

QUESTION

1. 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, tachycardia, and a positive Tinel's sign. Laboratory studies show a serum gamma-glutamyl transaminase (GGT) level of 150 U/L, an aspartate aminotransferase (AST) level of 40 U/L, and an alanine aminotransferase (ALT) level of 25 U/L. The patient's serum bilirubin is 1.2 mg/dL. The patient's serum alkaline phosphatase (ALP) is 100 U/L. The patient's serum ferritin is 100 ng/mL. The patient's serum iron is 150 µg/dL. The patient's serum transferrin saturation is 15%. The patient's serum ceruloplasmin is 0.2 mg/dL. The patient's serum copper is 1.2 µg/dL. The patient's serum zinc is 1.2 µg/dL. The patient's serum manganese is 0.2 µg/dL. The patient's serum selenium is 0.2 µg/dL. The patient's serum cobalt is 0.2 µg/dL. The patient's serum nickel is 0.2 µg/dL. The patient's serum molybdenum is 0.2 µg/dL. The patient's serum vanadium is 0.2 µg/dL. The patient's serum chromium is 0.2 µg/dL. The patient's serum boron is 0.2 µg/dL. The patient's serum silicon is 0.2 µg/dL. The patient's serum calcium is 10.0 mg/dL. The patient's serum phosphorus is 3.5 mg/dL. The patient's serum magnesium is 1.8 mg/dL. The patient's serum potassium is 3.5 mEq/L. The patient's serum sodium is 135 mEq/L. The patient's serum chloride is 100 mEq/L. The patient's serum bicarbonate is 24 mEq/L. The patient's serum lactate is 1.0 mmol/L. The patient's serum creatinine is 1.2 mg/dL. The patient's serum urea nitrogen is 15 mg/dL. The patient's serum glucose is 100 mg/dL. The patient's serum insulin is 10 µU/mL. The patient's serum C-peptide is 1.0 ng/mL. The patient's serum HbA1c is 6.5%. The patient's serum ferritin is 100 ng/mL. The patient's serum iron is 150 µg/dL. The patient's serum transferrin saturation is 15%. The patient's serum ceruloplasmin is 0.2 mg/dL. The patient's serum copper is 1.2 µg/dL. The patient's serum zinc is 1.2 µg/dL. The patient's serum manganese is 0.2 µg/dL. The patient's serum selenium is 0.2 µg/dL. The patient's serum cobalt is 0.2 µg/dL. The patient's serum nickel is 0.2 µg/dL. The patient's serum molybdenum is 0.2 µg/dL. The patient's serum vanadium is 0.2 µg/dL. The patient's serum chromium is 0.2 µg/dL. The patient's serum boron is 0.2 µg/dL. The patient's serum silicon is 0.2 µg/dL. The patient's serum calcium is 10.0 mg/dL. The patient's serum phosphorus is 3.5 mg/dL. The patient's serum magnesium is 1.8 mg/dL. The patient's serum potassium is 3.5 mEq/L. The patient's serum sodium is 135 mEq/L. The patient's serum chloride is 100 mEq/L. The patient's serum bicarbonate is 24 mEq/L. The patient's serum lactate is 1.0 mmol/L. The patient's serum creatinine is 1.2 mg/dL. The patient's serum urea nitrogen is 15 mg/dL. The patient's serum glucose is 100 mg/dL. The patient's serum insulin is 10 µU/mL. The patient's serum C-peptide is 1.0 ng/mL. The patient's serum HbA1c is 6.5%.

Parameter	Value
Weight loss	10%
Anorexia	Present
Weakness	Present
Tachycardia	Present
Tinel's sign	Positive
GGT	150 U/L
AST	40 U/L
ALT	25 U/L
Bilirubin	1.2 mg/dL
ALP	100 U/L
Ferritin	100 ng/mL
Iron	150 µg/dL
Transferrin saturation	15%
Ceruloplasmin	0.2 mg/dL
Copper	1.2 µg/dL
Zinc	1.2 µg/dL
Manganese	0.2 µg/dL
Selenium	0.2 µg/dL
Cobalt	0.2 µg/dL
Nickel	0.2 µg/dL
Molybdenum	0.2 µg/dL
Vanadium	0.2 µg/dL
Chromium	0.2 µg/dL
Boron	0.2 µg/dL
Silicon	0.2 µg/dL
Calcium	10.0 mg/dL
Phosphorus	3.5 mg/dL
Magnesium	1.8 mg/dL
Potassium	3.5 mEq/L
Sodium	135 mEq/L
Chloride	100 mEq/L
Bicarbonate	24 mEq/L
Lactate	1.0 mmol/L
Creatinine	1.2 mg/dL
Urea nitrogen	15 mg/dL
Glucose	100 mg/dL
Insulin	10 µU/mL
C-peptide	1.0 ng/mL
HbA1c	6.5%

2. 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, tachycardia, and a positive Tinel's sign. Laboratory studies show a serum gamma-glutamyl transaminase (GGT) level of 150 U/L, an aspartate aminotransferase (AST) level of 40 U/L, and an alanine aminotransferase (ALT) level of 25 U/L. The patient's serum bilirubin is 1.2 mg/dL. The patient's serum alkaline phosphatase (ALP) is 100 U/L. The patient's serum ferritin is 100 ng/mL. The patient's serum iron is 150 µg/dL. The patient's serum transferrin saturation is 15%. The patient's serum ceruloplasmin is 0.2 mg/dL. The patient's serum copper is 1.2 µg/dL. The patient's serum zinc is 1.2 µg/dL. The patient's serum manganese is 0.2 µg/dL. The patient's serum selenium is 0.2 µg/dL. The patient's serum cobalt is 0.2 µg/dL. The patient's serum nickel is 0.2 µg/dL. The patient's serum molybdenum is 0.2 µg/dL. The patient's serum vanadium is 0.2 µg/dL. The patient's serum chromium is 0.2 µg/dL. The patient's serum boron is 0.2 µg/dL. The patient's serum silicon is 0.2 µg/dL. The patient's serum calcium is 10.0 mg/dL. The patient's serum phosphorus is 3.5 mg/dL. The patient's serum magnesium is 1.8 mg/dL. The patient's serum potassium is 3.5 mEq/L. The patient's serum sodium is 135 mEq/L. The patient's serum chloride is 100 mEq/L. The patient's serum bicarbonate is 24 mEq/L. The patient's serum lactate is 1.0 mmol/L. The patient's serum creatinine is 1.2 mg/dL. The patient's serum urea nitrogen is 15 mg/dL. The patient's serum glucose is 100 mg/dL. The patient's serum insulin is 10 µU/mL. The patient's serum C-peptide is 1.0 ng/mL. The patient's serum HbA1c is 6.5%.

ANSWER

