

MDHHS - Childhood Lead Poisoning Prevention Program

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MDHHS Presentation Overview

- Lead and its impacts
- About the Michigan Childhood Lead Poisoning Prevention Program
- Current State of Lead Poisoning Prevention
- Recent Recommendations
- Future Directions

What is Lead?

Lead is a heavy metal that was used at high concentrations in products such as gasoline, paints, and plumbing materials resulting in homes with contaminated soil, dust, air and water.

Lead is found everywhere.

Lead exposure is universal but uneven with undue exposure to low income and people of color.



Lead Poisoning Impacts

The CDC has stated that no level of lead exposure in childhood is safe.

Fetal and childhood lead exposure can lower IQ scores, decrease academic achievement; increase problems with behavior and attention; decrease hearing and decrease kidney function.

Lead exposure in pregnancy and early childhood are a particular concern because there is no known treatment that reverses the toxic impacts of lead.

About the Michigan Childhood Lead Poisoning Prevention Program

The **Public Health Code (MCL 333.5474 & 333.2221)** details that Michigan Department of Health and Human Services (MDHHS) shall establish a **lead poisoning prevention program** and shall continually and diligently endeavor to prevent disease, prolong life, and promote the public health through organized programs.

The goal of the MDHHS - Michigan Childhood Lead Poisoning Prevention Program (CLPPP) is to prevent lead exposure to the greatest extent possible, especially exposure to children and fetuses with a focus on equity to vulnerable populations.

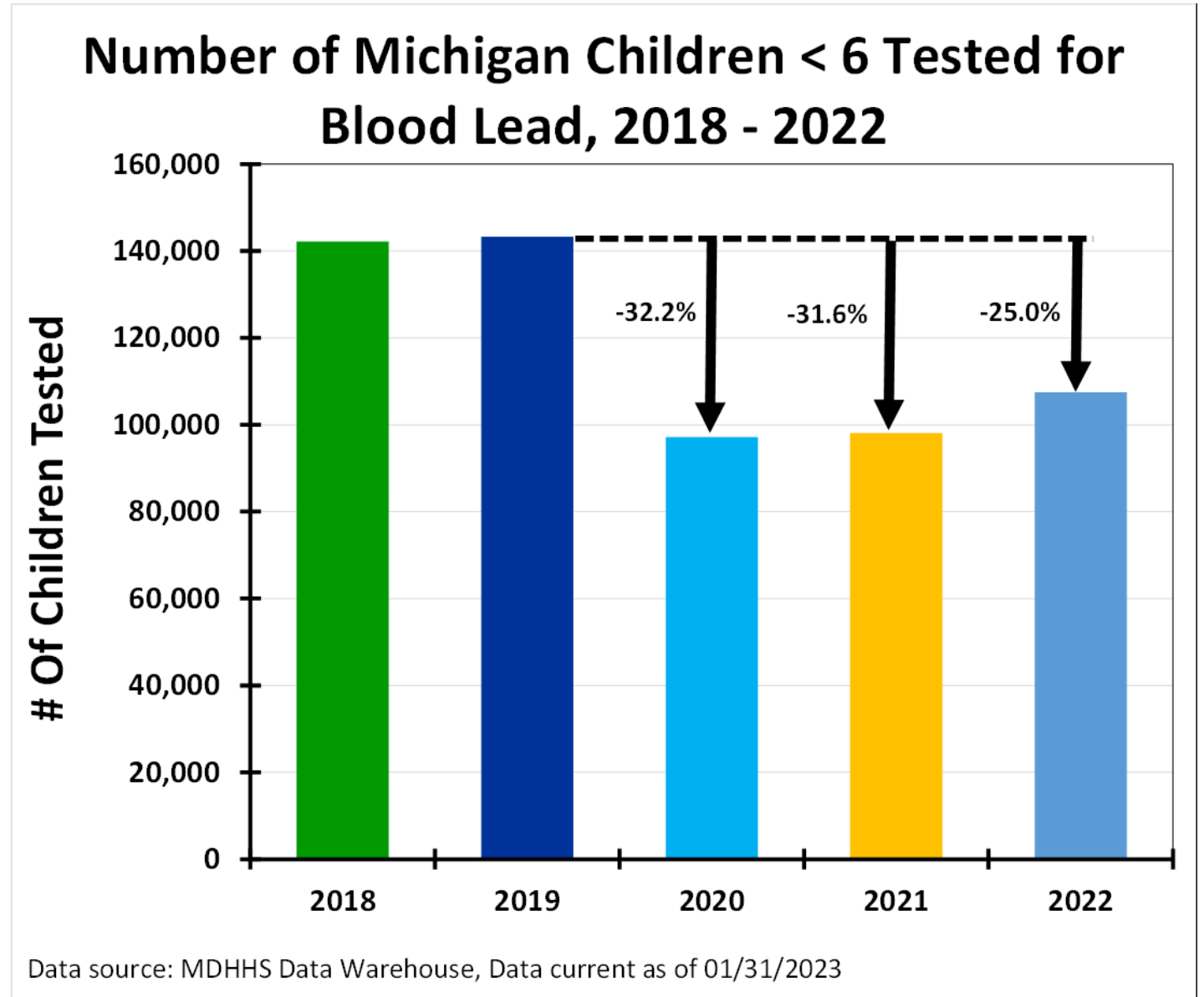
MDHHS uses blood lead test results, education, and environmental health assistance to pursue this goal.

About the Michigan Childhood Lead Poisoning Prevention Program

- **Identify** children and high-risk communities through data collection and blood testing.
- **Investigate** the efficacy of blood lead testing and case management efforts.
- **Intervene** with appropriate primary prevention models to reduce child lead exposure.

Current State of Lead Poisoning Prevention

In 2020, **35% fewer Michigan** children under age 6 were tested compared to 2019, with blood lead testing remaining lower in the past three years resulting in fewer exposed children being identified.



Recent Recommendations

Blood Lead Testing

- Educating primary care providers about the importance of blood lead testing.
- Increase blood lead testing of children.

Data and Surveillance

- Improve the system for managing the surveillance data electronically.
- Analyze and disseminate data on children with elevated blood lead levels.

Case Management

- Ensure appropriate public health case management and interventions statewide.

Community Education

- Inform and educate the general population in order to prevent childhood lead poisoning.

Linking to Environmental Services

- Ensure appropriate interventions when a child is identified with an elevated blood lead level.
- Link lead poisoning prevention services to families in need.

Blood Lead Testing



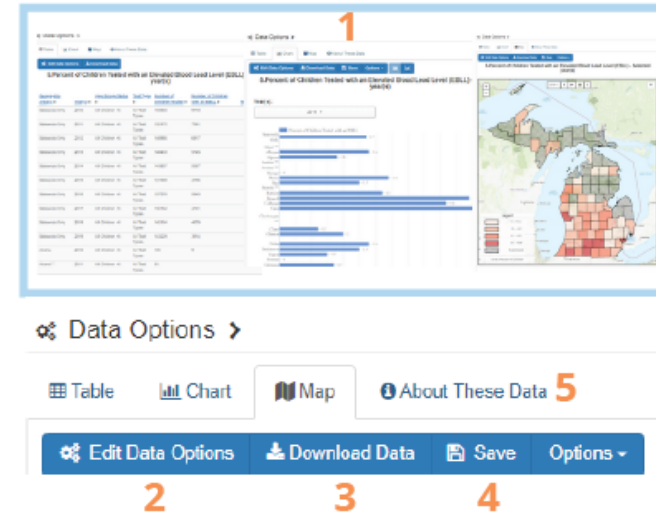
Data Systems and Surveillance



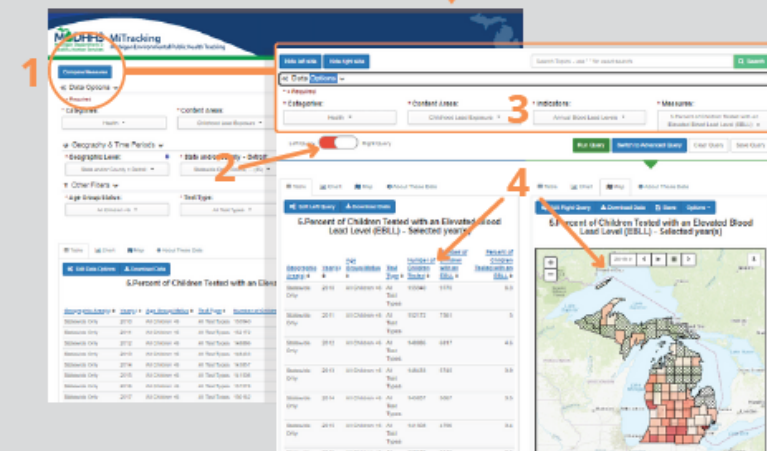
DATA PORTAL

RESULTS

1. Results are shown in interactive Table, Chart, and Map formats.
2. Select Edit Data Options to edit the search.
3. Select Download Data to download data in many formats.
4. Select Save to save charts and maps as an image.
5. Select About These Data for more information about the data.



COMPARE MEASURES



1. Select Compare Measures to compare 2 queries.
2. Use the red and white button to toggle.
3. Run a query with the same or different fields.
4. Compare 2 different results by Table, Chart, or Map.

Child Case Management

MDHHS MICLEAR Case Management

Home Patients Admin Resources

Search Patients

Search Parameters

First Name
 Last Name
 Date of Birth
 Patient ID

Street
 Unit

City
 Zip
 County

Case Status
 LHD
 HHL PSS ID

Result Comparison
 Blood Lead Level
 Blood Lead Level Upper

Specimen Start Date
 Specimen End Date

01/01/2020
 Month/Year Start Date
 Month/Year End Date

Chelation

Patient Search Results

Show 10 entries

Name	Address	Date of Birth	Status	LHD	BLL Test Result	Chelation	Patient ID	HHL PSS ID	Actions
Albright Daniel	4735 Fieldcrest Dr Lansing, MI 48917 Eaton County	09/29/2020				false	65		<input type="button" value="Edit"/>

Home Patients Admin Resources

Patient Info

Patient Name: Daniel Albright
 Date of Birth: 9/29/2020
 Patient ID: 65

/

Edit Patient

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Education and Outreach

Multi-Media Education Campaign



Community Events



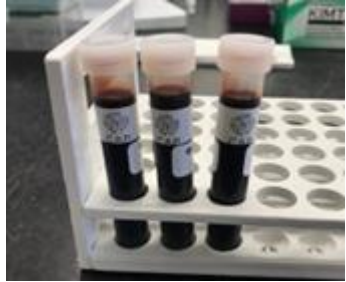
Health Care Provider Education Program



Linking to Environmental Lead Services



Complex Public Health Investigations



Blood



Dust/Soil Wipes



Spices, Teas, Supplements

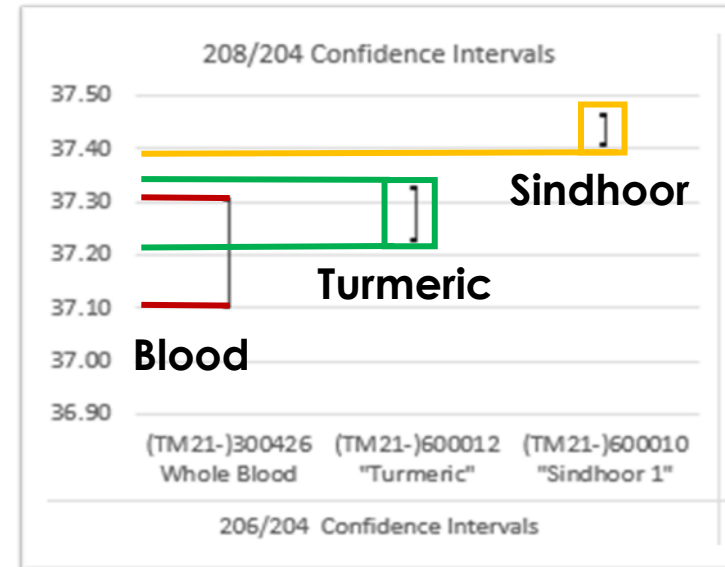
Sample Processing



Sample Analysis



Results Interpretation



Future Directions

In 2021, the CDC updated the Blood Reference Value to 3.5 resulting in MDHHS adopting and fully implementing the new value.

MDHHS led a workgroup of health care professionals and local health departments to identify options for improved blood lead testing.

Amplify the Lead Prevention Fund as a resource for Michigan families to reduce risk for lead exposure.

QUESTIONS & DISCUSSION

MDHHS Contact Information

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