

Medical report: case study questions

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How would Id's blood help protect him from a foreign invader such as the one now in his system? Id's blood contains white blood cells, which combat infection and Inflammation, Foreign invaders attract phagocyte interruptions and macrophages by means of checkmates. These particular cells eat and dispose of pathogens in a process called phagocytes. These cells ingest and dispose of pathogens and dead matter during phagocytes. Case Story, Question 2 The spotless have traveled to Id's liver; how Is the function of hypotheses related to blood?

Hypotheses are involved in synthesizing proteins, cholesterol, bile salts, forefinger, phosphoric and globetrotting. Additionally, hypotheses ensure that our blood coagulates so we don't bleed to death if Injury occurs, Hypotheses are also able to carry fats in the bloodstream, participate in the detoxification and excretion of substances, fight off disease, and produce waste. Lastly, they are responsible in the synthesis of the plasma protein known as albumin.

Case Story, Question 3 Id's erythrocytes are being destroyed by a parasite that Infects them.

What Is the recess of blood cell formation that replenishes lost cells?

Erythrocyte's is the process of blood cell formation. Case Story, Question 4

Why would Id's Orbs be a good host for a parasitic protozoan? Orb's are a good host because they allow the protozoan to grow and multiply. When the Orb's are unable to withhold all of the parasites, they else and explode, releasing the parasites and infecting more and more Orb's..

Case Story, Question 5 If erythrocytes cannot keep up with the pace of destruction of Orb's what will happen to the oxygen carrying capacity of Id's blood?

A negative feedback system increases ROB production. If there is cellular oxygen deficiency, hypoxia may occur. Case Story, Question 6 Jaundice is a condition characterized by a yellowish color to the skin. Which pigments are produced from the breakdown of blood that might cause Deed to appear Jaundiced? When iron is removed from here, the non-iron portion of hemoglobin is converted to biliverdin, a green pigment, and then into bilirubin, a yellow-orange pigment which most likely contributes to Id's jaundice. Generally, bilirubin enters the liver and is reinserted to the liver where it is then secreted by liver cells into bile.

Case Story, Question 7 why would potentially need a translation AT Del Id's blood count is low due to the increased destruction of Orb's.

Erythrocytes cannot keep up with the destruction of Orbs, thus a blood transfusion is probably needed. This is done to alleviate anemia, increase blood volume and to improve immunity against the parasites that have infected Id's body. Case Story, Question 8 Destruction of Id's red blood cells has caused damage to his kidneys. How is the kidney involved in blood cell production?

Hypoxia stimulates the kidneys to increase the release of the hormone erythropoietin. Erythropoietin is produced by the kidneys to increase the number of ROB precursors. Erythropoiesis is the process of red blood cell formation.

Case Story, Question 9 Which type of White blood cells damaged tissues and pathogens and may have been active early in Id's infection (at the site of the bite where inflammation was occurring)? Neutrophils and wandering macrophages (originating from monocytes) were most likely the White blood cells that phagocytose the tissues and pathogens early in Id's infection.

They gather at sites of infection or inflammation by means of chemotaxis.

They are both active in phagocytosis, a process in which the White blood cells ingest and dispose of dead matter. Case Story, Question 10 Which fluid connective tissue was involved in Id's case? Blood is the fluid connective tissue involved in Id's case. Case Story, Question 11 How would the hemolysis of Id's Red blood cells affect the function of his blood? Red blood cells, once infected by the parasite, would be unable to transport oxygen, carbon dioxide, nutrients, hormones and wastes.

Its other functions, such as regulation of pH, body temperature, and water content of cells would be affected as well. Case Story, Question 12 Why would you expect Id to have a high eosinophil count? A high eosinophil count can indicate an allergic reaction, an autoimmune disease, or in Id's case, a parasitic infection (Malaria is a parasitic infection). Case Story, Question 13 Why would Id's low platelet count concern his physicians? What are the three hemostatic mechanisms that normally occur in a healthy person? Homeostasis is a sequence of responses to stop blood loss from a damaged blood vessel.

They include (1) vascular spasm, (2) platelet plug formation, and (3) blood clotting (coagulation). A low platelet count can make his body lead to inability of his hemostatic mechanisms to function properly.

If homeostasis is not functioning properly, hemorrhage could occur. In a case study, Question 14 asks: If a patient's platelet count is low, which hormone could be administered to him that would stimulate platelet formation?

Thrombopoietin is a hormone produced by the liver that stimulates the formation of platelets from megakaryocytes.