EDITORIAL:
Leopold Auenbrugger. His "Inventum Novum"—1761. Herrman L. Blungart... 1

ORIGINAL ARTICLES:
Arteriosclerotic Popliteal Aneurysms. Diagnosis and Management. S. M. Greenstone, T. B. Massell, and E. Craig Heringman.................... 23
The Surgical Treatment of Ventricular Septal Defect in Infancy. The Technic and Results of Pulmonary Artery Constriction. Andrew G. Morrow and Nina S. Braunwald.................... 34
A Histopathologic Study of the Atrioventricular Communications in Two Hearts with the Wolff-Parkinson-White Syndrome. Maurice Lev, Rexford Kennamer, Myron Prinzmetal, and Quintiliano H. de Mesquita........... 41
Treatment of Complete Transposition of the Great Vessels with the Blalock-Hanlon Operation. John L. Ochsner, Denton A. Cooley, Leonard C. Harris, and Dan G. McNamara.................... 51
Comparative Effects of Thyroxin Analogues as Hypocholesteremic Agents. Maurice M. Best and Charles H. Duncan.................... 58
Atherosclerosis in India. An Autopsy Study of the Aorta and the Coronary, Cerebral, Renal, and Pulmonary Arteries. K. S. Mathur, N. L. Patney, and V. Kumar.................... 68
Plasma Lipoprotein Lipase after Subcutaneous Heparin. William E. Connor and Mark L. Armstrong.................... 87

SPECIAL ARTICLE:
The Role of Necrosis in the Origin of Electrocardiographic Alterations Characteristic of Myocardial Infarcton. M. G. Udelnov.................... 110

CLINICAL PROGRESS:

ABSTRACTS.................... 139
NEWS FROM THE AMERICAN HEART ASSOCIATION.................... 149
CONTRIBUTORS TO THIS ISSUE.................... 159
CONTENTS OF VOLUME XXIV

No. 2

PART ONE

EDITORIAL:
Hidden Hazards of Cardiac Pacemakers. Howard B. Burchell................. 161

ORIGINAL ARTICLES:
Sodium Dextro-Thyroxine in Coronary Disease and Hypercholesteremia. Richard J. Jones and Louis Cohen.................................................. 164
Congenital Communication of a Coronary Artery with a Cardiac Chamber or the Pulmonary Trunk ("Coronary Artery Fistula"). Henry N. Neufeld, Richard G. Lester, Paul Adams, Jr., Ray C. Anderson, C. Walton Lillehei, and Jesse E. Edwards.......................... 171
The Mechanism of Respiratory Variation in Splitting of the Second Heart Sound. Robert F. Castle and Kenneth L. Jones........................................ 180
The Pulmonary Vessels in Incipient Left Ventricular Decompensation. Radiologic Observations. Morris Simon........................................... 185
The Genesis of Hyponatremia Associated with Marked Overhydration and Water Intoxication. James M. Stornmont and Christine Waterhouse.... 191
Sequelae of Left Ventricular Puncture with Angiocardiography. Viking Olov Björk, Ingenør Cullhed, Adar Hallén, Herman Lodin, and Elis Malers..... 204
Study of the Mechanism of Hyperlipemia. Serum Chylomicron Fatty Acid Patterns before and after the Ingestion of Different Food Fats. Peter T. Kuo, Arthur F. Wherent, David R. Bassett, and Ezra Staple..................... 213
The Architecture of the Right Ventricular Outflow Tract in the Normal Heart and in the Presence of Ventricular Septal Defects. Robert P. Grant, Fred M. Downey, and Hugh MacMahon.................................................. 223
Retrograde Conduction to the Atria in Ventricular Tachycardia. Albert D. Kistin ................................................................. 236
The Reopened Ventricular Septal Defect. A Syndrome Following Unsuccessful Closure of Interventricular Septal Defects Particularly in Association with Infundibular Stenosis. Harold W. March, Frank Gerbode, and Herbert N. Hultgren.................................................. 250
Systemic and Pulmonary Emboli before and after Mitral Commissurotomy. Frederick Kellogg, Chi Kong Liu, I. William Fishman, and Roger Larsson.. 263
Aneuerysm of the Distal Popliteal Artery and Its Relationship to the Arcuate Popliteal Ligament. Stafford W. Gedge, John A. Spittel, Jr., and John C. Ivins .......................................................... 270
Heart Disease and Workmen’s Compensation. What Are the Costs to the Insurance Carrier? Robert D. Russell and Rodney R. Beard................. 274

SPECIAL ARTICLE:
Reactivity of Cardiac Vessels and Reparative Processes Following Cardiac Infarction. Sergey V. Andreev.................................................. 281

CLINICAL PROGRESS:

ABSTRACTS ................................................................. 304

NEWS FROM THE AMERICAN HEART ASSOCIATION ........................................... 314

CONTRIBUTORS TO THIS ISSUE ................................................................. 318

PART TWO

The Myocardium—Its Biochemistry and Biophysics................................. 321
CONTENTS OF VOLUME XXIV

No. 3

EDITORIAL:
The Physician's Continuing Education. Committee on Professional Education of the American Heart Association ........................................... 543

ORIGINAL ARTICLES:
Gangrene of Lower Extremity Secondary to Extensive Venous Occlusion. James V. Ross, Jr., Archie H. Baggenstoss, and John L. Juergens ....... 549
Intermediate Coronary Syndrome. Rustom Jal Vakil .................................................. 557
The Influence of the Ventriculotomy Site on the Contraction and Function of the Right Ventricle. Harold W. Mareh, J. Keith Ross, William L. Weirich, and Frank Gerbode ................................................................. 572
Reduction of Serum Cholesterol Concentrations by Neomycin, Par- aminosalicylic Acid, and Other Antibacterial Drugs in Man. Paul Samuel and William I. Waithe .............................................................. 578
Urinary Aldosterone and Hypertension. Randall H. Travis, Josephine B. Garst, and Roger Jelliffe ............................................................... 592
Familial Idiopathic Cardiomegaly. Wayne H. Schrader, George A. Pankey, Richard B. Davis, and Athanasios Theologides ........................ 599
A Method of Treatment for Pericardial Pain. Arthur S. Weissbein and Floyd N. Heller ................................................................. 607
A Comparison of the Pulmonary Blood Flow between Left and Right Lungs in Normal Subjects and Patients with Congenital Heart Disease. C. T. Dollery, J. B. West, D. E. L. Wileken, and P. Hugh-Jones .... 617
The Persistence of High Body Sodium in Previously Edematous Patients with Heart Disease. Hugh J. Carroll and Saul J. Farber ........... 626
A Nomogram for Long-Term Anticoagulant Therapy. William R. Tench and Hugh C. Ross ................................................................. 650
Complete Atrioventricular Block due to Cardiac Metastasis of Bronchogenic Carcinoma. Gerald D. Buckberg and Noble O. Fowler ....... 657
Origin of the Right Pulmonary Artery from the Ascending Aorta. Report of a Surgically Corrected Case. Robert M. Armer, Harris B. Shumacker, Jr., and Eugene C. Klatte .................................................. 662

CLINICAL PROGRESS:
The Clinical Significance of the Pulmonary Collateral Circulation. Alfred P. Fishman ............................................................................. 677

ABSTRACTS .................................................................................. 691

NEWS FROM THE AMERICAN HEART ASSOCIATION .................. 702

CONTRIBUTORS TO THIS ISSUE .................................................. 705

No. 4

PART ONE

EDITORIAL:
What is a Normal Electrocardiogram? Franklin D. Johnston ......... 707

Circulation, Volume XXIV, December 1961
CONTENTS OF VOLUME XXIV

ORIGINAL ARTICLES:
The Normal Composite Electrocardiogram. Paul S. Ezra...................... 710
Variant Hemodynamic Patterns in Mitral Stenosis. G. H. Carman and R. L. Lange .................. 712
Effect of Antibiotics on the Serum Cholesterol Concentration of Patients with Atherosclerosis. Alfred Steiner, Elliott Howard, and Suat Akgun ........ 729
The Exercise Test and Prognosis of Coronary Heart Disease. George E. Dimond 736
Surgical Relief of Diffuse Subvalvular Aortic Stenosis. John W. Kirklin and F. Henry Ellis, Jr. ........................................ 739
Body Fluid and Electrolyte Composition in Cardiac Patients with Severe Heart Disease but without Peripheral Edema. A. V. Chobanian, B. A. Burrows, and W. Hollander .................... 743
Myocardial Infarction and Atrial Arrhythmias. Thomas N. James ............. 761
Colloid Goiter and Atherosclerosis. Ronald A. Welsh, Jack P. Strong, and Henry C. McGill, Jr. ........................................ 777
Surgical Anatomy of the Coronary Artery Distribution in Congenital Heart Disease. Keith Reemtsma, Charles G. Longenecker, and Oscar Creech, Jr. 782
The Anthyptensive Mechanisms of Salt Depletion Induced by Hydrochlorthiazide. Bertram M. Winer ........................................ 788
A Clinical Appraisal of the Vectorcardiogram in Myocardial Infarction. II. The Frank System. Paul G. Hugenholtz, Claude E. Porkner, Jr., and Harold D. Levine ........................................ 825

CLINICAL PROGRESS:
The Use of Cinefluorography in Acquired Heart Disease. Joseph Jorgens and Arthur Lieber ........................................... 851

ABSTRACTS ........................................................................ 857

NEWS FROM THE AMERICAN HEART ASSOCIATION ............ 864

CONTRIBUTORS TO THIS ISSUE ........................................ 867

PART TWO
Program and Abstracts, 34th Scientific Sessions of the American Heart Association 871

No. 5

EDITORIAL:
Medical-Student Research—The Medical Students Who Aren't There. Robert P. Grant ........................................... 1123

ORIGINAL ARTICLES:
The Clinical, Hemodynamic, and Pathologic Diagnosis of Muscular Subvalvu-lar Aortic Stenosis. Hermann Menges, Jr., Robert O. Brandenburg, and Arnold L. Brown, Jr. ............................................. 1126

Circulation, Volume XXIV, December 1961
CONTENTS OF VOLUME XXIV

**Experiments in India on “Voluntary” Control of the Heart and Pulse.** M. A. Wenger, B. K. Bagchi, and B. K. Anand ................. 1319

**The Effects of Angiotensin on Pulmonary Circulation and Ventricular Function.** Paul N. Yu, Milton N. Luria, James K. Finlayson, C. Alpheus Stanfield, Herbert Constantine, and F. Joseph Flately ............ 1326

**Radioisotope Scanning of the Precordial Distribution of Iodide in Patients with Myocardial Infarction.** Dean T. Mason, Robert L. Frye, and Henry N. Wagner, Jr. .................... 1338

**Corrective Surgery for Tetralogy of Fallot: Evaluation of Results.** Earle B. Kay, Cid Nogueira, David Mendelsohn, Jr., and Henry A. Zimmerman .... 1342

**Myocardial Metabolism in Progressive Muscular Dystrophy.** J. F. Sundermeyer, S. Gudbjarnason, V. E. Wendt, P. B. den Bakker, and R. J. Bing .... 1348

**Clinical, Pathologic, and Hemodynamic Considerations in Coarctation of the Aorta Associated with Ventricular Septal Defect.** Charles P. Newcombe, Patrick A. Ongley, Jesse E. Edwards, and Earl H. Wood ................... 1356

**Arteriosclerotic Vascular Disease and Testicular Fibrosis.** Frederic G. Dalldorf ........................................... 1367


**Isolated Right Ventricular Hypoplasia with Atrial Septal Defect or Patent Foramen Ovale.** Marvin A. Sackner, Morton J. Robinson, William L. Jamison, and David H. Lewis .................. 1388

**Production of Aortic Regurgitation by Unperforated Aneurysm of the Sinus of Valsalva.** Seymour B. London and Rose E. London .................. 1403

**Roentgen Television Study of Cardiac Calcifications.** N. P. G. Edling .......... 1407

**Direct Communication of a Pulmonary Artery with the Left Atrium: An Unusual Variant of Pulmonary Arteriovenous Fistula.** Russell V. Lucas, Jr., George W. Lund, and Jesse E. Edwards .............. 1409

**SPECIAL ARTICLE:**

Dietary Control of Serum Cholesterol in Clinical Practice. Norman Jolliffe, Ethel Maslansky, Florence Rudensey, Martha Simon, and Alice Faulkner 1415

**CLINICAL PROGRESS:**

Clinical Interpretation of the One-Stage Prothrombin Time. Armand J. Quick .................................................. 1422

**ABSTRACTS** .................................................. 1429

**NEWS FROM THE AMERICAN HEART ASSOCIATION** .................. 1437

**CONTRIBUTORS TO THIS ISSUE** .................................. 1440

**VOLUME AUTHOR INDEX** .......................................... 1443

**VOLUME SUBJECT INDEX** .......................................... 1445