

# FOLLOW-UP SCHEDULE

## Blood Lead Levels for Children Under the Age of Six

For each initial blood lead level  $\geq 3.5$   $\mu\text{g}/\text{dL}$ , perform a diagnostic test ASAP. If diagnostic test result falls within a lower category, follow the steps within that category.

If diagnostic or follow up test result falls within a higher category, conduct another diagnostic test.

All diagnostic (i.e., confirmation) tests should be performed as soon as possible (ASAP), but at a minimum within specified time periods.

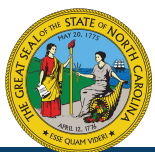
- Diagnostic tests should be venous; however, capillary tests are accepted if a venous cannot be obtained.
- Diagnostic specimens *must* be sent to an outside reference laboratory for analysis.
- Point of care (POC) blood lead analyzers (i.e., LeadCare) **CANNOT** be used for diagnostic/confirmatory tests.
- Follow-up (post-diagnostic) testing can be capillary.
- CDC protocol for collecting capillary specimens should be followed ([www.cdc.gov/biomonitoring/pdf/Lead-Fingerstick-Poster-508.pdf](http://www.cdc.gov/biomonitoring/pdf/Lead-Fingerstick-Poster-508.pdf)).

See <https://nchealthyhomes.com/clinical-lead-resources/> for a list of clinical resources.

Please contact Children's Environmental Health at (919) 609-0877 or [Dph.LeadHelpdesk@dhhs.nc.gov](mailto:Dph.LeadHelpdesk@dhhs.nc.gov) for further assistance.

\*Children's Developmental Services Agency (CDSA)

\*\*Care Management for At-Risk Children (CMARC)



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## INITIAL BLOOD LEAD LEVEL AND RESPONSE

### < 3.50 $\mu\text{g}/\text{dL}$

- Report blood lead test results to parents and document notification
- Educate family about lead sources and prevention of lead exposure. Printable resources are available at <https://nchealthyhomes.com/lead-poisoning/>.
  - Retest at age 2, earlier if risk of exposure increases.

### 3.50 – 4.99 $\mu\text{g}/\text{dL}$ Perform diagnostic test ASAP

If diagnostic test result is 3.50 – 4.99  $\mu\text{g}/\text{dL}$ , take same action as previous category **AND**

- Provide clinical management
- Conduct nutritional assessment and refer child to the WIC Program
- Test other children under the age of six in same household
- Conduct follow-up testing every 3 months until 2 consecutive tests are < 3.50  $\mu\text{g}/\text{dL}$

### 5.00 – 9.99 $\mu\text{g}/\text{dL}$ Perform diagnostic test ASAP

If diagnostic test result is 5.00 – 9.99  $\mu\text{g}/\text{dL}$ , take same action as previous category **AND**

- Complete Form 3651: Exposure History of Child with Elevated Blood Lead Level to identify possible lead sources and fax a copy to Children's Environmental Health at (919) 841-4015
- Refer case to local health department to offer an environmental investigation
- Conduct follow-up testing every 3 months until 2 consecutive tests are < 3.50  $\mu\text{g}/\text{dL}$

### 10.00 – 44.99 $\mu\text{g}/\text{dL}$ Perform diagnostic test ASAP (but at the latest within 1 month at 10.00 – 19.99 $\mu\text{g}/\text{dL}$ and within 1 week at 20.00 – 44.99 $\mu\text{g}/\text{dL}$ )

If diagnostic test result is 10.00 – 44.99  $\mu\text{g}/\text{dL}$ , take same action as previous category **AND**

- Refer to local health department for required environmental investigation
- Refer child to CDSA\* Early Intervention or CMARC\*\*
- Refer to Social Services as needed for housing or additional assistance
- For 10.00 – 19.99  $\mu\text{g}/\text{dL}$ : Conduct follow-up testing every 1-3 months until 2 consecutive tests are < 3.50  $\mu\text{g}/\text{dL}$
- For 20.00-44.99  $\mu\text{g}/\text{dL}$ : Conduct follow-up testing every 2 weeks to 1 month until 2 consecutive tests are < 3.50  $\mu\text{g}/\text{dL}$  and consider an abdominal X-ray to check for ingested object.

### 45.00 – 69.99 $\mu\text{g}/\text{dL}$ Perform diagnostic test ASAP (but at the latest within 48 hours at 45.00 - 59.99 $\mu\text{g}/\text{dL}$ and within 24 hours at 60.00 - 69.99 $\mu\text{g}/\text{dL}$ )

If diagnostic test result is 45.00 – 69.99  $\mu\text{g}/\text{dL}$ , take same action as previous category **AND**

- Consult with North Carolina Poison Control (800) 222-1222 for advice on chelation and/or hospitalization
- Perform an abdominal X-ray to check for ingested object
- Alert NC CLPPP by calling (919) 609-0877
- Conduct follow-up testing every 2 weeks to 1 month until 2 consecutive tests are < 3.50  $\mu\text{g}/\text{dL}$

### $\geq 70.00$ $\mu\text{g}/\text{dL}$ Perform emergency diagnostic test immediately

If diagnostic test result is  $\geq 70.00$   $\mu\text{g}/\text{dL}$ , take same action as previous category **AND**

- Hospitalize child and begin medical treatment immediately
- Conduct follow-up testing every 2 weeks to 1 month until 2 consecutive tests are < 3.50  $\mu\text{g}/\text{dL}$

# FOLLOW-UP SCHEDULE FOR PREGNANCY

Initial Blood Lead Level (BLL) Results	Frequency of Testing	Recommended Interventions According to BLL in Pregnancy
< 5 µg/dL	<ul style="list-style-type: none"> <li>No diagnostic or follow-up testing necessary</li> </ul>	<ul style="list-style-type: none"> <li>Educate on lead exposure sources and risk reduction</li> </ul>
5-9 µg/dL	<ul style="list-style-type: none"> <li>Conduct diagnostic testing within 1 month</li> <li>Conduct follow-up testing every 3 months for the duration of the pregnancy until 2 consecutive BLLs are &lt; 5.00 µg/dL</li> <li><b>Alert baby's healthcare provider to maternal elevated blood lead level. Collect an umbilical cord blood sample or neonatal sample prior to discharge to establish a baseline level for the newborn. Neonatal samples can be venous or capillary (heel stick).</b></li> </ul>	<p>Above actions in addition to:</p> <ul style="list-style-type: none"> <li>Provide case management</li> <li><u>Refer case to local health department to offer an environmental investigation</u></li> <li>Attempt to determine source of lead exposure (home, work, pica)</li> <li>Counsel on strategies to reduce exposure</li> <li>Assess for adequacy of patient's diet</li> <li>Provide prenatal vitamins and nutritional guidance emphasizing adequate Calcium and Iron intake with Vitamin C to enhance absorption</li> <li>For occupationally exposed patients (<u>yes to question #6 on questionnaire</u>); review safe work practices: hand washing, showering before going home, proper laundering of work clothes</li> <li>Provide patient with the following: "<u>Lead and Pregnancy Brochure</u>" (2 sided) and "<u>Keeping Lead at Work and Preventing Take Home Exposure</u>"</li> <li>If appropriate for occupation, encourage wearing a clean/well-fitted respirator</li> <li>Consider contacting the employer about assistance with safe work practices</li> </ul>
10-24 µg/dL	<ul style="list-style-type: none"> <li>Conduct diagnostic testing within 1 month</li> <li>Conduct follow-up testing monthly for the duration of the pregnancy until 2 consecutive BLLs are &lt; 5.00 µg/dL</li> </ul>	<p>Above actions in addition to:</p> <ul style="list-style-type: none"> <li>Recommend removal from workplace lead exposure</li> </ul>
25-44 µg/dL	<ul style="list-style-type: none"> <li>Conduct diagnostic test within 1-4 weeks</li> <li>Conduct follow-up testing monthly for the duration of the pregnancy until 2 consecutive BLLs are &lt; 5.00 µg/dL</li> </ul>	<p>Above actions in addition to:</p> <ul style="list-style-type: none"> <li><b>Advise not to breastfeed and discard breastmilk if BLL ≥ 40 µg/dL</b></li> <li>Testing milk is not recommended</li> </ul>
≥ 45 µg/dL	<ul style="list-style-type: none"> <li>Conduct diagnostic test within 24 hours</li> <li>Conduct follow-up testing at frequent intervals for the duration of the pregnancy depending on clinical interventions and trend in BLLs</li> <li>Should be treated as a high-risk pregnancy. Patient may require transfer to a high-risk obstetrical practice.</li> </ul>	<p>Above actions in addition to:</p> <ul style="list-style-type: none"> <li>Consult or transfer to a provider specializing in lead poisoning therapy before considering chelation for the patient</li> </ul>

## Testing Recommendations for Newly Arrived Refugees

Recommended Screening Measures	Population
<b>Initial lead blood test</b>	<ul style="list-style-type: none"> <li>All refugee infants and children ≤ 16 years of age</li> <li>Refugee adolescents &gt; 16 years of age if there is a high index of suspicion, or clinical signs/symptoms of lead exposure</li> <li>All pregnant and lactating women and girls*</li> </ul>
<b>Follow-up blood test, 3-6 months after initial testing</b>	<ul style="list-style-type: none"> <li>All refugee infants and children ≤ 6 years of age, regardless of initial test result</li> <li>Refugee children and adolescents 7-16 years of age who had BLLs ≥ 3.5 µg/dL, and for any child older than 7 years of age who has a risk factor (e.g., sibling with BLL ≥ 3.5 µg/dL, environmental exposure risk factors) regardless of initial test result</li> <li>Pregnant or lactating adolescents (&lt;18 years of age) who had BLLs ≥ 3.5 µg/dL at initial screening</li> </ul>

\*All newly arrived pregnant or breastfeeding women should be prescribed a prenatal or multivitamin with adequate iron and calcium. Referral to a health care provider with expertise in high-risk lead exposure treatment and management may be indicated for EBLLs.

See Page 1 for clinical follow-up and case management of children with blood lead levels ≥ 3.5 µg/dL.