Editorial:
Regression of Atherosclerosis in Humans: Fact or Myth? .......................... M. R. Malinow

Original Articles:
Intravenous Infusion of Prostacyclin Sodium in Man: Clinical Effects and Influence on Platelet Adenosine Diphosphate Sensitivity and Adenosine 3':5'-Cyclic Monophosphate Levels .............................................. Joann L. Data, Basil A. Molony, Martha M. Meininger, and Robert R. Gorman
Effect of Sulfinpyrazone on Ventricular Fibrillation During Acute Myocardial Ischemia ................ Christos B. Moschos, Amparo J. Escobinas, Otto B. Jorgensen, Jr., and Timothy J. Regan
Clinical and Experimental Studies on Electromechanical Dissociation ......................... J.L. Vincent, L. Thijs, M.H. Weil, S. Michaels, and R.A. Silverberg
Effect of Increased Adrenergic Activity on the Relationship Between Electrical and Mechanical Systole ........................................ Haritos Boudoulas, Parashos Geleris, Richard P. Lewis, and Carl V. Leier
Effect of Myocardial Infarction on High-frequency QRS Potentials .......................... Ary L. Goldberger, Valmik Bhargava, Victor Froelicher, and James Covell
Use of Postmenopausal Hormones and Risk of Myocardial Infarction ......................... Christopher Bain, Walter Willett, Charles H. Hennekens, Bernard Rosner, Charlene Belanger, and Frank E. Speizer
Acute Arterial Hypertension During Spontaneous Angina in Patients with Fixed Coronary Stenosis and Exertional Angina: An Associated Rather Than a Triggering Phenomenon ........................................ Jaime Figueras and Juan Cinca

Coronary Artery Spasm During Exercise: Treatment with Verapamil ........................ Ben Freedman, Richard F. Dunn, David R. Richmond, and David T. Kelly
Coronary Hemodynamic Findings During Spontaneous Angina in Patients with Variant Angina .......................................................... Robert L. Feldman, Carl J. Pepine, James L. Whittle, R. Charles Curry, and C. Richard Conti
Patterns of Disturbed Myocardial Perfusion in Patients with Coronary Artery Disease. Regional Myocardial Perfusion in Angina Pectoris ............. Andrew P. Selwyn, Gerald Forse, Kim Fox, Anne Jonathan, and Robert Steiner
Real-time, Two-dimensional Echocardiographic Features of Pacemaker Perforation .......... Bapineedu Gondi and Navin C. Nanda
The Relationship of Pulmonary Valve Motion to the Motion of Surrounding Cardiac Structures: A Two-dimensional and Dual M-mode Echocardiographic Study .......... Stephen E. Green and Richard L. Popp
Size and Motion of the Mitral Valve Annulus in Man. I. A Two-dimensional Echocardiographic Method and Findings in Normal Subjects ............... John A.Ormiston, Pravin M. Shah, Chuwa Tei, and Maylene Wong
Mitral Valve Prolapse: A Consistent Manifestation of Type IV Ehlers-Danlos Syndrome. The Pathogenetic Role of the Abnormal Production of Type III Collagen ................ Allan S. Jaffe, Edward M. Getelman, Glen E. Rodey, and Jouini Uitto
Determinants of Ejection Performance in Aortic Stenosis ........................................... Dominik Huber, Joerg Grimm, Rosemarie Koch, and Hans P. Kravenbuehl
Relation Between Right Ventricular Mass and Cavity Size: An Analysis of 1500 Human Hearts ...................................................... Leo G. Horan, Nancy C. Flowers, and Christopher J. Havelda

(Continued)
Acute Effects of Oral Pibuterol on Myocardial Oxygen Metabolism and Systemic Hemodynamics in Chronic Congestive Heart Failure

Radionuclide Assessment of Peripheral Intravascular Capacity: A Technique to Measure Intravascular Volume Changes in the Capacitance Circulation in Man
David L. Rutten, Frans Jh. Th. Wackers, and Barry L. Zaret

Radiation Exposure to the Pediatric Patient During Cardiac Catheterization and Angiography. Emphasis on the Thyroid Gland
Eric C. Martin, Arthur P. Olson, Carl N. Steeg, and William J. Casarella

Radiation Exposure to the Child During Cardiac Catheterization
J. D. Waldman, P. S. Rummerfield, E. A. Gilpin, and S. E. Kirkpatrick

Comparison of Resection Versus Patch Aortoplasty for Repair of Coarctation in Infants and Children
Peter S. Hesslein, Dan G. McNamara, Mary J. H. Morris, Grady L. Hallman, and Denton A. Cooley

Effects of Oral Disopyramide Phosphate on Induction of Paroxysmal Supraventricular Tachycardia
Steven Swiryn, Robert A. Bauernfeind, Christopher R. C. Wyndham, Ramesh C. Dhingra, Edwin Palileo, Boris Strashberg, and Kenneth M. Roses

Role of Mahaim Fibers in Cardiac Arrhythmias in Man
John J. Gallagher, Warren M. Smith, Jack H. Kasell, D. Woodrow Benson, Jr., Richard Sterba, and Augustus O. Grant

Characteristics of Conduction of Premature Impulses During Acute Myocardial Ischemia and Reperfusion: A Comparison of Epicardial and Endocardial Activation
Hiromu Hamamoto, Thomas Peter, and William J. Mandel, with the technical assistance of Avile McCullen

Case Reports
Concealed Ventricular Parasystole Uncovered in the Form of Ventricular Escapes of Variable Coupling
Gerardo J. Nau, Antonio E. Aldariz, Rafael S. Acunzo, Pablo A. Chiale, Marcelo V. Eltari, and Mauricio B. Rosenbaum

Key References:
Mapping—Cardiac Activation and Repolarization
compiled by John Boineau

Report of the Inter-Society Commission for Heart Disease Resources: A Revised Code for Pacemaker Identification Ad page 58A

News from the American Heart Association Ad page 63

No. 2 (August)

Original Articles:
Electrophysiologic and Histologic Correlations in Chronic Complete Atrioventricular Block
Shin-ichiro Okkawa, Masaya Sugita, Yuji Itoh, Kouei Kitano, Keisuke Hiraoka, Keiji Ueda, and Mototaka Murakami

EDITORIAL: The Indeterminate Representation of Disorders of Conduction and Dysrhythmias on the Surface Electrocardiogram: Some Practical Consequences
Lawrence E. Hinkle, Jr.

Use of Signals in the Terminal QRS Complex to Identify Patients with Ventricular Tachycardia After Myocardial Infarction
Michael B. Simson

Lead Systems for Internal Ventricular Fibrillation

Effects of Sudden Change in Cycle Length on Human Atrial, Atrioventricular Nodal and Ventricular Refractory Periods
Isaac Wiener, Steven Kunke, David Rubin, Joel Kupersmith, Milton Packer, Roberta Pitchon, and Paul Schweitzer

Cardiac Infarction Injury Score: An Electrocardiographic Coding Scheme for Ischemic Heart Disease

Sustained Ventricular Tachycardia: Role of the 12-lead Electrocardiogram in Localizing Site of Origin
Mark E. Josephson, Leonard N. Horowitz, Harvey L. Waxman, Michael E. Cain, Scott R. Spielman, Allan M. Greenspan, Francis L. Marchlinski, and Marilyn D. Ezri

(Continued)
Long-term Management of Sustained, Recurrent, Symptomatic Ventricular Tachycardia with Amiodarone ............................ 273
Juan Carlos Kaski, Luis A. Girotti, Horacio Messuti, Bernardo Ruitzky, and Mauricio B. Rosenbaum

Relationship Between Plasma Levels of Procainamide, Suppression of Premature Ventricular Complexes and Prevention of Recurrent Ventricular Tachycardia .......................... 280
Robert J. Myerburg, Kenneth M. Kessler, Iris Kiem, Kyriacos C. Pefkarakos, Cesar A. Conde, Deborah Cooper, and Agustin Castellanos

Clinical Pharmacology and Antiarrhythmic Efficacy of Encaidine in Patients with Chronic Ventricular Arrhythmias .......................... 290
Roger A. Winkle, Flora Peters, Robert E. Kates, Charles Tucker, and Donald C. Harrison

Ventricular Premature Complexes and Sudden Death After Myocardial Infarction ......... 297
William Ruberman, Eve Weinblatt, Judith D. Goldberg, Charles W. Frank, Banvir S. Chaudhary, and Sam Shapiro

Risk Stratification with Low-level Exercise Testing 2 Weeks After Acute Myocardial Infarction .................................................. 306
Francis M. Weld, King-Lee Chu, J. Thomas Bigger, Jr., and Linda M. Rolnitzky

Impaired Left Ventricular Diastolic Filling in Patients with Coronary Artery Disease: Assessment with Radionuclide Angiography ................. 315
Robert O. Bonow, Stephen L. Bacharach, Michael V. Green, Kenneth M. Kent, Douglas R. Rosing, Lewis C. Lipson, Martin B. Leon, and Stephen E. Epstein

Magnitude of Dilatation of Large and Small Coronary Arteries by Nitroglycerin ........ 324
Robert L. Feldman, Carl J. Pepine, and C. Richard Conti

Acute Effect of Intravenous Dipyridamole on Regional Coronary Hemodynamics and Metabolism ............................................. 333
Robert L. Feldman, Wilmer W. Nichols, Carl J. Pepine, and C. Richard Conti

Myocardial Relaxation, V. Postextrasystolic Contraction-Relaxation in the Intact Dog Heart ......................................................... 345
A.S. Blaustein, W.H. Gaasch, D. Adam, and H.J. Levine

Angiographic Anatomy of the Normal Heart Through Axial Angiography .............. 351
Richardo Ceballos, Benigno Soto, and Lionel M. Bergeron, Jr.

Angiographic Prevalence of High-risk Coronary Artery Disease in Patient Subsets (CASS) ......................................................... 360

Clinical Evaluation of Atenolol in Hypertensive Patients .............................. 368
M. Mohsen Ibrahim and Ragaa Mostallam

Quantitation of Aortic Insufficiency Using a Catheter-tip Velocity Transducer 427

Noninvasive Assessment and Differentiation of Left Ventricular Outflow Obstruction with Doppler Ultrasound .......................... 381
L. Hatle

Two-dimensional Echocardiographic Assessment of Electrocardiographic Criteria for Right Atrial Enlargement ................................ 387
William C. Reeves, William Hallahan, E.J. Schwiter, Thomas J. Ciotola, Edward Buonocore, and William Davidson, with the technical assistance of Eugene Beers

Superior Vena Caval Obstruction After Mustard's Operation: Detection by Two-dimensional Contrast Echocardiography .............. 392
Norman H. Silverman, A. Rebecca Snider, José Coló, Paul A. Ebert, and Kevin Turley

Long-term Hemodynamic Assessment of the Porcine Heterograft in the Mitral Position. Late Development of Valvular Stenosis ........ 397
Lewis C. Lipson, Kenneth M. Kent, Douglas R. Rosing, Robert O. Bonow, Charles L. McIntosh, John Condit, Stephen E. Epstein, and Andrew G. Morrow

Atrial Septal Defect in Patients Ages 60 Years or Older: Operative Results and Long-term Postoperative Follow-Up ......................... 402
Martin G. St. John Sutton, Abdul J. Tajik, and Dwight C. McGoon

The Serum Digoxin Test and Digoxin Toxicity: A Bayesian Approach to Decision Making ............................... 409
Stephen A. Eraker and Lewis Sasse

Case Reports:

Myocardial Dysfunction During Paroxysmal Supraventricular Tachycardia ............... 421
Mary Ann Warnowicz, Barbara A. Santucci, H. Gunther Buchelers, and Pablo Denes

Effects of Isoproterenol on Bradyarrhythmias in Patients with CHF .................. 427
Luis D. Suárez, Andres Kretz, José A. Alvarez, José Martinez Martinez, and Albino M. Perasio

Key References:

History of Cardiology ............................................ 434
compiled by W. Bruce Fye

News from the American Heart Association .................................................. 437

CONTENTS OF VOLUME 64

No. 3 (September)

Current Topics:

Verapamil: Its Potential for Causing Serious Complications in Patients with Hypertrophic Cardiomyopathy .............................................. Stephen E. Epstein and Douglas R. Rosing 437

Original Articles:

Cardiac Hypertrophy in Idiopathic Dilated Congestive Cardiomyopathy: A Clinicopathologic Study .......................................................... Ivor J. Benjamin, Edward H. Schuster, and Bernadine H. Bukley 442

Production of Left Ventricular Cavitary Obliteration in Normal Man ................................................................. Richard Grose, Carol Maskin, Hugo Spindola-Franco, and Tada Yipintsoi 448

Hemodynamic and Angiographic Evaluation of Aortic Regurgitation 8 and 27 Months After Aortic Valve Replacement .......................................................... C. Toussaint, A. Cribier, J.L. Cazor, R. Soyer, and B. Letac 456

Clinical Significance and Hemodynamic Correlates of the Third Heart Sound Gallop in Aortic Regurgitation. A Guide to Optimal Timing of Cardiac Catheterization .......................................................... Abdulla M. Abdulla, Martin J. Frank, Robert A. Erdin, Jr., and Mario I. Canedo 464

Functional Mitral Stenosis in Patients with Massive Mitral Annular Calcification .............................................................. Luís E. Osterberger, Sidney Goldstein, Fareed Khaja, and Jeffrey B. Lakier 472

Obesity and Cardiac Function .......................................................... Oreste de Divitiis, Serafino Fazio, Maurizio Pettito, Giovanni Maddalena, Franco Contaldo, and Mario Mancini 477

Acute Regional Circulatory and Renal Hemodynamic Effects of Converting-enzyme Inhibition in Patients with Congestive Heart Failure .......................................................... Mark A. Creager, Jonathan L. Halperin, David B. Bernard, David P. Faxon, Caroline D. Melidossian, Haralambo Gavras, and Thomas J. Ryan 483


Results of Long-term Vasodilator Therapy in Patients with Refractory Congestive Heart Failure .......................................................... Warren F. Walsh and Barry H. Greenberg 499

Determinants of Drug Response in Severe Chronic Heart Failure. 1. Activation of Vasoonstrictor Forces During Vasodilator Therapy .......................................................... Milton Packer, Jose Meller, Norman Medina, Madeline Yushak, and Richard Gorlin 506

Sensitivity and Specificity of Hemodynamic Criteria in the Diagnosis of Acute Right Ventricular Infarction .......................................................... José Lopez-Sendon, Isabel Coma-Canella, and Carlos Gamallo 515

Myocardial Infarct Size and Location in Relation to the Coronary Vascular Bed at Risk in Man .......................................................... J. Thomas Lee, Raymond E. Ideker, and Keith A. Reimer 526


Hemodynamic Effects of Nitroprusside in Infants with a Large Ventricular Septal Defect .......................................................... Robert H. Beekman, Albert P. Rocchini, and Amnon Rosenthal 553

Tetralogy of Fallot: An Angiographic–Pathologic Correlative Study .......................................................... Benigno Soto, Albert D. Pacífico, Ricardo Ceballos, and Lionel M. Bergeron, Jr. 558


Radionuclide Quantitation of Right-to-left Intracardiac Shunts in Children .......................................................... Claude A. Peter, Brenda E. Armstrong, and Robert H. Jones 572

Use of Equilibrium (Gated) Radionuclide Ventriculography to Quantitate Left Ventricular Output in Patients with and Without Left-sided Valvular Regurgitation .......................................................... Marvin A. Konstam, Joshua Wynne, B. Leonard Holman, Edward J. Brown, Jane M. Neill, and Joseph Kozlowski 578


(Continued)
Agreement in Human Interpretation of Analog Thallium Myocardial Perfusion Images
J. Edwin Atwood, David Jensen, Victor Froehlicher, Kathryn Witzum, Kenneth Gerber, Elizabeth Gilpin, and William Ashburn

Myocardial Thallium-201 Kinetics in Normal and Ischemic Myocardium
Andrew M. Grunwald, Denny D. Watson, Henry H. Holzgreve, Jr., John F. Irving, and George A. Beller

Identification of Pulmonary Emboli in the Dog: Comparison of Angioscopy and Perfusion Scanning
Deborah Shure, Kenneth M. Moser, James H. Harrell II, and Michael T. Harman

Clinical Validity of a Negative Venogram in Patients with Clinically Suspected Venous Thrombosis

George E. Brown Memorial Lecture:
Local Modulation of Adrenergic Neurotransmission
John T. Shepherd and Paul M. Vanhoutte

Editorials:
Are Clinical Trials in Coronary Heart Disease Oversold or Undersold?
Katherine M. Detre, James Ware, and Nathan Mantel

The Randomized Clinical Trial: Bias in Analysis
Graham S. May, David L. DeMets, Lawrence M. Friedman, Curt Furberg, and Eugene Passamani

Original Articles:
The High-risk Angina Patient. Identification by Clinical Features, Hospital Course, Electrocardiography and Technetium-99m Stannous Pyrophosphate Scintigraphy
Harold G. Olson, Kenneth P. Lyons, Wilbert S. Aronow, Perri J. Stinson, John Kuperus, and Harris J. Waters

The Exercise Test in Variant Angina: Results in 114 Patients
Stefano de Servi, Colomba Falcone, Antonello Gavazzi, Antonio Musinini, Ezio Bramucci, Maria Teresa Curti, Carlo Vecchio, Giuseppe Specchia, and Piero Bobba

Localization of Viable, Ischemic Myocardium by Positron-emission Tomography with 11C-Palmitate
Rene A. Lerch, Hans D. Ambos, Stephen R. Bergmann, Michael J. Welch, Michael M. Ter-Pogossian, and Burton E. Sobel

Increased Plasma Concentrations of Platelet Factor 4 in Coronary Artery Disease. A Measure of In Vivo Platelet Activation and Secretion
Shirley P. Levine, JoAnn Lindenfeld, J. Brant Ellis, Nancy M. Raymond, and Linda S. Krentz

Cardiac Tamponade in Medical Patients
Bruce A. Guberman, Noble O. Fowler, Peter J. Engel, Moshe Gueron, and James M. Allen

The Use of Echocardiography in Diagnosing Culture-negative Endocarditis

Key References:
Arrhythmias in Children
compiled by Warren G. Guntheroth

Letters to the Editor

News from the American Heart Association

No. 4 (October)

Correlation of Regional Myocardial Blood Flow and Function with Myocardial Infarct Size During Acute Myocardial Ischemia in the Conscious Pig
Robert M. Savage, Brian Guth, Francis C. White, Arthur D. Hagan, and Colin M. Bloor

Changes in Ischemic Blood Flow Distribution and Dynamic Severity of a Coronary Stenosis Induced by Beta Blockade in the Canine Heart
James D. Buck, Harold F. Hardman, David C. Warltier, and Garrett J. Gross

Comparison of Degree and Extent of Coronary Narrowing by Atherosclerotic Plaque in Anterior and Posterol Transmural Acute Myocardial Infarction
Frank C. Brosius III and William C. Roberts

Magnesium and Trace Metals: Risk Factors for Coronary Heart Disease? Associations Between Blood Levels and Angiographic Findings
Joachim Manthey, Markus Stoelpler, Wolfgang Morgenstern, Egbert Nüssel, Dieter Opherk, Andrea Weintraut, Horst Wesch, and Wolfgang Kübler

Judith A. Kautz, Benjamin S. Bradshaw, and Edwin Fonner, Jr.

Relationship Between Changes in Left Ventricular Inotropic State and Relaxation in Normal Subjects and in Patients with Coronary Artery Disease
Michel F. Rousseau, Hubert Pouleur, Jean-Marie R. Detry, and Lucien A. Brasseur

(Continued)
CONTENTS OF VOLUME 64

No. 5 (November)

Current Topics:

Pulmonary Vascular Disease with Congenital Heart Lesions: Pathologic Features and Causes ........................................... 873
Julien I. E. Hoffman, Abraham M. Rudolph, and Michael A. Heymann

Original Articles:

Systemic Ventricular Function in Patients with Tetralogy of Fallot, Ventricular Septal Defect and Transposition of the Great Arteries Repaired During Infancy ................. 878
Kenneth M. Borow, John F. Keane, Aldo R. Casaneda, and Michael D. Freed

Transvenous Angioplasty of Experimental Branch Pulmonary Artery Stenosis in Newborn Lambs ........................................... 886
James E. Lock, Theresa Niemi, Stanley Einzig, Kurt Amplatz, Barbara Burke, and John L. Bass

Side Effects of Therapy with Prostaglandin E1 in Infants with Critical Congenital Heart Disease ........................................... 893
Alan B. Lewis, Michael D. Freed, Michael A. Heymann, Sharon L. Roehl, and Rosemary Chen Kensey

Prostaglandin E1 in Infants with Ductus Arteriosus-dependent Congenital Heart Disease ........................................... 899
Michael D. Freed, Michael A. Heymann, Alan B. Lewis, Sharon L. Roehl, and Rosemary Chen Kensey

Prevention of Occlusive Coronary Artery Thrombosis by Prostacyclin Infusion in the Dog ........................................... 906
Joseph L. Romson, David W. Haack, Gerald D. Abrams, and Benedict R. Lucchesi

Salvage of Ischemic Myocardium by Dipyridamole in the Conscious Dog ........................................... 915
David S. Blumenthal, Grover M. Hutchins, Bodh I. Judgutt, and Lewis C. Becker

Improved Noninvasive Assessment of Coronary Artery Disease by Quantitative Analysis of Regional Stress Myocardial Distribution and Washout of Thallium-201 ........................................... 924
Jamsish Madadi, Ernest V. Garcia, Daniel S. Berman, Alan Waxman, H.J.C. Swan, and James Forrester

Use of Thallium-201 Redistribution Scintigraphy in the Preoperative Differentiation of Reversible and Nonreversible Myocardial Asynergy ........................................... 936

Changes in Left Ventricular Wall Motion After Coronary Artery Bypass Surgery: Signal or Noise? ........................................... 945
Gary M. Jepson, Paul D. Clayton, T.J. Blair, Harold V. Liddle, Robert L. Jensen, and Steven C. Klausner

Ejection Fraction Response to Exercise in Patients with Chest Pain and Normal Coronary Arteriograms ........................................... 952
Raymond J. Gibbons, Kerry L. Lee, Frederick Cobb, and Robert H. Jones

Noninvasive Evaluation of Exercise Training in College-age Men ........................................... 958

Acute Substantial Benefit of Inotropic Therapy with Amrinone on Exercise Hemodynamics and Metabolism in Severe Congestive Heart Failure ........................................... 966
Steven J. Siskind, Edmund H. Sonnenblick, Robert Forman, James Scheuer, and Thierry H. LeJemtel

Acute Vasodilator Therapy Increases Renal Clearance of Digoxin in Patients with Congestive Heart Failure ........................................... 973
John J. Cogan, Michael H. Humphreys, C. Jeffrey Carlson, Neal L. Benowitz, and Elliot Rapoport

Characteristics of the Resuscitated Out-of-hospital Cardiac Arrest Victim with Congenital Heart Disease ........................................... 977

Pressure-synchronized Cineangiography During Experimental Cardiopulmonary Resuscitation ........................................... 985
James T. Niemann, John P. Rosborough, Mark Hausknecht, Daniel Garner, and J. Michael Criley

Interventricular Septal Motion: Biventricular Angiographic Assessment of Its Relative Contribution to Left and Right Ventricular Contraction ........................................... 992
Vidya S. Banka, Jai B. Agarwal, Monty M. Bodenheimer, and Richard H. Hefant

Ventricular Diastolic Pressure-Volume Relations and the Pericardium. Effects of Changes in Blood Volume and Pericardial Effusion in Dogs ........................................... 997
Helge Refsum, Michael Jänemann, Martin J. Lipton, Claes Sköldebrand, Erik Carlsson, and John V. Tyberg, with the technical assistance of Richard E. Sievers

Functional Response of the Right Ventricle to Myocardial Infarction: Dependence on the Site of Left Ventricular Infarction ........................................... 1005
Alon Marmor, Edward M. Gelman, Daniel R. Biello, Burton E. Sobel, Barry A. Siegel, and Robert Roberts

Effect of EHDP on Calcium Accumulation and Technetium-99m Pyrophosphate Uptake in Experimental Myocardial Infarction ........................................... 1012
L. Maximilian Buja, Andrew J. Toft, Robert W. Parkey, Marion D. Francis, Samuel E. Lewis, Padmakar V. Kulkarni, Frederick J. Bonte, and James T. Willerson

Real-time Inferior Vena Caval Ultrasonography: Normal and Abnormal Findings and Its Use in Assessing Right-heart Function ........................................... 1018
Gary S. Mintz, Morris N. Kotel, Wayne R. Parry, Abdulmassih S. Iskandrian, and Sally A. Kane
Echocardiographic Visualization of Ventricular Septal Defect in Infants and Assessment of Hemodynamic Status Using a Contrast Technique. Comparison of M-mode and Two-dimensional Imaging  
Takashi Funahashi, Hitoshi Yoshida, Shigekazu Nakaya, Toshiki Maeda, and Noboru Taniguchi

Echocardiographic Features of Patients with and Without Residual Defects After Mustard's Procedure for Transposition of the Great Vessels  
Katherine Thompson and Gerald A. Serwer

Histocompatibility Antigens in Black Patients with Essential Hypertension  
Raman Patel and Jarone Johnson

Prevention of Chronic Canine Ventricular Tachyarrhythmias with Bretylium Tosylate  
Eugene Patterson, John K. Gibson, and Benedict R. Lucchesi

Comparison of Right and Left Atrial Stimulation in Demonstration of Dual Atrioventricular Nodal Pathways and Induction of Intranodal Reentry  
David L. Ross, Pedro Brugada, Frits W.H.M. Bar, Eddy J.D.M. Vanagt, Isaac Weiner, Jeronimo Farre, and Hein J.J. Wellens

Sequence of Retrograde Atrial Activation in Patients with Dual Atrioventricular Nodal Pathways  
Ruey J. Sung, Harvey L. Wassman, Sanjeev Saksena, and Zafikar Juma

Case Reports:

Massive Fatal Pulmonary Emboli with Fibriolytic Therapy  
Jonathan C. Goldsmith, Pete Lollar, and John C. Hoak

Key References:

Sudden Death. I. Risk Factors and Epidemiology, Pathology and Pathophysiology  
compiled by Robert J. Myerburg

A.H.A. Special Report: Guidelines For Detection, Diagnosis and Management of Hypertensive Populations  

News from the American Heart Association  

Current Topics:

The Relationship of Cardiac Output and Arterial Pressure Control  
Arthur C. Guyton

Original Articles:

The Mechanisms of Nitroglycerin Action: Stenosis Vasodilatation as a Major Component of the Drug Response  
B. Greg Brown, Edward Bolson, Robert B. Petersen, Cynthia D. Pierce, and Harold T. Dodge

EDITORIAL: Relief of Myocardial Ischemia with Nitroglycerin: What is the Mechanism?  
Robert L. Feldman and C. Richard Conti

Effects of Nitroglycerin and Nitroprusside on Conscious Large and Small Coronary Vessels in Dogs  
Pilar Macho and Stephen F. Vatner

Elevation of Thromboxane B2 Levels in Patients with Classic and Variant Angina Pectoris  
Michihiko Tada, Tsunehiko Kusuya, Michitoshi Inoue, Kazuhisa Kodama, Masayoshi Mishima, Makoto Yamada, Makoto Inui, and Hiroshi Abe

Effects of 12 Months of Intense Exercise Training on Ischemic ST-segment Depression in Patients with Coronary Artery Disease  
Ali A. Ehsani, Gregory W. Heath, James M. Hagberg, Burton E. Sobel, and John O. Holloszy

Demonstration of Training Effect During Chronic Beta-adrenergic Blockade in Patients with Coronary Artery Disease  
Craig M. Pratt, David E. Welton, William G. Squires, Jr., Tim E. Kirby, G. Harley Hartung, and Richard R. Miller

Lack of Beta-adrenoceptor Hypersensitivity After Abrupt Withdrawal of Long-term Therapy with Oxprenolol  
Peter Bolli, Fritz R. Bühler, Ernst A. Raeder, Franz W. Amann, Max Meier, Harald Rogg, and Dieter Burkhardt

Hemodynamic Effects of Atrial Pacing and Prenalterol Infusion in Patients Taking Beta-adrenergic Blocking Drugs  
M. F. Shia, M. A. Ireland, and W.A. Littler

Hemodynamic Effects of N-acetylpromacainide Compared with Procainamide in Conscious Dogs  
Frederick R. Badke, Richard A. Walsh, Michael H. Crawford, Thomas Ludden, and Robert A. O'Rourke

Digitalis-associated Cardiac Mortality After Myocardial Infarction  
Arthur J. Moss, Henry T. Davis, David L. Conard, John J. DeCamilla, and Charles L. Odoroff

An Investigation in Patients with Previous Myocardial Infarction Who Present with Chest Pain  
Andrew Peter Selwyn, Kim Fox, Gerald Forse, Timothy Pratt, and Robert Steiner

(Continued)
Recurrence of Ventricular Fibrillation in Acute Ischemic Heart Disease ................. 1163
K. R. Logan, W. J. McIlwaine, A. A. J. Adgey, and J. F. Pantridge

Etiology, Warning Signs and Therapy of Torsade de Pointes. A Study of 10 Patients ...... 1167
Andre Keren, Dan Tzivoni, Dov Gavish, Joseph Levi, Shmuel Gottlieb, Jesaia Benhorin, and Shlomo Stern

Intermediate-density Lipoprotein and Cholesterol-rich Very Low Density Lipoprotein in Angiographically Determined Coronary Artery Disease .......... 1174
Ryozo Tatami, Hiroshi Mabuchi, Kosei Ueda, Ryousei Ueda, Toshhiro Haba, Tomio Kametani, Seigo Ito, Junji Koizumi, Masayuki Ohta, Susumu Miyamoto, Akira Nakayama, Honin Kanaya, Hisanori Oiwake, Akira Genda, and Ryoyu Takeda

Prognosis of 1000 Young Women Studied by Coronary Angiography .................. 1185
William L. Proudfoot, C. Charles Welch, Carmelindo Siqueira, Fernando P. Morcerf, and William C. Sheldon

Ultrasonic Duplex Scanning for Disease of the Carotid Artery ......................... 1191
Gary Fell, D. J. Phillips, P. M. Chikos, J. D. Harley, B. L. Thiele, and D. E. Strandness, Jr.

Fluorescence Microlymphography ............ 1195
Alfred Bollinger, Kurt Jager, Fritz Sigier, and Jakob Seglias

Association of Asynchronous Protodiastolic Segmental Wall Motion with Impaired Left Ventricular Relaxation .............. 1201
Philip A. Ludbrook, Joseph D. Byrne, and Alan J. Tiefenbrunn, with the technical assistance of Frank R. Reed

Assessment of Preoperative Left Ventricular Function in Patients with Mitral Regurgitation: Value of the End-systolic Wall Stress–End-systolic Volume Ratio ............ 1212
Blase A. Carabello, Stanton P. Nolan, and Lockhart B. McGuire

Acute and Long-term Effects of Vasodilator Therapy on Resting and Exercise Hemodynamics and Exercise Tolerance .............. 1218
Barry M. Massie, Barry Kramer, and Frances Haughom

Comparative Reproducibility and Validity of Systems for Assessing Cardiovascular Functional Class: Advantages of a New Specific Activity Scale .................. 1227
Lee Goldman, Beverly Hashimoto, E. Francis Cook, and Anita Loscalzo

Growth and Development of the Pulmonary Vascular Bed in Patients with Tetralogy of Fallot with or Without Pulmonary Atresia 1234
Marlene Rabinovitch, Victoria Herrera de Leon, Aldo R. Castaneda, and Lynne Reid

A.H.A. Committee Report: Statement on Exercise 1326A

News from the American Heart Association ...... Ad page 7