CONTENTS

No. 1

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 Circu-
lating 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

No. 2

The Treatment of Erythroblastosis Fetalis by Transfusion with Sedimented
Red Cells ......................................................... Samuel Pennell 107

Reactions to Single and Multiple Transfusions. Comparison between Ho-
mologous and Conditioned O Blood Transfusions
Niels C. Klendshoj and Ernst Witebsky 123

Transfusion Reactions to a Plasma Constituent of Whole Blood: Their Patho-
genesis and Treatment by Washed Red Blood Cell Transfusions
William Dameshek and Jacob Neber 129
2. 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. Gung 161

The Effects of 4-Amino-N10-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. McBirnie 191

Abstracts ................................................................. 201

News and Views .............................................................. 207

Book Reviews ............................................................... 208

No. 3

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

No. 4

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

The Relationship of Plasma Prothrombin Concentration and the Degrad-
CONTENTS

Refactoriness in Hemophilia to Coagulation-Promoting Agents: Whole Blood and Plasma Derivatives

Walter B. Frommeyer, Jr., Robert D. Epstein and F. H. L. Taylor

401

Some Properties of Purified Prothrombin and Its Activation with Sodium Citrate

Walter H. Seegers, Robert I. McCaughry and John L. Fahey

421

Thrombotic Thrombocytopenic Purpura. II. Studies on the Hemolytic Syndrome in this Disease

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

434

Thrombocytopenic Purpura Complicating Infectious Mononucleosis. Report of a Case and Serial Platelet Counts during the Course of Infectious Mononucleosis

Richard M. Angle and Howard L. Alt

449

Megaloblastic Anemia of Infancy. Response to Vitamin B₁₂

Phillip Sturgeon and Gurth Carpenter

458

Megaloblastic Erythropoiesis in Patients with Cirrhosis of the Liver

E. R. Movitt

468

Classification of the Hematologic Variations and Abnormalities Associated with Boeck's Sarcoid; Review of the Literature. Report of a Case of Thrombocytopenic Purpura Associated with Sarcoidosis, with Recovery following Splenectomy

Marco Bruschi and John S. Howe

478

Abstracts

492
## 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* 522

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 Lawrence E. Young* 553

Thrombopathic Thrombocytopenia: Successful Transfusion of Blood Platelets

*Ervin O. Hirsch, Jean Favre-Gilly and William Damshak* 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. Schnidt* 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


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 ........................................................................................................... 684

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

Book Review .................................................................................................... 693

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
<table>
<thead>
<tr>
<th>Title</th>
<th>Authors</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>The Effect of Administration of Epinephrine on the Leukocyte Counts of Normal Subjects</td>
<td>Colin White, Tsuin Hwa Ling and Arnold M. Klein</td>
<td>723</td>
</tr>
<tr>
<td>Changes in Circulating Leukocytes following the Administration of Adrenal Cortex Extract (ACE) and Adrenocorticotrophic Hormone (ACTH) in Infectious Mononucleosis and Chronic Lymphatic Leukemia</td>
<td>Richard H. Saunders, Jr., and Elijah Adams</td>
<td>732</td>
</tr>
<tr>
<td>The Nature of Plasma Antithrombin Activity</td>
<td>Peter D. Klein and Walter H. Seegers</td>
<td>742</td>
</tr>
<tr>
<td>The Effect of Vitamin B12 on the Leukopenia Induced by Radiation</td>
<td>Robert E. Carter, Elizabeth Busch and Verda Strang</td>
<td>753</td>
</tr>
<tr>
<td>The Effect of Cysteine on the Peripheral Blood of the Irradiated Rat</td>
<td>Harvey M. Patt, Douglas E. Smith and Eugenia Jackson</td>
<td>758</td>
</tr>
<tr>
<td>The Uptake of Radioactive Iodine by the Thyroid Gland of Leukemic Patients</td>
<td>Edwin C. Albright and William S. Middleton</td>
<td>764</td>
</tr>
<tr>
<td>The Significance of ABO Compatibility and Its Relationship to the Intensity of Rh Immunization</td>
<td>S. P. Lucia and Marjorie L. Hunt</td>
<td>767</td>
</tr>
<tr>
<td>Editorial: ACTH and Its Hematologic Impact</td>
<td>William Dameshek</td>
<td>779</td>
</tr>
<tr>
<td>Abstracts</td>
<td></td>
<td>781</td>
</tr>
<tr>
<td>Book Review</td>
<td></td>
<td>784</td>
</tr>
<tr>
<td>News and Views: Abstracts of Third Annual Meeting of Blood Club</td>
<td></td>
<td>785</td>
</tr>
<tr>
<td>(ACTH in Leukemia)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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
CONTENTS

The Cause of the Sexual Differences in Erythrocyte, 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 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
and I. S. Wright 1036
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 Györgyi 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 Desoxytocicosterone 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