Studies on Blood Formation and Destruction in the Polycythemia of High Altitudes ........................................ César F. Merino 1
The Hemorrhagic Syndrome of Acute Ionizing Radiation Illness Produced in Goats and Swine by Exposure to the Atomic Bomb at Bikini, 1946
E. P. Cronkite 32
A Hemophilia-like Disease with Prolonged Coagulation Time and a Circulating Anticoagulant. Report of a Case in a Female
O. Herman Dreskin and Nathan Rosenthal 46
Dangerous Universal Donors. I. Observations on Destruction of Recipient’s A Cells after Transfusion of Group O Blood Containing High Titer of A Antibodies of Immune Type not Easily Neutralizable by Soluble A Substance ........................................ Donald M. Ervin and Lawrence E. Young 61
Phase Microscopy Studies of Hodgkin’s Disease Lymph Nodes in Relation to Histogenesis of the Sternberg-Reed Cell
George T. Hoffmann and Antonio Rottino 74
The Localization of Lipids in Human Blood and Bone Marrow Cells
Marvin L. Bloom and George B. Wislocki 79
Observations on the Hematologic Values of the Japanese Fred M. Snell 89
Editorial: Bone Marrow Examinations and the “L. E.” Cell
William Dameshek and Marvin L. Bloom 101
Abstracts ................................................................................................................... 103
Book Reviews .......................................................................................................... 106

The Treatment of Erythroblastosis Fetalis by Transfusion with Sedimented Red Cells ........................................ Samuel Pennell 107
Reactions to Single and Multiple Transfusions. Comparison between Homologous and Conditioned O Blood Transfusions
Niels C. Klenodshoj and Ernest Witebsky 123
Transfusion Reactions to a Plasma Constituent of Whole Blood: Their Pathogenesis and Treatment by Washed Red Blood Cell Transfusions
William Dameshek and Jacob Neber 129
CONTENTS

The Effect of Folic Acid on the Central Nervous System of Normal Subjects and Subjects with Anemia other than Pernicious Anemia
Jonas Weissberg, T. H. McGavack, Mildred Vogel and S. Kenigsberg 148

The Action of Pteroylglutamic Acid on Blood Dyscrasias Induced by Thiouracil and Propylthiouracil
R. A. Delor and H. G. Petering 155

The Effect of 4-Amino-Pteroylglutamic Acid (Aminopterin) on Human Leukocytes in Vitro
F. W. Gunz 161

The Effects of 4-Amino-N¹-Methyl-Pteroylglutamic Acid on the Leukocytes of the Normal and Leukemic Mouse
J. H. Burchenal, J. L. Biedler, J. Nutting and G. D. Stobbe 167

Lymphocytes in Thoracic Duct, Intestinal and Hepatic Lymph
Joseph D. Mann and George M. Higgins 177

Plasmacytosis in Diseases Other than the Primary Plasmacytic Diseases. A Report of Six Cases
Robert S. Fadem and John E. McBirze 191

Abstracts 201

News and Views 207

Book Reviews 208

Granulomatous Lesions in the Bone Marrow in Infectious Mononucleosis. A Comparison of the Changes in the Bone Marrow in Infectious Mononucleosis with those in Brucellosis, Tuberculosis, Sarcoidosis and Lymphatic Leukemia
Ruth F. Hovde and R. Dorothy Sundberg 209

Hereditary Nonspherocytic Hemolytic Anemia
William H. Crosby 233

Studies on Charcot-Leyden Crystals
William W. Ayres and N. M. Starkey 254

Acid and Alkaline Phosphatase in White Cells. Data for the Lymphocyte and the Polymorphonuclear Leukocyte of Man and the Rabbit
W. F. Haight and R. J. Rossiter 267

Hemoglobin Levels among Seven to Fourteen Year Old Children in Saskatoon, Canada
W. W. Hawkins and Dorothy K. Kline 278

Hypersplenism Associated with Follicular Lymphoblastoma. Report of a Case with Splenectomy
Lawrence Berman, Alfred A. Klein, Herman J. Linn and Gaylord S. Bates 286

Editorial: Red Cell Shape and Molecular Arrangement of Hemoglobin
Eric Ponder 293

Abstracts 295

News and Views 302

Book Reviews 302

Prothrombin, Thromboplastin, Ac-Globulin and Platelet Accelerator: Quantitative Interrelationships
Robert I. McClaughry and Walter H. Seegers 303

The Relationship of Plasma Prothrombin Concentration and the Degrad-
CONTENTS

Ralph F. Jacox and Robert F. Bays

William G. Clark and Edith Jacobs

John P. Wyatt and Sheldon C. Sommers

H. E. Taylor and W. W. Simpson

Howard E. Skipper, William H. Riser, Jr., and Constance W. Nolan

Kurt R. Reissmann

Frank A. Bassen and Abraham L. Kornweig

William Dameshek

Karl Singer, Arno G. Motulsky and Jacob N. Shanberge

Richard M. Angle and Howard L. Alt

Philip Sturgeon and Gurth Carpenter

E. R. Movitt

Marco Bruschi and John S. Howe

From www.bloodjournal.org by guest on January 22, 2018. For personal use only.
## CONTENTS

on Embryonic Erythropoiesis. II. Comparison of the Effect of Liver Extract and Pteroylglutamic Acid (PGA)

*Oliver P. Jones and Adolph Smith* 499

Experimental Anemias in the Rat. I. Macrocytic Anemia in Chronic Pteroylglutamic Acid Deficiency and after Splenectomy in Bartonella Muris Infection ........................................... *E. Kodicek and K. J. Carpenter* 512

II. The Effect of Various Sulfonamides in Producing a Pteroylglutamic Acid Deficiency and the Pteroylglutamic Acid Activity of Test Substances ........................................ *E. Kodicek and K. J. Carpenter* 540

Dangerous Universal Donors. II. Further Observations on in Vivo and in Vitro Behavior of Isoantibodies of Immune Type Present in Group O Blood .......... *Donald M. Ervin, Richard M. Christian and Laurence E. Young* 553

Thrombopathic Thrombocytopenia: Successful Transfusion of Blood Platelets *Erwin O. Hirsch, Jean Favre-Gilly and William Damashek* 568

The Sternal Marrow Aspiration of Amyloid in Multiple Myeloma

*Sidney Trubowitz* 581

Abstracts ................................................................. 586

News and Views .......................................................... 595

Book Reviews ............................................................ 595

---

No. 7

The Supravital Method in the Study of the Cytology of Blood and Marrow Cells ........................................... *Joseph L. Schwind* 597

Studies on the Histamine Content of Blood, with Special Reference to Leukemia, Leukemoid Reactions and Leukocytoses

*William N. Valentine, Morton Lee Pearce and John S. Lawrence* 623

Reticulocyte Ripening in Experimental Anemia and Hypoproteinemia. Effect of Amino Acids in Vitro ............ *A. Nizet and F. S. Robscheit-Robbins* 648

The Phosphatases of Human Erythrocytes ....................... *Helen Quincy Woodard* 660

Acute Infectious Lymphocytosis ................. *John B. Moyer and George S. Fisher* 668

Erythrophagocytosis in Hemolytic Disease of the Newborn. A Report of Twenty-five Cases .................... *Mary B. Cooper* 678

Abstracts ................................................................. 682

News and Views .......................................................... 692

Book Review ............................................................ 692

---

No. 8

Studies on the Relationships of Vitamin B₁₂, Folic Acid, Thymine, Uracil, and Methyl Group Donors in Persons with Pernicious Anemia and Related Megaloblastic Anemias


Blood Factor in Acute Disseminated Lupus Erythematosus. II. Induction of Specific Antibodies against L. E. Factor

*John R. Haserick and Lena A. Lewis* 718
CONTENTS

The Effect of Administration of Epinephrine on the Leukocyte Counts of Normal Subjects... Celin White, Tsuin Hwa Ling and Arnold M. Klein 723
Changes in Circulating Leukocytes following the Administration of Adrenal Cortex Extract (ACE) and Adrenocorticotrophic Hormone (ACTH) in Infectious Mononucleosis and Chronic Lymphatic Leukemia
Richard H. Saunders, Jr., and Elijah Adams 732
The Nature of Plasma Antithrombin Activity
Peter D. Klein and Walter H. Seegers 742
The Effect of Vitamin B12 on the Leukopenia Induced by Radiation
Robert E. Carter, Elizabeth Busch and Verda Strang 753
The Effect of Cysteine on the Peripheral Blood of the Irradiated Rat
Harvey M. Patt, Douglas E. Smith and Eugenia Jackson 758
The Uptake of Radioactive Iodine by the Thyroid Gland of Leukemic Patients
Edwin C. Albright and William S. Middleton 764
The Significance of ABO Compatibility and Its Relationship to the Intensity of Rh Immunization S. P. Lucia and Marjorie L. Hunt 767
Leukemia in a Three Month Old Infant. Report of a Case Showing Chloromatos Features
Francis S. Jones, Leon J. Numainville and Welland A. Hause 773
Editorial: ACTH and Its Hematologic Impact
William Dameshek 779
Abstracts ................................................................. 781
Book Review ............................................................... 784
News and Views: Abstracts of Third Annual Meeting of Blood Club (ACTH in Leukemia) ........................................... 785

No. 9

Hereditary Spherocytic Anemia in the Negro
Charles E. Butterworth, Jr., Roy R. Kracke and William H. Riser, Jr. 793
Severe Mediterranean Anemia (Cooley's Anemia) in a Chinese Child
Q. B. DeMarsh 798
The Effect of Racial Mixtures upon Erythrocyte Sickling... John H. Hodges 804
Familial Nonspherocytic Hemolytic Anemia
Eugene Kaplan and Wolf W. Zuelzer 811
Paroxysmal Nocturnal Hemoglobinuria. The Mechanism of Hemolysis and Its Relation to the Coagulation System
William H. Crosby and William Dameshek 822
Paroxysmal Nocturnal Hemoglobinuria. A Specific Test for the Disease Based on the Ability of Thrombin to Activate the Hemolytic Factor
William H. Crosby 843
Microscopic and Histochemical Studies on the Auer Bodies in Leukemic Cells
G. Adolph Ackerman 847
β-Glucuronidase of Human White Blood Cells
R. J. Rossiter and Esther Wong 864
The Efficiency of an Iron-Molybdenum Preparation as Evaluated by Means of Iron Absorption Tests... Sten Gulberg and Bo Vahlquist 871
The Cause of the Sexual Differences in Erythrocyre, Hemoglobin and Serum Iron Levels in Human Adults

Bo Vahlquist 874

Editorial: "Idiopathic" Hypochromic Anemia—An Obituary

Carl V. Moore 876

Abstracts 878

News and Views 885

No. 10

The Occurrence in a Family of Sicilian Ancestry of the Traits for Both Sickling and Thalassemia

W. N. Powell, J. G. Rodarte and J. V. Neel 887

Folic Acid Antagonists in the Treatment of Acute and Subacute Leukemia

William Dameshek, Milton H. Freedman and Lester Steinberg 898

Benign Pericardial Effusion in the Course of Chronic Myelogenous Leukemia. Case Report

Nathan H. Friedman and Jacob J. Silverman 916

Hemolytic Anemia in Myelogenous Leukemia with Splenectomy

Ulfar Jonsson, O. C. Hansen-Pruss and R. W. Rundles 920

Blood Exchange in Replacement Transfusions. I. Theoretic Considerations

L. R. Wasserman and L. Sharney 925

II. Studies with Erythrocytes Tagged with Radioactive Phosphorus

L. R. Wasserman, I. A. Rashkoff, L. Sharney, T. F. Yob and D. Leavitt 938

The Sedimentation Differential Agglutination Test. I. Method of the Test. II. Observations on the Destruction and Production of Red Blood Cells, with Special Reference to Myeloblastic Leukemia and Comparison with the Results of the Radioactive Phosphorus Method

Daniel S. Stats 950

The One-Stage Prothrombin Consumption Test. Clinical Value in the Identification of Thromboplastin-Deficiency Diseases

Mario Stefanini and William H. Crosby 964

Abstracts 973

Book Reviews 981

No. 11

Iron Metabolism: The Pathophysiology of Iron Storage

Clement A. Finch, Mark Hegsted, Thomas D. Kinney, E. D. Thomas, Charles E. Rath, Donald Haskins, Stuart Finch and Rex G. Fluharty 983

The Intestinal Content in Pernicious Anemia of Factors for the Growth of Streptococcus Faecalis and Lactobacillus Leichmannii

Ronald H. Girdwood 1009

The Electrical Conductivity of Blood. I. Relationship to Erythrocyte Concentration

Frederic G. Hirsch, E. Clinton Texter, Jr., Lloyd A. Wood, William C. Ballard, Jr., Francis E. Horan, and Irving S. Wright 1017

II. Relation to Red Cell Count

CONTENTS

Additional Evidence for the Anti-d: Statistical Studies
Joseph M. Hill, Sol Haberman, Ruth Guy and Julius W. Davenport, Jr. 1049

Guanazolo in the Therapy of Hodgkin's Disease
Bernard Strauss, Solomon Berson, Theodore Bernstein and Abraham S. Jacobson 1059

Hemolysis with Alloxan and Alloxan-like Compounds, and the Protective Action of Tocopherol
Catherine S. Rose and Paul György 1062

Abstracts 1075

No. 12

Studies in Electron Microscopy of Blood Cells ........................ M. Bessis 1083

Transfusion of Leukemic Leukocytes in Man. Hematologic and Physiologic Changes
Jonathan T. Lanman, Howard R. Bierman and Ralph L. Byron, Jr. 1099

Intravascular Hemagglutination. Experimental and Clinical Observations, with Special Reference to the Pathogenesis of Kernicterus
Richard Day and Elise Perry 1114

The Influence of Rh Hapten Therapy in the Course of Rh Isosensitization in Pregnancy .... Carroll L. Spurling, Milton S. Sacks and Elsa F. Jahn 1125

Circulating Anticoagulants in Hemophilia and in Hemophilia-like Disease
Karl Singer, Ernest Mond, Julian Hyman and Robert C. Levy 1135

Group-Specific Appearance of Plasma Clots ............ G. J. Stark and N. Stivel 1150

The Effect of Desoxycorticosterone Acetate and Vitamin C on Chronic Leukemia .... Stacy R. Mettier, Matthew J. Ellenborn and Gilbert Gordon 1156

Aleukemic Leukemoid Response in Miliary Tuberculosis
J. S. Staffurth and H. Spencer 1161

Editorial: Iron Deficiency, Iron Therapy and Injectable Iron
William Dameshek 1167

Abstracts 1169

Book Reviews 1179