AHA ANNOUNCES AWARDS TO 115 INVESTIGATORS

A total of 112 research investigatorships and fellowships have been approved by the Board of Directors of the American Heart Association for the fiscal year beginning July 1, 1955. Included were 3 career investigators, 48 established investigators and 64 research fellows. This is the first of two groups of awards to be announced by the National Office this year. Monies for these awards are provided by receipts from the 1954 Heart Fund.

The newest awards approved by the Board amount to $695,000, nearly 50% more than the $509,300 allocated for investigatorships and fellowships last year. An additional $489,756 was given in grants-in-aid last year. The latest allocations bring the total amount designated by the Association and its affiliates for research support to more than $10,000,000 since the reorganization of the Association as a voluntary health agency in 1948. The list of award winners follows at the end of this section.

NEW ASSOCIATION STATEMENT CONTAINS LATEST RHEUMATIC FEVER KNOWLEDGE

The revised Association statement on "Prevention of Rheumatic Fever and Bacterial Endocarditis Through Control of Streptococcal Infections," which was published in the February issue of Circulation, is now available in reprint form from the Association and its affiliates as well as from the National Heart Institute of the United States Public Health Service and state and local health departments. The statement incorporates knowledge of new advances in preventive technique made since the Association's first rheumatic fever prevention statement was published in January, 1953.

The statement is being distributed to more than 100,000 physicians by the Association and to 1,500 state and local health officers by the National Heart Institute. It is also being used as a basis for printed and audiovisual materials designed to give parents, teachers, nurses and social workers the knowledge needed to cooperate with the medical profession in preventing rheumatic fever. The medical prophylaxis statement deals with the two major aspects of rheumatic fever control, prevention of first attacks and prevention of recurrences. It was prepared by the Committee on Prevention of Rheumatic Fever and Bacterial Endocarditis appointed by the American Heart Association's Council on Rheumatic Fever and Congenital Heart Disease.

In order to secure the informed and intelligent cooperation from the general public which is necessary to the medical profession's success in the effort to prevent rheumatic fever, the American Heart Association and its affiliates in conjunction with the National Heart Institute are launching a vigorous campaign to guide communities toward the establishment of effective rheumatic fever prevention programs. A "Stop Rheumatic Fever" educational materials unit has been prepared to provide parents, teachers, nurses and social workers with information needed for such cooperation. The following materials are included:

1. "Now You Can Protect Your Child Against Rheumatic Fever," a pamphlet which features a chart advising parents on "When to Call Your Doctor and What to Tell Him About Your Child's Sore Throat."

2. A cartoon film, "Stop Rheumatic Fever," produced by Transfilms, Inc. for the National Heart Institute in cooperation with the American Heart Association, which presents to a lay audience basic information on rheumatic fever prevention through control of streptococcal infections.

3. A discussion guide for use with the film which makes it a suitable accompaniment for a physician's lecture on rheumatic fever.

Reprints of the lay materials as well as of the prevention statement for physicians are available from local heart associations and health departments or from the American Heart Association, 44 East 23rd Street, New York 10, N. Y., and from the Heart Information Center, National Heart Institute, United States Public Health Service, Bethesda 14, Maryland.

PROTECTION AGAINST ENDOCARDITIS IN DENTAL MANIPULATIONS

The problem of protecting dental patients against bacterial endocarditis is treated extensively in the leaflet, How the Dental Can Protect His Patient Against Bacterial Endocarditis. The illustrated folder urges dentists to ask patients undergoing extractions or any other dental procedures whether they have had or do have rheumatic heart disease or a congenital heart defect. When the answer is affirmative, prophylactic utilization of penicillin is recommended. The dosage and methods of administration are specified in a chart which is included in the leaflet. The folder was prepared by the Association in consultation with the American Dental Association.

CARDIAC CONVALESCENT HOMES

As active rheumatic fever abates, the physician is often confronted with the problem of deciding whether a child will do better during the convalescent state in his own home or in an institution. In this situation, the newly-issued manual, Standards for General Convalescent Homes Caring for Cardiac Children, provides a reference guide. The statement, originally prepared by the New York Heart Association, is now available through the American Heart Association and its affiliates.

CARE OF YOUNG RHEUMATIC PATIENT IS SUBJECT OF NEW FILM

The treatment and rehabilitation of a youngster after a rheumatic fever attack is dealt with in “The Valiant Heart” a half-hour, human interest film produced for and being distributed by the Association and its affiliates. “The Valiant Heart” particularly emphasizes the importance of mobilizing all community resources, starting with the young patient’s immediate family and including the physician in general practice, the cardiologist, the town hospital, the public health nurse, the school authorities and the neighbors, in caring for the rheumatic fever victim through the acute and convalescent stages. The film was produced for the American Heart Association by MPO Productions with funds provided by E. R. Squibb and Sons. George C. Stoney was the writer and director.

DIAGNOSIS OF CONGENITAL HEART DEFECTS

A revised edition of the manual, Diagnosis of Congenital Heart Defects in General Practice, has been prepared for the Association and its affiliates by Regina Gluck, M.D., Assistant Clinical Professor of Pediatrics, Children’s Medical Service, Bellevue Hospital, New York. The new edition contains expanded information on those defects which may be treated surgically—patent ductus arteriosus, pulmonary stenosis, tetralogy of Fallot, coarctation of the aorta and vascular ring. It emphasizes restraint on the part of a general practitioner in either predicting surgery or definitely ruling out the possibility until the subject has been fully examined by a cardiologist. It also cautions against imposing excessive restrictions on cardiac children.

Diagnosis of Congenital Cardiac Defects is available to cardiologists, general practitioners, hospitals and clinics from the American Heart Association, 44 East 23rd Street, New York 10, N. Y.

PLAN THREE DAYS OF SCIENTIFIC SESSIONS AT ANNUAL MEETING

The annual Scientific Sessions are planned
for the first three days of the 1955 American Heart Association Annual Meeting to be held at the Jung Hotel, New Orleans, October 22–27.

REGIONAL MEETINGS

A series of six regional meetings in which both medical and lay persons active in the Association and its affiliates will gather to assist local associations in program development will be held this Spring. One full day of each meeting will be devoted to discussion of the rheumatic fever prevention program. Emphasis will be placed on participation of physicians in these discussions. The schedule of meetings follows:

Southern Region, March 30–31, Andrew Jackson Hotel, Nashville, Tenn.
Middle Atlantic Region, April 13–14, Lord Baltimore Hotel, Baltimore.
North Central Region, April 20–21, Leland Hotel, Aurora, Ill.
West Central Region, May 11–12, Town House, Kansas City, Kan.
Pacific and Rocky Mountain Region, May 19–20, Hotel Mar Monte, Santa Barbara, Calif.

CARTOON FILM SEeks TO DISPEL HEART DISEASE MISCONCEPTIONS

Popular misconceptions and exaggerated fears about heart attacks and heart disease so often encountered by physicians are dispelled through the medium of an animated color cartoon, "Pump Trouble" now being distributed by the Association.

"Pump Trouble" employs the blend of humor, art and music which has won wide recognition for its producers, UPA (United Productions of America). The 13½-minute color cartoon, made for the Association, features as its central figure, Cordell Pump, whose overactive imagination convinces him he is the victim of a heart attack. He is prepared to resign himself to invalidism or worse until his doctor clears up his false notions.

CARDIOVASCULAR RESEARCH TRAINING PROGRAM TO BE HELD AT GEORGIA

A postgraduate cardiovascular research and training program, jointly supported by the American Heart Association and the National Heart Institute of the U. S. Public Health Service, will be conducted at the Departments of Physiology and Pharmacology, Medical College of Georgia, Augusta, Ga., starting on July 1. A stipend of $3,400 plus $350 for each dependent and certain expenses will be provided to participants. Inquiries and requests for application forms should be addressed to either of the directors of the program, Dr. W. F. Hamilton or Dr. R. P. Ahlquist, Medical College of Georgia, Augusta, Ga.

CONFERENCE ON PUBLIC HEALTH ASPECTS OF PEDIATRIC CARDIOLOGY

The Seventh Conference on "The Public Health Aspects of Rheumatic Fever and Pediatric Cardiology" conducted by the Department of Pediatrics of the Grace-New Haven Community Hospital will be held from March 28 through April 7.

Physicians, nurses, medical social workers and all others concerned with carrying forth state or local rheumatic fever programs are invited to attend the conference.

Requests for additional information or applications for attendance should be addressed to Ruth Whittemore, M.D., Director, New Haven Rheumatic Fever and Cardiac Program, Department of Pediatrics, Yale University School of Medicine, 333 Cedar Street, New Haven 11, Conn.

GORDON RESEARCH CONFERENCE ON BLOOD, JUNE 13–17

The Gordon Research Conference on Blood, named in honor of Neil E. Gordon, will be held at the Kimball Union Academy, Meriden, New Hampshire, June 13–17. This is the first conference on blood to be held in a series of scientific meetings initiated in 1931. The conference will be devoted to informal presentations and exchanged of information on current and proposed research programs. Among the topics to be treated is Blood Lipids—Their Form, Stability and Fate. Those interested in contributing papers and in participating may secure full information from Herbert L. Davis, Ph.D., Department of Biochemistry, Univer-
sity of Nebraska College of Medicine, Omaha 5, Nebraska.

MEETINGS CALENDAR


April 5: Second Microcirculatory Conference for Physiology and Pathology sponsored by the American Association of Anatomists, Benjamin Franklin Hotel, Philadelphia.

April 10–16: American Society of Experimental Pathology, San Francisco. Cyrus C. Erickson, 847 Union Avenue, Memphis 3.

April 10–16: American Society for Pharmacology & Experimental Therapeutics, San Francisco.

April 12: Carl C. Pfeiffer, 1853 W. Polk Street, Chicago 12.


May 1: American Federation for Clinical Research, Atlantic City, N. J. Dr. William H. Beierwaltes, University Hospital, Ann Arbor, Mich.


ABROAD

April 1–5: Japan Medical Congress, Kyoto University and Kyoto Prefectural Medical College, Kyoto. Dr. Mitsuharu Goto, University Hospital, Medical Faculty of Kyoto University, Kyoto, Japan.


May 23–26: International Surgical Congress, Geneva, Switzerland. Dr. Max Thorek, 1516 Lake Shore Drive, Chicago, Ill.

May 26–31: International Congress of Comparative Pathology. Lausanne. Professor Hauduroy, 19 rue Cesar Roux, Lausanne, Switzerland.

AHA AWARD WINNERS

Following is a complete list of Career Investigators, Established Investigators and Fellows selected by the Research Committee of the Association:

Career Investigators

Lorber, Victor, University of Minnesota Medical School, Minneapolis.

Pappenheimer, John, Harvard Medical School, Boston.

Coons, Albert H., Harvard Medical School, Boston.

Continued Established Investigators

Aikawa, Jerry Kazuo, immunophysiology, University of Colorado School of Medicine, Denver.

Cavert, Henry Mead, metabolism and permeability of heart tissue investigated with isotopic techniques, University of Minnesota Medical School, Minneapolis.

Cohn, Mildred, mechanisms of phosphorylation and phosphate transfer reactions, Washington University School of Medicine, St. Louis.

Conn, Hadley L., Jr., a study of the alterations in pressure-volume-flow relationships within the cardiovascular system produced by direct cardiovascular stresses; and the effect of these alterations on transcapillary kinetics and organ metabolism, University of Pennsylvania Medical School, Philadelphia.

Curran, George Lally, the metabolic aspects of cardiovascular disease with particular reference to lipid metabolism, University of Kansas Medical Center, Kansas City.
Drell, William, biochemical studies of the sympathetic nervous system in relation to cardiovascular function, University of California School of Medicine, Los Angeles.

Eckstein, Richard W., the coronary collateral circulation; the oxygen consumption of the right ventricle, Western Reserve University School of Medicine, Cleveland.


Gaudino, Mario, studies on the intra and extracellular distribution of water and electrolytes in the organism as a whole and in tissues by means of radio-active indicators, New York University College of Medicine, New York.

Gergely, John, energetics and contractile proteins of heart muscle, Massachusetts General Hospital, Boston.

Goodall, McChesney, (a) effect of cervico-stellate ganglionectomy on the adrenaline and noradrenaline content of sheep heart. (b) unknown sympatholytic factor present in mammalian heart, Duke University School of Medicine, Durham, N. C.

Goodyer, Allan V. N., hemodynamic factors affecting electrolyte metabolism and the renal excretion of electrolytes, Yale University School of Medicine, New Haven.

Grisolia, Santiago, enzymatic patterns of nitrogen metabolism in heart muscle, University of Kansas Medical School, Kansas City.

Kaplan, Melvin H., attempt to localize tissue-deposited streptococcal antigens and antibodies in animal and human tissues by means of the fluorescein-labeling technique; possible application to study of the pathogenesis of cardiac and skin lesions in rheumatic fever, House of the Good Samaritan and Children's Medical Center, Boston.

Lepeschkin, Eugene, electro-physiological interpretation of the normal and pathological ventricular complex of the electrocardiogram, University of Vermont, Burlington.

Mann, George V., the cause and prevention of atherosclerosis, Harvard School of Public Health, Boston.

Mateer, Frank M., (1) cardiovascular effects of specific electrolyte depletion and repletion studied by means of dialysis technique; (2) ballistocardiographic studies in the normal and abnormal subject, University of Pittsburgh School of Medicine, Pittsburgh.

Mathews, Martin B., the physical chemistry of the acid mucopolysaccharides of connective tissue and their protein complexes, University of Chicago, Chicago.

Metcalf, James, changes in the maternal circulation during pregnancy and labor. Boston Lying-in Hospital, Boston.

Mommaerts, Wilfried, F. H. M., biochemistry of muscular contraction, Western Reserve University School of Medicine, Cleveland.

Osborn, John J., extra-corporeal circulation, physiology of hypothermia, and intra-cellular fluid and ionic shifts during respiratory acidosis, Stanford University School of Medicine, San Francisco.


Rose, John C., (1) studies of the circulation in the dog using a mechanical left ventricle; (2) a sonic flowmeter; (3) studies in aortic insufficiency; (4) studies on the relationship between arterial pressure and cardiac auscultatory phenomena, Georgetown University Medical Center, Washington, D. C.

Sanadi, D. Rao, studies on (a) oxidative phosphorylation and (b) amino acid metabolism, University of California Medical School, Los Angeles.

Schmidt-Nielsen, Bodil M., comparative kidney physiology, Duke University School of Medicine, Durham, N. C.

Singer, Thomas P., studies on oxidative metabolism of sulfur amino acids in animals; studies on metabolism and function of new coenzymes, Edsel B. Ford Institute for Medical Research, Henry Ford Hospital, Detroit.

Sprinson, David B., (a) biochemistry of one-carbon intermediates; (b) biosynthesis of aromatic compounds in bacteria, Columbia University College of Physicians and Surgeons, New York.

Stamler, Jeremia, experimental atherosclerosis; experimental hypertension, renal function in edema formation, Michael Reese Hospital, Chicago.

Stasisky, Abram B., studies on the basic mechanisms of antibody production in vivo and in vitro, Western Reserve University School of Medicine, Cleveland.

Stefanini, Mario, establishment of 'profile' of tests for diagnosis of thrombotic tendency; relation of the endocrine system to the blood coagulation mechanism and the pathogenesis of thromboembolism; possibilities of employment of fibrinolytin in the treatment of thromboembolism, St. Elizabeth's Hospital, Boston.

Stetson, Chandler A., investigations in rheumatic fever, New York University College of Medicine, New York.

Tobian, Louis, Jr., the relation of steroids and sodium to hypertension; the role of steroids and sodium to hypertension; the role of steroid intoxication in toxemia of pregnancy; the role of emulsifying forces in plasma in pregnancy; the role of emulsifying
forces in plasma in atherosclerosis, University of Minnesota School of Medicine, Minneapolis.

Wessler, Stanford, the pathogenesis of intravascular thrombosis, Beth Israel Hospital, Boston.

New Established Investigators

Abelmann, Walter H., the circulation in disorders of metabolism and the regulatory role of the liver, The Thorndike Memorial Laboratory, Boston City Hospital and Department of Medicine, Harvard Medical School, Boston.

Barker, Earle Stephens, studies in renal physiology—normal and pathologic, University of Pennsylvania, Renal Study Section, Philadelphia.

Beck, William Samson, the mechanism by which hydrogen made available by carbohydrate oxidation is utilized for fatty acid synthesis, New York University College of Medicine, New York.

Briller, Stanley Arthur, energetics of the myocardium, New York University College of Medicine, New York.

Brodsky, William Aaron, renal and electrolyte metabolism, University of Louisville School of Medicine, Louisville.

DuBois, Arthur Brooks, gas exchange in the lungs, mechanisms of breathing, and pulmonary capillary blood flow, Graduate School of Medicine, University of Pennsylvania, Philadelphia.

Farber, Saul J., the role of electrolytes and their relationship to extracellular and intracellular organic constituents in heart disease and other diseases producing edema, New York University College of Medicine, New York.

Goldhwaite, David Atwater, the biosynthesis of purine nucleotides, Western Reserve University School of Medicine, Cleveland.

Leaf, Alexander, a study of the factors which regulate fluid and electrolyte balance, Massachusetts General Hospital, Boston.

Mackler, Bruce, studies on the metabolic sequences involved in electron transport in mammalian tissues, Institute for Enzyme Research, University of Wisconsin, Madison.

Paterson, Philip Young, pathogenesis of selected forms of tissue damage, University of Virginia School of Medicine, Charlottesville, Va.


Zueifach, Benjamin William, biochemical analysis of structural elements of blood-tissue barrier, Laboratory of Cellular Physiology, New York University, New York.

New Research Fellowships

Anderson, George Spaulding, studies on the visceral circulation in patients with various types of acquired and congenital heart disease, under J. W. Culbertson, State University of Iowa Hospitals, Iowa City.

Ballon, Jonathan Daniel, studies in pulmonary embolism, under Stanford Wessler, Beth Israel Hospital, Boston.

Boucot, Nancy George, fluid and electrolyte balance with pulmonary and renal emphasis, under John P. Merrill, Peter Bent Brigham Hospital, Boston.

Bronner, Felix, mechanisms of calcification, with special reference to the role of chondroitin sulfate, under T. M. Rivers, The Rockefeller Institute for Medical Research, New York.

Brown, James Lawrence, role of adrenergic amines in cardiovascular disease, under Ralph Eugene Smith, C-V Laboratory, Veterans Administration Hospital, University of Minnesota, Minneapolis.

Bruce, Walter Richard, mechanism of action of induced hypothyroidism when it alleviates symptoms in angina pectoris and congestive heart failure, under Herrman Blumgart, Beth Israel Hospital, Boston.

Chao, Fu-Chuan, a study of nucleoproteins in yeast, chick embryo and mammalian tissues, under J. Murray Luck, Stanford University, San Francisco.


Corcoran, John William, the biosynthesis of porphyrins, under David Shemin, Columbia University College of Physicians and Surgeons, New York.

Damon, Albert, constitutional factors in health, occupation, and disease, under William H. Sheldon, Columbia-Presbyterian Medical Center, New York.

Davidson, Douglas George, effect of clamping renal artery on Na+ clearance, under Robert W. Berliner, National Institutes of Health, Bethesda, Md.

Dickerman, Herbert William, mechanisms of biological oxidations and phosphorylations in isolated mitochondria and in extracts and enzymes derived from mitochondria, under Albert Lehninger, Johns Hopkins School of Medicine, Baltimore.

Finnerty, Frank A., Jr., (1) investigations on toxemia of pregnancy; (2) studies on the cerebral and cardiac hemodynamics in postural hypotension; (3) cerebral and cardiovascular studies during hypotensive and freezing "anesthesia", under Hugh H. Hussey, Georgetown Medical Division, District of Columbia General Hospital, Washington, D. C.

Frazier, Howard Stanley, the effect of ouabain on the potassium transport of the normal and failing myocardium of the frog, under Arthur K. Solomon, Harvard Medical School, Boston.

Gonzalez, I. Ernest, the influence of steroid hormones on the histochemistry of the vascular bed and its response to injury—a study in atherogenesis, under Robert H. Furman, Oklahoma Medical Research Foundation, Oklahoma City.

Gordon, David Buddy, an experimental study of malignant hypertension, under G. W. Pickering, Medical Unit, St. Mary's Hospital, London, England.
Gordon, Gerald S., study of cardiac metabolism, under J. D. Myers, Duke University Hospital, Durham, N. C.

Hatch, Frederick Tasker, biochemical aspect of a degenerative disease of man, under Irwin W. Sizer, Massachusetts Institute of Technology, Cambridge, Mass.

Heath, Edward Charles, function of the direct oxidative pathway for glucose in the cell, under B. L. Horecker, Institute of Arthritis and Metabolic Diseases, National Institutes of Health, Bethesda, Md.

Hoshiko, Tom, the excretion of chloride by the perfused frog kidney, under Hans H. Using, Laboratory of Zoophysiology, University of Copenhagen, Denmark.

Huckabee, William Edward, effects of cardiovascular disease on oxidative and non-oxidative metabolism, under Robert W. Wilkins, Massachusetts Memorial Hospitals, Boston.

Killip, Thomas, Cardio pulmonary function in obesity, under Daniel Lukas, New York Hospital, New York.

Knisely, William Hagerman, direct microscopic study of the responses of normal mammalian lung vasculature to various stimuli, under Eugene A. Stead, Jr. and Joseph Markee, Duke University School of Medicine, Durham, N. C.

Kuida, Hiroshi, measurement of regional blood volumes and flows; physiological studies during cardiac surgery and transbronchoscopic left heart catheterization, under Lewis Dexter, Peter Bent Brigham Hospital, Boston.

Kuo, Peter T., the study of the intravascular distribution of plasma lipoprotein particles as they are influenced by the flow dynamics, under Calvin F. Kay, University of Pennsylvania, Philadelphia.

Lamfrom, Hildegard, studies on the mechanism of experimental renal and human hypertension, under Jens Bing, Institute for General Pathology, University of Copenhagen, Denmark.

Lazzarini, Jr., Abel Alfred, studies of the metabolic and immunological changes occurring in transplanted tissues, under J. William Hinton, New York University-Bellevue Medical Center, New York.

Matthews, Edward Carshore, polarographic measurement of oxygen tension in infants and children, under Samuel Kaplan, University of Cincinnati, Cincinnati.

Nadell, Judith, the relation of potassium metabolism to acid-base balance, under Iaidore S. Edelman, University of California School of Medicine at The San Francisco County Hospital, San Francisco.

Nanninga, Luddo B., binding of ions to heavy and light moromosin and tomyosin binding of adenosine, adrenine, ATP, ADP, etc. to the same proteins, under Albert Szent-Gyorgyi, Institute for Muscle Research, Woods Hole, Mass.

Schmidt, Willard Carl, a study of the host response to streptococcal antigens and the localization of these antigens in host tissue: I. the type-specific M protein; II. the non-type-specific nucleoproteins, under Charles H. Rammelkamp, Cleveland City Hospital, Cleveland.

Sieker, Herbert Otto, the regulation of the circulation in small blood vessels, veins and pulmonary vessels in relation to the function of organ systems and tissue metabolism in normal and diseased states, under Eugene A. Stead, Jr., Duke University School of Medicine, Durham, N. C.

Shapiro, Bernard, the role of sulfhydryl compounds in the active transfer of substances across cell membranes, under J. Russell Elkinton, Hospital of the University of Pennsylvania, Philadelphia.

von Kaulla, Kurt Nikolai, the activity of the components of the fibrinolytic and clotting system in cardiovascular diseases with special consideration of the excretion of these components with the urine, under Gordon Meiklejohn, University of Colorado School of Medicine, Denver.

Weiss, Arthur J., investigation of the kinetics of the reactions between various components of the coagulation system, under L. M. Tocantins, Jefferson Hospital, Philadelphia.

Weissler, Arnold, Marvin, studies on liver circulation and metabolism, under Jack D. Myers, Duke University Hospital, Durham, N. C.

Renewal Research Fellowships

Brewster, William Russell, Jr., relationship of 1-thyroxine to cardiovascular, calorigenic and metabolic effects of 1-epinephrine and 1-norepinephrine, under Dean A. Clark, Massachusetts General Hospital, Boston.

Camara, Augusto A., further studies of the problem of edema, including the mechanism by which corticotropin (ACTH) relieves resistant cardiac edema; and the nature of edema in beriberi and eclampsia with special reference to electrolyte metabolism and some endocrine factors, under Agerico B. M. Sison, College of Medicine, University of the Philippines, Manila.

Childs, Alfred Wheeler, the relation of anion loading to the distribution of delay of sodium excretion in man; the effect of refrigeration hypothermia on renal function, under Stanley E. Bradley, Columbia University College of Physicians & Surgeons, New York.

Done, Alan K., relationship of salicylates to pituitary-adrenal system and its secretions, under Vincent C. Kelley, University of Utah.

Dontas, Anastasius S., pharmacology of anti-hypertensive agents; electro-physiological investigation of prolonged altered circulatory homeostasis, under Cyrus C. Sturgis, University of Michigan Medical School, Ann Arbor.

Flavin, Jr., Martin, mechanism of action of B-keto thiolase of heart muscle; metabolism of propionic
acid in heart muscle, under Severo Ochoa, New York University Medical School, New York.
Friedman, Edward W., bacterial factor in traumatic shock, under Jacob Fine, Beth Israel Hospital, Boston.
Gibson, William, study of an external electric cardiac pacemaker in Stokes-Adams disease and circulatory arrest; pathology of the heart and its relation to the clinical manifestations of congestive failure, under Herrman L. Blumgart and Paul M. Zoll, Beth Israel Hospital, Boston.
Gunn, Chesterfield Gavrin, Jr., the influence of C.N.S. mechanisms on the cardiovascular system and its disorders, under H. W. Magoun, University of California, Los Angeles.
Hackel, Donald Benjamin, myocardial metabolism studied by coronary venous catheterization in intact animals, under Thomas D. Kinney, Western Reserve University at City Hospital, Cleveland.
Hagans, James Albert, studies as to the role of the autonomic nervous system and possible humoral factors involved in the maintenance of vasomotor tone in certain disease states and during adrenal steroid therapy, under Eugene B. Ferris and Albert A. Brust, Emory University School of Medicine, Atlanta.
Jaroslovsky, Oleg, rates of synthesis and breakdown of high energy phosphates in the normal and failing mammalian heart, under Victor Lorber, University of Minnesota, Minneapolis.
Hodaver, Jacques, the physiology of the mast cell and its relation to cardiovascular disease, under Albert S. Gordon, New York University Graduate School of Arts and Science, New York.
Porter, Richard, factors governing the distribution of acid among the extra- and intra-cellular spaces, under William B. Schwartz, New England Center Hospital, Boston.
Rappaport, Elliot, pulmonary red cell, plasma, and extracellular fluid volumes under conditions of varying circulatory stress.
Reiss, Oscar Kully, the mechanism of action of a hypocholesteremic factor isolated from brain, under Richard J. Jones, University of Chicago, Chicago.
Rudolph, Abraham Morris, the study of pulmonary hypertension in congenital heart disease, under Charles A. Janeway, Harvard Medical School, Boston.
Sharp, John Turner, hemodynamic studies in valvular heart disease, with particular reference to the brachial artery pulse pressure curve, under David G. Greene, University of Buffalo School of Medicine, Buffalo, N. Y.
Sheppard, Erwin, electrostatic forces involved in blood coagulation and the mode of action of ionic anticoagulants, under Irving S. Wright, New York Hospital-Cornell Medical Center, New York.
Spurr, Gerald Baxter, Cardiovascular adjustments to prolonged, profound hypothermia, under Steven M. Horvath, State University of Iowa, Iowa City.
Surawicz, Borys, studies of genesis and mechanism of the electrocardiographic patterns of electrolytes imbalance, under Samuel Bellet, Philadelphia General Hospital, Philadelphia.
Walker, W. Gordon, changes in plasma volume and capillary permeability in congestive heart failure, under A. M. Harvey and E. C. Andrus, Johns Hopkins University School of Medicine, Baltimore.
Walters, Donald Hermann, the effect of calcium and magnesium on the sodium and potassium transport in the human erythrocyte and its relationship to cardiac muscle physiology (i.e. calcium-magnesium antagonism), under A. K. Solomon, Harvard Medical School, Boston.
Weiss, Samuel Bernard, the synthesis of phospholipids in cell free systems, under Eugene P. Kennedy, Ben May Laboratory, University of Chicago, Chicago.
Wennesland, Reidar, studies of blood volume in healthy individuals and selected disease states, under Ellen Brown and J. Hopper, Jr., University of California Medical Center, San Francisco.

Continued Research Fellow

Nelson, Clifford V., the relationship between individual cardiac fiber response and the electrocardiogram, under Hans H. Hecht, University of Utah Medical School, Salt Lake City.
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Indications: Mictine is useful primarily in the maintenance of an edema-free state and in the initial and continuing control of patients in mild congestive failure. Mictine may be used also for initial and continuing diuresis in more severe congestive states, particularly when mercurial diuretics are contraindicated.

Administration: The usual dosage for the average patient is one to four tablets daily with meals, in divided doses on an interrupted schedule. An interrupted dosage schedule may be accomplished by giving the drug on alternate days or for three consecutive days and then omitting it for four days.

For severe congestive states the dosage is four to six tablets daily with meals, in divided doses on interrupted schedules similar to those already mentioned.

Supplied: Uncoated tablets of 200 mg.

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Bodily Physiology in Mental and Emotional Disorders

By MARK D. ALTSCHULE, M.D.

'Practicing internists,' says Dr. Altschule, "and also discerning surgeons, are plagued by the fact that daily they see evidence of the influence of emotion on visceral function in healthy and in sick persons but have at hand no extensive body of physiologic data that might illuminate their clinical observations...."

Yet medical men and psychiatrists alike must have a firmer basis than speculation if they are to understand patients' reactions to emotional factors, and a more inclusive scientific correlation of facts than the sum of random observations if they are to understand the nature and management of these reactions. This is the purpose of the author's new work:

To relate physiologic data to clinical phenomena that the physician may gain a better understanding of the manifestations of emotional disturbances.

This book will interest students of medicine at every level and also their teachers. Since it discusses the physiologic effects of emotion on all parts of the body, it will be useful to practitioners in every branch of medicine. For those interested in psychosomatics it will point out new directions; for researchers, the extensive bibliographies will be of inestimable value. As a highly critical work, subjecting to factual examination some of the more extreme views of the psychologic approach, it reduces speculation to a minimum and emphasizes physiologic evidence drawn from clinical experience.

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This manual presents in concise form the essential details for the performance and critical evaluation of those common procedures used daily in laboratory and office. Dr. Cartwright has chosen a single method for each determination based on simplicity, accuracy, reliability, time of performance, and cost and availability of equipment. This is not only a well organized practical book for your own use, but it is excellent for recommending to your technician. (200 pp., 27 illus., $3.00)

The Coagulation of Blood

edited by Leandro M. Tocantins, M.D.

This book is an up-to-date selection of methods of blood study, prepared with the help and under the sponsorship of the Panel on Blood Coagulation of the Committee on Medicine and Surgery of the National Academy of Sciences, National Research Council. It was specifically planned as a book to which investigators and technicians could refer for practical general guidance. The contributors are outstanding workers in the field of blood coagulation, including Benjamin Alexander, K. M. Brinkhouse, R. T. Carroll, E. P. Cronkite, J. B. Graham, R. R. Holburn, Louis B. Jaques, Frederic J. Johnson, R. D. Langdell, E. C. Loomis, Robert L. MacMillan, Frank D. Mann, J. H. Milstone, W. H. Seegers, and Leandro M. Tocantins. (300 pp., 17 illus., $5.75)

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