

Circulatory HW #2

Vocabulary: Please define your terms on the ISN-sheet underneath or on the backside of this form. Orient the definitions, so you can read them when flipping the paper.

Hematopoiesis

Thrombocytopenia

Erythropoietin

Hemoglobin

Agglutinin

Hemorrhoids

Jaundice

Agglutinogen

Echinacea/ Dandelion Root/Goldenseal

Questions: Answer the questions on this page using complete sentences. Use the ISN-sheet underneath if you need more space.

1. A husband is perplexed because his wife, who is in a high stress job, goes running for long distances whenever she has the chance. The husband thinks that his wife is addicted to running. When he confronts his wife, she says she loves to run for the way it makes her feel. She talks about a “runner’s high”. Is there any physiological basis for this condition that runner’s experience? Explain.
2. Malaria is a condition that affects a great number of people in tropical countries. What type of disease is Malaria and how and where does it affect the body?
3. Dean Karnazes is an ultramarathoner who runs races of 50, 75, and 100 miles. After having repeated wins in endurance contests the officials become suspicious of his wins. They analyze his blood and find that his RBC count is off the charts. They accuse Dean of “blood doping”. He denies the allegations. What other non-illegal condition might account for his abnormal high RBC count? Come up with an argument to defend Mr. Karnazes.
4. New moms sometimes are affected by a condition called, “Postpartum Depression” where they get the baby blues soon after their child is born. What chemical in the blood is influencing the mom’s emotional state? Is this a valid physiological condition or is it just the mom being overburdened with parenting?