

Sickle Cell Anemia: A Fictional Reconstruction*

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Part I – The Inquiry Begins

It was a brisk fall day in Boston—the type of day that Dr. William Castle preferred to start with a cup of coffee while he caught up on his correspondence, which often appeared to be an endless task. As a faculty member of Harvard Medical School, he had always received a fair amount of inquiries, but after he had published his data indicating that pernicious anemia was due to a vitamin B₁₂ deficiency, the amount of mail he received was sometimes overwhelming.

Sitting in his reclining chair he sorted through the large pile that had accumulated. He began to meticulously segregate it into smaller piles he would open in a prescribed order. Usually the delegation of a particular envelope was a relatively easy choice. There were a few that caused him to pause for a moment, such as the one he was currently holding. The return address indicated it was from an Irving Sherman at Johns Hopkins University. Since it was from someone he had never heard of, he was inclined to place it in the pile to be opened later. But on this day he decided to take another sip of coffee and see what Mr. Sherman had to say (see next page).



* *Disclaimer:* This case is a work of fiction that refers to real events and people. All of the discoveries mentioned in Section 1 were made by the individuals they are attributed to, as were the observations made by Dr. Vernon Hahn described in Section 2. The time between discoveries has been dramatically condensed, however. Every effort has been made to present the scientific considerations concisely and accurately. Any errors should be attributed to the author and not the original investigators.

Sickle Cell Anemia A Fictional Reconstruction Answer

Kabo Issik



Sickle Cell Anemia A Fictional Reconstruction Answer:

Answers to Common Questions about Sickle Cell Disease, 1973 **Sickle Cell Anemia** Judy Monroe Peterson, 2008-08-15 Sickle cell anemia is a genetic disease of the blood It is caused by a defect in one gene of a person Genes are the elements in cells that carry the information that determines traits such as hair or eye color In sickle cell anemia a defect in the gene controls how hemoglobin is made This defect can be passed from parents to their children Students explore the history of sickle cell anemia the pioneering doctors who studied its cause and early treatments They also investigate hemoglobin S who gets sickle cell and how the gene mutation is inherited They learn about the different types of sickle cell disease and treatments including blood transfusions and bone marrow transplants and some of the promising new research in medicines and gene therapy **Sickle Cell Anaemia** Organisation for Sickle Cell Anaemia Research, 1979 **Sickle Cell Anemia** Jane S. Lin-Fu, 1975 *Menace in My Blood* Ola Tamedu, 2011 *Sickle Cell Anemia: From Basic Science to Clinical Practice* Elena Ledger, 2021-11-16 A sickle cell disease is a group of blood disorders that a person inherits from parents They usually occur when the person inherits two abnormal copies of the hemoglobin gene Sickle cell anemia is the most common type of sickle cell disease It causes an abnormality in hemoglobin the oxygen carrying protein found in red blood cells The problems due to sickle cell anemia begin to appear around 5 to 6 months of age It leads to problems such as sickle cell crisis swelling in hands and feet stroke and bacterial infections The care of people suffering from sickle cell anemia includes infection prevention with vaccination and antibiotics folic acid supplementation and pain medication A bone marrow transplant is also used in certain cases This book consists of contributions made by international experts It contains some path breaking studies in sickle cell anemia It will serve as a valuable source of reference for graduate and post graduate students **Focus on Sickle Cell Research** Ralph L. Plasmar, 2004 Sickle cell anaemia is an inherited blood disorder characterised primarily by chronic anaemia and periodic episodes of pain and occurring in approximately 1 in every 400 African American infants born in the United States each year Individuals of Mediterranean Arabian Caribbean South and Central American and East Indian ancestry can also be affected The underlying problem involves haemoglobin a component of the red cells in the blood The haemoglobin molecules in each red blood cell carry oxygen from the lungs to the body organs and tissues and bring back carbon dioxide to the lungs In sickle cell anaemia the haemoglobin is defective After the haemoglobin molecules give up their oxygen some of them may cluster together and form long rod like structures These structures cause the red blood cells to become stiff and to assume a sickle shape Unlike normal red cells which are usually smooth and donut shaped the sickled red cells cannot squeeze through small blood vessels Instead they stack up and cause blockages that deprive the organs and tissue of oxygen carrying blood This process produces the periodic episodes of pain and ultimately can damage the tissues and vital organs and lead to other serious medical problems Unlike normal red blood cells which last about 120 days in the bloodstream sickled red cells die after only about 10

to 20 days Because they cannot be replaced fast enough the blood is chronically short of red blood cells a condition called anaemia Sickle cell anaemia is caused by an error in the gene that tells the body how to make haemoglobin The defective gene tells the body to make the abnormal haemoglobin that results in deformed red blood cells This book gathers the latest research in this important field

Sickle cell anemia Rumi Michael Leigh,2022-08-21 **Sickle Cell Anemia Things You Should Know Questions and Answers** explains this inherited blood disorder in a simple question and answer format covering causes symptoms complications and treatments Inside you will learn what sickle cell anemia is how it affects red blood cells and hemoglobin and why these cells become rigid sticky and sickle shaped The book explains how sickle cell anemia shortens the life of red blood cells and disrupts normal blood flow leading to serious health problems It covers symptoms such as extreme pain fatigue infections slow growth delayed puberty swelling in the hands and feet and vision problems Complications are also discussed including stroke pulmonary hypertension organ damage blood clots gallstones priapism ulcers blindness and pregnancy risks Readers will also find explanations of diagnostic methods from blood tests to prenatal testing and treatment options such as medications blood transfusions and bone marrow transplant This book is suitable for anyone who wants to understand sickle cell anemia its effects on the body and current approaches to treatment in a direct and easy to read way

Sickle Cell Anemia ,1990 **Sickle Cell Anemia** Jane S. Lin-Fu,1972 **Understanding Sickle Cell Disease** Miriam Bloom,1995 For general readers a guide to understanding a debilitating genetic disease that affects tens of thousands who are of African heritage *Sickle Cell and You* Kabo Issik,2024 **Pathology of Sickle Cell Disease** Joseph Song,1971 **Sickle Cell Anemia and Your Child** Roland B. Scott,Althea D. Kessler,1960 **Sickle Cell Disease**

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