|  |  |  |
| --- | --- | --- |
|  | **Normal** | **Abnormality with Hypoparathyroidism** |
| **PTH** | 10-65 pg/mL | <10 pg/dL |
| **Serum Calcium** | 8.6-10.3 mg/dL | <8.5 mg/dL |
| **Serum Ionized Calcium** | 4.5-5.1 mg/dL | <4.5 mg/dL |

**Serum Level Screeening**

(Sommers,2011).

**High Phosphorus:** Once renal failure, intestinal disorders or nutitional deficiencies are ruled out, high phosphorus is tied to hypoparathyroidism. (McCance & Huether, 2008). It is elevated along with hypocalcemia that is associated with hypoparathyroidism (Sommers, 2011).

**Magnesium:** Normal serum levels measured to rule out other disorders (Moore, 2007).

**Creatinine:** Normalserum levels measured to rule out other disorders (Moore, 2007).

**Other Tests**

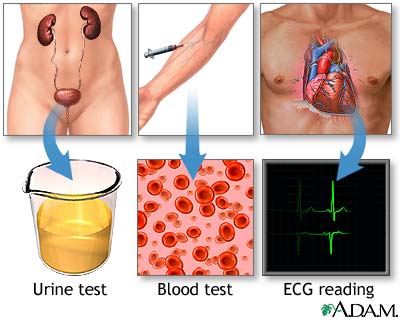
**ECG:** Used to detect arrhythmias that would be caused by hypocalcemia related to hypoparathyroidism (Mayo Clinic, 2012), often a prolonged QT interval (Sommers, 2011).

**Urine calcium:** Looking for excess calcium excreted in the urine as a result of hypoparathyroidism (Mayo Clinic, 2012).

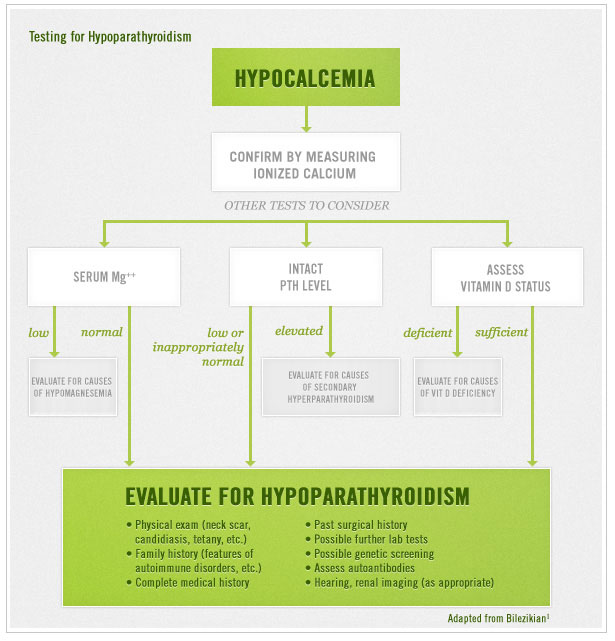
**Computed Tomography:** Used to determine an increased bone density (Sommers, 2011).

**Bone Density Test and X-rays:** Used to determine if abnormal calcium levels affected the strength of bones (Mayo Clinic, 2012).

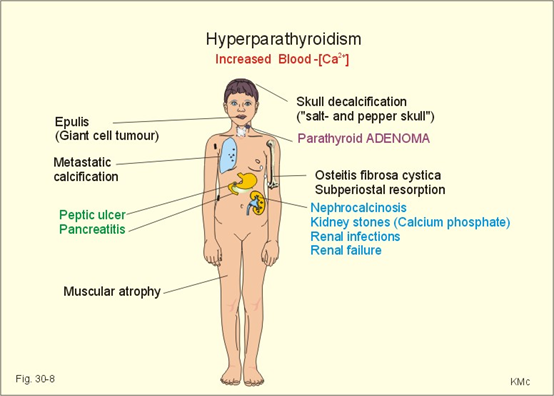
In order for a diagnosis of hypoparathyroidism in children, tooth development and developmental milestones should be compared to the norm for the age. (Mayo, 2012).



http://medicalimages.allrefer.com/large/high-blood-pressure-tests.jpg



http://hypoparathyroidism.com/etiology-and-diagnosis-of-hypoparathyroidism/



http://4.bp.blogspot.com/\_ZWqgYBROGHw/TQqUmKl-9PI/AAAAAAAAB\_w/UssTE7nHnd8/s1600/4721.1.png

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McCance, K. & Huether, S. (2008). *Understanding Pathophysiology,* 4th ed., St. Louis: Mosby-Elsevier.

Moore, E. (2007, Oct). *Understanding hypoparathyroidism.* Retrieved from http://www.cidpusa.org/hypoparathyroism.htm

Sommers, M.S. (2011). *Diseases and disorders: a nursing therapeutics manual.* (4th ed.). Philadelphia, PA: F.A. Davis Company.