

# Hereditary Hemolytic Anemias

## Outline

### ▶ Membrane Defects

- Hereditary Spherocytosis (extravascular hemolysis)
- Hereditary Elliptocytosis (extravascular hemolysis)

### ▶ Enzyme Defects

- G6PD Deficiency (extravascular hemolysis)
- Pyruvate Kinase Deficiency (extravascular hemolysis)

### ▶ Globin defects

- Hemoglobinopathies
- Thalassemias

# The Hereditary Hemolytic Anemias

**Chao Zhang**



## **The Hereditary Hemolytic Anemias:**

**The Hereditary Hemolytic Anemias** William C. Mentzer, Gail M. Wagner, 1989      **Hereditary Hemolytic Anemias**  
Source Wikipedia, 2013-09 Please note that the content of this book primarily consists of articles available from Wikipedia or other free sources online Pages 28 Chapters Alpha thalassemia Beta thalassemia Congenital hemolytic anemia Delta thalassemia Glucose 6 phosphate dehydrogenase deficiency Hemoglobinopathy Hereditary elliptocytosis Hereditary persistence of fetal hemoglobin Hereditary spherocytosis Hereditary stomatocytosis Hexokinase deficiency Minkowski Chauffard syndrome Pyruvate kinase deficiency Sickle cell disease Sickle cell trait Southeast Asian ovalocytosis Triosephosphate isomerase deficiency Excerpt Sickle cell disease SCD or sickle cell anaemia SCA or drepanocytosis is an autosomal recessive genetic blood disorder with overdominance characterized by red blood cells that assume an abnormal rigid sickle shape Sickling decreases the cells flexibility and results in a risk of various complications The sickling occurs because of a mutation in the hemoglobin gene Life expectancy is shortened In 1994 in the US the average life expectancy of persons with this condition was estimated to be 42 years in males and 48 years in females but today thanks to better management of the disease patients can live into their 80s or beyond Sickle cell disease occurs more commonly among people whose ancestors lived in tropical and sub tropical sub saharan regions where malaria is or was common Where malaria is common carrying a single sickle cell gene sickle cell trait confers a fitness Specifically humans with one of the two alleles of sickle cell disease show less severe symptoms when infected with malaria Sickle cell anaemia is a form of sickle cell disease in which there is homozygosity for the mutation that causes HbS Sickle cell anaemia is also referred to as HbSS SS disease haemoglobin S or permutations of those names In heterozygous people that is those who have only one sickle gene and one normal adult haemoglobin gene the      Crowley's An Introduction to Human Disease Emily Reisner, Howard Reisner, 2016-08-02 Updated and reorganized to provide a more accessible student friendly experience Crowley's An Introduction to Human Disease Tenth Edition provides readers with a clear well illustrated explanation of the structural and functional changes associated with disease the clinical manifestations of disease and how to determine treatment The first chapters of the text discusses general concepts and diseases affecting the body as a whole Later chapters considers the various organ systems and their diseases The Tenth Edition boasts a wealth of new disease photos new and expanded case studies and a robust student and instructor ancillary package      **Cumulated Index Medicus**, 1972      Clinical Hematology: Principles, Applications, and Molecular Concepts Mary Louise Turgeon, 2025-04-15 Clinical Hematology Principles Applications and Molecular Concepts Seventh Edition is designed to help students develop the professional entry level competencies they need for certification and career success The Seventh Edition strengthens the pedagogy that set the quality benchmark for hematology and includes the current competency based content needed by MLT and MLS students Each new print copy includes Navigate Advantage Access that unlocks an interactive eBook Appendices Videos Case Studies

and Flashcards      **Conn's Current Therapy 2020, E-Book** Rick D. Kellerman, KUSM-W Medical Practice Association, 2019-12-07 Designed to suit a wide range of healthcare providers including primary care subspecialties and allied health Conn's Current Therapy has been a trusted clinical resource for more than 70 years The 2020 edition continues this tradition of excellence with current evidence based treatment information presented in a concise yet in depth format More than 300 topics have been carefully reviewed and updated to bring you state of the art information even in the most rapidly changing areas of medicine Offers personal approaches from recognized leaders in the field covering common complaints acute diseases and chronic illnesses along with the most current evidence based clinical management options Follows a consistent easy to use format throughout with diagnosis therapy drug protocols and treatment pearls presented in quick reference boxes and tables for point of care answers to common clinical questions Includes new and significantly revised chapters on neurofibromatosis autism psoriatic arthritis and postpartum depression Features thorough updates in areas critical to primary care including Acute Myocardial Infarction Hypertension Peripheral Arterial Disease Valvular Heart Disease Hepatitis C Irritable Bowel Syndrome Obsessive Compulsive Disorder Chronic Obstructive Pulmonary Disease Fibromyalgia Menopause Travel Medicine and more Provides current drug information thoroughly reviewed by PharmDs Shares the knowledge and expertise of new contributors who provide a fresh perspective in their specialties Features nearly 300 images including algorithms anatomical illustrations and photographs that provide useful information for diagnosis

*Wintrobe's Clinical Hematology* Daniel A. Arber, Bertil Glader, Alan F. List, Robert T. Means, Frixos Paraskevas, George M. Rodgers, 2013-08-29 With the 13th edition Wintrobe's Clinical Hematology once again bridges the gap between the clinical practice of hematology and the basic foundations of science Broken down into eight parts this book provides readers with a comprehensive overview of Laboratory Hematology The Normal Hematologic System Transfusion Medicine Disorders of Red Cells Hemostasis and Coagulation Benign Disorders of Leukocytes The Spleen and or Immunoglobulins Hematologic Malignancies and Transplantation Within these sections there is a heavy focus on the morphological exam of the peripheral blood smear bone marrow lymph nodes and other tissues With the knowledge about gene therapy and immunotherapy expanding new up to date information about the process and application of these therapies is included Likewise the editors have completely revised material on stem cell transplantation in regards to both malignant and benign disorders graft versus host disease and the importance of long term follow up of transplantation survivors      **Rodak's Hematology - E-Book**

Elaine M. Keohane, Catherine N. Otto, Jeanine M. Walenga, 2019-02-22 Selected for Doody's Core Titles 2024 in Laboratory Technology Make sure you are thoroughly prepared to work in a clinical lab Rodak's Hematology Clinical Principles and Applications 6th Edition uses hundreds of full color photomicrographs to help you understand the essentials of hematology This new edition shows how to accurately identify cells simplifies hemostasis and thrombosis concepts and covers normal hematopoiesis through diseases of erythroid myeloid lymphoid and megakaryocytic origins Easy to follow and understand

this book also covers key topics including working in a hematology lab complementary testing areas such as flow cytometry cytogenetics and molecular diagnostics the parts and functions of the cell and laboratory testing of blood cells and body fluid cells UPDATED nearly 700 full color illustrations and photomicrographs make it easier for you to visualize hematology concepts and show what you ll encounter in the lab with images appearing near their mentions in the text to minimize flipping pages back and forth UPDATED content throughout text reflects latest information on hematology Instructions for lab procedures include sources of possible errors along with comments Hematology instruments are described compared and contrasted Case studies in each chapter provide opportunities to apply hematology concepts to real life scenarios Hematology hemostasis reference ranges are listed on the inside front and back covers for quick reference A bulleted summary makes it easy for you to review the important points in every chapter Learning objectives begin each chapter and indicate what you should achieve with review questions appearing at the end A glossary of key terms makes it easy to find and learn definitions NEW Additional content on cell structure and receptors helps you learn to identify these organisms NEW New chapter on Introduction to Hematology Malignancies provides and overview of diagnostic technology and techniques used in the lab     Regulation of red cell life-span, erythropoiesis, senescence and clearance Lars Kaestner,Anna Bogdanova,2014-12-03 Human red blood cells are formed mainly in the bone marrow and are believed to have an average life span of approximately 120 days However is it true for all red blood cells What are the changes associated with red cell maturation adulthood and senescence What are the determinants of red cell life span and clearance What are the mechanisms in control of red cell mass in healthy humans and patients with various forms of anemia What are the markers of circulating red cell senescence and in cells during storage and transfusion Within the life span may properties of red cells change leading to age mixed circulating cell populations Although these cells appear to be genetically terminated by the time they are released into the blood stream they undergo surprisingly versatile modifications depending on the life style and health conditions of a human host Numerous disorders are believed to be associated with facilitated ageing of red blood cells In vitro ageing and damage of red blood cells during storage is yet one more important issue related to the risks and efficiency of blood transfusion Many of the mechanisms behind such effects are far from being fully understood In this context the Research Topic is set to include articles in the field of biochemical investigations biophysical approaches physiological and clinical studies related to red blood cell maturation and aging This includes Original Research Methods Hypothesis and Theory Reviews and Perspectives     *Atlas and Text of Hematology* Mr. Ajeet Singh,2018-05-22 Combining high quality images with detailed explanations this atlas presents the morphology classification and diagnosis of hematological diseases serving as a valuable reference for students and clinicians     **Current Bibliography of Epidemiology** ,1971 Monthly with annual cumulations Comprehensive current index to periodical medical literature intended for use of practitioners investigators and other workers in community medicine who are concerned with the etiology

prevention and control of disease Citations are derived from MEDLARS tapes for Index medicus of corresponding date Arrangement by 2 sections i e Selected subject headings and Diseases organisms vaccines No author index     Hematology and Coagulation Amer Wahed, Andres Quesada, Amitava Dasgupta, 2019-09-06 Hematology and Coagulation A Comprehensive Review for Board Preparation Certification and Clinical Practice Second Edition takes a practical and easy to read approach to understanding hematology and coagulation at an appropriate level for both board preparation and refresher courses The book bridges the gap between large textbooks and medical technology books written for laboratory technicians providing the sufficient background in genetics toxicology and immunology that residents and medical students need to know in order to become successful physicians Readers will use this quick reference to understand how tests are performed and how to interpret results This clear and easy to read presentation of core topics and detailed case studies illustrates the application of hematopathology on patient care Provides a newly updated source that s in accordance with World Health Organization guidelines on the diagnosis of hematological malignancies Succinctly covers all important clinical information found in larger textbooks in an easy to understand manner Highlights essential concepts in hematopathology in such a way that pathology fellows and clinicians can understand methods without being specialists in the field     *Nathan and Oski's Hematology of Infancy and Childhood* Stuart H. Orkin, David G. Nathan, 2009-01-01 To address the exponential growth in the fields of pediatric hematology and oncology this classic reference has been separated into two distinct volumes With this volume devoted strictly to pediatric hematology and another to pediatric oncology you ll keep you on the cutting edge of these two specialties The completely revised 7th edition of Nathan and Oski s Hematology of Infancy and Childhood is now in full color and provides you with the most comprehensive authoritative up to date information for diagnosing and treating children with hematologic disorders It brings together the pathophysiology of disease with detailed clinical guidance on diagnosis and management for the full range of blood diseases that you encounter in everyday practice Written by the leading names in pediatric hematology this resource is an essential tool for anyone involved in caring for children with hematologic disorders And as an Expert Consult title this thoroughly updated 7th edition comes with access to the complete contents online fully searchable Balances summaries of relevant pathophysiology with clear practical clinical guidance to help you thoroughly understand the underlying science of diseases Offers comprehensive coverage of all hematologic disorders including newly recognized ones along with the latest breakthroughs in diagnosis and management Uses many boxes graphs and tables to highlight complex clinical diagnostic and management guidelines at a glance Presents an all new full color design that includes clear illustrative examples of relevant science and clinical problems for quick access to the answers you need Provides access to the complete contents online fully searchable enabling you to consult it rapidly from any computer with an Internet connection Your purchase entitles you to access the web site until the next edition is published or until the current edition is no longer offered for sale by Elsevier whichever occurs first If the next edition is published less than one year after

your purchase you will be entitled to online access for one year from your date of purchase Elsevier reserves the right to offer a suitable replacement product such as a downloadable or CD ROM based electronic version should access to the web site be discontinued Clinical Hematology: Theory & Procedures, Enhanced Edition Mary Lou Turgeon, 2020-06-29 Clinical Hematology Theory Procedures Enhanced Sixth Edition is a competency based text with built in study tools to help you master the theory of clinical hematology and the procedures used to diagnose and treat disorders of the blood and bone marrow **Wintrobe's Clinical Hematology** John P. Greer, 2009 Now available in a thoroughly revised Twelfth Edition Wintrobe's Clinical Hematology continues to be an industry leader with its ability to correlate basic science with the clinical practice of hematology With the first edition of Wintrobe's Clinical Hematology published in 1942 clearly establishing hematology as a distinct subspecialty of Internal Medicine the latest edition continues the influence of the Wintrobe name and helps to set this book apart from the competition With its strong focus on the clinical aspects of hematology the book has generated a strong following among internists and general practitioners who want a single resource to consult for their patients who present any blood related disorder The Twelfth Edition is in full color for the first time boasts a new editorial team and includes expanded coverage of new medications and four new chapters on Newborn Anemias Pathology of LHC Spleen Tumors and Myeloproliferative Disorders and Mast Cell Disease A companion Website will offer the fully searchable text and an image bank **The National Home and Hospice Care Survey, ... Summary**, 1995 **Nathan and Oski's Hematology and Oncology of Infancy and Childhood E-Book** Stuart H. Orkin, David G. Nathan, David Ginsburg, A. Thomas Look, David E. Fisher, Samuel Lux, 2014-11-14 Written by the leading names in pediatric oncology and hematology Nathan and Oski's Hematology and Oncology of Infancy and Childhood offers you the essential tools you need to overcome the unique challenges and complexities of childhood cancers and hematologic disorders Meticulously updated this exciting full color set brings together the pathophysiology of disease with detailed clinical guidance to provide you with the most comprehensive authoritative up to date information for diagnosing and treating children Form a definitive diagnosis and create the best treatment plans possible with comprehensive coverage of all pediatric cancers including less common tumors as well as all hematologic disorders including newly recognized ones Develop a thorough understanding of the underlying science of diseases through summaries of relevant pathophysiology balanced with clear practical clinical guidance Nathan and Oski's is the only comprehensive product on the market that relates pathophysiology in such depth to hematologic and oncologic diseases affecting children Quickly and effortlessly access the key information you need with the help of a consistent organization from chapter to chapter and from volume to volume Stay at the forefront of your field thanks to new and revised chapters covering topics such as paroxysmal nocturnal hemoglobinuria lysosomal storage diseases childhood genetic predisposition to cancer and oncology informatics Learn about the latest breakthroughs in diagnosis and management making this the most complete guide in pediatric hematology and oncology Discover the latest in focused

molecularly targeted therapies derived from the exponential growth of knowledge about basic biology and genetics underlying the field Rely on it anytime anywhere Access the full text images and more at Expert Consult     *Pathophysiology of Rare Hemolytic Anemias* Richard Van Wijk, Paola Bianchi, 2020-12-23 This eBook is a collection of articles from a Frontiers Research Topic Frontiers Research Topics are very popular trademarks of the Frontiers Journals Series they are collections of at least ten articles all centered on a particular subject With their unique mix of varied contributions from Original Research to Review Articles Frontiers Research Topics unify the most influential researchers the latest key findings and historical advances in a hot research area Find out more on how to host your own Frontiers Research Topic or contribute to one as an author by contacting the Frontiers Editorial Office frontiersin.org about contact     *Crash Course in Pathophysiology. Questions & Answers* Атаман О. В., 2019-01-01     **Bibliography of Medical Reviews** ,1976



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