INDICATIONS FOR TESTING
Suspect hypocalcemia
Symptoms: muscle cramping, tetany, tingling

ORDER
Comprehensive metabolic panel
OR
Ionized calcium

Creatinine high

No

Low ionized calcium or corrected calcium* 

ORDER
• Parathyroid Hormone, Intact
• Phosphorus, Inorganic, Plasma or Serum
• Magnesium, Plasma or Serum

Parathyroid hormone low
Creatinine normal
Phosphorus normal or high

Magnesium low
Magnesium deficiency

Parathyroid hormone low
Creatinine normal
Phosphorus low or normal
Magnesium normal

Hypoparathyroidism

Parathyroid hormone high
Creatinine normal
Phosphorus normal or low
Magnesium normal

Order
Vitamin D, 25-Hydroxy

Vitamin D deficiency

Low

Yes

Low or normal calcium

Identify cause and correct acute kidney disease or chronic kidney disease

Magnesium low
Hypoparathyroidism

Phosphorus low or normal
Magnesium normal

Phosphorus low or normal
Magnesium normal

Phosphorus normal or high
Magnesium normal

Phosphorus normal or high
Magnesium normal

Magnesium normal
Hypomagnesemia (Pseudohyponatraemia)