### Lead Exposure in Cleveland: Enhancing Public Health **CITY CLEVELAND** Communication and Case Management MAYOR JUSTIN M. BIBB Faye Hashim, MPH Candidate

**PUBLIC HEALTH** 

Preceptor: Patrick Cusick, Deputy Commissioner, Cleveland Department of Public Health

## Background

The Cleveland Department of Public Health's Lead Poisoning Prevention Program, under the Division of Environment, aims to improve quality of life by providing education and promoting a healthier city for all residents. The Lead Safe Living Program focuses on equipping families with the knowledge and resources needed to prevent lead exposure.

During my practicum, I assessed gaps in existing health department resources and examined how the evolving needs of target populations—particularly multilingual refugee communities—have shaped outreach efforts. With the increasing reliance on online resources and a rise in elevated blood lead level cases, I developed educational materials for distribution in community centers, ensuring accessibility through basic educational content and Arabic translations. Additionally, I worked on restructuring the Lead Safe Living webpage to enhance usability and provide more relevant information for families seeking support.

## Population

Show proportion of calls that require an interpreter Where dowe pla on putting these handouts Can a 6th grader understand this

# **Learning Objectives**

#### 1. Redesign the Lead Safe Living Webpage

Enhance structure and content to improve accessibility and provide clear information on lead exposure prevention.

#### 2. Develop an Accessible Lead Safe Living Resource

Address literacy and language barriers by creating a user-friendly infographic with FAQs, guidance, and lead exposure mitigation strategies.

#### 3. Case Management for Lead-Exposed Children

Provide support and resources for children under six with elevated blood lead levels (3.5–9.9 µg/dL), ensuring timely follow-up and education for families.

# Activities

- Redesign and Enhancement of the Lead Safe Living Webpage: Updating and reorganizing content with updated information and points of contact.
- Creating an accessible Lead Safe Living infographic tailored for low-literacy and immigrant populations, featuring clear visuals, simple language, FAQs, and guidance on lead exposure risks and prevention.
- Contacting families of children with elevated blood lead levels (EBLL) to conduct comprehensive assessments, identify potential sources of lead exposure, and connecting guardians with relevant community resources for intervention and prevention.

January 2025	April 2025
Total 3.5-<10 Initial	Total 3.5-<10 Initial Non-
Non-Letter Contacted	Contacted
520	
Total of Combined	Total of Combined
Questionnaire	Questionnaire
136	
Percentage completed	Percentage completed
following Non-Letter Contact	following Non-Letter Con
26.20%	

Table 1. Outcomes of Non-Letter Contact for Children with Blood Lead Levels of 3.5–<10 µg/dL in January and April 2025.

Total 3.5-<10 Initial	Total of
Non-Letter Personally	Questio
Contacted	comple
90	
No. Initial Non-Letter	Percent
Contacted requiring an	Contact
interpreter	interpre
17	
No. Initial Non-Letter	Percent
Contacted, non-english	Contact
speakers requiring an Arabic Interpreter	speaker
Interpreter	Arabic I
5	

Table 2. Personal Case Management data and demonstration of frequency in cases requiring subjective linguistic interpretation.



**Compartmentalized Lead Safe Living Resource Guide** 

#### -Letter

488
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139

ontact 28.50%

### Combined

onnaire Personally eted

21

tage Non-Letter cted requiring an eter

19%

tage Non-Letter cted, non-english ers requiring an Interpreter

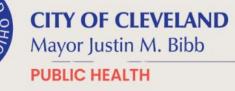
29.40%

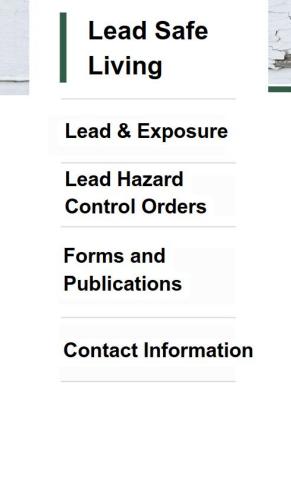












### Updated Lead Safe Living Web Page Design

Through my work with the Cleveland Department of Public Health, I have learned several important lessons:

- effective transfer of knowledge.

# **Public Health Implications**

These deliverables play a crucial role in educating the community by providing information in a clear, accessible format through simplified language and digestible handouts. Including an additional language ensures that more vulnerable individuals have access to important resources. With the growing reliance on online resources, redesigning the Lead Safe Living webpage enhances user experience and facilitates faster access to tools and information, ultimately helping to protect families and prevent elevated blood lead levels among children in Cleveland.



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#### Master of Public Health Program



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#### Lead Safe Living

\_ead poisoning in young children remains a significant public health concern in the City of Cleveland. Children under the age of 6 are especially vulnerable to lead poisoning, which can severely affect their nental and physical development. The City of Cleveland's Lead Poisoning Prevention Program is under the Cleveland Department of Public Health's Division of Environment. The Lead Safe Living Program is charged with improving the quality of life, providing every family with education, and making the city a healthier place to live, work, and play.

The Lead Safe Living Inspection staff investigates Ohio Department of Health cases referred for children under the age of 6 years. old with Elevated Blood Lead Levels. CDPH collaborates with Community Development to assist families with the Lead Hazard Control Grant Program. It is designed to advance efforts to increase lead-safe hous in the City of Cleveland.

### Lessons Learned

1. The importance of tailoring resources to the specific needs of the target population by conducting research and understanding community barriers.

2. The significance of engaging the audience before presenting information. Establishing a connection and ensuring attention is crucial to facilitate the

3. I have improved my skills in utilizing digital tools to enhance user experience, ensuring that online resources are intuitive and provide immediate access to vital information.

### Acknowledgements