Hypophosphatasia (HPP) is a metabolic disorder characterized by LOW Alkaline Phosphatase (ALP) activity[1]

Patients with HPP may experience unpredictable, devastating, and life-limiting consequences, including:[1]

- PREMATURE TOOTH LOSS
- SHORT STATURE AND/OR UNUSUAL GAIT
- MUSCLE WEAKNESS AND/OR FATIGUE
- CHRONIC MUSCLE/ JOINT PAIN
- SKELETAL DEFORMITIES AND/ OR FRACTURES

- In adults, low ALP activity is **<40 U/L**[2,a]
- Age- and sex-adjusted ALP reference intervals must be used in children[3,4]

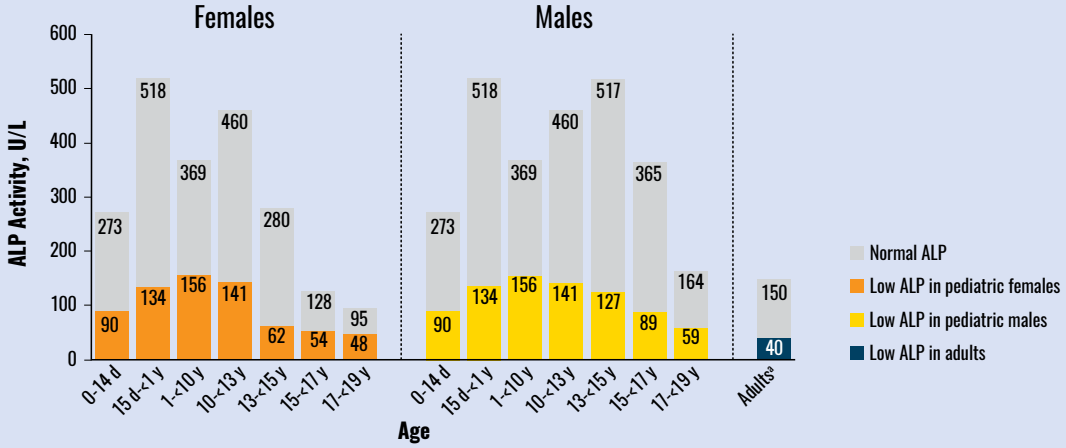
Patients with any of these key signs/symptoms and <u>LOW ALP</u> should be evaluated for HPP[1]

[a]Example cutoff from Abbott Laboratories; adult ALP ranges are lab specific and may vary.

References: **1.** Bishop N, et al. *Arch Dis Child.* 2016;101(6):514-515. **2.** Alkaline phosphatase [package insert]. Abbott Park, IL: Abbott Laboratories; 2007. **3.** Offiah AC, et al. *Pediatr Radiol.* 2019;49(1):3-22. **4.** Colantonio DA, et al. *Clin Chem.* 2012;58(5):854-868.

LOW Alkaline Phosphatase (ALP) may not be flagged if your laboratory does not use age- and sex-adjusted reference intervals in children when testing ALP activity[1]

Age- and sex-adjusted ALP reference ranges, U/L[2,3]



NOTE: Graph adapted from the Canadian Laboratory Initiative on Pediatric Reference Intervals (CALIPER) project.[2] Caliper samples from 1072 male and 1116 female participants (newborn to 18 years) were used to calculate age- and sex-specific reference intervals. No variation in ALP based on ethnic differences was observed. Reference intervals shown were established on the Abbott ARCHITECT c8000 analyzer.

[a]Adult interval provided by the Abbott ARCHITECT ALP product information sheet is for females >15 and males >20 years of age. For younger ages, Abbott does not provide lower limits of normal.[3]

LOW Alkaline Phosphatase (ALP) is hallmark of Hypophosphatasia.[1]
To learn more, please visit www.hypophosphatasia.com

References: **1.** Rockman-Greenberg C. *Pediatr Endocrinol Rev.* 2013;10(2 suppl):380-388. **2.** Colantonio DA, et al. *Clin Chem.* 2012;58(5):854-868. **3.** Alkaline phosphatase [package insert]. Abbott Park, IL: Abbott Laboratories; 2007.

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