## Section: Chemistry

**Test Name:** Lead (Capillary Screening)

<table>
<thead>
<tr>
<th>Test Includes: Blood Lead by LeadCare</th>
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<tbody>
<tr>
<td>Reporting</td>
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<tr>
<td>Results Available: 7 days</td>
</tr>
<tr>
<td>Contact Number: (650) 573-2500</td>
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<tr>
<td>Reference</td>
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<tr>
<td>Method: LeadCare II Instrument</td>
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<tr>
<td>Turnaround Time: 7 days</td>
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<tr>
<td>Reference Range: &lt;10.0 μg/dL</td>
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**Limitations:** Specimens must be collected exactly as directed to prevent elevated results from environmental contamination.

**Note:** Any capillary screening BLL ≥10 μg/dL must be confirmed with a venous sample.

### Interpretation:

#### Blood Lead 10-14 μg/dL:
- Test every 3-4 months until two consecutive tests are <10.0 μg/dL or three consecutive tests are <15 μg/dL.
- Notify Childhood Lead Program within 7-10 days.

#### Blood Lead 15 – 19 μg/dL:
- Confirm capillary results with a venous sample after a minimum 30 days from initial screen.
- Retest every 3-4 months.

#### Blood Lead 20-44 μg/dL:
- The repeat venous sample should be done within 5 days. If confirmed to be >20 μg/dL, conduct a complete medical evaluation:
  - If >40 μg/dL, retest every 3 months or sooner if level remains high or increases.
  - A blood lead ≥40μg/dL should prompt a serum creatinine to assess renal function.

#### Blood Lead 45 – 69 μg/dL:
- Confirmatory test within 24-48 hours.
- Begin medical treatment and environmental assessment and remediation within 48 hours.
- Pharmacologic treatment is indicated and should be conducted under the guidance of a physician experienced in the treatment of lead poisoning.
- Considered a medical emergency. Medical treatment and environmental assessment/remediation must begin immediately.
- Retest depends on level of confirmatory test and provider and case manager discretion.

#### Blood Lead >70 μg/dL:
- **Immediate medical emergency, hospitalize and chelate**
- Confirm test stat

**Diagnostic Information:** Small amounts of blood lead can be damaging to the development of a child.
# Specimen Requirements

**Specimen Collection:** To prevent contamination of the capillary specimen, the collection procedure must be followed scrupulously. For training on procedure, contact the San Mateo County Childhood Prevent Program at (650) 573-2335.

**Sample Type:** Capillary sample collected using LeadCare capillary and treatment reagent; fill capillary tube according to manufacturer stated fill volume. Venous samples are collected in tubes with heparin or EDTA as anti-coagulants. EDTA tubes must be at least one quarter full. Otherwise you could obtain falsely lower blood lead results.

**Volume/Amount Required:** See above

**Preferred Specimen:** Either capillary or venous

**Collection/Preservation:** See Sample Type above

**Storage Instructions:** Blood in LeadCare treatment reagent vials can be stored for 48 hours at room temperature or up to 7 days at refrigerator temperature.

**Causes for Rejection:** Clotted blood, refrigerated blood, QNS, specimen decomposition, specimen > 7 storage days.

**Sample Container:** LeadCare Treatment Reagent vial or heparin/EDTA vacutainer.

**Sample Test Kit:** LeadCare II Blood Lead Test Kit

**Availability:** No restrictions

## Specimen Submission

**Request Form:** Standard Lab Test

**Specimen Handling:** Universal precautions.

**Transport Temperature:** Room temperature

**Shipping Requirements:** Deliver specimens same day as collected; otherwise refrigerate. Avoid temperature extremes. If mailed, package specimens according to the guidelines for submission of laboratory specimens through US Postal System.

## Billing

**CPT Code(s):** 83655

**Fees:** $22

**Effective Date:** July 1, 2008