CONTENTS

No. 1

Controlled Observations on the Effect of Low Sodium Dietotherapy in Essential Hypertension .......................... A. C. Corcoran, Robert D. Taylor and Irvine H. Page 1
Basic Hemodynamic Changes Produced by Aortic Coarctation of Different Degrees
Trilok Chand Gupta and Carl J. Wiggers 17
The Effects of Arterial and Pulmonary Shunts on the Dynamics of Aortic Coarctation
Trilok Chand Gupta 32
Ephraim Shorr, Benjamin W. Zweifach, Robert F. Furchgott and Silvio Baez 42
Studies on the Effect of Oral and Parenteral Administration of Visammin (Khellin) in Patients with Angina Pectoris
Ralph C. Scott, Arnold Iglauer, Robert S. Green, Joseph W. Kaufman, Bernard Berman and Johnson McGuire 80
A Comparison of Coronary Flow Determined by the Nitrous Oxide Method and by a Direct Method Using the Rotameter
Donald E. Gregg, Frank H. Longino, Paul A. Green and Lawrence J. Czerwonka 89
Cavity Potentials of the Human Ventricles
Henry A. Zimmerman and Herman K. Hellerstein 95
The Effect of Posture and of Compression of the Neck on Excretion of Electrolytes and Glomerular Filtration: Further Studies
W. N. Viar, B. B. Oliver, Seymour Eisenberg, T. A. Lombardo, Kathryn Willis and T. R. Harrison 105
Studies on the Relation of Diet, Cholesterol and Atheroma in Chickens
John E. Peterson and Albert E. Hirst 116
Early Relief of Chest Pain by Ethyl Chloride Spray in Acute Coronary Thrombosis.
Case Report .................................................. Janet Travell 120
Clinical Progress: The Patent Ductus Arteriosus. Observations from 412 Surgically Treated Cases .......................... Robert E. Gross and Luther A. Longino 125
Franz Volhard, 1872–1950 ................................................. W. Raab 138
Abstracts ............................................................. 139
Book Reviews ......................................................... 157
American Heart Association ........................................ 159
CONTENTS OF VOLUME III

No. 2

Lewis Atterbury Conner. 1867–1950 .................................................. 161
Tromexan—3,3’-Carboxymethylenbis (4-Hydroxycoumarin) Ethyl Ester. Experimental and Clinical Properties .............. Grafton E. Burke and Irving S. Wright 164
Clinical Evaluation of Dicumarinyl Derivatives with a Metabolic Study of the Radioactively Labeled Anticoagulants in Animals
   Eric P. Hausner, Charles L. Shafer, Marion Corson, Ogden Johnson, Theodore Trujillo and Wright Langham 171
Spatial Vector Electrocardiography. The Clinical Characteristics of S-T and T Vectors
   Robert P. Grant, E. Harvey Estes, Jr. and Joseph T. Doyle 182
Catheterization of the Left Ventricle in Man. Study of Right Bundle Branch Block by Simultaneous Intracardiac Electrocardiography of Both Ventricles
   Morris F. Steinberg, Arthur Seligmann, Irving G. Kroop and Arthur Grishman 198
Situs Inversus of the Abdominal Viscera with Levocardia. Report of Eight Cases Submitted to the Blalock-Taussig Operation
   Maurice D. Young and Herbert E. Griswold 202
Cortisone Therapy in Acute Rheumatic Carditis: Preliminary Observations
   T. N. Harris, W. B. Abrams, T. F. P. Leo and J. P. Hubbard 215
Effect of Ascending an Ordinary Flight of Stairs on the Work of the Heart. Observations on Normal Individuals and on Patients with Coronary Heart Disease
   James A. L. Mathers, Harold I. Griffeath, Robert L. Levy and John L. Nickerson 224
Pathology of the Pulmonary Vascular Tree. II. The Occurrence in Mitral Insufficiency of Occlusive Pulmonary Vascular Lesions
   Donald L. Becker, Howard B. Burchell and Jesse E. Edwards 230
Controlled Myocardial Injury Produced by a Hypothermal Method
   C. Bruce Taylor, C. B. Davis, Jr., Gordon F. Vawter and George M. Hass 239
The Effect of “Sympatholytic” Drugs on the Cardiovascular Responses to Epinephrine and Norepinephrine in Man
   Edward D. Freis, J. Calvin MacKay and William F. Oliver 254
Effects of Bleeding on Electrolyte Excretion and on Glomerular Filtration
   T. A. Lombardo, Seymour Eisenberg, B. B. Oliver, W. N. Viar, E. E. Eddleman, Jr. and T. R. Harrison 260
Adhesiveness of Blood Platelets in Arteriosclerosis Obliterans, Thromboangiitis Obliterans, Acute Thrombophlebitis, Chronic Venous Insufficiency and Arteriosclerotic Heart Disease
   Milton E. Eisen, Mary Catherine Tyson, Sidney Michael and Frances Baumann 271
The Effect of Salt Loading and Salt Depletion on Renal Function and Electrolyte Excretion in Man
   Walter S. Wiggins, Clayton H. Manry, Richard H. Lyons and Robert F. Pitts 275
Visualization of the Coronary Arteries during Life
   James A. Helmsworth, Johnson McGuire, Benjamin Felson and Ralph C. Scott 282
An Occupational Analysis of 580 Cardiac Clinic Patients
   The Staff of the Work Classification Unit, Adult Cardiac Clinic, Bellevue Hospital 289
Clinical Progress: Renal Factor in Congestive Heart Failure ...... Eugene A. Stead, Jr. 294
Abstracts ................................................................................. 300
American Heart Association .................................................... 318

No. 3

Acute Nonspecific Pericarditis. Clinical, Laboratory, and Follow-up Considerations
   David B. Carmichael, Howard B. Sprague, Stanley M. Wyman and Edward F. Bland 321
CONTENTS OF VOLUME III

Large Thymic Tumor Simulating Pericardial Effusion
   Arthur M. Bernstein, Emanuel Klosk, Franklin Simon and Henry A. Brodkin 508
Anatomic Variations of the Orifice of the Human Coronary Sinus
   Herman K. Hellerstein and J. Lovell Orbison 514
Pathology of the Pulmonary Vascular Tree. III. The Structure of the Intrapulmonary Arteries in Cor Triloculare Biatriatum with Subaortic Stenosis
   Jesse E. Edwards and William B. Chamberlin, Jr. 524
Physiologic Studies in Mitral Valvular Disease
   A. Draper, R. Heimbecker, R. Daley, D. Carroll, G. Mudd, R. Wells, W. Falholt, E. C. Andrus and R. J. Bing 531
Circulatory and Respiratory Effects of Adenosine Triphosphate in Man
   Dean F. Davies, Arthur L. Gropper and Henry A. Schroeder 543
Production of Prolonged Arterial Hypertension in Dogs by Chronic Stimulation of the Nervous System. Exploration of the Mechanism Accompanying Increased Intracranial Pressure ...................................................... Robert D. Taylor and Irvine H. Page 551
Cerebral Circulation and Metabolism in Uremia
   Albert Heyman, John L. Patterson, Jr. and Rudolph W. Jones, Jr. 558
The Electrocardiogram in Congenital Heart Disease. A Preliminary Report
   Oglesby Paul, Gordon S. Myers and James A. Campbell 564
Vibrations of Low Frequency over the Precordium
   Franklin D. Johnston and Donald C. Overy 579
Observations on the Electrocardiogram and Ventricular Gradient in Complete Left Bundle Branch Block ........................................ J. F. Pantridge 589
The Spatial Vectorcardiogram in Right Bundle Branch Block
   J. A. Abildskov, C. E. Jackson, G. E. Burch and J. A. Cronich 600
Clinical Progress: Angiography. Charles T. Dotter, Israel Steinberg and Robert B. Ball 606
Abstracts .............................................................................................................. 616
American Heart Association ........................................................................... 638

No. 5
The Effect of Vegetable Fat Ingestion on Human Serum Cholesterol Concentration
   E. A. Hildreth, S. M. Mellinkoff, G. W. Blair and D. M. Hildreth 641
Ventricular Fibrillation Due to Digitalis Preparations. A Review and Report of Two Cases Following Intravenous Administration of Acetyl Strophanthin
   Charles D. Enselberg, James P. Croce, Jr. and Bernard Lown 647
The Effect of Angiocardiography on the Heart as Measured by Electrocardiographic Alterations
   Willard J. Zinn, David C. Levinson, Varner Johns and George C. Griffith 658
Studies Utilizing the Portable Electromagnetic Ballistocardiograph. I. Abnormal HIJK Patterns in Hypertensive and Coronary Artery Heart Disease
   Harry Mandelbaum and Robert A. Mandelbaum 663
Normal Blood Pressure in the Superficial Venous System of Man at Rest in the Supine Position .................................................. Allan Ochsner, Jr., Ralph Colp, Jr. and G. E. Burch 674
The Effect of Local Application of Glyceryl Trinitrate (Nitroglycerine) on Raynaud's Disease and Raynaud's Phenomenon. Studies on Blood Flow and Clinical Manifestations ........... Martin S. Kleckner, Jr., Edgar V. Allen and Khalil G. Wakim 681
Extensive Calcification of the Myocardium. Report of a Case
   A. Carlton Ernestene and John B. Hazard 690
Digital Vascular Resistance in Normal, Polycythemic and Hypertensive States
   Milton Mendlowitz 694
CONTENTS OF VOLUME III

Kidney Function in Cor Pulmonale. Particular Consideration of Changes in Renal Hemodynamics and Sodium Excretion during Variation in Level of Oxygenation
  Alfred P. Fishman, Morton H. Maxwell, Charles H. Crowder and Pablo Morales 703

Blood Pressure in the Unanesthetized Rat. I.
  Frederick Olmsted, A. C. Corcoran and Irvine H. Page 722

Blood Pressure in the Unanesthetized Rat. II. Spontaneous Variations and Effect of Heat
  Frederick Olmsted, A. C. Corcoran and Irvine H. Page 727

The Initial Vibrations of the First Heart Sound
  Timothy Counihan, Addison Lee Messer, Maurice B. Rappaport and Howard B. Sprague 730

The Q-T Interval in Chronic Cor Pulmonale
  James K. Alexander, M. Irene Ferrer, Réjane M. Harvey and André Cournand 733

Retrograde Conduction from Premature Ventricular Contractions, a Common Occurrence in the Human Heart
  Albert Kistin and Milton Landowne 738

Postural Electrocardiographic Changes in Healed Myocardial Infarction
  Bernard L. Brofman, Harold Feil, Herman K. Hellerstein and A. Morgan Jones 752

Abnormal Cardiac Rhythms Caused by Acetylcholine
  David Scherf and Forris B. Chick 764

Clinical Progress: The Effects of Cortisone and ACTH on the Acute Phase of Rheumatic Fever
  Arlie R. Barnes 770

Abstracts ........................................................................................................... 776

American Heart Association ................................................................................. 799

No. 6

The Influence of Respiratory Gas Mixtures on Arterial Pressure and Vascular Reactivity in “Normal” and Hypertensive Dogs
  Irvine H. Page and Frederick Olmsted 801

The Effect of Priscoline on Peripheral Blood Flow in Normal Subjects and Patients with Peripheral Vascular Disorders
  Theodore B. Van Itallie and Charles W. Clarke, Jr. 820

Simplified Determination of Arterial Insufficiency. Plethysmographic Observation of Reactive Hyperemia following Fifteen Minute Arterial Occlusion at the Ankle
  Travis Winsor 830

Ammonium Chloride Acidosis. A Report of Six Cases
  Marvin H. Slezinger and A. Stone Freedberg 837

The Heart in Progressive Muscular Dystrophy
  Jacob Zatuchni, Ernest E. Aegerter, Lyndall Molthan and Charles R. Shuman 846

Cardiac Actinomycosis. A Case Report and Survey of the Literature
  Samuel J. Zoeckler 854

The Effect of “Salt” Hypertension on Atherosclerosis in Chicks Fed Mash without a Cholesterol Supplement
  J. Stamler and L. N. Kate 859

Plasma Cholesterol Levels during Rapid Weight Reduction
  Weldon J. Walker and James A. Wier 864

The Age Factor in Hypercholesteremia and Atheromatosis in the Chick

An Exercise Test for Coronary Insufficiency
  David Littman and Melvin H. Rodman 875

Pressure Curves from the Right Auricle and the Right Ventricle in Chronic Constrictive Pericarditis
  A. Tybjerg Hansen, P. Eskildsen and H. Götzsche 881
Advanced Disturbances of the Cardiac Mechanism in Potassium Intoxication in Man
Harold D. Levine, John P. Merrill and Walter Somerville 889

Anatomic and Electrocardiographic Position of the Heart
Noble O. Fowler and John R. Braunstein 906

Unipolar Bronchial Electrocardiographic Exploration of the Heart in Man. A Preliminary Report
Isac Goldstein, Leon Pardy, Kenneth Chesky, Harold S. Arai, Eugene R. Snyder and Sidney Feuerstein 911

On Evaluating the Einthoven Triangle Theory. J. Scott Butterworth and John J. Thorpe 923

Clinical Progress: Clinical Aspects of Mercurial Diuretics
C. Thorpe Ray and George E. Burch 926

Abstracts ................................................................. 938
CONTENTS

The Influence of Respiratory Gas Mixtures on Arterial Pressure and Vascular Reactivity in "Normal" and Hypertensive Dogs
Irvine H. Page and Frederick Olmsted 801

The Effect of Priscoline on Peripheral Blood Flow in Normal Subjects and Patients with Peripheral Vascular Disorders
Theodore B. Van Itallie and Charles W. Clarke, Jr. 820

Simplified Determination of Arterial Insufficiency. Plethysmographic Observation of Reactive Hyperemia Following Fifteen Minute Arterial Occlusion at the Ankle
Travis Winsor 830

Ammonium Chloride Acidosis. A Report of Six Cases
Marvin H. Sleisenger and A. Stone Freedberg 837

The Heart in Progressive Muscular Dystrophy
Jacob Zatzuchni, Ernest E. Aegerter, Lyndall Molthan and Charles R. Shuman 846

Cardiac Actinomycosis. A Case Report and Survey of the Literature
Samuel J. Zoeckler 854

The Effect of "Salt" Hypertension on Atherosclerosis in Chicks Fed Mash without a Cholesterol Supplement
J. Stamler and L. N. Katz 859

Plasma Cholesterol Levels during Rapid Weight Reduction
Weldon J. Walker and James A. Wier 864

The Age Factor in Hypercholesteremia and Atheromatosis in the Chick

An Exercise Test for Coronary Insufficiency
David Littman and Melvin H. Rodman 875

Pressure Curves from the Right Auricle and the Right Ventricle in Chronic Constrictive Pericarditis
A. Tyhjaerg Hansen, P. Eskildsen and H. Götzsche 881

Advanced Disturbances of the Cardiac Mechanism in Potassium Intoxication in Man
Harold D. Levine, John P. Merrill and Walter Somerville 889

Anatomic and Electrocardiographic Position of the Heart
Noble O. Fowler and John R. Braunstein 906

Unipolar Bronchial Electrocardiographic Exploration of the Heart in Man. A Preliminary Report
Isaac Goldstein, Leon Pordy, Kenneth Chesky, Harold S. Arai, Eugene R. Snyder and Sidney Feuerstein 911

On Evaluating the Einthoven Triangle Theory
J. Scott Butterworth and John J. Thorpe 923

Clinical Progress: Clinical Aspects of Mercurial Diuretics
C. Thorpe Ray and George E. Burch 926

Abstracts

938