

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 \square ; 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:

Date	Replaced	Comments
03/2017	11/2013	Updated case definitions and modified all sections of the guideline. New resources added for investigation.
11/2013	-	First version

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

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

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 CLIA-certified facility or an approved portable device 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 and other approved facilities via:

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

Additionally, KHEL will provide blood collection supplies at no cost to Kansas local health departments 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 <u>www.kdheks.gov/labs/packaging_and_shipping.html</u>.

Capillary samples are used only for screening purposes. All elevated capillary samples should be confirmed by a venous sample. See the <u>Elevated Blood Lead</u> <u>Case Investigation and Management Algorithm (Appendix B)</u> for the timeframe in which venous samples should be taken. All retesting after intervention should be via venous sample.

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

- About: www.kdheks.gov/labs/blood_lead/blood_lead.htm
- Analysis: <u>www.kdheks.gov/labs/blood_lead/blood_lead_analysis.htm</u>
- Collection: <u>www.kdheks.gov/labs/blood_lead/blood_lead_collection.htm</u>
- Brochure: <u>www.kdheks.gov/neonatal/download/BL_Brochure_for_collectors.pdf</u>

EPIDEMIOLOGY

According to the Centers for Disease Control and Prevention, approximately 535,000 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, cosmetics or medicines from other countries, and takehome lead from hobbies such as pottery, and certain occupations including lead battery manufacturing.

DISEASE OVERVIEW

A. Agent:

Lead is found throughout our environment. It is a naturally occurring bluishgray 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 the majority of adult cases are workplace-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 deficit 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 for child and adult lead poisoning is identification of the lead source and stopping exposure. 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 \geq 45 ug/dL may warrant the use of chelation therapy. The local health department 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 local health department should recommend to the patient that they contact their physician to discuss treatment.

NOTIFICATION TO PUBLIC HEALTH AUTHORITIES

Elevated blood lead levels in children and adults are reportable by laboratories directly to the Kansas Department of Health and Environment-Bureau of Epidemiology and Public Health Informatics within 24 hours. Non-elevated blood lead test results for children and adults are reportable to KDHE-BEPHI within 30 days.

Kansas Department of Health and Environment (KDHE) Bureau of Epidemiology and Public Health Informatics (BEPHI) Phone: 1-877-427-7317 Fax: 1-877-427-7318

SCREENING CRITERIA

While the local health department may choose to expand blood lead testing services, the priority for offering testing should be:

- Children under the age of 6 years
- Any children under the age of 16 years
- Pregnant or lactating women
- Any close family member of an elevated blood lead child

The local health department may also consider using the <u>Lead Risk Questionnaire</u> (Appendix A) when determining whether to test.

INVESTIGATOR RESPONSIBILITIES

Elevated Blood Lead Level, Child < 16 years

Definition: Blood lead test result greater than or equal to 5 micrograms per deciliter (μ g/dL) for persons less than 16 years of age.

Upon notification of an elevated blood lead test result for a child, the local health department investigator should:

- 1) Accept the case in EpiTrax within 3 business days.
- In the [Encounters] tab, choose Show Encounter next to the encounter that you are working on which will be the lab report for the current blood lead test result.

emographic C	Clinical	Laboratory	Contac	ts Encounters	Epidemiolo	ogical Repo	orting	Investigation	Notes	Administrati
Encounter Info	ormati	on								
Encounters										
Encounters	TOR	ENCOUNTER DA	ATE C	ESCRIPTION		LOCATION				
				ESCRIPTION	ory Report		Show	encounter Ed	it Encounter	 I r
INVESTIGAT	OMIN	2016-12-12	E			Other		Encounter Ed		

3) Choose the [Lab] tab and note the result value and the source.

ounter Clinical Lat	Investigation Notes		
boratory Information	n		
LAB NAME	TEST TYPE	TEST RESULT	SPECIMEN
LABCORP Electronic lab report	Blood lead Organism: Accession number: 34702841020	Test result: Blood lead (PbB) measured Result value: 5.0 Units: ug/dL Reference range: 0-4 Test status: Final	Source: Blood - venous Collected on: 2016-12-12 Tested on: 2016-12-14 Sent to state lab:
	Specimen source: BLDV&BLOOD VENO	US, , BLDV/BLOOD VENOUS, Abnormal flags: H, OL	oservation value: ^5, ELR Message: No organism mapped to LOINC o

- 4) Refer to the <u>Elevated Blood Lead Case Investigation and Management</u> <u>Algorithm (Appendix B)</u>.
 - Note: all capillary results must be confirmed by a venous sample before any case investigation or management occurs. Refer to the <u>Elevated</u> <u>Blood Lead Case Investigation and Management Algorithm (Appendix</u> <u>B)</u> to determine how urgently the confirmatory test should be performed.
- 5) 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 VIEW MORBIDITY EVENT, select Edit mode.
 - In the [Demographic] tab:

Demographic Clinical Laboratory Contacts Encounters Epidemiological Reporting Investigation Notes Administrative

- . 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 [Encounters] tab then choose Edit Encounter for the current lab.

emographic	Clinical	Laboratory	Contacts	Encounters	Epidemiol	gical	Repo	orting	Investigatio	on Note	в /
ncounter In	formati	on									
Encounter	5										
INVESTIG	ATOR	ENCOUNTER DA	ATE DES	CRIPTION		LOCA	TION				
TRISANO_	ADMIN	2016-12-12	Elect	tronic Laborat	ory Report	Othe	r	Show E	ncounter	Edit Encou	nter
TRISANO_	ADMIN	2016-12-01	Elect	tronic Laborat	ory Report	Othe	r	Show E	ncounter	Edit Encou	nter
TRISANO_	ADMIN	2016-09-13	Elect	tronic Laborat	ory Report	Othe	r	Show E	ncounter	Edit Encou	nter
			.	Encount	ter Clinie	al	Lab	Invest	igation	Notes	

• Choose the [Encounters] tab:

Update the residential address where the patient was living at the time the blood sample was drawn.

Choose the [Clinical] tab:
 Encounter Clinical Lab Investigation Notes

Encounter

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

Clinical

Verify ordering facility phone

Lab

• Choose the [Lab] 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.

Investigation

Notes

- 6) Go back to the main morbidity event by clicking on the patient name in red.
- 7) Choose the Investigation tab:

	1	Demographic	Clinical	Laboratory	Contacts	Encounters	Epidemiological	Reporting	Investigation	Notes	Administrative
--	---	-------------	----------	------------	----------	------------	-----------------	-----------	---------------	-------	----------------

 You should see the Blood Lead Poisoning Form v2017 in use. If it is properly loaded, you will see the following tabs.

Blood Lead Poisoning Form v2017

 Investigation Checklist-Child
 Short Telephone Interview Elevated Blood Lead Child < 16 years</th>
 In-home Elevated Blood Lead Investigation-Child Survey
 Investigation Checklist-Adult
 Short Telephone Interview - Adult

 For older cases, the old form called Blood Lead Blood Lead Poisoning Exposure
 Investigation Form will need to be removed from the case before the
 new form Blood Lead Poisoning Form v2017 can be added to the case.
 Investigation Checklist-Adult
 Short Telephone Interview - Adult

- Select Add/Remove forms for this event in the left panel. Click on the checkbox next to the Blood Lead Poisoning Exposure Investigation Form. Scroll down and click "Remove Forms" and select yes at the prompt. Be very careful that you are only removing the Blood Lead Poisoning Exposure Investigation Form.
- Scroll down the list of Forms available for use and choose the Blood Lead Poisoning Form v2017.

Blood Lead Poisoning Form v2017 2017 Blood Lead Poisoning Form

- . Check the box next to Morbidity Event
- . Scroll to the bottom of the screen and select "Add form"
- Scroll back up to the top of the screen. You should see that the Blood Lead Poisoning Form v2017 has been added to the event.
 Select Show CMR at the top of the screen to go back to the case.
- 9) Choose the [Investigation] tab Demographic Clinical Laboratory Contacts Encounters Epidemiological Reporting Investigation Notes Administrat
 - Demographic Clinical Laboratory Contacts Encounters Epidemiological Reporting Investigation Notes Administrative
 - You should now see the Blood Lead Poisoning Form v2017 loaded

10)Open the [Investigation Checklist-Child] tab

Investigation Checklist-Child Short Telephone Interview Elevated Blood Lead Child < 16 years In-home Elevated Blood Lead Investigation-Child Survey Investigation Check

- Make sure you are in Edit mode
- KDHE will automatically send letters when 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, please contact KDHE to confirm that letters were sent.
- KDHE will automatically send 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, please contact KDHE to confirm that fact sheet was sent.
- Use this checklist to keep track of other actions taken by the local health department.

11)Open the [Short Telephone Interview ... Child...] tab

Investigation Checklist-Child Short Telephone Interview Elevated Blood Lead Child < 16 years In-home Elevated Blood Lead Investigation-Child

- Make sure you are in Edit mode
- If the local health department prefers, they can print off a hard copy of the <u>Short Telephone Interview-Child (Appendix C)</u>. However, they must enter the data into the form in EpiTrax. Data not entered into the EpiTrax form cannot be exported later for analysis.
- 12) 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 them an educational packet.
 - Discuss with the family and physician when the child should be retested. Refer to the <u>Elevated Blood Lead Case Investigation and Management</u> <u>Algorithm (Appendix B)</u>.
 - The local health department investigator should mail the <u>Elevated Blood</u> <u>Lead Education Packet (Appendix D)</u> 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.
- 13) 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 local health department or family does not have access to an EBL Certified Inspector, open the In-home Interview-Child Survey (Appendix E).
 - - Note that the in-home interview, which is a face-to-face interview, can be conducted by any local health department 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 Inspector. Local health department 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 be used to guide a discussion about <u>potential</u> sources of lead exposure in the home, discuss recommended cleaning and maintenance techniques, and discuss proper nutrition and diet.

A template report summarizing the findings from the In-home Interview can be found in the <u>attachments</u> 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 Inspector. 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 <u>KDHE.lead@ks.gov</u>.
- Fill in the Date and Completed By fields within the Investigation Checklist-Child form.
- 14) For any child with a venous sample ≥ 15 ug/dL, contact the Pediatric Environmental Health Specialty Unit (PEHSU) at Children's Mercy Hospital. The PEHSU is able to provide a free medical consultation to either local health department staff or to the provider caring for the child via telephone to discuss medical management. The PEHSU is a resource to help with management of children with very high lead levels. However, they are not primarily responsible for case investigation and management, as that responsibility falls to the LHD investigator.
 - PEHSU can be contacted by emailing <u>mapehsu@cmh.edu</u> or calling 913-588-6638. Please use the EpiTrax number when identifying patients to protect confidential patient information.
 - To facilitate sharing of information between the LHD, physicians, and PEHSU, the Notes section 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.
 - Fill in the Date and Completed By fields within the Investigation Checklist-Child form.
- 15) Record actions completed and recommendations in the [Notes] section of the case in EpiTrax.

- Cases can be <u>closed</u> once a child has two non-elevated (< 5 ug/dL) venous test results within 12 weeks.
- Once a child is no longer considered an elevated blood lead case, it is recommended that the child is screened using the Lead Risk <u>Questionnaire (Appendix A)</u> annually to make sure that he/she is not exposed to any lead sources.

Elevated Blood Lead Level, Adult

Definition: Blood lead test result greater than or equal to 5 micrograms per deciliter (μ g/dL) for persons 16 years of age or older

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

- 1) Accept the case in EpiTrax within 3 business days.
- 2) In the [Encounters] tab, choose Show Encounter next to the Encounter that you are working on. The Encounter is the lab report for the current blood lead test result.

emographic Clinica	I Laboratory	Contacts	Encounters Epi	idemiologic	al Repo	rtina	Investigation	Notes
lographic Clinica	Laboratory	Contacts	Encounters	demiologic	ai Repu	rung	nivesugation	Notes
counter Informa	tion							
Encounters								
Encounters INVESTIGATOR	ENCOUNTER DA	ATE DESC	CRIPTION	LO	CATION			
2.1.00 0.110 0.0			CRIPTION			Show	Encounter Ed	lit Encounter
INVESTIGATOR	2016-12-12	Elect		Report Ot	ther		Encounter Ed Encounter Ed	

3) Choose the [Lab] tab and note the result value and the source.

boratory Informatio	n		
Labs			
LAB NAME	TEST TYPE	TEST RESULT	SPECIMEN
ACL Laboratories Electronic lab report	Blood lead Organism: Accession number: 288L606460-R33164104	Test result: Blood lead (PbB) measured Result value: 29.7 Units: ug/dL Reference range: <42 Test status: Final	Source: Blood - venous Collected on: 2016-12-08 Tested on: 2016-12-1 Sent to state lab:

- 4) Refer to the <u>Elevated Blood Lead Case Investigation and Management</u> <u>Algorithm (Appendix B)</u>.
 - 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.
- 5) Go back to the main morbidity event by clicking on the patient name in red.
- 6) Choose the [Demographic] tab and find the patient phone number. Contact the patient directly.

Demographic	Clinical	Laboratory	Contacts	Encounters	Epidemiological	Reporting	Investigation	Notes	Administrative

7) Choose the [Investigation] tab:

Demographic Clinical Laboratory Contacts Encounters Epidemiological Reporting Investigation Notes Administrative

8) Open the [Investigation Checklist-Adult] tab

In-home Elevated Blood Lead Investigation-Child Survey Investigation Checklist-Adult Short Telephone Interview - Adult

- Make sure you are in Edit mode
- KDHE will automatically send letters when test results are received. If the Date and Completed by options for "mailed letter to patient and physicians re: elevated result" are not filled out, please contact KDHE to confirm that letters were sent.
- KDHE will automatically send one page fact sheets when test results are received. If the Date and Completed by options for "mailed one page fact sheet to patient and physicians" option is not filled out, please contact KDHE to confirm that fact sheet was sent.
- Use this checklist to keep track of other actions taken by the local health department.
- 9) Open the [Short Telephone Interview Adult]...tab

In-home Elevated Blood Lead Investigation-Child Survey Investigation Checklist-Adult Short Telephone Interview - Adult

- If the local health department prefers, they can print off a hard copy of the <u>Short Telephone Interview-Adult (Appendix F)</u>. However, they must enter the data into the form in EpiTrax. Data not entered into the EpiTrax form cannot be exported later for analysis.
- 16) At the conclusion of the Short Telephone Interview-Adult, the investigator should discuss the potential source(s) of the lead exposure. Tell the respondent that you will mail them an educational packet.
 - Discuss with the patient and physician when the adult should be retested. Refer to the <u>Elevated Blood Lead Case Investigation and</u> <u>Management Algorithm (Appendix B)</u>.
 - The local health department investigator should mail the <u>Elevated Blood</u> <u>Lead Informational Packet (Appendix D)</u> to BOTH the patient and the physician.
 - Fill in the Date and Completed By fields within the Investigation Checklist-Adult form.
- **10)** Record actions completed and recommendations in the [Notes] section of the case in EpiTrax.
 - Once the above actions have been completed, the case can be <u>closed</u>.
 - It is recommended that if the adult continues to have elevated blood lead levels (<u>> 5 ug/dL</u>), that the local health department perform the <u>Short Telephone Interview-Adult</u> annually to make sure that children are not exposed.

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:
 - Indicate 'lost to follow-up' on the [Investigation] tab with the number of attempts to contact the case recorded.
 - Record at least the information that was collected from the initial reporter.
 - Record a reason for 'lost to follow-up' in [Notes].
- **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 they can review the case before sending to the state.
 - The LHD Administrator will then "Approve" or "Reject" the 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 <u>EpiTrax User Guide, Case Routing</u> for further guidance.)

ADDITIONAL INFORMATION / REFERENCES

Agency for Toxic Substances and Disease Registry (ATSDR). Toxicological profile for lead. Atlanta, GA: US Department of Health and Human Services, Agency for Toxic Substances and Disease Registry; 1999. Available at: <u>www.atsdr.cdc.gov/toxprofiles/index.asp</u>. Accessed on: November 5, 2013.



Lead Risk Questionnaire

Purpose: To identify	children w	ho need	to be	tested	for	lead	expos	ure
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 b	y:	Date _		
Questions: 1. Does your child live in or visit a home, of 2. Does your child live in or visit a home, of 3. Does your child eat or chew on non-food 4. Does your child have a family member 5. Is your child a newly arrived refugee or 6. Does your child come in contact with an Examples	day-care or other building with one od things like paint chips or dirt? or friend who has or did have an e foreign adoptee?	going repairs or remodeling? elevated blood lead level?		Yes or Don't Know	
ExamplesHouse construction or repair	 Chemical preparation 	 Radiator repair 			
 Battery manufacturing or repair 	\square • Valve and pipe fittings	• Pottery making			
 Burning lead-painted wood 	• Brass/copper foundry	□ • Lead smelting			
 Automotive repair shop or junk yard 	• Refinishing furniture	□ • Welding			
Going to a firing range or reloading bullets	• Making fishing weights	□ • Other			
 7. Does your family use products from oth <i>Examples</i> Traditional medicines such as Ayurvedic, g Cosmetics such as kohl, surma, and sindor Imported or glazed pottery, imported candy Foods canned or packaged outside the U.S 	reta, azarcón, alarcón, alkohl, bali go , and imported nutritional pills other t	li, coral, ghasard, liga, pay-loo-ah, a	nd rueda	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 Medica	id:	
Nombre del proveedor:	Administrac	Administrado por:		Fecha	
Preguntas: 1. ¿Su hijo(a) vive o visita un hogar, guarderí 2. ¿Su hijo(a) vive o visita un hogar, guardería 3. ¿Su hijo(a) come o mastica objetos no alin 4. ¿Su hijo(a) tiene un familiar o amigo que ti 5. ¿Su hijo(a) es un refugiado recién llegado 6. ¿Su hijo entra en contacto con un adulto co	a u otro edificio donde se están h nenticios como virutas de pintura ene o tuvo una concentración ali o es un hijo adoptivo extranjero?	aciendo reparaciones o remo o tierra? a de plomo en la sangre?	odelaciones?	Sí o No sé	
Ejemplos Construcción o reparación de vivienda 	• Preparación química	• Reparación de radiador	es 🗆		
 Fabricación o reparación de baterías 	 Conexiones de válvulas/tuberi 	as • Fabricación de cerámica	a 🗆		
Quemar madera con pintura de plomo	 Fundición de latón/cobre 	 Fundición de plomo 			
Taller de reparación de carros o chatarrería	• Renovar acabado de muebles	• Soldadura			
 Ir a un campo de tiro o recargar balas 	Hacer pesas para la pesca	□ • Otro			
 7. ¿Su familia utiliza productos de otros paíse <i>Ejemplos</i> Medicinas tradicionales como Ayurvedic, greta, Cosméticos tales como kohl, surma y sindor Cerámica importada o esmaltada, dulces impor Alimentos enlatados o envasados fuera de Esta 	, azarcón, alarcón, alkohl, bali goli, c rtados, píldoras nutricionales import	oral, ghasard, liga, pay-loo-ah,		Hacer la prueba inmediatamente	

		Elevated Bloc	d Lead Case Ir	vestigation and	d Management	Algorithm (Child	d < 16 years old)	
Blood lead test result	Sample type	Mailed letter to parents and physicians re: elevated result	Mailed one page fact sheet to parents and physician	Telephone interview conducted	Mailed full education packet to parents and physicians	When to recommend retesting	In-home interview conducted	Referred to Pediatric Environmental Health Specialty Unit at Children's Mercy Hospital
								ency for the confirmatory test is
	Capillary	based on how	high the test res	ult is.				
≥ 5 ug/dL and < 10 ug/dL	Venous							
		Yes (KDHE)	Yes (KDHE)	No	No	3 months	No	No
	Capillary		rents and physic w high the test r		mend confirmato	ry venous test in	1 week - 1 month	. Urgency for the confirmatory test
≥ 10 ug/dL and < 15 ug/dL	Venous	Yes (KDHE)	Yes (KDHE)	Yes, 20 minute interview (LHD)	Yes (LHD)	1 to 3 months	No if exposure is identified in telephone interview. Yes (LHD or regional investigator) if no exposure is identified OR if BLL are not decreasing over the last 3 tests.	No
	Capillary		rents and physic w high the test r		mend confirmato	ry venous test in	1 week - 1 month	Urgency for the confirmatory test
<u>></u> 15 ug/dL and < 45 ug/dL	Venous	Yes (KDHE). PEHSU contact information included in the letter.	Yes (KDHE)	Yes, 20 minute interview (LHD)	Yes (LHD)	1 to 3 months if BLL 15-24 ug/dL; 2 weeks to 1 month if 25- 44 ug/dL	Yes (LHD or regional investigator)	Yes (LHD)
	Capillary	LHD to call par	ents and physic		nend confirmato			5ug/dL and <60 ug/dL; 24 hours if
<u>≥</u> 45 ug/dL	Venous	Yes (KDHE). PEHSU contact information included in the letter.	Yes (KDHE)	No (full EBL investigation)	Yes (LHD)	As soon as possible	Yes (LHD or regional investigator)	Yes (LHD)

	E	levated Blood Lead Case	Investigation	and Management Alc	orithm (Adult > 16 year	s old)	
Blood lead test result	Sample Type	Mailed letter to patient and physicians re: elevated result (includes checklist of what to do if there are children in the home)	Mailed one page fact sheet to patient and physician	Telephone call asking about screening children in the home	Mailed full education packet to patient and physicians	When to recommend retesting	
	Capillary	LHD to call patient and physicians and recommend confirmatory venous test in 1 - 3 months					
<u>></u> 5 ug/dL and < 10 ug/dL	Venous	Yes (KDHE)	Yes (KDHE)	Yes (LHD)	Yes (LHD)	Monthly if known ongoing exposure (occupation/hobby)	
	Capillary	Recommend confirmatory venous test in 1 week - 1 month					
≥ 10 ug/dL and < 15 ug/dL	Venous	Yes (KDHE)	Yes (KDHE)	Yes (LHD)	Yes (LHD)	Monthly if known ongoing exposure (occupation/hobby)	
	Capillary	LHD to call patient and physicians and recommend confirmatory venous test in 1 week - 1 month					
≥ 15 ug/dL and < 45 ug/dL	Venous	Yes (KDHE)	Yes (KDHE)	Yes (LHD)	Yes (LHD)	Monthly if known ongoing exposure (occupation/hobby)	
	Capillary	LHD to call patient and physicians and recommend confirmatory venous test as soon as possible					
<u>></u> 45 ug/dL	Venous	Yes (KDHE)	Yes (KDHE)	Yes (LHD)	Yes (LHD)	Monthly if known ongoing exposure (occupation/hobby)	

