

Connect Perplexing Symptoms With Low Alkaline Phosphatase

The diagnosis may point to hypophosphatasia¹

Ordered Items

Comp. Metabolic Panel (14): Venipuncture

TESTS	RESULT	FLAG
Comp. Metabolic Panel (14)		
Glucose, serum	100	
BUN	16	
Creatinine, serum	0.96	
Sodium, serum	140	
Potassium, serum	4.2	
Chloride, serum	99	
Carbon dioxide, total	23	
Calcium, serum	10.1	
Albumin, serum	3.8	
Total protein	7.4	
Bilirubin, total	0.5	
AST (SGOT)	30	
ALT (SGPT)	35	
Alkaline phosphatase	111	Low



Bone and Joint Pain

Developmental Delays

Muscle Weakness



Persistently low alkaline phosphatase (alk phos) levels can be the key to identifying metabolic bone disease in hard-to-diagnose patients.^{1*}

Pediatric patients with hypophosphatasia (HPP) may experience one or more key symptoms, including joint, bone, or muscle pain, muscle weakness, mobility issues/gait disturbance, early loss of baby teeth with root intact, and developmental delays.^{1,2} When patients present with one or more key symptoms, the next step is to check for age- and sex-adjusted low alk phos on their comprehensive metabolic panel.¹

Patient image and patient lab values are hypothetical. ALP reference ranges vary based upon lab. Refer to your lab for the appropriate reference intervals.

**Age- and sex-adjusted intervals are used to determine the low threshold for pediatric patients.³*

References: 1. Bianchi ML, Bishop NJ, Guañabens N, et al. *Osteoporos Int.* 2020;31(8):1445-1460. 2. Bishop N, Munns CF, Ozono K. *Arch Dis Child.* 2016;101(6):514-515. 3. Adeli K, Higgins V, Nieuwesteeg M, et al. *Clin Chem.* 2015;61(8):1049-1062.

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Learn more about using low alkaline phosphatase to make the connection at hypophosphatasia.com/hcp