

QUESTION
 A patient with a long history of alcohol abuse presents with a 2-week history of weight loss, anorexia, and weakness. Physical examination shows a 10% weight loss, a dry mucous membrane, and a heart rate of 100 beats per minute. Laboratory studies show a hemoglobin of 10 g/dL, a hematocrit of 30%, and a mean corpuscular volume of 80 fL. The patient's serum iron is 50 µg/dL, and the total iron-binding capacity is 300 µg/dL. The patient's serum ferritin is 100 µg/L. The patient's serum transferrin saturation is 16%. The patient's serum ferritin is 100 µg/L. The patient's serum transferrin saturation is 16%.

ANSWER
 The patient has iron deficiency anemia. The patient's hemoglobin is 10 g/dL, and the hematocrit is 30%. The patient's mean corpuscular volume is 80 fL. The patient's serum iron is 50 µg/dL, and the total iron-binding capacity is 300 µg/dL. The patient's serum ferritin is 100 µg/L. The patient's serum transferrin saturation is 16%.

Parameter	Value	Reference Range
Hemoglobin	10 g/dL	12-16 g/dL
Hematocrit	30%	37-47%
Mean Corpuscular Volume	80 fL	82-101 fL
Serum Iron	50 µg/dL	50-150 µg/dL
Total Iron-Binding Capacity	300 µg/dL	250-350 µg/dL
Serum Ferritin	100 µg/L	50-200 µg/L
Serum Transferrin Saturation	16%	20-50%

ANSWERS TO QUESTIONS 1-10

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