

## **Updates on the Flint Lead Registry**

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Michigan State University and Hurley Children's Hospital Pediatric Public Health Initiative

Presentation to Lead Exposure and Prevention Advisory Committee,
The Centers for Disease Control and Prevention

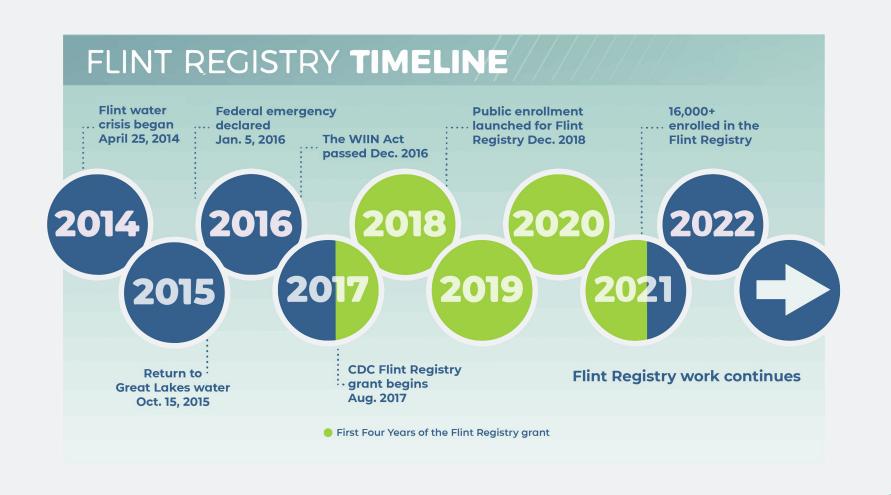
May 12, 2022



### **Agenda**

- Flint Water Crisis & Flint Registry Background
- Flint Registry enrollment
- Flint Registry findings
- Flint Lead Free
- Next steps
- City, state, & national work
- Questions & discussion

## **Background: Flint Water Crisis & Flint Registry**



### Flint Registry Public Health Goals

- Participants will use preventive services.
- Participants will reduce environmental lead exposures where they live, work, and play.
- Participants will experience better health and fewer developmental delays.
- Registry data collection will lead to increased knowledge about the effectiveness of different types of prevention services leading to improved outcomes.
- Registry data collection will lead to increased quality and quantity of data to inform policy and program administration for lead poisoning prevention and elimination.
- Registry data collection will lead to increased knowledge about acute and long-term impacts of lead exposure.



Community Outreach, Marketing, & Recruitment

### **Community Voice**

- Parents Partners
- Flint Youth Justice League
- Community Advisory Board
- Focus Groups
- Pre-enrollment Feedback
- Local Presentations/Events
- Registry Ambassadors
- Director of Community Based Implementation and Engagement
- Local Community Ethics Review Board Approval



### **Outreach and Engagement Partners**

- Arab American Heritage Council
- Blue Cross Complete
- Boys and Girls Club of Greater Flint
- Brennan Senior Center
- Carriage Town Ministries
- Catholic Charities Center for Hope
- Child Care Network
- City of Flint
- Communication Access Center for Deaf and Hard of Hearing
- Crim Fitness Foundation
- Eastside Mission
- Flint and Genesee Literacy Network
- Flint Community Schools
- Flint Neighborhoods United
- Flint Public Library
- Flint Strive

- Genesee Community Health Access Program
- Genesee County Community Action
   Resource Department
- Genesee County Health Department
- Genesee County Medical Society
- Genesee District Libraries
- Genesee Health Plan
- Genesee Health System
- Genesee Intermediate School District
- Greater Holy Temple
- GST Michigan Works
- Hamilton Community Health Network
- HAP
- Hasselbring Senior Center
- Hurley Food FARMacy
- Hurley Hospital
- Kettering University

- LatinX Community Center
- Mass Transportation Authority
- Michigan Department of Health and Human Services
- Michigan State University Extension
- Mott Community College
- National Kidney Foundation of Michigan
- Neighborhood Engagement Hub
- Oak Street Health
- Pediatric Public Health Initiative
- St. Luke's N.E.W. Life Center
- University of Michigan-Flint
- United Way of Genesee County
- Wellness Services
- YMCA
- Youth Quest
- YWCA

### Marketing

- Website and social
- Community driven messaging
- Cultivating trust and awareness through regular communications (newsletters, cards, etc.)
- Collaborating with local organizations and initiatives
- Sharing stories from community and partners
- Inaugural report



### **Every Person** and **Every Story** is Important

Dull by the Fint community and based in Filer, the Filer Registry is for people who were impacted by the Film water crisis and want to be part of something bigger. The Film Registry is a project that connects people to services and programs to promote health and wellness and helps understa how the Film water crisis has affected the Film community.





16,400
PEOPLE ENROLLED
Enroll today and join the thousands already enrolled in the Find Registry!

RRALS RVICES the flint Registry u and your family led to health and

JOBS CREATE
We have a team of 60 peop working to make sure partial are getting connected, suppliand counted!



The Film Registry is a powerful tool to understand, measure, and improve the lives of those exposed to the contaminated water. The more people who participate in the Registry, the more powerful this tool is for Flint and for communities everywhere that continue to suffer from preventable lead exposure.

Mona Hanna-Attisha, M.D. M.P.H.
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 Pediatric Public Health Initiative

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ABOUT SIGN UP RESOURCES THE NUMBERS NEWS CONTACT

### What is the **Flint Registry?**

The Firin Registry is a project that connects people to services and programs to promote health and wellness and helps understand how the Flint water crisis has affected the Firit community. The Flint Registry is for anyone who was exposed to lead-contaminated water in the Clip of Flint because they lived, worked, or attended school or daycare between April 25, 2014, and October 15, 2015, at any address serviced by the Flint water system.

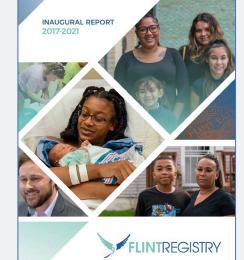
Built by the Rint community and based in Rint, the Rint Registry is for people who were impacted by the Pint water crisis and want to be part of something bugger. The Rint Registry is a resource to support the Rint commanity and the goal is to refer people to services to reduce the impact of lead on their health. The Rint Registry is overing to reach as many people as possible to learn about how the water crisis has impacted their health. Every person and every story is important.

The Registry effort is led by Mona Hanna-Attisha, M.D., M.P.H., director of the MSU-Hurley Children's Hoopital Pediatric Public Health initiative. Planning and implementation of the Finit Registry are being carried out in Colaboration with a broad community-based partnership including leadership form the City of Rint, Greater Finit Health Coalision, educators, clinicians, and stakeholders that some Pilit residents.









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### **Targeted Recruitment**



Children 0-6 years old during the water switch In partnership with HRSA Healthy Start expansion 33%, goal 25%



Children with BLL ≥5 mg/dL during (2014-2019) In partnership with county EBLL program 23%, goal 25%

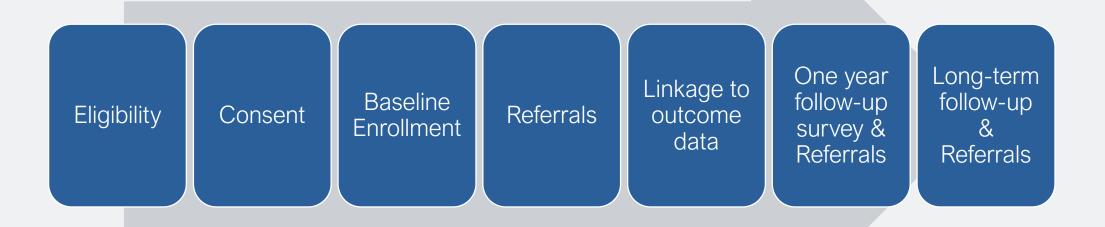


Dangerous service lines (lead or galvanized pipes)
<a href="https://flintpipemap.org">https://flintpipemap.org</a>
14%, goal 25%



Lead in Water Risk Score
In partnership with University of
Iowa, recent HUD grant to
determine historic addressspecific risk

### Flint Registry Survey & Referral Process



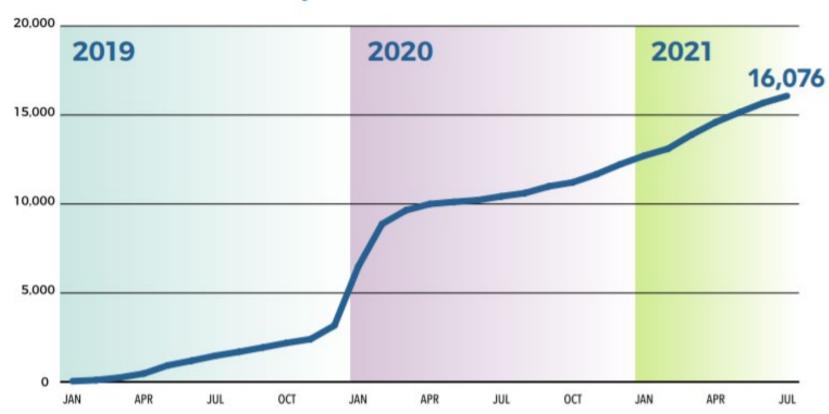
## Numbers



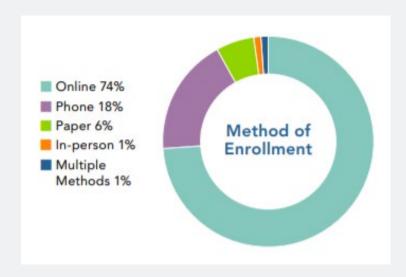
## **Enrollment by Month**

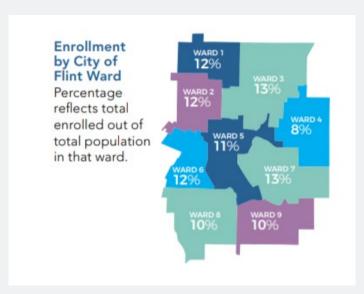
### **Flint Registry Enrollment**

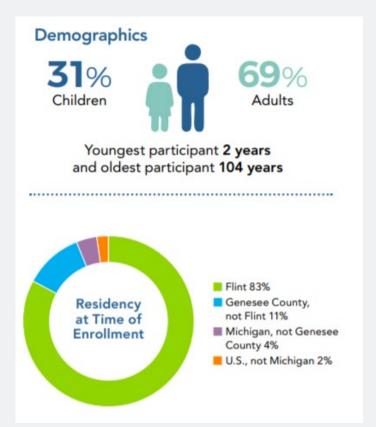
**Cumulative Enrollment by Month** 



### Flint Registry Enrollees







## **Flint** Registry Services by Focus Area



### **LEAD EXPOSURE**

MDHHS - Lead Safe Home Program

City of Flint - Lead Service Line Replacement Program

#### HEALTH

MDHHS - Medicaid/ Medicaid Expansion

GFHC - Genesee Community Health Program (CHAP)

GFHC - Elevated Blood Lead Level Nurse Case Management Program (EBLL)

GHS - Behavioral Health and Stress Counseling, **Family Supports** Coordination

GHP - Genesee Health Plan, Plan B, Senior Dental Services, Health Screening and Support Services for Women

VAAA - Senior Programs, Medicare, **Transportation Services** 

......

**HCHN** - Adult Dental Services

### **CHILD DEVELOPMENT**

GISD/GCCARD - Early Start/Head Start

GISD - Early On .......

GISD - Great Start Readiness Program

..... GISD - Successful Kids = Involved Parents -----

MDHHS - Child **Development Care** Program \*

Flint Public Library -Imagination Library 

Reverence Home Health and Hospice/HMC -Maternal Infant health Program 

GHS - Neurodevelopment Center for Excellence .....

Mott Children's Health Center - Child and Adolescent Dentistry

#### NUTRITION

FFN - Double Up Food Bucks

GCCARD -

**Emergency Food** Assistance Program & Commodities Food Program

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GCHD - Women, Infant & Children

MDHHS - Supplemental **Nutrition Assistance** Program







VISIT WWW.FLINTREGISTRY.ORG TO GET STARTED TODAY 🌖 🕑 🐵

## **Enrollment: Referral Numbers Per Domain**

Total: 23,870

Lead Elimination: 7,796

Health: 6,520

Nutrition: 6,160

Child Development: 3,394

67%
Participants
receive at least
1 referral

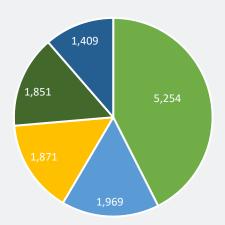
Average 2 referrals per participant

## Baseline Enrollment: Referral Numbers Adult vs. Child

**Total Referrals: 23,870** 

Adult: 16,846

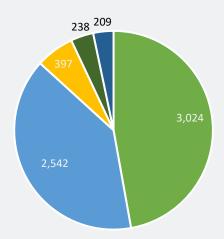
**Top Adult Services** 



- FAST Start (City of Flint)
- Genesee Health System Access Center (GHS)
- Supplemental Nutrition Assistance Program (GFHC MI-Bridges Navigator)
- The Emergency Food Assistance Program (GCCARD)
- Double Up Food Bucks (Fair Food Network)

Child: 7,024

Top Child Services



- Neurodevelopmental Center of Excellence (Genesee Health System)
- Lead Safe Home (GHS)
- Medicaid Expansion (GFHC MI-Bridges Navigator)
- Community Health Access Program- Elevated Blood Lead Level (GFHC)
- Child Dental (Mott's Health)

### **Adult Health**

### **Physical Health**

In general, how would you describe your physical health?

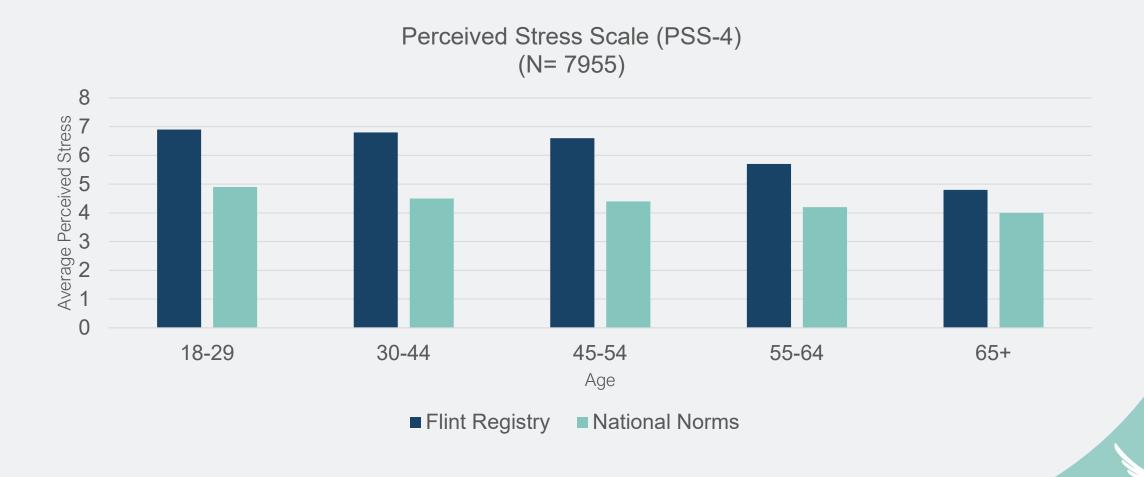


### **Mental Health**

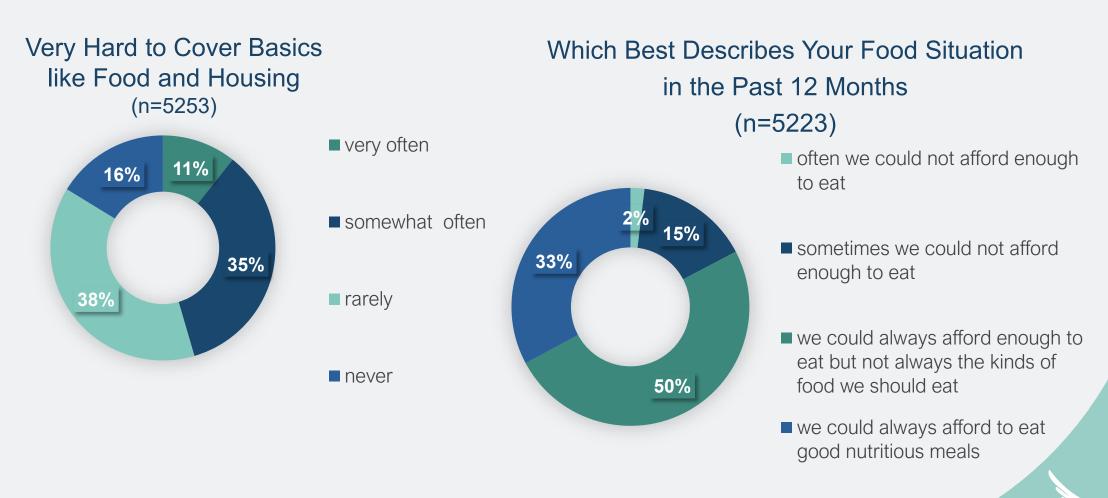
In general, how would you rate your mental health, including your mood and your ability to think?



### **Adult Perceived Stress**



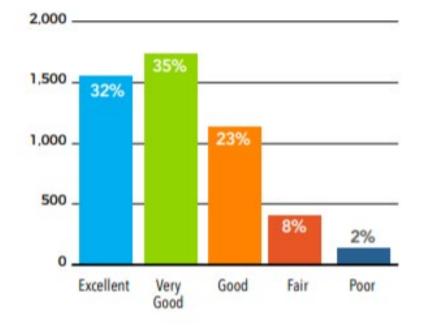
### **Child and Family Financial Security**



### **Child Health**

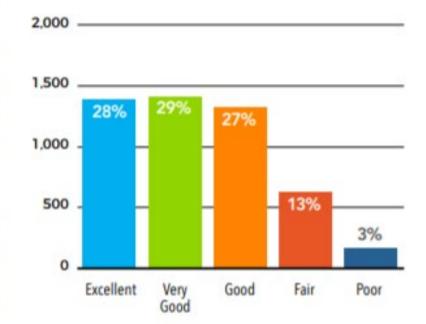
### **Physical Health**

In general, how would you describe your child's physical health?

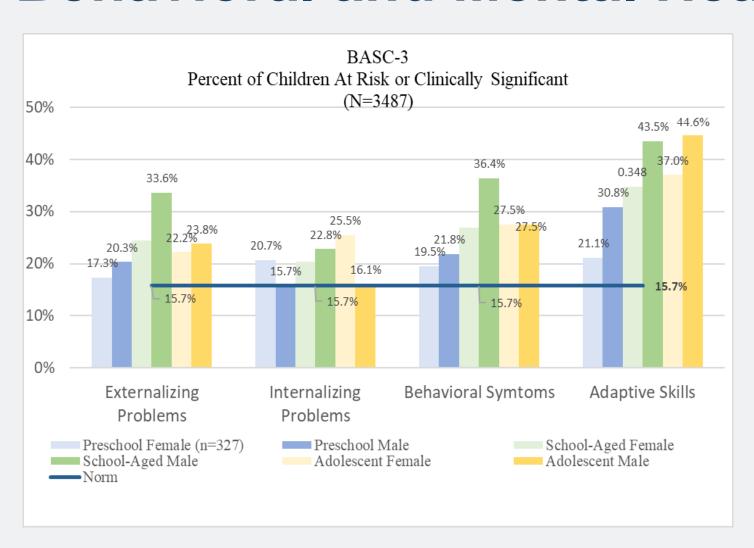


### Mental Health

In general, how would you say your child's mental health is?



### **Child Behavioral and Mental Health**



## Flint Lead Free

## 2021 Report

Report available at:
 <u>https://www.flintregistry.org/wp-content/uploads/2021/02/Flint-Lead-Free-Report-2021v2-.pdf</u>

"...lead prevention activities
will generate \$53.3 million
dollars in future economic
benefits for children when
considering the number of pipes
replaced and homes abated."



## **Next Steps**



Continued targeted recruitment of high- risk groups



Surveillance and Cohort maintenance



Ongoing data evaluation & dissemination to inform policy & practice

### Registry Infrastructure

- Leveraged for research studies:
  - Seronet Reducing COVID-19 disparities
  - Flint Tooth FAIRY (Flint Assessment of In-utero and at-Risk Young)
- Additional resource connection
  - EITC connection for children with ACEs (HHS?)
- COVID-19 pandemic response
  - Nutrition, trauma informed care, medical home, child enrichments, etc



### Other Updates... Flint ripples

Flint pipe replacement

Flint water crisis accountability and justice

Flint Medicaid Waiver renewal

CMS CHIP/SPA Lead Safe Home Program

Michigan Child Lead Exposure and Elimination Commission

Michigan Lead and Copper Rule

EPA Lead and Copper Rule Revisions

National Infrastructure Investment & Jobs Act

Resource for other communities

## **Contact Information**

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# Questions & Discussion