



Screening for Safety: The Role of Blood Lead Testing in Childhood Lead Poisoning Prevention

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I do not intend to discuss an unapproved/investigative use of a commercial product/device in my presentation.

I have not used artificial intelligence in the development of this presentation.

Objectives

- At the conclusion of this activity, learners will be able to:
 - Explain the importance of blood lead testing.
 - Identify patients who need a blood lead test.
 - Apply CDC's guidelines for follow-up testing.
 - Implement blood lead test reporting of all blood lead test results.

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Sources of Lead

- Lead in the home
 - Paint, soil, drinking water, foods and medicines



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Sources of Lead

- Lead in consumer products
- Jobs and hobbies with exposures



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Effects of Lead in Children

- Low levels of lead
 - Learning and behavior problems
- High levels of lead
 - Neurological symptoms
 - Chelation for BLLs of $\geq 45 \mu\text{g/dL}$



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Targeting High-Risk Populations

- Children who...
- Pregnant and breastfeeding women who...



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CDC Guidelines

- Test children living in high-risk areas at ages 1 and 2
- Test all children at **increased risk**



CENTERS FOR DISEASE
CONTROL AND PREVENTION

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CDC Guidelines: Recommended Schedule for Obtaining a Confirmatory Venous Sample

Blood Lead Level ($\mu\text{g}/\text{dL}$)	Time to Confirmation Testing
≥ 3.5 -9	Within 3 months
10-19	Within 1 month
20-44	Within 2 weeks
≥ 45	Within 48 hours

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CDC Guidelines: Schedule for FollowUp Blood Lead Testing

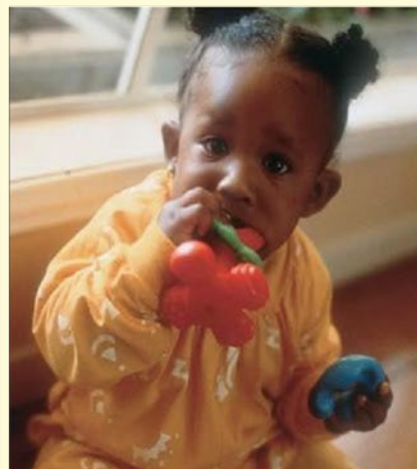
Venous blood lead levels ($\mu\text{g}/\text{dL}$)	Early follow up testing (2-4 tests after initial test above specific venous BLLs)	Later follow up testing after BLL declining
$\geq 3.5-9$	3 months	6-9 months
10-19	1-3 months	3-6 months
20-44	2 weeks-1 month	1-3 months
≥ 45	As soon as possible	As soon as possible

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Our Program

- Team members
- Mission
- Vision
- CDC Grant



Program Services

- Surveillance
- Case management
- Outreach



LOUISIANA
RURAL HEALTH
ASSOCIATION



Testing and Reporting

- State laws govern our program
- Reporting to our program
 - Fax or electronic laboratory reporting (ELR)



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State of Louisiana
Louisiana Department of Health
Office of Public Health

Louisiana Childhood Lead Poisoning Prevention Program (LCLPPP)
Lead Case Reporting Form

Copies of the following form can be used to report lead results. As stated in the Louisiana Childhood Lead Poisoning Prevention Program Rule (LAC 48:V.7001-7007), please provide all of the following information. Please print all information, use separate forms for each patient and fax the completed form to 225-242-0496.

PATIENT INFORMATION

1. LAST NAME: _____ 2. FIRST: _____ 3. MI: _____
4. SSN: _____ 5. MEDICAID NUMBER (if any): _____
6. DATE OF BIRTH: _____ 7. GENDER: _____
8. RACE: _____ 9. ETHNICITY: _____

PARENT'S OR GUARDIAN'S INFORMATION

10. PARENT'S OR GUARDIAN'S FULL NAME: _____
11. MOTHER'S FULL NAME: _____ 12. PHONE NUMBER: _____
13. ADDRESS: _____
14. CITY: _____ 15. STATE: _____ 16. ZIP: _____
17. PARISH/COUNTY: _____

BLOOD LEAD INFORMATION

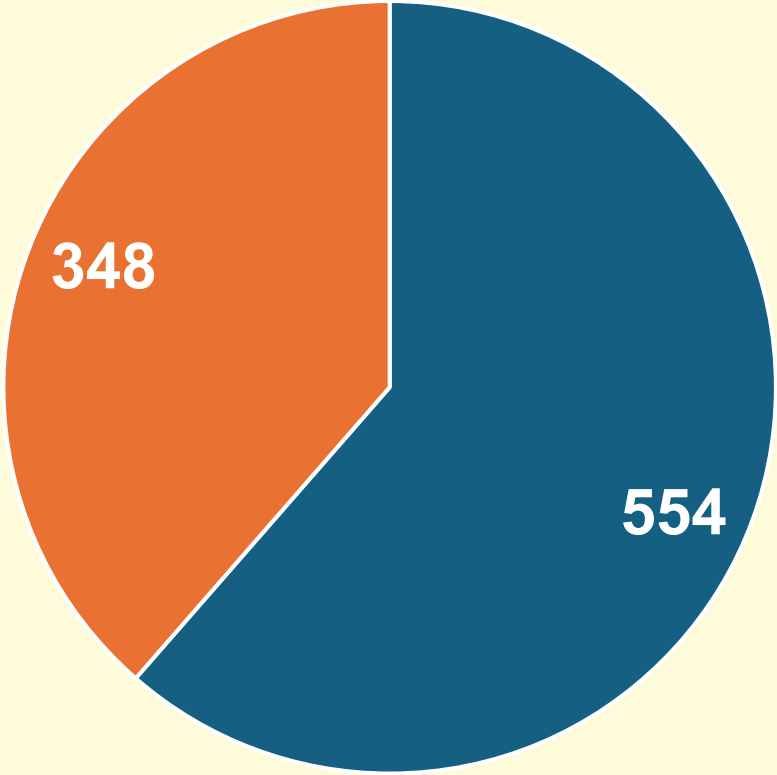
18. BLOOD LEAD RESULT: _____ 19. DATE COLLECTED: _____
20. **CIRCLE ONE:** CAPILLARY VENOUS **CIRCLE ONE:** FIRST ANNUAL REPEAT
21. NEXT SCHEDULED BLOOD LEAD TEST DATE: _____

REPORTING PROVIDER OR LABORATORY INFORMATION

22. PROVIDER/LAB NAME: _____
23. CONTACT PERSON: _____
24. ADDRESS: _____
25. CITY: _____ 26. STATE: _____ 27. ZIP: _____
28. PARISH/COUNTY: _____
29. TELEPHONE: _____ 30. FAX: _____

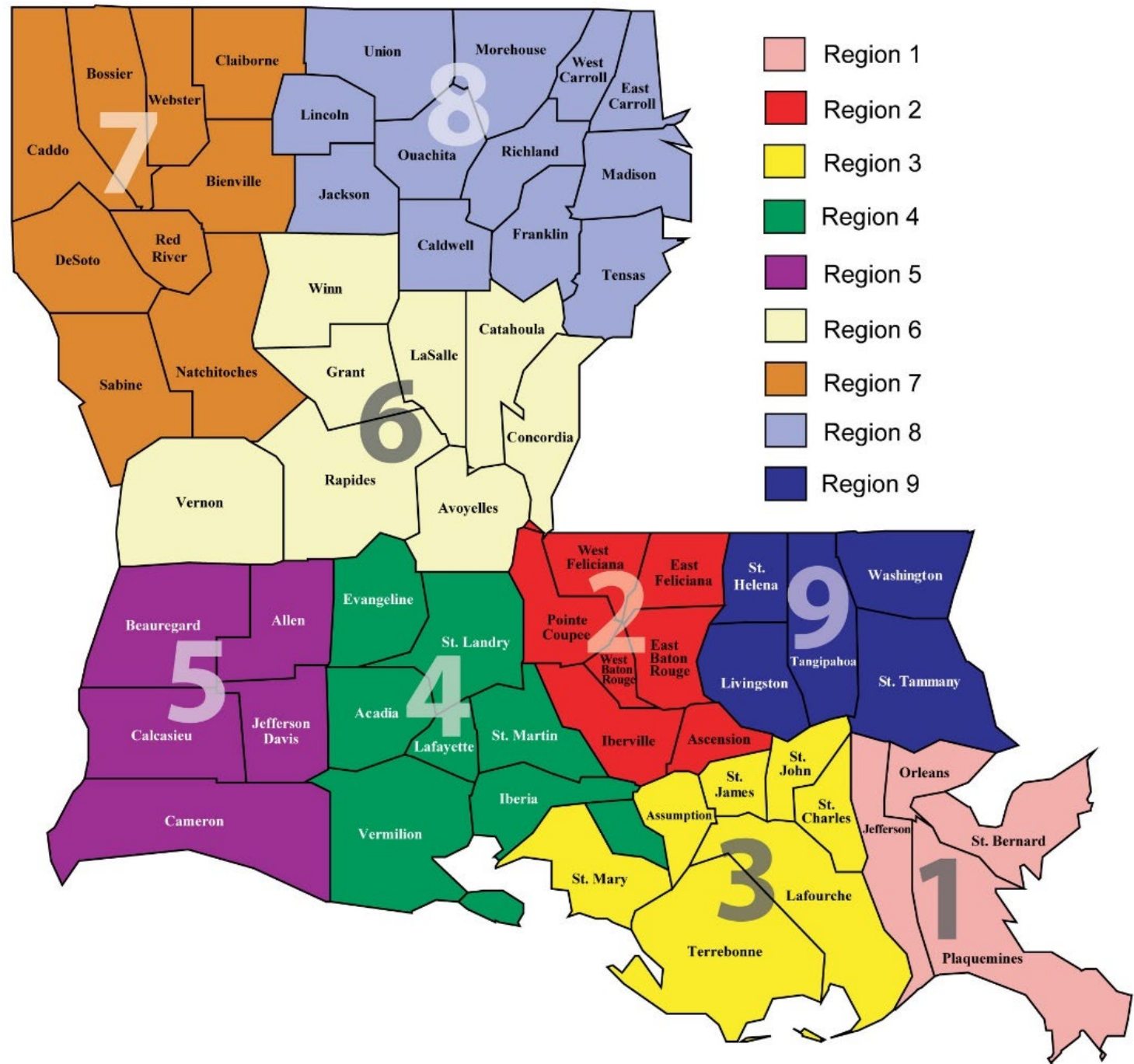
Preliminary Data

Number of Children with Confirmed BLLs at or above BLRV June 2023 – May 2024



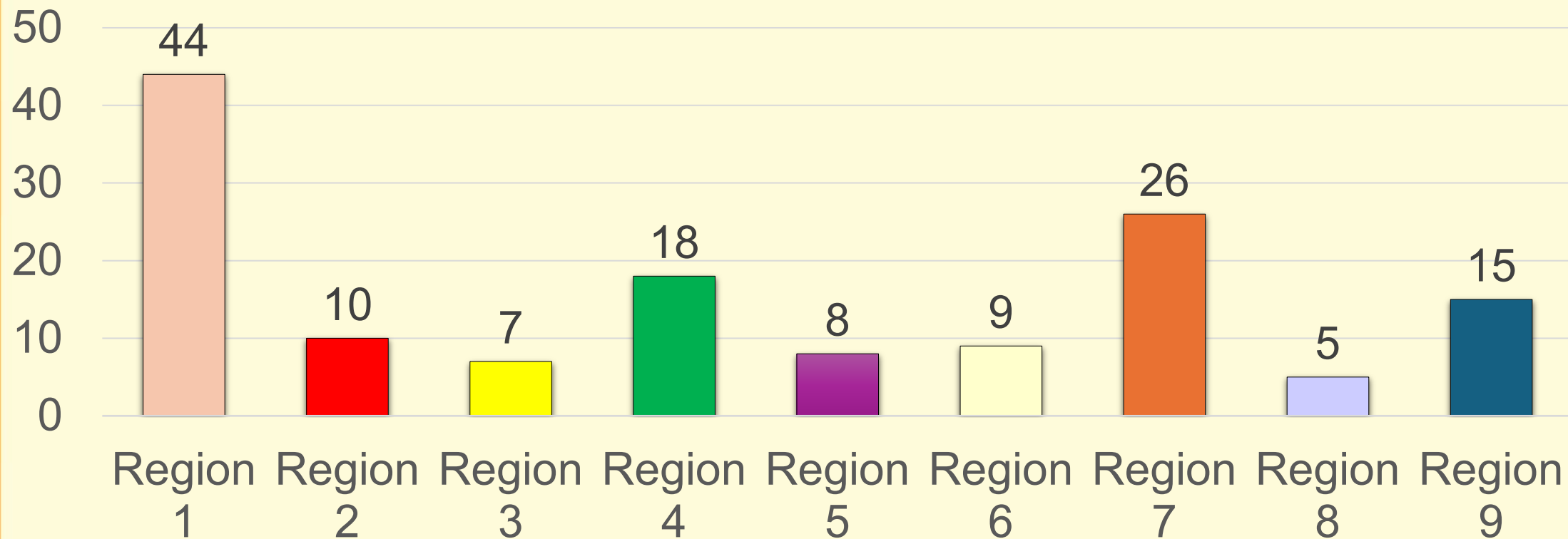
■ eFax ■ ELR

LDH Regions



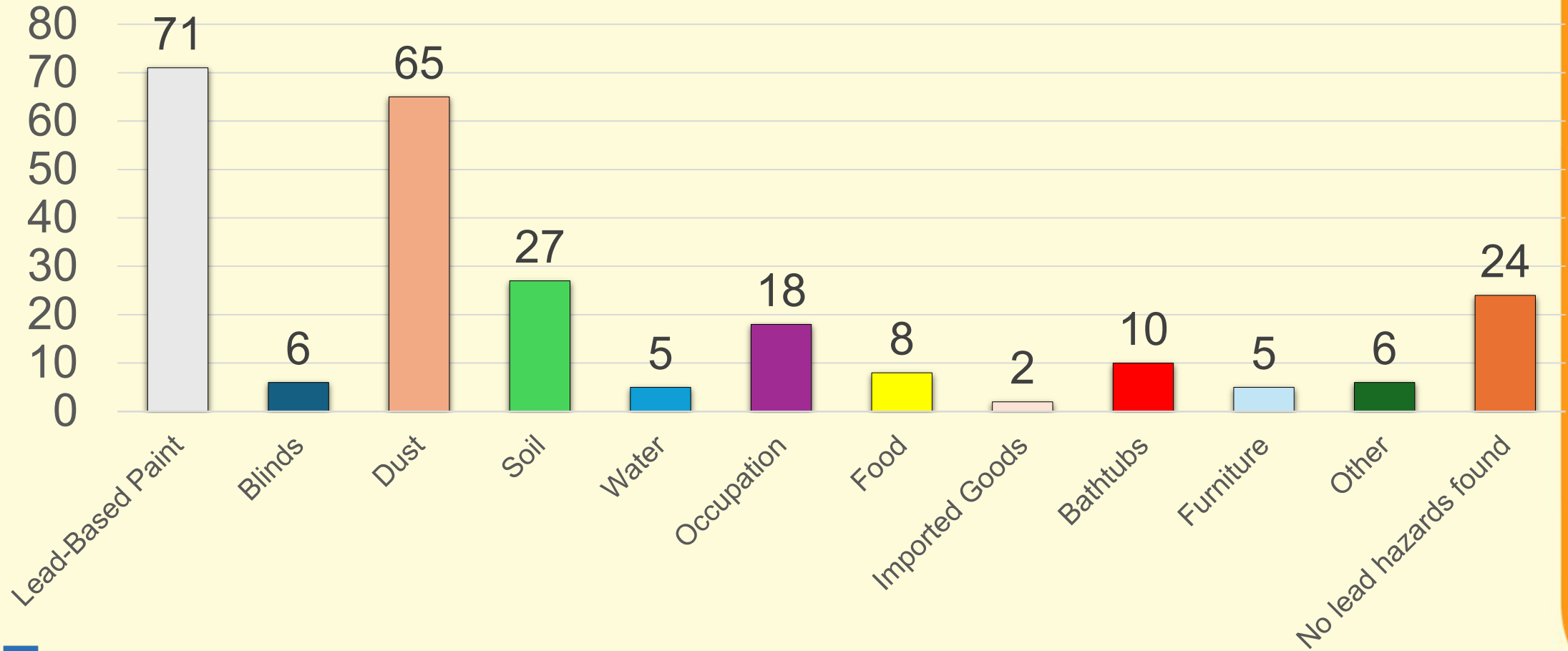
Preliminary Data

Number of Environmental Investigations Completed by Region June 2023 – May 2024



Preliminary Data

Number of Cases by Exposure Source Found in Environmental Investigations June 2023 – May 2024

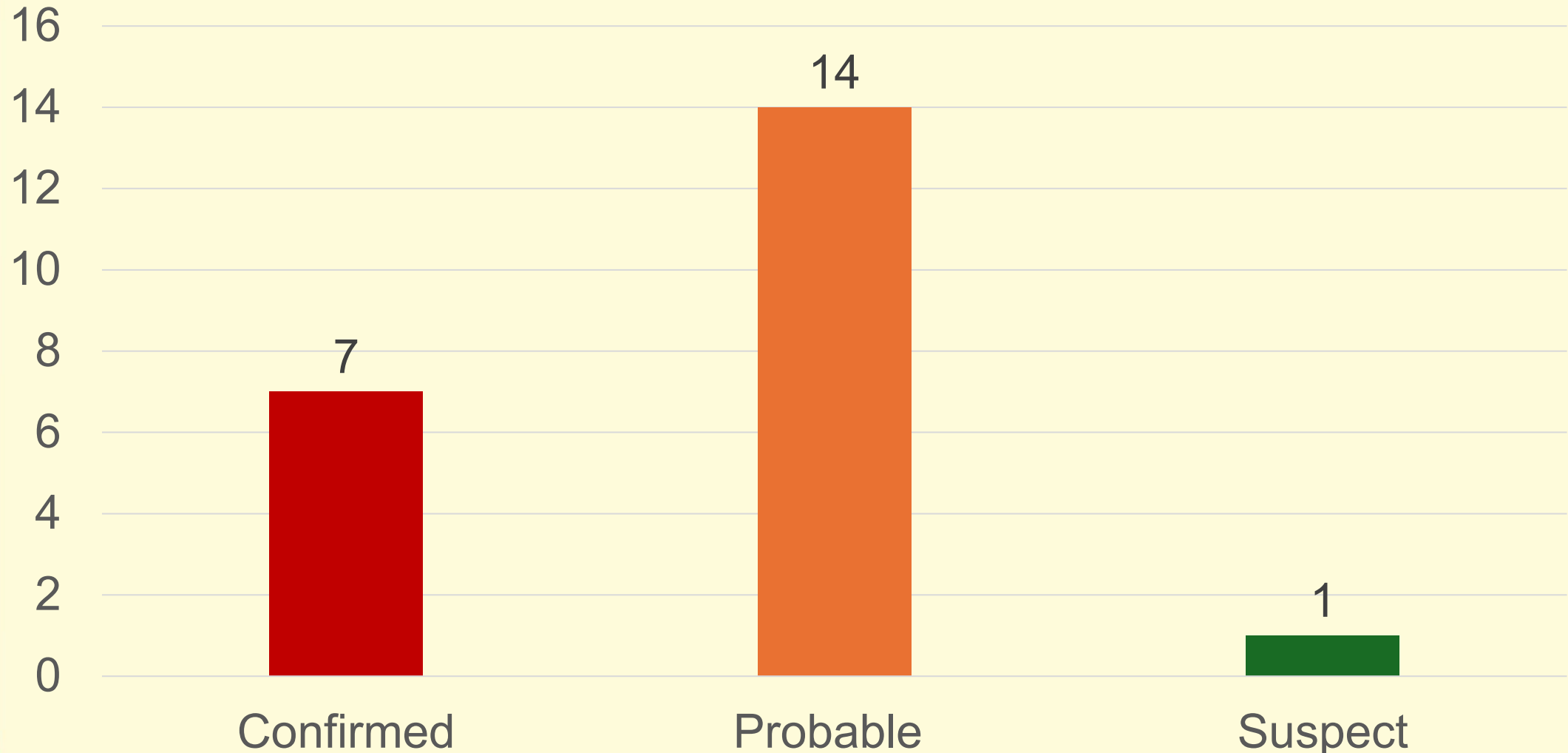


WanaBana Cases

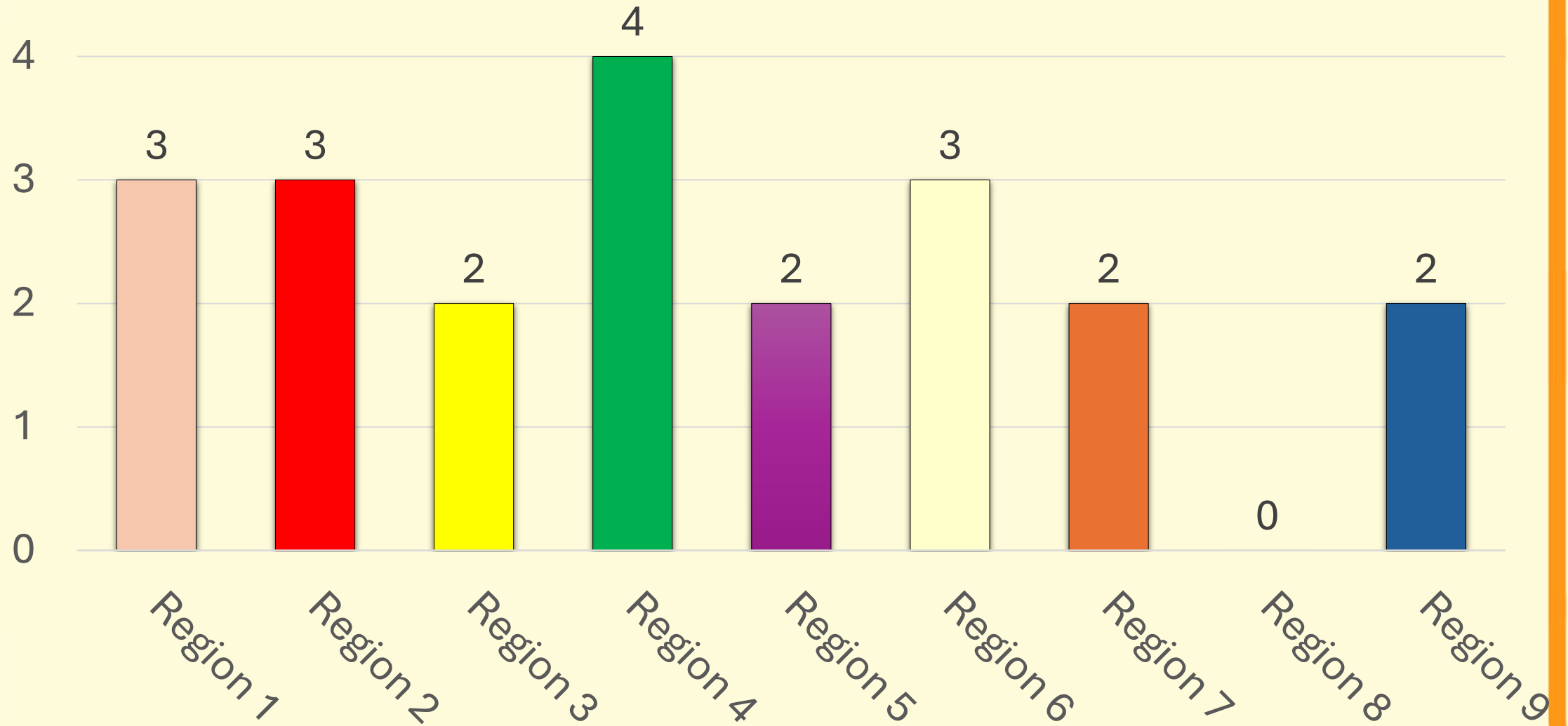
- **Total number of cases:** 22
- **Age range:** 10 months – 2 years
- **BLL range:** 3.7 – 11.5 $\mu\text{g}/\text{dL}$ (venous)



WanaBana Cases by Case Definition



WanaBana Cases by Region



MOC Questions in Slido (3 slides)

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Action Items

- Screening
- Testing
- Reporting



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References

- Agency for Toxic Substances and Disease Registry. (2023, May 24). *Lead (Pb) toxicity: What is the biological fate of lead in the body?* Environmental Health and Medicine Education. https://www.atsdr.cdc.gov/csem/leadtoxicity/biologic_fate.html
- Centers for Disease Control and Prevention. (2006, March 23). *Death of a child after ingestion of a metallic charm --- Minnesota, 2006.* Morbidity and Mortality Weekly Report. <https://www.cdc.gov/mmwr/preview/mmwrhtml/mm55d323a1.htm>
- Centers for Disease Control and Prevention. (2024, April 3). *About lead in soil.* Childhood Lead Poisoning Prevention. <https://www.cdc.gov/lead-prevention/prevention/soil.html>
- Centers for Disease Control and Prevention. (2024, April 10). *About lead in drinking water.* Childhood Lead Poisoning Prevention. <https://www.cdc.gov/lead-prevention/prevention/drinking-water.html>
- Centers for Disease Control and Prevention. (2024, April 10). *Lead exposure symptoms and complications.* Childhood Lead Poisoning Prevention. <https://www.cdc.gov/lead-prevention/symptoms-complications/index.html>
- Centers for Disease Control and Prevention. (2024, April 10). *People at increased risk for childhood lead poisoning.* Childhood Lead Poisoning Prevention. <https://www.cdc.gov/lead-prevention/risk-factors/index.html>
- Centers for Disease Control and Prevention. (2024, April 16). *About lead in consumer products.* Childhood Lead Poisoning Prevention. <https://www.cdc.gov/lead-prevention/prevention/consumer-products.html>
- Centers for Disease Control and Prevention. (2024, April 16). *Testing for lead poisoning in children.* Childhood Lead Poisoning Prevention. <https://www.cdc.gov/lead-prevention/testing/index.html>
- Centers for Disease Control and Prevention. (2024, April 17). *Lead and chromium poisoning outbreak linked to cinnamon applesauce pouches.* Childhood Lead Poisoning Prevention. <https://www.fda.gov/food/outbreaks-foodborne-illness/investigation-elevated-lead-chromium-levels-cinnamon-applesauce-pouches-november-2023>
- Centers for Disease Control and Prevention. (2024, April 17). *Recommended actions based on blood lead level.* Childhood Lead Poisoning Prevention. <https://www.cdc.gov/lead-prevention/hcp/clinical-guidance/index.html>

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References

- Centers for Disease Control and Prevention. (2024, June 13). *About lead in foods, cosmetics, and medicines*. Childhood Lead Poisoning Prevention. <https://www.cdc.gov/lead-prevention/prevention/foods-cosmetics-medicines.html>
- Centers for Disease Control and Prevention. (2024, June 13). *About lead in jobs, hobbies, or other activities*. Childhood Lead Poisoning Prevention. <https://www.cdc.gov/lead-prevention/prevention/jobs-hobbies-activities.html>
- Centers for Disease Control and Prevention. (2024, July 8). *Are you pregnant?* Childhood Lead Poisoning Prevention. <https://www.cdc.gov/lead-prevention/communication-resources/are-you-pregnant.html>
- Department of Public Health. (2024, April 11). *Alert Hemorrhoid Ointment from Vietnam*. <https://www.cdph.ca.gov/Programs/CCDPHP/DEODC/EHIB/Pages/EIS/Alert-Hemorrhoid-Ointment-from-Vietnam.aspx>
- Food and Drug Administration. (2024, June 20). *Investigation of elevated lead & chromium levels: Cinnamon applesauce pouches*. FDA. <https://www.fda.gov/food/outbreaks-foodborne-illness/investigation-elevated-lead-chromium-levels-cinnamon-applesauce-pouches-november-2023>
- Louisiana Administrative Code 48:V.7005, 7007, 7009 (2000 & rev. 2008). <https://www.doa.la.gov/media/52pfpizc/48v2.pdf>
- Louisiana Administrative Code 51:IV.101-111. (2002). <https://ldh.la.gov/assets/oph/Center-PHCH/Center-PH/tuber/LouisianaAdministrativeCodeTitle51PublicHealthSanitaryCodeJan2010.pdf>
- Louisiana Revised Statute 40:1285.1 – 1285.10 (2018). https://www.legis.la.gov/legis/Laws_Toc.aspx?folder=114&title=40
- Organization of Teratology Information Specialists (OTIS). (2023, April 1). *Lead*. Mother to Baby | Fact Sheets - NCBI Bookshelf. <https://www.ncbi.nlm.nih.gov/books/NBK582785/>
- Sample, J. A. (2024, July 1). *UpToDate* (M. M. Burns, S. M. Misra, & Wiley II, Eds.). UpToDate. <https://www.uptodate.com/contents/childhood-lead-poisoning-management?csi=21574c75-709b-4590-b2bc-a5cc4a47cdaf&source=contentShare>

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Contact Information

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FAX: 225-242-0496

EMAIL: Leadinfo@la.gov

ldh.la.gov/lead-poisoning-prevention

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