Elevated Blood Lead Investigation Guideline

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Attachments can be accessed through the Adobe Reader’s navigation panel for attachments. Throughout this document attachment links are indicated by this symbol 📚; when the link is activated in Adobe Reader it will open the attachments navigation panel. The link may not work when using PDF readers other than Adobe.
## Revision History:

<table>
<thead>
<tr>
<th>Version</th>
<th>Replaced</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>01/2018</td>
<td>01/2017</td>
<td>Updated notification section for all lab results to be reported within 24 hours.</td>
</tr>
<tr>
<td>01/2017</td>
<td>11/2013</td>
<td>Updated case definitions and modified all sections of the guideline. New resources added for investigation.</td>
</tr>
<tr>
<td>11/2013</td>
<td>-</td>
<td>First version</td>
</tr>
</tbody>
</table>
**CASE DEFINITION**

**Elevated Blood Lead Level, Childhood**

**Criteria for Case Investigation and Management:**
- Blood lead test result greater than or equal to 5 micrograms per deciliter (µg/dL) for persons less than 16 years of age on the day the blood sample was drawn.

**Elevated Blood Lead Level, Adult**

**Criteria for Case Investigation and Management:**
- Blood lead test result greater than or equal to 5 micrograms per deciliter (µg/dL) for persons 16 years of age or older on the day the blood sample was drawn.

**LABORATORY ANALYSIS**

The results of any blood lead draw (capillary, venous or unknown sample type) on a Kansas child or adult that produces a quantifiable result and is analyzed by a Clinical Laboratory Improvement Amendments (CLIA)-certified facility or a portable device designed by the manufacturer to detect lead in a blood sample is reportable to the Kansas Department of Health and Environment (KDHE).

The Kansas Health and Environmental Laboratories (KHEL) will analyze blood samples collected by local health departments (LHDs) and other approved facilities via:

- collection of a capillary sample using a capillary tube (microtainer or vacutainer)
- collection of a venous sample for Medicaid patients or uninsured patients

Additionally, KHEL will provide blood collection supplies at no cost to Kansas LHDs and other approved facilities. Supplies must be ordered on a “Requisition for Laboratory Specimen Kits” form and samples submitted with a “Universal Form.” Instructions on how to order supplies and submit specimens can be found at [www.kdheks.gov/labs/packaging_and_shipping.html](http://www.kdheks.gov/labs/packaging_and_shipping.html). Note: Submitting facilities should avoid covering required information fields located on the top of the form with bar codes or other markings.

Capillary samples are used only for screening purposes; meaning the first time a child or adult has been tested for lead. All elevated capillary samples with a result of 5 ug/dL or greater must be confirmed by a venous sample. See the [Elevated Blood Lead Case Investigation and Management Algorithm (Appendix B)](http://www.kdheks.gov/labs/packaging_and_shipping.html) for the recommended testing schedule. Once a patient has a confirmed elevated blood lead level from a venous sample, all follow-up testing must use a **venous sample**.

Additional resources for laboratory testing can be found at KHEL website:

- Analysis: [www.kdheks.gov/labs/blood_lead/blood_lead_analysis.htm](http://www.kdheks.gov/labs/blood_lead/blood_lead_analysis.htm)
EPIDEMIOLOGY
According to the Centers for Disease Control and Prevention, approximately half a million children in the United States ages 1-5 years have blood lead levels greater than 5 micrograms of lead per deciliter of blood. The most common source of lead poisoning in children comes from deteriorating lead-based paint, and in Kansas, a large proportion of the homes were built before 1978 when the addition of lead in residential paint was banned. Other sources of lead exposure include lead pellets from guns, some imported cosmetics, spices, and medicines, use of glazed pottery for cooking or storing food, certain hobbies, and certain occupations including lead battery manufacturing (take-home lead).

DISEASE OVERVIEW
A. Agent:
   Lead is found throughout our environment. It is a naturally occurring bluish-gray metal found in small amounts in the Earth’s crust. A good amount of lead in our environment comes from human activities including burning fossil fuels, mining, and manufacturing. In the United States, the most common source of exposure for lead-poisoned children is lead-based paint, while most exposures in adults are work-related. A blood lead test is the only way to tell if a child or adult has an elevated blood lead level.

B. Clinical Description:
The health effects of lead exposure include intellectual and behavioral deficits in children and hypertension and kidney disease in adults (ATSDR, 1999).

C. Routes of exposure:
The most common routes of exposure to lead are ingestion and inhalation.

D. Treatment:
The primary management methods for blood lead poisoning in children and adults are identification and removal of the exposure source(s) or putting barriers in place to avoid introducing lead into the body. In the case of very high blood lead levels, a physician may need to consider chelation therapy to help reduce the amount of lead in the body. For children, a venous blood lead level ≥ 45 µg/dL may warrant the use of chelation therapy. The LHD should immediately recommend that the physician managing the child contact the Pediatric Environmental Health Specialty Unit (PEHSU) at Children’s Mercy Hospital for a free medical consultation. The PEHSU can be contacted at (913) 588-6638 or toll free at (800) 421-9916.

In adults, chelation therapy is generally reserved for individuals with very high blood lead levels or signs of toxicity. Chelation therapy should be strongly considered for adults with venous levels ≥ 80 ug/dL and is almost always
warranted for levels > 100 ug/dL. The LHD should recommend to the patient that he/she contacts his/her physician to discuss treatment.

NOTIFICATION TO PUBLIC HEALTH AUTHORITIES

All blood lead test results performed on a Kansas resident are reportable by laboratories to the KDHE’s Bureau of Epidemiology and Public Health Informatics within 24 hours, except if the reporting period ends on a weekend or state-approved holiday. In that case, the report shall be submitted by 5:00 p.m. on the next business day following the weekend or the holiday. Reports should be submitted electronically using the Electronic Laboratory Reporting platform or the Blood Lead Results Reporting Web application located on the KDHE website.

Blood Lead Results Reporting Application:
https://keap.kdhe.state.ks.us/ReportableConditions/

User Instructions are available on the main page of the application. Providers must set up a password-protected account to obtain access to the application. For questions regarding the Blood Lead Results Reporting Application, or to set up an account, contact the application administrator:

Laurie Render
Laurie.Render@ks.gov
785-296-4499

SCREENING CRITERIA

It is recommended that all children under age 6 years be screened using the Lead Risk Questionnaire (Appendix A). While the LHD may choose to offer blood lead testing services to a wider clientele, the following population subgroups should have priority:

- Medicaid, underinsured, or uninsured children under the age of 6 years
- All children under age 6 years that have one or more risk factors identified on the Lead Risk Questionnaire
- Pregnant or lactating women
- Any close family member of a child with an elevated blood lead level

INVESTIGATOR RESPONSIBILITIES

**Elevated Blood Lead Level, Child < 16 years**

**Definition:** Blood lead test result greater than or equal to 5 micrograms per deciliter (µg/dL) for persons less than 16 years of age on the day the sample was drawn.

Upon notification of an elevated blood lead test result for a child, the local health department (LHD) investigator should:
1) **Accept** the case in EpiTrax within 3 business days.

2) In the [Laboratory] tab, note the result value and the source.
   - Note: the address in this tab is the current residential address at the time of this test. It may not match the address listed in the demographic tab if the patient has moved. Please verify that this is the correct address.

3) Refer to the [Elevated Blood Lead Case Investigation and Management Algorithm (Appendix B)](#).
   - Note: all capillary results must be confirmed by a venous sample before any case investigation or management occurs. Refer to the [Elevated Blood Lead Case Investigation and Management Algorithm (Appendix B)](#) to determine how urgently the confirmatory test should be performed.

4) If investigation and case management is needed for the case, which begins with a telephone interview, first gather the following information from the primary care physician/nurse and/or the family. Update the EpiTrax record with the following information:
   - In the View Morbidity Event page, select **Edit** mode.
     - In the [Demographic] tab:
       - Verify name of patient and correct spelling
       - Enter name of parent/guardian
       - Enter guardian relationship to patient
       - Enter contact information for parent/guardian
       - Verify patient date of birth
       - Enter patient gender
       - Enter patient ethnicity
       - Enter patient race
       - Enter patient primary language
       - Enter insurance type
Choose the [Clinical] tab:

- Update treatment given by the physician
- Verify ordering provider name
- Verify ordering provider phone
- Verify ordering facility name
- Verify ordering facility phone

Choose the [Laboratory] tab:

- Verify the specimen source as capillary or venous. For parents, you may need to explain that a capillary blood sample would have been taken as a finger stick, while the venous sample would have been drawn from the vein.

5) Choose the Investigation tab:

6) You should see the Blood Lead Poisoning Form v2019 in use for new cases. If it is properly loaded, you will see the following tabs.

7) Open the [Investigation Checklist-Child] tab

- Make sure you are in Edit mode
- KDHE automatically sends letters when elevated test results are received. If the Date and Completed by options for “mailed letter to family and physicians re: elevated result” are not filled out, contact KDHE to confirm that letters were sent.
- KDHE automatically sends one-page fact sheets when test results are received. If the Date and Completed by options for “mailed one-page fact sheet to parents and physicians” option is not filled out, contact KDHE to confirm that fact sheet was sent.
- LHD will use this checklist to record other actions taken by the LHD.

8) Open the [Short Telephone Interview Elevated Blood Lead Child < 16 years] tab

- Make sure you are in Edit mode
- If the LHD investigator prefers, he/she can print a hard copy of the Short Telephone Interview-Child (Appendix C). However, he/she must enter the data into the form in EpiTrax. Data not entered in the EpiTrax form...
cannot be exported later for analysis.

9) At the conclusion of the Short Telephone Interview, the investigator should discuss the potential source(s) of the lead exposure. Tell the respondent that you will mail him/her an educational packet.
   - Discuss with the family and physician when the child should be retested. Refer to the Elevated Blood Lead Case Investigation and Management Algorithm (Appendix B).
   - The LHD investigator should mail the Elevated Blood Lead Education Packet-Child (Appendix D) to BOTH the parents and the physician in the case of a child patient.
   - Fill in the Date and Completed By fields within the Investigation Checklist-Child form.

10) If an in-home EBL investigation needs to be conducted for a child (EBL investigations are not routinely conducted for an adult case), it should only be conducted by a state certified EBL investigator. If resources are limited and the LHD or family does not have access to an EBL Certified Investigator, open the In-home Interview-Child Survey (Appendix E).
   - If the LHD investigator prefers, he/she can print a hard copy of the In-home Interview-Child Survey (Appendix E). However, he/she must enter the data into the form in EpiTrax. Data not entered in the EpiTrax form cannot be exported later for analysis.
     - Note: The in-home, face-to-face interview can be conducted by any LHD staff. HOWEVER, collection of environmental samples and on-site testing in and around the home to verify lead contamination must be conducted by an EBL Certified Investigator. LHD staff should not make a visual inspection of the property or make an official declaration about the source or sources of lead exposure. The responses during the face-to-face interview should only guide a discussion about the potential sources of lead exposure in the home, the recommended cleaning and maintenance techniques, and proper nutrition and diet.
     - A template report summarizing the findings from the In-home Interview can be found in the attachments of this pdf. The report reviews the potential source(s) of lead exposure based on interview responses and reviews education given to parents/guardians. It clearly states that if parents/guardians want sampling results to verify potential source(s) of lead exposure, they should have an inspection done by an EBL Certified Investigator. A list of approved professionals can be found at www.kshealthyhomes.org/contact_lead_professionals.htm under the Lead Activity Firms link.
     - For more information on the certification process, please contact the KDHE Healthy Homes and Lead Hazard Prevention Program at (866) 865-3233 or email at KDHE.lead@ks.gov.
   - Fill in the Date and Completed By fields within the Investigation Checklist-Child form.

11) For any child with a venous sample \( \geq 15 \text{ ug/dL} \), you may contact the
Pediatric Environmental Health Specialty Unit (PEHSU) at Children’s Mercy Hospital. The PEHSU is able to provide a free telephone medical consultation to either LHD staff or to the child’s provider to discuss medical management. The PEHSU is a resource to help with management of children with very high lead levels. The PEHSU is not primarily responsible for case investigation and management. The LHD investigator is still responsible for case investigation and management.

- PEHSU can be contacted by emailing mapehsu@cmh.edu or calling 913-588-6638. Please use the EpiTrax number when identifying patients to protect confidential patient information.
- To grant access to the case to the PEHSU, select Route to Local Health Depts. under Jurisdictions. Check PCC (Poison Control Center) and route event.

- To facilitate sharing of information between the LHD, physicians, and PEHSU, the [Notes] tab of the case in EpiTrax should be kept up to date.

- In situations where an in-home EBL investigation is needed but the LHD does not have access to an EBL Certified Investigator, the LHD can discuss with PEHSU staff the feasibility of conducting the investigation on behalf of the LHD. PEHSU’s ability to conduct in-home investigations is limited by geographic area, as well as the resources available at PEHSU. LHD investigator should attend home inspection and continue to follow the case until the child no longer has an elevated blood lead level.
- Fill in the Date and Completed By fields within the Investigation Checklist-Child form.

12) Record actions completed and any recommendations that were made in the [Notes] tab of the case in EpiTrax.
- Cases can be closed once a child has two non-elevated (< 5 ug/dL) venous test results within 12 weeks.
- Once a case is closed, it is recommended that the child be screened using the Lead Risk Questionnaire (Appendix A) annually to make sure that he/she is no longer exposed to lead.
Elevated Blood Lead Level, Adult

Definition: Blood lead test result greater than or equal to 5 micrograms per deciliter (µg/dL) for persons 16 years of age or older on the day the sample was drawn.

Upon notification of an elevated blood lead test result for an adult, the local health department (LHD) investigator should:

1) **Accept** the case in EpiTrax within 3 business days.

2) In the [Laboratory] tab, note the result value and the source.

   - Note: the address in this tab is the current residential address at the time of this test. It may not match the address listed in the demographic tab if the patient has moved. Please verify that this is the correct address.

3) Refer to the Elevated Blood Lead Case Investigation and Management Algorithm (Appendix B).
   - Note that all capillary results must be confirmed by a venous sample before any case investigation or management occurs. Refer to the Elevated Blood Lead Case Investigation and Management Algorithm (Appendix B) to determine how urgently the confirmatory test should be performed.

4) Choose the [Demographic] tab and find the patient phone number. Contact the patient directly.

5) Choose the [Investigation] tab:

6) Open the [Investigation Checklist-Adult] tab
   - Make sure you are in **Edit** mode
• Use this checklist to keep track of other actions taken by the LHD
• LHD investigator should make a minimum of 3 attempts to contact the patient at different times of day. Use the checklist to document attempts.

7) Open the [Short Telephone Interview - Adult] tab

- If the LHD investigator prefers, he/she can print a hard copy of the Short Telephone Interview-Adult (Appendix F). However, he/she must enter the data into the form in EpiTrax. Data not entered in the EpiTrax form cannot be exported later for analysis.

8) After the Short Telephone Interview-Adult, the investigator should discuss the potential source(s) of the lead exposure. Tell the respondent that you will mail him/her an educational packet.

- Discuss with the patient and physician when the adult should be re-tested. Refer to the Elevated Blood Lead Case Investigation and Management Algorithm (Appendix B).
- The LHD investigator should mail the Elevated Blood Lead Informational Packet-Adult (Appendix G) to BOTH the patient and the ordering physician.
- Fill in the Date and Completed By fields within the Investigation Checklist-Adult form.

9) Record actions completed and the recommendations that were made in the [Notes] tab of the case in EpiTrax.

- Once the above actions have been completed, the case can be closed.
- It is recommended that if an adult continues to have elevated blood lead levels (> 5 ug/dL), that the LHD perform the Short Telephone Interview-Adult annually to assess if other members of his/her household, especially children, are exposed to lead.
DATA MANAGEMENT AND REPORTING TO THE KDHE

A. Accept the case assigned to the LHD and record the date the LHD investigation was started on the [Administrative] tab.

B. Organize and collect data, using appropriate data collection tools including, but not limited to:
   - Lead Risk Questionnaire
   - In-home Interview – Child Survey
   - Short Telephone Interview – Adult
   - Alternatively, investigators can collect and enter all required information directly into EpiTrax [Investigation], [Clinical], [Demographics], [Epidemiological] tabs.

C. Report data collected during the course of the investigation via EpiTrax.
   - Verify that all data requested has been recorded on an appropriate EpiTrax [tab], or that actions are completed for a case lost to follow-up as outlined below.
   - Paper report forms do not need to be sent to KDHE after the information is recorded and/or attached in EpiTrax. The forms should be handled as directed by local administrative practices.

D. If a case is lost to follow-up, after the appropriate attempts to contact the case have been made:
   - Record the attempts to contact in the [Investigation] tab.
   - Record, at a minimum, the information that was collected from the initial reporter.
   - Record a reason for 'lost to follow-up' in [Notes] tab.

E. Once the investigation is completed, the LHD investigator will record the date the investigation was completed on the [Administrative] tab and click the “Complete” button. This will trigger an alert to the LHD Administrator so he/she can review the case before submitting it to the state.
   - The LHD Administrator will then “Approve” or “Reject” the Confidential Morbidity Report (CMR).
   - Once a case is “Approved” by the LHD Administrator, BEPHI staff will review and close the case after ensuring it is complete and that the case is assigned to the correct event, based on the reported symptoms reported. (Review the EpiTrax User Guide, Case Routing for further guidance.)
ADDITIONAL INFORMATION / REFERENCES
Lead Risk Questionnaire

Purpose: To identify children who need to be tested for lead exposure

Instructions:
- If Yes or Don’t Know, test the child immediately
- For more information, contact your county’s local health department

Patient’s Name: ____________________________ DOB: _________ Medicaid #: ____________

Provider’s Name: ____________________________ Administered by: ____________________________ Date _________

Questions:
1. Does your child live in or visit a home, day-care or other building built before 1978?
2. Does your child live in or visit a home, day-care or other building with ongoing repairs or remodeling?
3. Does your child eat or chew on non-food things like paint chips or dirt?
4. Does your child have a family member or friend who has or did have an elevated blood lead level?
5. Is your child a newly arrived refugee or foreign adoptee?
6. Does your child come in contact with an adult whose job or hobby involves lead exposure?
   Examples
   • House construction or repair
   • Battery manufacturing or repair
   • Burning lead-painted wood
   • Automotive repair shop or junk yard
   • Going to a firing range or reloading bullets

7. Does your family use products from other countries such as pottery, health remedies, spices, or food?
   Examples
   • Traditional medicines such as Ayurvedic, greta, azarcón, alarcón, alcoholf, bali goli, coral, ghasard, liga, pay-loo-ah, and rueda
   • Cosmetics such as kohl, surma, and sindor
   • Imported or glazed pottery, imported candy, and imported nutritional pills other than vitamins.
   • Foods canned or packaged outside the U.S.

Test Immediately
Cuestionario de Riesgo de Plomo

Propósito: Identificar a los niños que necesitan pruebas de exposición al plomo

Instrucciones:
- Si responde Sí o No sé, hacerle inmediatamente la prueba al niño
- Para obtener mayor información, comunicarse con el departamento de salud local de su condado

Nombre del paciente: __________________________ Fecha de nacimiento: ____________ # de Medicaid: ____________

Nombre del proveedor: __________________________ Administrado por: __________________________ Fecha _________

Preguntas:

1. ¿Su hijo(a) vive o visita un hogar, guardería u otro edificio construido antes de 1978?

2. ¿Su hijo(a) vive o visita un hogar, guardería u otro edificio donde se están haciendo reparaciones o remodelaciones?

3. ¿Su hijo(a) come o mastica objetos no alimenticios como virutas de pintura o tierra?

4. ¿Su hijo(a) tiene un familiar o amigo que tiene o tuvo una concentración alta de plomo en la sangre?

5. ¿Su hijo(a) es un refugiado recién llegado o es un hijo adoptivo extranjero?

6. ¿Su hijo entra en contacto con un adulto cuyo trabajo o pasatiempo implica una exposición al plomo?

   Ejemplos
   - Construcción o reparación de vivienda
   - Fabricación o reparación de baterías
   - Quemar madera con pintura de plomo
   - Taller de reparación de carros o chatarrería
   - Ir a un campo de tiro o recargar balas

   □ • Preparación química □ • Reparación de radiadores
   □ • Conexiones de válvulas/tuberías □ • Fabricación de cerámica
   □ • Fundición de latón/cobre □ • Fundición de plomo
   □ • Renovar acabado de muebles □ • Soldadura
   □ • Hacer pesas para la pesca □ • Otro ____________

7. ¿Su familia utiliza productos de otros países tales como cerámica, remedios para la salud, especies o alimentos?

   Ejemplos
   - Medicinas tradicionales como Ayurvedic, greta, azarcón, alarcón, alkohl, bali goli, coral, ghasard, liga, pay-loo-ah, y rueda
   - Cosméticos tales como kohl, surma y sindor
   - Cerámica importada o esmaltada, dulces importados, píldoras nutricionales importadas que no sean vitaminas.
   - Alimentos enlatados o envasados fuera de Estados Unidos.

Hacer la prueba inmediatamente
### Elevated Blood Lead Case Investigation and Management Algorithm (Child < 16 years old)

<table>
<thead>
<tr>
<th>Blood lead test result</th>
<th>Sample type</th>
<th>Mailed letter to parents and physicians re: elevated result</th>
<th>Mailed one page fact sheet to parents and physicians</th>
<th>Mailed full education packet to parents and physicians</th>
<th>Telephone interview conducted</th>
<th>When to recommend retesting</th>
<th>Full EBL investigation conducted</th>
<th>Recommend to Pediatric Environmental Health Specialty Unit at Children’s Mercy Hospital</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>≥ 5 ug/dL and &lt; 10 ug/dL</strong></td>
<td>Capillary</td>
<td>Capillary LHD to call parents and physicians and recommend confirmatory venous test in 1 - 3 months. Urgency for the confirmatory test is based on how high the test result is.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Venous</td>
<td>Yes (KDHE)</td>
<td>Yes (KDHE)</td>
<td>No</td>
<td>No</td>
<td>3 months</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td><strong>≥ 10 ug/dL and &lt; 15 ug/dL</strong></td>
<td>Capillary</td>
<td>Capillary LHD to call parents and physicians and recommend confirmatory venous test in 1 week - 1 month. Urgency for the confirmatory test is based on how high the test result is.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Venous</td>
<td>Yes (KDHE)</td>
<td>Yes (KDHE)</td>
<td>Yes (LHD)</td>
<td>Yes, 20 minute interview (LHD)</td>
<td>1 to 3 months</td>
<td>No if exposure is identified in telephone interview. Yes (LHD) if no exposure is identified OR if BLL are not decreasing over the last 3 tests.</td>
<td>No</td>
</tr>
<tr>
<td><strong>≥ 15 ug/dL and &lt; 45 ug/dL</strong></td>
<td>Capillary</td>
<td>LHD to call parents and physicians and recommend confirmatory venous test in 1 week - 1 month. Urgency for the confirmatory test is based on how high the test result is.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Venous</td>
<td>Yes (KDHE). PEHSU contact information included in the letter.</td>
<td>Yes (KDHE)</td>
<td>Yes (LHD)</td>
<td>Yes, 20 minute interview (LHD)</td>
<td>1 to 3 months if BLL 15-24 ug/dL; 2 weeks to 1 month if 25-44 ug/dL</td>
<td>Yes (LHD or regional investigator)</td>
<td>As needed (LHD may contact as needed)</td>
</tr>
<tr>
<td><strong>≥ 45 ug/dL</strong></td>
<td>Capillary</td>
<td>Capillary LHD to call parents and physicians and recommend confirmatory venous test within 48 hours if ≥45ug/dL and &lt;60 ug/dL; 24 hours if ≥ 60 ug/dL and &lt;70 ug/dL; immediately if ≥70 ug/dL.</td>
<td></td>
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<tr>
<td></td>
<td>Venous</td>
<td>Yes (KDHE). PEHSU contact information included in the letter.</td>
<td>Yes (KDHE)</td>
<td>Yes (LHD)</td>
<td>No (full EBL investigation)</td>
<td>As soon as possible</td>
<td>Yes (LHD or regional investigator)</td>
<td>Yes, required (LDH will contact)</td>
</tr>
</tbody>
</table>

<p>| All Cases | Venous | Cases may be closed after 2 consecutive venous results &lt;5 ug/dL within 3 months have been received. | | | | | | |</p>
<table>
<thead>
<tr>
<th>Blood lead test result</th>
<th>Sample Type</th>
<th>Mailed Elevated Blood Lead Informational Packet – Adult to patient and physicians</th>
<th>Telephone call asking about screening children in the home</th>
<th>When to recommend retesting</th>
</tr>
</thead>
<tbody>
<tr>
<td>≥ 5 ug/dL and &lt; 10 ug/dL</td>
<td>Capillary</td>
<td>LHD to call patient and physicians and recommend confirmatory venous test in 1 - 3 months</td>
<td></td>
<td></td>
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<tr>
<td></td>
<td>Venous</td>
<td>Yes (LHD)</td>
<td>Yes (LHD)</td>
<td>Monthly if known ongoing exposure (occupation/hobby)</td>
</tr>
<tr>
<td>≥ 10 ug/dL and &lt; 15 ug/dL</td>
<td>Capillary</td>
<td>Recommend confirmatory venous test in 1 week - 1 month</td>
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<td></td>
</tr>
<tr>
<td></td>
<td>Venous</td>
<td>Yes (LHD)</td>
<td>Yes (LHD)</td>
<td>Monthly if known ongoing exposure (occupation/hobby)</td>
</tr>
<tr>
<td>≥ 15 ug/dL and &lt; 45 ug/dL</td>
<td>Capillary</td>
<td>LHD to call patient and physicians and recommend confirmatory venous test in 1 week - 1 month</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Venous</td>
<td>Yes (LHD)</td>
<td>Yes (LHD)</td>
<td>Monthly if known ongoing exposure (occupation/hobby)</td>
</tr>
<tr>
<td>≥ 45 ug/dL</td>
<td>Capillary</td>
<td>LHD to call patient and physicians and recommend confirmatory venous test as soon as possible</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Venous</td>
<td>Yes (LHD)</td>
<td>Yes (LHD)</td>
<td>Monthly if known ongoing exposure (occupation/hobby)</td>
</tr>
</tbody>
</table>