

Sickle Cell Anemia A Fictional Reconstruction Answer

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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

although sickle cell anemia was the first molecular disease to be identified its complex and fascinating pathophysiology is still not fully understood a single mutation in the beta globin gene incurs numerous molecular and cellular mechanisms that contribute to the plethora of symptoms associated with the disease our knowledge regarding sickle cell disease mechanisms while still not complete has broadened considerably over the last decades sickle cell anemia from basic science to clinical practice aims to provide an update on our current understanding of the disease s pathophysiology and use this information as a basis to discuss its manifestations in childhood and adulthood current therapies and prospects for the development of new approaches for the management of the disease are also covered

sickle cell anemia is a genetic disease that occurs because the disease genes are passed on from both parents because of the short life of diseased blood cells the spleen works to compensate the body for this deficiency and this intense pressure on the work of the spleen causes damage to its functional performance as an organ that protects the body from infections so patients are more susceptible to inflammatory diseases the reduced flexibility of sickle cells in the case of anemia leads to blockages in the capillaries impeding the supply of blood to the body tissues these blockages cause severe pain and in serious cases may cause infarctions which leads to the affected organs losing their ability to perform their functional tasks and side problems associated with anemia such as fatigue and delays in growth and development may also appear

describes sickle cell anemia including the history of the disease how it is treated and the current medical research towards finding a cure

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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

tapper shows how sickle cell anemia was used to promote the superiority of racial purity and to characterize the black body as contaminated

this monograph summarizes the observations of a six year study of s hemoglobinopathies that was undertaken in jamaica the principal aim of this research was the establishment of the true clinical picture of sickle cell anaemias as revealed by the study of a large group of adult patients a sickle cell clinic was formed in kingston medical center and five peripheral clinics were established in rural hospitals the observations of the research team indicate that the symptoms and signs of classical sickle cell anaemia hb s are similar to those observed in other parts of the world but that the disease is more benign the jaundice less marked the crises fewer and less severe and the expectancy of life longer when compared with the manifestations of sickle cell anaemia in africa and the united states from book jacket

a hereditary disease that is suffered by more than 60 000 americans today sickle cell anemia affects red blood cells includes the history of the disease case studies and treatments available today

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