

Vol. XI, 1956

THE MEMORIAL HOSPITAL
MEDICAL STAFF LIBRARY

BLOOD

The Journal of Hematology

CONTENTS

No. 1

Studies on Analogues of L-Cysteine and L-Cystine. I. Some Structural Requirements for Inhibiting the Incorporation of Radioactive L-Cystine by Leukemic Leukocytes..... <i>Austin S. Weisberger, Leif G. Suhrlund and Joseph Seifert</i>	1
Studies on Analogues of L-Cysteine and L-Cystine. II. The Effect of Selenium Cystine on Murphy Lymphosarcoma Tumor Cells in the Rat..... <i>Austin S. Weisberger and Leif G. Suhrlund</i>	11
Studies on Analogues of L-Cysteine and L-Cystine. III. The Effect of Selenium Cystine on Leukemia..... <i>Austin S. Weisberger and Leif G. Suhrlund</i>	19
The Plasma Clearance and Urinary Excretion of Parenterally Administered $^{58}\text{CoB}_{12}$ <i>D. L. Mollin, W. R. Pitney, S. J. Baker and J. E. Bradley</i>	31
Quantitative Studies of the Cellular Responses to Antigen Injections in Normal Mice..... <i>Robert S. Speirs and Mary E. Dreisbach</i>	44
Quantitative Studies of the Cellular Responses to Antigen Injections in Adrenalectomized Mice..... <i>R. Speirs, U. Wenck and M. E. Dreisbach</i>	56
Thrombelastographic Observations of the Characteristics of Hemophilic, Thrombocytopenic and Heparinized Blood..... <i>Pietro de Nicola and G. M. Mazzetti</i>	71
Panels in Therapy. IX. The Treatment of Hemophilia <i>Paul M. Aggeler, Benjamin Alexander, Martin C. Rosenthal and L. M. Tocantins</i>	81
News and Views.....	91
Abstracts.....	93

No. 2

Erythrocyte Preservation: A Topic in Molecular Biochemistry <i>Beverly W. Gabrio, Clement A. Finch and Frank M. Huennekens</i>	103
Some Observations on the Morphology of Erythropoietic Cells in Human Lead Poisoning..... <i>Tihomil Beritic and Milutin Vandekar</i>	114
Experimental Megaloblastic Anemia in Young Guinea Pigs <i>Rolv K. Slungaard and George M. Higgins</i>	123
Studies on Copper Metabolism. XVII. Further Observations on the Anemia of Copper Deficiency in Swine..... <i>G. E. Cartwright, C. J. Gubler, J. A. Bush and M. M. Wintrobe</i>	143
Studies on Leukemia. I. Uric Acid Excretion..... <i>A. A. Sandberg, G. E. Cartwright and M. M. Wintrobe</i>	154

The Response of Transplanted Chloroleukemia in the Rat to Treatment with Anti-Leukemic Drugs.....	<i>Harry Shay, Charles Harris and Margot Gruenstein</i>	167
A Sign of Severe Radiation Injury Observed in the Erythrocyte Sedimentation of Dogs.....	<i>George A. Sacher</i>	174
News and Views.....		184
Abstracts.....		188

No. 3

Thalassemia in Sikhs.....	<i>J. K. Siddoo, S. K. Siddoo, W. H. Chase, L. Morgan-Dean and W. H. Perry</i>	197
Mortality in Relation to Histologic Type in Hodgkin's Disease	<i>Hans F. Smetana and Bernard M. Cohen</i>	211
Ameboid Motility of Human Leukocytes.....	<i>Joseph Lapin and Andrew Horonick</i>	225
The Effect of Chloramphenicol and Other Antibiotics on Leukocyte Respiration.....	<i>James H. Follette, Peter M. Shugerman, John Reynolds, William N. Valentine and John S. Lawrence</i>	234
The Action of Leukocytosis-Promoting Factor on the Blood and Bone Marrow of the Guinea Pig.....	<i>P. F. Harris, V. Menkin and J. M. Yoffey</i>	243
Chronic Refractory Anemia with Sideroblastic Bone Marrow: A Study of Four Cases.....	<i>Sven Erik Björkman</i>	250
Sickle Cell-Spherocytosis Associated with Hemolytic Anemia	<i>Mercedes V. de Torregrosa, Antonio Ortiz and Dharma Vargas</i>	260
Homozygous Hemoglobin C Disease in Siblings: Further Comment on Intracellular Crystals.....	<i>Munsey S. Wheby, Oscar A. Thorup and Byrd S. Leavell</i>	266
Disseminated Neuroblastoma in an Adult Presenting the Picture of Thrombocytopenic Purpura.....	<i>William N. Christenson, John E. Ultmann and Steven C. Mohos</i>	273
Abstracts.....		279

No. 4

Erythrokinetics: Quantitative Measurements of Red Cell Production and Destruction in Normal Subjects and Patients with Anemia	<i>Eloise R. Giblett, Daniel H. Coleman, Giacomo Pirzio-Biroli, Dennis M. Donohue, Arno G. Motulsky and Clement A. Finch</i>	291
The Plasma Erythropoietic Stimulating Factor.....	<i>James W. Linman and Frank H. Bethell</i>	310
Atypical Familial Anemia.....	<i>R. K. Smiley, H. Dempsey, P. Villeneuve and J. S. Campbell</i>	324
Studies on Urinary Excretion of Vitamin B ₁₂ Co ⁶⁰ in Pernicious Anemia for Determining Effective Dosage of Intrinsic Factor Concentrates	<i>William R. Best, Wilfrid F. White, Kenneth C. Robbins, Wendell A. Landmann and Sanford L. Steelman</i>	338
Time Pattern of Vitamin B ₁₂ Co ⁶⁰ Urinary Excretion in Man After Oral Administration and Parenteral "Flushing".....	<i>William R. Best, Wendell A. Landmann and Louis R. Limarzi</i>	352

The Anemia of Trauma.....	<i>Elizabeth Topley and Ruscoe Clarke</i>	357
Multiple Marrow Aspiration in Man from the Posterior Ilium Howard R. Bierman and Keith H. Kelly		370
Histochemical Demonstration of Phosphorylase in Blood and Bone Marrow Cells..... <i>Tadao Takeuchi and Kenji Kinoshita</i>		375
A Modification of the Benzidine Method for Measurement of Hemoglobin in Plasma and Urine..... <i>William H. Crosby and Frank W. Furth</i>		380
Panels in Therapy. X. Treatment of Acute ITP..... <i>C. Lockard Conley, Robert S. Evans, William J. Harrington and Steven O. Schwartz</i>		384
News and Views.....		391
Books Received.....		395
Abstracts.....		397

No. 5

Anti-A Agglutinins in Pooled Plasma as a Cause of Hemolytic Anemia <i>Julius Rutzky, Flossie Cohen and Wolf W. Zuelzer</i>		403
Antihemophilic Globulin Consumption During Blood Coagulation <i>A. S. Douglas</i>		423
Unusual Bleeding During Pregnancy: Report of a Case Due to Hypoprothrombinemia and Hypoproconvertinemia..... <i>Soona S. Setna and S. J. Altman</i>		430
Studies on the Fibrinogen, Dextran and Phytohemagglutinin Methods of Isolating Leukocytes..... <i>William A. Skoog and William S. Beck</i>		436
The Effect of Certain Glycolytic Inhibitors on Aerobic Lactic Acid Production by Human Leukocytes in Vitro..... <i>Gordon R. McKinney and Samuel P. Martin</i>		455
Sickle-Cell Anemia in South Turkey. A Study of Fifteen Cases in Twelve White Families..... <i>Muzaffer Aksoy</i>		460
Immunization of Rabbits Against Human Anti-Hemophilic Factor (AHF) <i>Marrin D. Richards and Theodore H. Spaet</i>		473
News and Views.....		484
Books Received and Book Reviews.....		494
Abstracts.....		497

No. 6

An Electron Microscopic Study of Red Bone Marrow..... <i>Daniel C. Pease</i>	501
Thrombocytopenic Purpura Due to Quinidine. I. Clinical Studies <i>Frederick G. Bolton and William Dameshek</i>	527
Thrombocytopenic Purpura Due to Quinidine. II. Serologic Mechanisms <i>Frederick G. Bolton</i>	547
Observations on the Hereditary Nature of Hageman Trait <i>Alvin Margolius, Jr. and Oscar D. Ratnoff</i>	565
Panels in Therapy. XI. The Treatment of Sprue..... <i>Guillermo García-López, Frank Gardner, Tom D. Spies and Richard W. Vilter</i>	570
Preliminary Program—International Society of Hematology, Sixth Congress	577
Books Received.....	597
Book Reviews.....	597
Abstracts.....	599

No. 7

Experimental Research on the Proliferative and Differentiative Activity of the Erythroblast in Chronic Erythremia, the Chronic Form of Di Guglielmo's Disease..... <i>E. Bernardelli, V. Mele and M. Bani</i>	609
Studies on the Anemia of Disseminated Malignant Neoplastic Disease. II. Study of the Life Span of the Erythrocyte..... <i>George A. Hyman, Alfred Gelhorn and Jane L. Harvey</i>	618
The Effect of Transfusions of Erythrocytes on Untreated Pernicious Anemia..... <i>James D. Mason, Jr. and Byrd S. Leavell</i>	632
A Case of Anti-Cellano..... <i>Filomena P. Innella, Curtis R. Boyd and G. B. Stansell</i>	641
The Present Status of Treatment of Autoimmune Hemolytic Anemia with ACTH and Cortisone.. <i>William Dameshek and Zacharias D. Komninos</i>	648
Study of Leukocyte Dynamics by Means of Cross-Circulation Between Normal and Leukopenic Rats..... <i>J. W. Hollingsworth, Stuart C. Finch and Chu H. Chang</i>	665
News and Views.....	673
Book Reviews.....	678
Books Received.....	680
Abstracts.....	681

No. 8

Hemostasis in Thrombocytopenic Bleeding Following Infusion of Stored, Frozen Platelets..... <i>Edmund Klein, Rudolf Toch, Sidney Farber, Gustave Freeman and Rosemary Fiorentino</i>	693
Studies on the Specificity of Autoantibodies in Acquired Hemolytic Anemia..... <i>Leonard V. Crowley and Bertha A. Bouroncle</i>	700
The Influence of Histamine upon the Circulating Leukocyte Level in Patients with the Leukemias..... <i>H. R. Bierman, K. Kelly, F. Cordes and A. Coblenz</i>	708
Granulomatous Lesions in Bone Marrow..... <i>Gertrude L. Pease</i>	720
Specificity of Lytic Factors for Erythrocytes, Leukocytes and Platelets in a Case of Pancytopenia.. <i>Y. Matoh, E. Elian, D. Nelken and A. C. Nero</i>	735
Hageman Factor (HF) Deficiency .. <i>Bracha Ramot, Karl Singer, Paul Heller and Hyman J. Zimmerman</i>	745
Confirmation of a Structural Abnormality in the Stroma of Erythrocytes from Paroxysmal Nocturnal Hemoglobinuria (PNH) After Hemolysis in Distilled Water..... <i>H. Braunsteiner, E. Gisinger and F. Pakesch</i>	753
Paroxysmal Nocturnal Hemoglobinuria .. <i>A. M. Nussey and D. W. Dawson</i>	757
News and Views.....	764
Abstracts.....	767

No. 9

Fibrinolysis in the Organism..... <i>Tage Astrup</i>	781
Erythrokinetics in Pernicious Anemia..... <i>Clement A. Finch, Daniel H. Coleman, Arno G. Motulsky, Dennis M. Donohue and Robert H. Reiff</i>	807

Studies on the Biosynthesis of Heme in Vitro by Avian Erythrocytes A. Goldberg, Helen Ashenbrucker, G. E. Cartwright and M. M. Wintrobe	821
Hematologic Observations on Patients with Sickle Cell Anemia Sustained at Normal Hemoglobin Levels by Multiple Transfusions Hugh Chaplin, Jr., Hans G. Keitel and Ralph E. Peterson	834
Hemorrhagic Disease with Circulating Inhibitors of Blood Clotting: Anti-AHF and Anti-PTC in Eight Cases..... Jessica H. Lewis, John H. Ferguson and Tulio Arends	846
Normal Bone Marrow Total Cell and Differential Values by Quantitative Analysis of Particle Smears..... S. Sandkühler and E. Gross	856
Book Review.....	863
Books Received.....	863
Abstracts.....	864
No. 10	
Incidence of the Common Forms of Human Leukemia .. Brian MacMahon and Duncan Clark	871
Acute Leukemia Over the Age of Fifty: A Study of Its Incidence and Natural History..... F. W. Gunz and R. F. Hough	882
Two "Fast" Hemoglobin Components in Liberian Blood Samples Abner R. Robinson, Wolf W. Zuelzer, James V. Neel, Frank B. Livingstone and Max J. Miller	902
On the Prevalence of Hemoglobin D in the American Negro Amoz I. Chernoff	907
The Effects of Varying Concentrations of Human Platelets and Their Stored Derivatives on the Recalcification Time of Plasma Edmund Klein, Sidney Farber, Gustave Freeman and Rosemary Fiorentino	910
The Effects of Various EDTA Complexes on Coagulation .. Sanford Leikin and Samuel P. Bessman	916
Osmotic Fragility of Human Blood Platelets .. J. Gurevitch and D. Nelken	924
Reticulocytopenia in Autoimmune Hemolytic Anemia .. William H. Crosby and Henry Rappaport	929
Relative Effectiveness of Phenylhydrazine Treatment and Hemorrhage in the Production of an Erythropoietic Factor..... Elly M. Jacobsen, A. K. Davis and Edward L. Alpen	937
Ultrastructure of Erythrocyte Membranes in Thalassemia Major and Minor .. J. F. Hoffman, I. J. Wolman, J. Hillier and A. K. Parpart	946
Abstracts.....	957
No. 11	
Thrombocytoasthenia and Thrombocytopathia—Old Names and New Diseases..... H. Braunsteiner and F. Pakesch	965
Studies on Spontaneous in Vitro Autohemolysis in Hemolytic Disorders Lawrence E. Young, Mary Jane Izzo, Kurt I. Altman and Scott N. Swisher	977
Sickle Cell Anemia (Homozygous S) with Aseptic Necrosis of Femoral Head Kouichi R. Tanaka, George O. Clifford and Arnold R. Axelrod	998

The Detection and Estimation of Fetal Hemoglobin by Means of the Alkali Denaturation Test	<i>J. H. P. Jonxis and T. H. J. Huisman</i>	1009
Thalassemia in a Hawaiian Family of Filipino Extraction	<i>Harold P. Lazar</i>	1019
The Direct Coombs Test in Lead Poisoning	<i>Donald A. Sutherland and Anna M. Eisentraut</i>	1024
The Effect of Repeated Doses of Urethane (Ethyl Carbamate) on the Mitotic Activity and Cellular Composition of the Bone Marrow of Normal Mice	<i>A. Rosin and G. Goldhaber</i>	1032
A Method for the Separation of the Different Morphologic Forms of the Blood Leukocytes	<i>Athineos J. Philippu</i>	1041
Editorial—Etiology of Leukemia: A Case for the Virus Theory	<i>Steven O. Schwartz</i>	1045
News and Views		1048
Book Reviews		1048
Abstracts		1049

No. 12

The Hemostatic Defect of Uremia. I. Clinical Investigation of Three Patients with Acute Post-Traumatic Renal Insufficiency	<i>Camilo Larrain and Edward Adelson</i>	1059
The Hemostatic Defect of Uremia. II. Investigation of Dogs with Experimentally Produced Acute Urinary Retention	<i>Camilo Larrain and Robert D. Langdell</i>	1067
Bleeding Tendency in Uremia	<i>Jessica H. Lewis, Marjorie B. Zucker and John H. Ferguson</i>	1073
Polycythemia Associated with Disturbed Function of the Respiratory Center	<i>Peter Pare and Louis Lowenstein</i>	1077
Immunologic Features of Erythrocyte Sensitization. I. Acquired Hemolytic Disease	<i>John H. Vaughan</i>	1085
A Summary of Atypical Antibodies, Rare Genotypes, and ABO Hemolytic Disease Encountered in a One Year Survey	<i>Philip Levine, Elizabeth Robinson, Marjory Stroup, Robert McGee and Louella N. Bushnell</i>	1097
Studies on the Pathogenesis of Splenic Anemia	<i>E. R. Giblett, A. G. Motulsky, F. Casserd, B. Houghton and C. A. Finch</i>	1118
Methyl-Green-Pyronin as a Differential Nucleic Acid Stain for Peripheral Blood Smears	<i>Seymour Perry and John Reynolds</i>	1132
The "Morular Cell" and the "Grape Cell" in Bone Marrow and Peripheral Blood	<i>Avinoam Zlotnick</i>	1140
News and Views		1148
Abstracts		1149