

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

Richard Van Wijk, Paola Bianchi



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 **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 *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 **Conn's Current Therapy 2021, E-Book** Rick D. Kellerman, David P. Rakel, 2020-12-08 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 well over 70 years The 2021 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 in even 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 COVID 19 Diabetes Mellitus in Adults Chronic Leukemias and Osteomyelitis Incorporates more electronic links throughout the text that connect the reader to apps and clinical prediction tools that can easily be accessed in practice Features thoroughly reviewed and updated information from many new authors who offer a fresh perspective and their unique personal experience and judgment Provides current drug information thoroughly reviewed by PharmDs Features nearly 300 images including algorithms anatomical illustrations and photographs that provide useful information for diagnosis **Cumulated Index Medicus**, 1984 *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 **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 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 Clinical Hematology: Principles, Applications, and Molecular Concepts Mary Louise Turgeon,2025-03-05 Clinical Hematology features strong pedagogy that sets the quality benchmark for hematology competency based content needed by MLT and MLS students and is informed by and mapped to ASCLS Entry Level and Professional Body of Knowledge competencies in hematology hemostasis and coagulation and molecular applications

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