

Hematology

1. An elevated level of hemoglobin A2 in a patient with mild microcytic anemia suggests the diagnosis of:
 - a) Alpha-thalassemia
 - b) Sickle trait
 - c) Beta-thalassemia
 - d) Hereditary spherocytosis
 - e) Hereditary persistence of fetal hemoglobin
2. It is unlikely to see macrocytosis in a patient with anemia in which of the following?
 - a) Reticulocytosis
 - b) Vitamin B12 deficiency
 - c) Folate deficiency
 - d) Myelodysplastic syndrome
 - e) Sideroblastic anemia
3. Hemolytic anemia is characterized by all of the following EXCEPT:
 - a) Increased LDH
 - b) Increased reticulocytosis
 - c) Increased unconjugated bilirubin
 - d) Increased haptoglobin
 - e) Lead poisoning
4. The treatment of choice for thrombotic events in the antiphospholipid antibody syndrome is:
 - a) Intravenous steroids
 - b) High-dose oral steroids with a rapid taper
 - c) Penicillamine
 - d) Aspirin
 - e) Warfarin
5. All of the following are vitamin-K dependent proteins EXCEPT:
 - a) Protein C
 - b) Antithrombin III
 - c) Factor IX
 - d) Factor II
 - e) Factor VII
6. Which finding is NOT frequently found in Chronic Myelogenous Leukemia (CML)?
 - a) Elevated WBCs
 - b) Elevated vitamin B12 level
 - c) Elevated LDH
 - d) Translocation between chromosomes 9 and 14
 - e) Increased uric acid level
7. Schistocytes on blood film examination are UNLIKELY to be seen in which of the following:
 - a) Thrombotic thrombocytopenia purpura (TTP)
 - b) Thalassemia
 - c) Vasculitis
 - d) Disseminated intravascular coagulation (DIC)
 - e) Glomerulonephritis
8. All of the following can INHIBIT the absorption of ingested non-heme iron EXCEPT:
 - a) Alcohol
 - b) Achlorhydria
 - c) Phosphate (i.e. as found in milk)
 - d) Phytates (i.e. as found in cereals)
 - e) Antacids
9. A 26 year old female presents to emergency with widespread petechiae on her arms and legs. Her past medical history is significant for thyroid disease. Her lab values show hemoglobin of 115, WBC of 6.6 and platelet count of 9. INR and PTT are normal. What is the most likely diagnosis?
 - a) ITP
 - b) TTP
 - c) HUS
 - d) VWD
 - e) Iron deficiency anemia

10. Which of the following is not associated with elevated INR?

- a) Liver disease
- b) Warfarin use
- c) Factor VII deficiency
- d) Vitamin K deficiency
- e) Factor XII deficiency

11. Which of the following is not a feature of multiple myeloma?

- a) Anemia
- b) Hypercalcemia
- c) Fractures
- d) Renal failure
- e) Splenomegaly

12. Which of the following is not associated with thrombotic thrombocytopenic purpura?

- a) Fever
- b) Elevated indirect bilirubin
- c) Increased creatinine
- d) Mental status changes
- e) Rouleaux on blood film

13. Which of the following occurs in about 90% of patients with chronic myeloid leukemia?

- a) Splenomegaly
- b) Weight loss
- c) Hepatomegaly
- d) Abdominal pain
- e) Fever

14. What is the most common type of Hodgkin's lymphoma?

- a) Mixed cellularity
- b) Nodular sclerosis
- c) Lymphocyte depleted
- d) Lymphocyte predominant

ANSWERS

1. C
2. E
3. D
4. E

5. B
6. D
7. B
8. A

9. A
10. E
11. E
12. E

13. A
14. B