

### QUESTION

1. A 45-year-old male patient with a long history of hypertension and a recent diagnosis of type 2 diabetes mellitus is being treated with lisinopril and metformin. He has been experiencing increasing fatigue and weakness over the past few weeks. His blood pressure is well-controlled, and his blood glucose levels are stable. The patient is concerned about the possibility of a heart attack or stroke. The physician orders a complete blood count (CBC) and a comprehensive metabolic panel (CMP). The CBC shows a hemoglobin level of 10 g/dL and a hematocrit of 30%. The CMP shows a serum ferritin level of 100 ng/mL and a serum iron level of 100 µg/dL. The patient's physician is considering the possibility of iron deficiency anemia.

Parameter	Value
Hemoglobin (Hb)	10 g/dL
Hematocrit (Hct)	30%
Serum Ferritin	100 ng/mL
Serum Iron	100 µg/dL

2. A 65-year-old female patient with a long history of hypertension and a recent diagnosis of type 2 diabetes mellitus is being treated with lisinopril and metformin. She has been experiencing increasing fatigue and weakness over the past few weeks. Her blood pressure is well-controlled, and her blood glucose levels are stable. The patient is concerned about the possibility of a heart attack or stroke. The physician orders a complete blood count (CBC) and a comprehensive metabolic panel (CMP). The CBC shows a hemoglobin level of 10 g/dL and a hematocrit of 30%. The CMP shows a serum ferritin level of 100 ng/mL and a serum iron level of 100 µg/dL. The patient's physician is considering the possibility of iron deficiency anemia.

### ANSWER



3. A 45-year-old male patient with a long history of hypertension and a recent diagnosis of type 2 diabetes mellitus is being treated with lisinopril and metformin. He has been experiencing increasing fatigue and weakness over the past few weeks. His blood pressure is well-controlled, and his blood glucose levels are stable. The patient is concerned about the possibility of a heart attack or stroke. The physician orders a complete blood count (CBC) and a comprehensive metabolic panel (CMP). The CBC shows a hemoglobin level of 10 g/dL and a hematocrit of 30%. The CMP shows a serum ferritin level of 100 ng/mL and a serum iron level of 100 µg/dL. The patient's physician is considering the possibility of iron deficiency anemia.

4. A 65-year-old female patient with a long history of hypertension and a recent diagnosis of type 2 diabetes mellitus is being treated with lisinopril and metformin. She has been experiencing increasing fatigue and weakness over the past few weeks. Her blood pressure is well-controlled, and her blood glucose levels are stable. The patient is concerned about the possibility of a heart attack or stroke. The physician orders a complete blood count (CBC) and a comprehensive metabolic panel (CMP). The CBC shows a hemoglobin level of 10 g/dL and a hematocrit of 30%. The CMP shows a serum ferritin level of 100 ng/mL and a serum iron level of 100 µg/dL. The patient's physician is considering the possibility of iron deficiency anemia.