ACID PHOSPHATASE TESTING

Policy Number: CMP-045
Effective Date: October 1, 2015

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INSTRUCTIONS FOR USE
This Medical Policy provides assistance in interpreting UnitedHealthcare benefit plans. When deciding coverage, the enrollee specific document must be referenced. The terms of an enrollee's document (e.g., Certificate of Coverage (COC) or Summary Plan Description (SPD)) may differ greatly. In the event of a conflict, the enrollee's specific benefit document supersedes this Medical Policy. All reviewers must first identify enrollee eligibility, any federal or state regulatory requirements and the plan benefit coverage prior to use of this Medical Policy. Other Policies and Coverage Determination Guidelines may apply. UnitedHealthcare reserves the right, in its sole discretion, to modify its Policies and Guidelines as necessary. This Medical Policy is provided for informational purposes. It does not constitute medical advice.

UnitedHealthcare may also use tools developed by third parties, such as the MCG™ Care Guidelines, to assist us in administering health benefits. The MCG™ Care Guidelines are intended to be used in connection with the independent professional medical judgment of a qualified health care provider and do not constitute the practice of medicine or medical advice.

BACKGROUND

Acid phosphatase is an enzyme found throughout the body. Acid phosphatase is present in highest concentrations in the prostate and in metastases to bone.¹ It has also been detected in tissue of heart, muscle, liver, testicles, spleen, skin, and hemopoietic cells.¹ Damage to these tissues causes a moderate increase in acid phosphatase levels.

Diseases of the bone, such as Paget's disease or hyperparathyroidism, and diseases of blood cells, will show moderately increased levels. Acid phosphatase has also been clinically relevant in the diagnosis and follow-up of patients with Gaucher's disease.

Bone Diseases

In patients with nonprostatic cancer, serum acid phosphatase activity is usually elevated when bone metastasis is present.² It is suggested that the origin of acid phosphatase elevation is bone osteoclasts rather than cancer...
tissue, as is the case with prostatic carcinoma. Determination of serum acid phosphatase activity may be useful in the detection of bone metastasis.

Leukemias

Acid phosphatase activity is demonstrable in most blood cells. In laboratory studies, strong activity is present in osteoclasts and some macrophages, moderate activity is seen in plasma cells, megakaryocytes, and monocytes, and weak reactions can be observed in neutrophils, bands, metamyelocytes, myelocytes, and promyelocytes.

In normal lymphocytes and erythroblasts demonstrate very little acid phosphatase activity, however increased acid phosphatase activity is observed in abnormal mononuclear cells of patients with hairy-cell leukemia, lymphocytes from patients with macroglobulinemia, atypical lymphocytes from infectious mononucleosis, and lymphoblasts from patients with T-cell leukemia.

Gaucher’s Disease

Gaucher's disease is a recessive disorder characterized by the deposition of fatty compounds in the brain and other tissue (especially the bone). This deposition can cause mental retardation, abnormal limb posture, spasticity, and difficulty with swallowing. Abnormal macrophages are a diagnostic trait of Gaucher's disease. These cells synthesize large amounts of acid phosphatase.

POLICY

It is recommended that for the following CPT code(s) in Table 1, the patient should have a diagnosis (ICD-9-CM, ICD-10-CM) code(s) listed in the attached table below.

Table 1. HCPCS Codes (Alphanumeric, CPT® AMA)

<table>
<thead>
<tr>
<th>HCPCS Code</th>
<th>Description</th>
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<tbody>
<tr>
<td>84060</td>
<td>Phosphatase, Acid; Total</td>
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ICD-9 Diagnosis Codes (Proven)

CMP-045 Acid Phosphatase ICD9

ICD-10 Diagnosis Codes (Proven)

CMP-045 Acid Phosphatase ICD10

REFERENCES


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<thead>
<tr>
<th>Policy Effective Date</th>
<th>Action/Description</th>
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<tbody>
<tr>
<td>October 1, 2015</td>
<td>Removed ICD9 code table. Replaced with embedded ICD9/ICD10 pdf files.</td>
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