Quiz on Anemia in Pregnancy

Q1. What is the World Health Organization recommendation in pregnancy for iron and folic acid for developing countries?

Q2. What is the earliest morphological evidence of folic acid deficiency?

Q3. What is Mentzer index?

Q4. If both parents are thalassemia minor or trait, what is the inheritance risk in offspring?

Q5. What is the earliest evidence of response to iron therapy?

Multiple Choice Questions

Q1. In sickle cell anemia, life span of red blood cell (RBC) is:
   a. 17 days
   b. 40 days
   c. 76 days
   d. 110 days

Q2. The most fulminant acquired hemolytic anemia due to bacterial toxins encountered during pregnancy is caused by
   a. Clostridium perfringens
   b. Staphylococcus aureus
   c. Escherichia coli
   d. Proteus spp.

Picture Quiz

Q1. This is peripheral blood smear of a pregnant lady at 33 weeks of gestation with history of fever. Identify two main findings in this blood smear.

Q2. Identify the cells in this blood picture

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Answer Key

Q1. A5
Q2. A4
Q3. A3
Q4. A2
Q5. A1

Multiple Choice Questions

A1. (a) 17 days
A2. (a) Clostridium perfringens
A3. Next step in evaluation of microcytic anemia to differentiate thalassemia and iron deficiency anemia
MI = MCV in fL/RBCs in millions per microliter
<13 = Thalassemia (likely), >13 = Iron deficiency anemia
A4. 50% will inherit the trait, 25% will have thalassemia major and 25% will be unaffected.
A5. Increase in reticulocyte count
25% will be unaffected
50% will inherit the trait
25% will have thalassemia major
A6. 100 mg of iron daily for 6 months during pregnancy and for 3 months postpartum in areas of the world
A7. 4 hours of sickle cell and 6 mg of iron daily for 6 months during pregnancy and for 3 months postpartum in areas of the world
A8. 17 days
A9. (a) Maturation arrest
Red cells in the blood smear look unlike normal red cells
A10. Plasmodium falciparum gametocytes, Anisopoikilocytosis
A11. Tear drop cells found in beta thalassemia major
A12. Tear drop cells found in beta thalassemia major

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