetic Nephropathy a Predicted Risk Factor?: Kaplan-Meier and Multivariate Analysis of Confounding Risk Factors in Off-Pump Coronary Artery Bypass Grafting for Chronic Dialysis Patients 2056

Optical coherence tomography (OCT)
• Various Types of Plaque Disruption in Culprit Coronary Artery Visualized by Optical Coherence Tomography in a Patient With Unstable Angina 187
• Delayed Neointimalization on Sirolimus-Eluting Stents: 6-Month and 12-Month Follow up by Optical Coherence Tomography 1033
• Advanced Neointimal Growth Is Not Associated With a Low Risk of In-Stent Thrombus: Optical Coherence Tomographic Findings After First-Generation Drug-Eluting Stent Implantation 1627
• Factors That Influence Measurements and Accurate Evaluation of Stent Apposition by Optical Coherence Tomography: Assessment Using a Phantom Model 1841
• Long-Term Follow-up of Neointimal Coverage of Sirolimus-Eluting Stents: Evaluation With Optical Coherence Tomography 2300

Outcomes
• Anxiety and Poor Social Support are Independently Associated With Adverse Outcomes in Patients With Mild Heart Failure 280
• Characteristics and Outcomes of Hospitalized Patients With Heart Failure and Reduced vs Preserved Ejection Fraction: A Report From the Japanese Cardiac Registry of Heart Failure in Cardiology (JCARE-CARD) 1893
• Effects of Atrial Fibrillation on Long-Term Outcomes in Patients Hospitalized for Heart Failure in Japan: A Report From the Japanese Cardiac Registry of Heart Failure in Cardiology (JCARE-CARD) 2084

Oxidative stress
• Antioxidant Therapy Attenuates Diabetes-Related Impairment of Bone Marrow Stem Cells 162
• Novel Aspects of Oxidative Stress in Cardiovascular Diseases 201
• Endothelial Function and Oxidative Stress in Cardiovascular Diseases 411
• Hydrogen Sulfide Regulates Cardiac Function and Structure in Adriamycin-Induced Cardiomyopathy 741
• Effects of Long-Term Intravenous Administration of Adrenomedullin (AM) Plus hANP Therapy in Acute Decompensated
Heart Failure: A Pilot Study 892
  • Uregulation of Heme Oxygenase-1 in an Animal Model of Takotsubo Cardiomyopathy 1141
  • IVIG Reduced Vascular Oxidative Stress in Patients With Kawasaki Disease 1315
  • N-Acetylcysteine Reduces the Severity of Atherosclerosis in Apolipoprotein E-Deficient Mice by Reducing Superoxide Production 1337
  • Effects of Pitavastatin on Fasting and Postprandial Endothelial Function and Blood Rheology in Patients With Stable Coronary Artery Disease 1523

Oxygen
  • Effectiveness of Nocturnal Home Oxygen Therapy to Improve Exercise Capacity, Cardiac Function and Cardiac Sympathetic Nerve Activity in Patients With Chronic Heart Failure and Central Sleep Apnea 299
  • Improvement of Quality of Life With Nocturnal Oxygen Therapy in Heart Failure Patients With Central Sleep Apnea 1255

Pacemakers
  • Novel Method of Predicting the Optimal Atrioventricular Delay in Patients With Complete AV Block, Normal Left Ventricular Function and an Implanted DDD Pacemaker 654

Pathology
  • Frequency and Spatial Distribution of Thin-Cap Fibroatheroma Assessed by 3-Vessel Intravascular Ultrasound and Optical Coherence Tomography: An Ex Vivo Validation and an Initial In Vivo Feasibility Study 1086
  • Pathological Finding of Sirolimus-Eluting Stent (SES) Restenosis Lesion With Black Hole Appearance on Intravascular Ultrasound 1969
  • Soluble Elastin Decreases in the Progress of Atheroma Formation in Human Aorta 2154

Percutaneous coronary intervention (PCI)
  • Factors That Influence Measurements and Accurate Evaluation of Stent Apposition by Optical Coherence Tomography: Assessment Using a Phantom Model 1841
  • Percutaneous Treatment With Drug-Eluting Stent vs Bypass Surgery in Patients Suffering From Chronic Stable Angina With Multivessel Disease Involving Significant Proximal Stenosis in Left Anterior Descending Artery 1848
  • Significant Association of Coronary Artery Calcification in Stent Delivery Route With Restenosis After Sirolimus-Eluting Stent Implantation 1856
  • The Impact of Pravastatin Therapy on Long-Term Outcome in Patients With Metabolic Syndrome Undergoing Complete Coronary Revascularization 2104
  • Partial vs Full Coverage for Tandem Lesions in Culprit Vessel During Primary Coronary Intervention in Patients With Acute ST-Elevation Myocardial Infarction: The PERFECT-AMI Study 2236

Perfusion
  • Cardiac MRI in Ischemic Heart Disease 1577

Peripheral arterial disease
  • Ten-Year Patency and Factors Causing Restenosis After Endovascular Treatment of Iliac Artery Lesions 860
  • Effect of Cilostazol Treatment on Adiponecin and Soluble CD40 Ligand Levels in Diabetic Patients With Peripheral Arterial Occlusion Disease 948

Peripheral vascular disease
  • Patients With Peripheral Artery Disease Who Complete 12-Week Supervised Exercise Training Program Show Reduced Cardiovascular Mortality and Morbidity 167
  • Local Sustained Release of Prostaglandin E1 Induces Neovascu-
Prosthesis
- Bioprosthesis Pulmonary and Tricuspid Valve Replacement in Carcinoid Heart Disease From Ovarian Primary Cancer 1554

Pulmonary arterial hypertension
- Propylthiouracil Attenuates Monocrotaline-Induced Pulmonary Arterial Hypertension in Rats 1722
- Efficacy of Oral Sildenafil in a Beraprost-Treated Patient With Severe Pulmonary Hypertension Secondary to Type I Glycogen Storage Disease 1965
- Effects of a Pure αβ2-Adrenergic Receptor Blocker on Monocrotaline-Induced Pulmonary Arterial Hypertension With Right Ventricular Hypertrophy in Rats 2337
- Pulmonary Arterial Hypertension Associated With Gastroesophageal Reflux in a 2-Month-Old Boy With Down Syndrome 2352

Pulmonary embolism
- Thrombolysis With a Novel Modified Tissue-Type Plasminogen Activator, Montepase, Combined With Catheter-Based Treatment for Major Pulmonary Embolism 106
- Venous Thromboembolism: Deep Vein Thrombosis With Pulmonary Embolism, Deep Vein Thrombosis Alone, and Pulmonary Embolism Alone 305
- A Case of Massive Pulmonary Embolism With ST Elevation in Leads V1–4 1157
- Recurrence of Pulmonary Embolism in Young Man With Retropertioneal Tumor Despite Insertion of Temporary IVC Filter 1756

Pulmonary hypertension
- Molecular and Electrical Remodeling of L- and T-Type Ca2+ Channels in Rat Right Atrium With Monocrotaline-Induced Pulmonary Hypertension 256
- Evidence for Rho-Kinase Activation in Patients With Pulmonary Arterial Hypertension 1731

Pulse wave velocity
- Elevated Arterial Stiffness Evaluated by Brachial-Ankle Pulse Wave Velocity is Deleterious for the Prognosis of Patients With Heart Failure 673
- Delivery May Affect Arterial Elasticity in Women 750

Quality of life
- Improvement of Quality of Life With Nocturnal Oxygen Therapy in Heart Failure Patients With Central Sleep Apnea 1255
- Clinical Profiles of Adult Patients With Single Ventricular Physiology 1711

Radiofrequency catheter ablation
- Vagal Modification Can Also Help Prevent Late Recurrence of Atrial Fibrillation After Segmental Pulmonary Vein Isolation 632
- Vagal Modification can be a Valid Predictor of Late Recurrence of Paroxysmal Atrial Fibrillation Independent of the Pulmonary Vein Isolation Technique 1606

Reactive oxygen species
- Antioxidant Therapy Attenuates Diabetes-Related Impairment of Bone Marrow Stem Cells 162
- Antioxidant, EUK-8, Prevents Murine Dilated Cardiomyopathy 2125

Receptors
- Autoimmune Mechanisms Underlying Dilated Cardiomyopathy 602

Reentry
- d,l-Sotalol at Therapeutic Concentrations Facilitates the Occurrence of Long-Lasting Non-Stationary Reentry During Ventricular Fibrillation in Isolated Rabbit Hearts 39

Rehabilitation
- The Borg Scale as an Important Tool of Self-Monitoring and Self-Regulation of Exercise Prescription in Heart Failure Patients During Hydrotherapy: A Randomized Blinded Controlled Trial 1871

Remodeling
- Influence of Autonomic Stimulation on the Genesis of Atrial Fibrillation in Remodeled Canine Atria not the Same as in Normal Atria 468
- Relationship Between Coronary Arterial Remodeling, Fibrous Cap Thickness and High-Sensitivity C-Reactive Protein Levels in Patients With Acute Coronary Syndrome 1291
- Mechanisms of Remodelling: A Question of Life (Stem Cell Production) and Death (Myocyte Apoptosis) 1973

Renal failure
- Prognostic Significance of Cystatin C in Patients With ST-Elevation Myocardial Infarction 1669

Reperfusion
- Current Status of Emergency Care for ST-Elevation Myocardial Infarction in an Urban Setting in Japan 484
- Why Do We Still Not Have Cardioprotective Drugs? 1171
- Diabetes Mellitus as a Predictor of Retinopathy Associated With Acute Myocardial Infarction 1278
- Acute Myocardial Infarction: The Enduring Challenge for Cardiac Protection and Survival 2000

Restenosis
- Prognostic Significance of Plasma Osteopontin Levels in Patients Undergoing Percutaneous Coronary Intervention 152
- Delayed Endothelialization After Polytetrafluoroethylene-Covered Stent Implantation for Coronary Aneurysm 190
- Angiographic Patterns of Restenosis After Sirolimus-Eluting Stent Implantation 508
- Molecular Basis of Restenosis and Novel Issues of Drug-Eluting Stents 615
- Re-Restenosis and Target Lesion Revascularization After Treatment of Sirolimus-Eluting Stent Restenosis: Retrospective Analysis From 4 Japanese Hospitals 867
- Drug-Eluting Stents: Insights From Invasive Imaging Technologies 1371
- Silent Very Late Thrombotic Occlusion of Sirolimus-Eluting Stent Confirmed by Directional Coronary Atherectomy 1762
- Significant Association of Coronary Artery Calcification in Stent Delivery Route With Restenosis After Sirolimus-Eluting Stent Implantation 1856
- Predictors and Prognosis of Stent Fracture After Sirolimus-Eluting Stent Implantation 2036

Revascularization
- Impact of Metabolic Syndrome on 10-Year Clinical Outcomes Among Patients With Acute Coronary Syndrome 1454

Risk factors
- Relationship Between Coronary Artery Wall Thickness Measured by 64-Slice Multidetector Computed Tomography and Cardiovascular Risk Factors 681
- Orthostatic Hypertension: A Measure of Blood Pressure Variation for Predicting Cardiovascular Risk 1002
- Association Between Perceived Stress and Plasma B-Type Natriuretic Peptide Concentrations 1055
- High-Normal Blood Pressure and the Risk of Cardiovascular Disease 1381
• Coronary Risk Factor Profile and Prognostic Factors for Young Japanese Patients Undergoing Coronary Revascularization 1459
• Incidence of and Risk Factors for Contrast-Induced Nephropathy After Cardiac Catheterization in Japanese Patients 1518
• Associations Between Metabolic Syndrome and Mortality From Cardiovascular Disease in Japanese General Population, Findings on Overweight and Non-Overweight Individuals: Ibaraki Prefectural Health Study 1635
• Waist Circumference and Waist-to-Height Ratio as Predictors of Cardiovascular Disease Risk in Korean Adults 1643
• Impaired Pulmonary Perfusion Associated With Thymus Hyperplasia in an Infant Candidate for Fontan Operation 2348

Sarcoplasmic reticulum
• Protein Phosphatase Inhibitor-1 Augments a Protein Kinase A-Dependent Increase in the Ca²⁺ Loading of the Sarcoplasmic Reticulum Without Changing Its Ca²⁺ Release 1133
• From the Ryanodine Receptor to Cardiac Arrhythmias 1561

Scintigraphy
• Restored Cardiac Conditions and Left Ventricular Function After Parathyroidectomy in a Hemodialysis Patient: Parathyroidectomy Improves Cardiac Fatty Acid Metabolism Assessed by ¹²³I-BMIPP 1956

Screening
• Criteria of Waist Circumference According to Computed Tomography-Measured Visceral Fat Area and the Clustering of Cardiovascular Risk Factors 1881

Sex
• Physiological Changes in Human Cardiac Sympathetic Innervation and Activity Assessed by ¹²³I-Metaiodobenzylguanidine (MBG) Imaging 310
• Prevalence of Changes in Undiagnosed Glucose Intolerance According to Age and Gender in Japanese Middle-Aged Working People 1062

Shock
• Direct Hemoperfusion Using Polymyxin-B Immobilized Fiber for Septic Shock After Cardiac Surgery 658

Sick sinus syndrome
• Long-Term Electrocardiographic Follow-up From Childhood of an Adult Patient With Brugada Syndrome Associated With Sick Sinus Syndrome: A Case Report 575

Signal transduction
• GSK-3β, a Therapeutic Target for Cardiomyocyte Protection 1184
• Evidence for Rho-Kinase Activation in Patients With Pulmonary Arterial Hypertension 1731

Single nucleotide polymorphism
• Identification of Genetic Markers Associated With High-Density Lipoprotein-Cholesterol by Genome-Wide Screening in a Japanese Population: The Suita Study 1119
• Interaction of ADIPOQ Genetic Polymorphism With Blood Pressure and Plasma Cholesterol Level on the Risk of Coronary Artery Disease 1934
• Association of the Purinergic Receptor P2Y, G-Protein Coupled, 2 (P2RY2) Gene With Myocardial Infarction in Japanese Men 2322

Single-photon emission computed tomography (SPECT)
• Comparative Impact of Scintigraphic Parameters and B-Type Natriuretic Peptide for the Prediction of Major Cardiac Events in the QGS-Prognostic Value in the Elderly (Q-PROVE) Study 1655
• Incremental Prognostic Value of Stress/Rest Gated Perfusion SPECT in Patients With Coronary Artery Disease: Subanalysis of the J-ACCESS Study 2288

Sirolimus-eluting stent
• Delayed Neointimalization on Sirolimus-Eluting Stents: 6-Month and 12-Month Follow up by Optical Coherence Tomography 1033
• Improved Long-Term Prognosis of Elderly Women in the Era of Sirolimus-Eluting Stents 1219
• Significant Association of Coronary Artery Calcification in Stent Delivery Route With Restenosis After Sirolimus-Eluting Stent Implantation 1856
• Predictors and Prognosis of Stent Fracture After Sirolimus-Eluting Stent Implantation 2036
• Clinical Outcomes of Sirolimus-Eluting Stenting After Rotational Atherectomy 2042
• Lack of Clinical Benefit of Improved Angiographic Results With Sirolimus-Eluting Stents Compared With Paclitaxel and Zotarolimus-Eluting Stents in Patients With Acute Myocardial Infarction Undergoing Percutaneous Coronary Intervention 2229

Sleep apnea
• Effectiveness of Nocturnal Home Oxygen Therapy to Improve Exercise Capacity, Cardiac Function and Cardiac Sympathetic Nerve Activity in Patients With Chronic Heart Failure and Central Sleep Apnea 299
• Improvement of Quality of Life With Nocturnal Oxygen Therapy in Heart Failure Patients With Central Sleep Apnea 1255
• Obstructive Sleep Apnea and Cardiovascular Disease 1363
• Valve Repair Improves Central Sleep Apnea in Heart Failure Patients With Valvular Heart Diseases 2148

Smoking
• Influence of Systolic Blood Pressure and Cigarette Smoking on Endothelial Function in Young Healthy People 174
• Chronic Smoking Prevents Amelioration of Endothelial Function in the Course of the Menstrual Cycle 568
• Risk of Smoking and Metabolic Syndrome for Incidence of Cardiovascular Disease: Comparison of Relative Contribution in Urban Japanese Population: The Suita Study 2258

Statin
• Effects of Pretreatment With Statins on Infarct Size in Patients With Acute Myocardial Infarction Who Receive Fibrinolytic Therapy 330
• Treatment With Statin on Atheroma Regression Evaluated by Intravascular Ultrasound With Virtual Histology (TRUTH Study): Rationale and Design 352
• Importance of Racial Signaling Pathway Inhibition in the Pleiotropic Effects of HMG-CoA Reductase Inhibitors 361
• Qualitative and Quantitative Changes in Coronary Plaque Associated With Atorvastatin Therapy 718
• Coronary Plaque Stabilization Followed by Color Code Plaque™ Analysis With 64-Slice Multidetector Row Computed Tomography 772

Plasma Tetrahydrobiopterin/Dihydrobiopterin Ratio: A Possible Marker of Endothelial Dysfunction 955
• The Impact of Pravastatin Therapy on Long-Term Outcome in Patients With Metabolic Syndrome Undergoing Complete Coronary Revascularization 2104
• Effect of Preoperative Atorvastatin Therapy on Atrial Fibrillation Following Off-Pump Coronary Artery Bypass Grafting 2244

Stents
• Delayed Endothelialization After Polyethylenefluoroethylene-Covered Stent Implantation for Coronary Aneurysm 190
• Long-Term Outcomes of Intervention for Unprotected Left Main Coronary Artery Stenosis: Coronary Stenting vs Coronary Artery Bypass Grafting 705
• Ten-Year Patency and Factors Causing Restenosis After Endovascular Treatment of Iliac Artery Lesions 860
· Re-Restenosis and Target Lesion Revascularization After Treatment of Sirolimus-Eluting Stent Restenosis: Retrospective Analysis From 4 Japanese Hospitals 867
· Impact of CYP2C19 Polymorphisms on the Antiplatelet Effect of Clopidogrel in an Actual Clinical Setting in Japan 1498
· Early Stent Thrombosis Because of Stent Dislodgement in a Coronary Artery Aneurysm 1759
· Silent Very Late Thrombotic Occlusion of Sirolimus-Eluting Stent Confirmed by Directional Coronary Atherectomy 1762

**Stress**
· Impact of Severe Earthquake on the Occurrence of Acute Coronary Syndrome and Stroke in a Rural Area of Japan: Experience From the Noto Peninsula Earthquake 1243

**Stroke**
· Novel Aspects of Oxidative Stress in Cardiovascular Diseases 201
· Use of Serum Homocysteine to Predict Stroke, Coronary Heart Disease and Death in Ethnic Chinese: 12-Year Prospective Cohort Study 1423

**Sudden death**
· Sudden Cardiac Death Associated With Churg-Strauss Syndrome 2355

**Surgery**
· Direct Hemoperfusion Using Polymixin-B Immobilized Fiber for Septic Shock After Cardiac Surgery 658
· Long-Term Outcomes of Intervention for Unprotected Left Main Coronary Artery Stenosis: Coronary Stenting vs Coronary Artery Bypass Grafting 705
· Original Papillary Muscle Sandwich Plasty for Ischemic Mitral Regurgitation 1240
· Papillary Muscle Suspension Concomitant With Approximation for Functional Mitral Regurgitation 2061
· Impaired Pulmonary Perfusion Associated With Thymus Hyperplasia in an Infant Candidate for Fontan Operation 2348

**Survival**
· Comparison of Drug-Eluting Stents and Coronary Artery Bypass Grafting for the Treatment of Multivessel Coronary Artery Disease in Patients With Chronic Kidney Disease 1228
· Chronic Kidney Disease as an Independent Risk for Long-Term Adverse Outcomes in Patients Hospitalized With Heart Failure in Japan: Report From the Japanese Cardiac Registry of Heart Failure in Cardiology (J-CARE-CARD) 1442
· Clinical Profiles of Adult Patients With Single Ventricular Physiology 1711
· Survival Analysis in Patients With Preserved Left Ventricular Function and Standard Indications for Permanent Cardiac Pacing Randomized to Right Ventricular Apical or Septal Outflow Tract Pacing 1812

**Sympathetic nervous system**
· Effectiveness of Nocturnal Home Oxygen Therapy to Improve Exercise Capacity, Cardiac Function and Cardiac Sympathetic Nerve Activity in Patients With Chronic Heart Failure and Central Sleep Apnea 299
· Physiological Changes in Human Cardiac Sympathetic Innervation and Activity Assessed by T2-I-Metaiodobenzylguanidine (MIBG) Imaging 310
· Influence of Autonomic Stimulation on the Genesis of Atrial Fibrillation in Remodeled Canine Atria Not the Same as in Normal Atria 468
· Effects of a Pure αβ-Adrenergic Receptor Blocker on Monocrotaline-Induced Pulmonary Arterial Hypertension With Right Ventricular Hypertrophy in Rats 2337

**Syncope**
· Age-Dependent Clinical Characteristics of Micturition Syncope 1651

**Systole**
· Relationship Between Renal Function, Aortic Stiffness and Left Ventricular Function in Patients With Coronary Artery Disease 1740

**Tachyarrhythmias**
· Short-Term Amiodarone Treatment Attenuates the Production of Monocyte Cytokines and Chemokines by C-Reactive Protein and Improves Cardiac Function in Patients With Idiopathic Dilated Cardiomyopathy and Ventricular Tachycardia 639

**Tachycardia**
· Quantitative Analysis and Characteristics of the Electrogams Recorded Within the Non-Coronary Aortic Sinus of Valsalva 838

**Takotsubo cardiomyopathy**
· Morphologically Unique Feature of Recurrent Ampulla (Takotsubo) Cardiomyopathy 371
· Complete Atroventricular Block Associated With Takotsubo Cardiomyopathy 589
· Striking Observations During Emergency Catecholamine Treatment of Cardiac Syncope in a Patient With Initially Unrecognized Takotsubo Cardiomyopathy 1543

**Thrombolysis**
· Thrombolysis With a Novel Modified Tissue-Type Plasminogen Activator, Montepase, Combined With Catheter-Based Treatment for Major Pulmonary Embolism 106

**Thrombosis**
· Nicorandil Attenuates FeCl3-Induced Thrombus Formation Through the Inhibition of Reactive Oxygen Species Production 1371
· Assessment of Sirolimus-Eluting Coronary Stent Implantation With Aspirin Plus Low Dose Ticlopidine Administration: One Year Results From CYPHER Stent Japan Post-Marketing Surveillance Registry (J-PMS) 1038
· Drug-Eluting Stents: Insights From Invasive Imaging Technologies 1498
· Impact of CYP2C19 Polymorphisms on the Antiplatelet Effect of Clopidogrel in an Actual Clinical Setting in Japan 1442
· Role of the Phosphatidylinositol 3-Kinase/Protein Kinase B Pathway in Regulating Alternative Splicing of Tissue Factor mRNA in Human Endothelial Cells 1746
· Long-Term Follow-up of Neointimal Coverage of Sirolimus-Eluting Stents: Evaluation With Optical Coherence Tomography 2300

**Thrombus**
· Significant Association Between Neutrophil Aggregation in Aspirated Thrombus and Myocardial Damage in Patients With ST-Segment Elevation Acute Myocardial Infarction 139
· Delayed Endothelialization After Polytetrafluoroethylene-Covered Stent Implantation for Coronary Aneurysm 190
· Hybrid Epicardial and Endocardial Catheter Ablation in a Patient With Atrial Fibrillation and Suspicious Left Atrial Thrombus 384
· Incidence and Clinical Predictors of Deep Vein Thrombosis in Patients Hospitalized With Heart Failure in Japan 1513
· Advanced Neointimal Growth is Not Associated With a Low Risk of In-Stent Thrombus: Optical Coherence Tomographic Findings After First-Generation Drug-Eluting Stent Implantation 1627

**Tissue Doppler imaging**
· Detection of Diastolic Abnormality by Dyssynchrony Imaging: Correlation With Coronary Artery Disease in Patients Presenting With Visibly Normal Wall Motion 125
· Impact of Obstructive Sleep Apnea on the Atrial Electromechanical Activation Time 249
Characterization of Ventricular Myocardial Performance in the Fetus by Tissue Doppler Imaging 943

Torsade de points
- Complete Attrioventricular Block Associated With Takotsubo Cardiomyopathy 589
- Opposing Effects of Bepridil on Ventricular Repolarization in Humans: Inhomogeneous Prolongation of the Action Potential Duration vs Flattening of Its Restitution Kinetics 1612

Transesophageal echocardiography
- Surgical Treatment of Left Main Coronary Artery Aneurysm: A Case Report 770
- Associations Between Augmentation Index and Severity of Atheroma or Aortic Stiffness of the Descending Thoracic Aorta by Transesophageal Echocardiography 1151

Transplantation
- Hemodynamic and Echocardiographic Evaluation of Orthotopic Heart Transplantation With the Modified Bicaval Anastomosis Technique 1235
- Successful Percutaneous Intervention to Acute Myocardial Infarction Presenting With Typical Chest Pain in Transplanted Heart 2166

Tumor
- Huge Primary Pleomorphic Leiomyosarcoma in the Right Ventricle With Impending Obstruction of Both Inflow and Outflow Tracts 779
- Bioprosthetic Pulmonary and Tricuspid Valve Replacement in Carcinoid Heart Disease From Ovarian Primary Cancer 1554
- Phaeochromocytoma-Induced Cardiogenic Shock Rescued by Percutaneous Cardiopulmonary Bypass System 1753

Type 2 diabetes mellitus
- Prevalence of Changes in Undiagnosed Glucose Intolerance According to Age and Gender in Japanese Middle-Aged Working People 1062

Ultrasound
- Relationship Between Thin Cap Fibroatheroma Identified by Virtual Histology and Angioscopic Yellow Plaque in Quantitative Analysis With Colorimetry 497

Unstable angina
- Efficacy of Abciximab for Patients Undergoing Balloon Angioplasty: Data From Japanese Evaluation of c7E3 Fab for Elective and Primary PCI Organization in Randomized Trial (JEPPORT) 145
- Various Types of Plaque Disruption in Culprit Coronary Artery Visualized by Optical Coherence Tomography in a Patient With Unstable Angina 187

Ventricular function
- Heart Failure With Preserved Ejection Fraction: What is Known and Unknown 404
- Pocket-Sized Transthoracic Echocardiography Device for the Measurement of Cardiac Chamber Size and Function 1092

Ventricular remodeling
- Evaluation of Plasma Granzyme B Levels After Acute Myocardial Infarction: Correlation With Left Ventricular Remodeling 503
- Defibrillator Electrogram T Wave Alternans as a Predictor of Spontaneous Ventricular Tachyarrhythmias in Defibrillator Recipients 55

Ventricular tachycardia
- From the Ryanodine Receptor to Cardiac Arrhythmias 1561
- Chronic Smoking Prevents Amelioration of Endothelial Function in the Course of the Menstrual Cycle 568

Veins
- Vagal Effects on the Occurrence of Focal Atrial Fibrillation Originating From the Pulmonary Veins 48

Ventricles
- Repetitive Endocardial Focal Discharges During Ventricular Fibrillation With Prolonged Global Ischemia in Isolated Rabbit Hearts 1803

Ventricular fibrillation
- d,l-Sotalol at Therapeutic Concentrations Facilitates the Occurrence of Long-Lasting Non-Stationary Reentry During Ventricular Fibrillation in Isolated Rabbit Hearts 39
- Action Potential Alternans in the Right Ventricular Outflow Tract in a Patient With Asymptomatic Brugada Syndrome 580
- Dynamic Change in ST-Segment and Spontaneous Occurrence of Ventricular Fibrillation in Brugada Syndrome With a Novel Nonsense Mutation in the SCN5A Gene During Long-Term Follow-up 584
- Effect of Hypothermia Therapy After Outpatient Cardiac Arrest Due to Ventricular Fibrillation 1877
- Therapeutic Hypothermia (30°C) Enhances Arrhythmogenic Substrates, Including Spatially Discordant Alternans, and Facilitates Pacing-Induced Ventricular Fibrillation in Isolated Rabbit Hearts 2214

Waves
- From the Ryanodine Receptor to Cardiac Arrhythmias 1561

Women