

Connecting Children Across Pathways (CCAP)

*Upstream Interventions to Improve
Childhood Development*

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MetroHealth Population Health Research Institute Seminar
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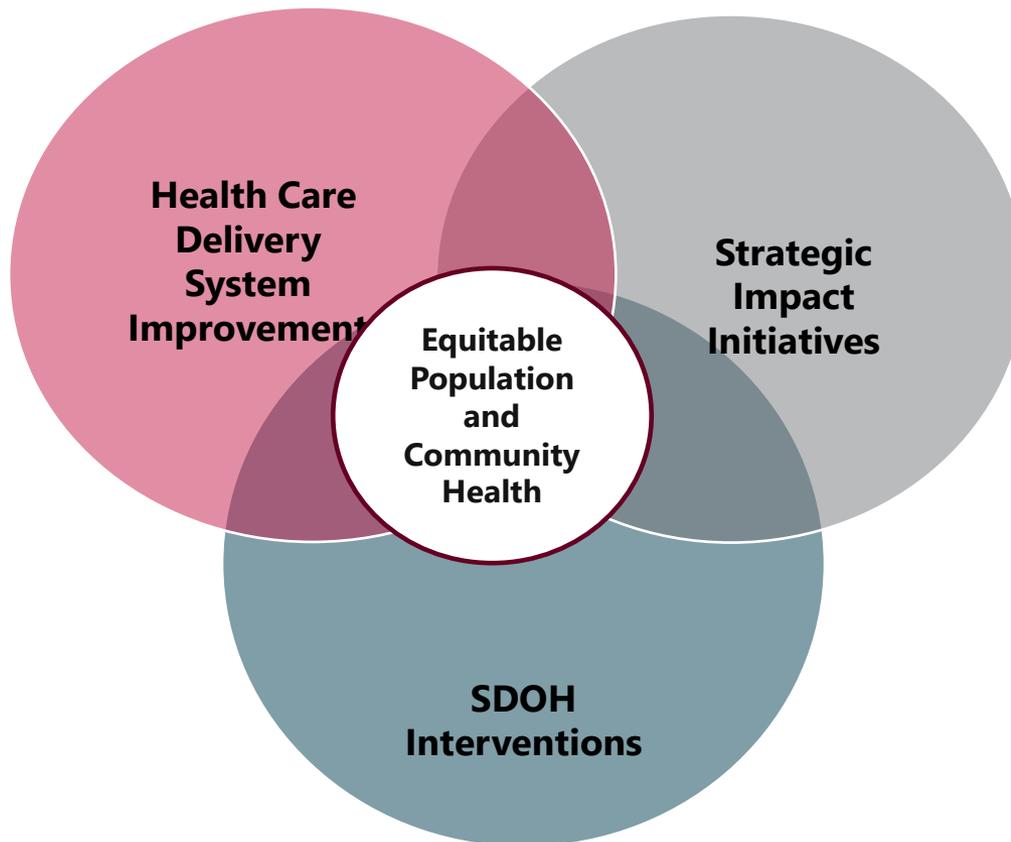
Better Health Partnership: Who we are

- Only non-profit, multi-stakeholder, regional health improvement collaborative in Northeast Ohio
- Members: Providers, Health Systems, Employers, Payers, Government, Consumers
- Bring health care providers and other stakeholders together to share best practices and accelerate data-informed improvements in equitable population and community health.

Key Approaches to Mission Achievement

Enabled by data-informed collaboration, quality improvement, and best practice sharing

18 participating health systems in NEO



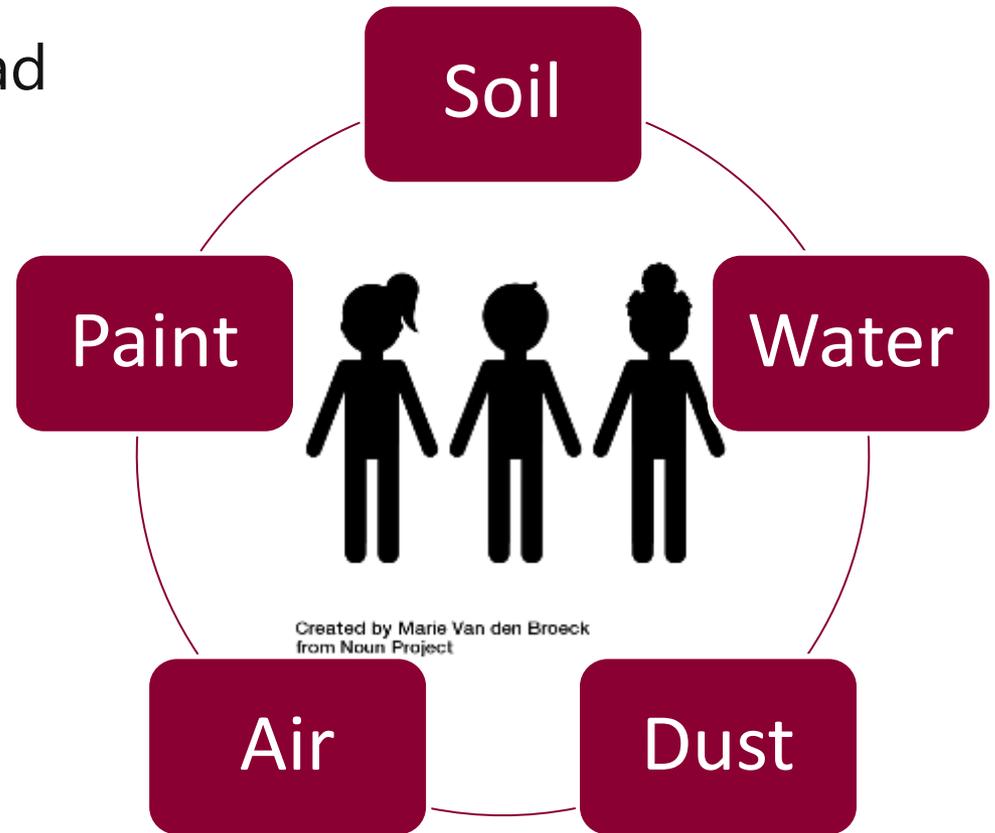
Cross-sector partners and initiatives

Pathways Community HUB
Clinic to Community Linkage UW 2-1-1

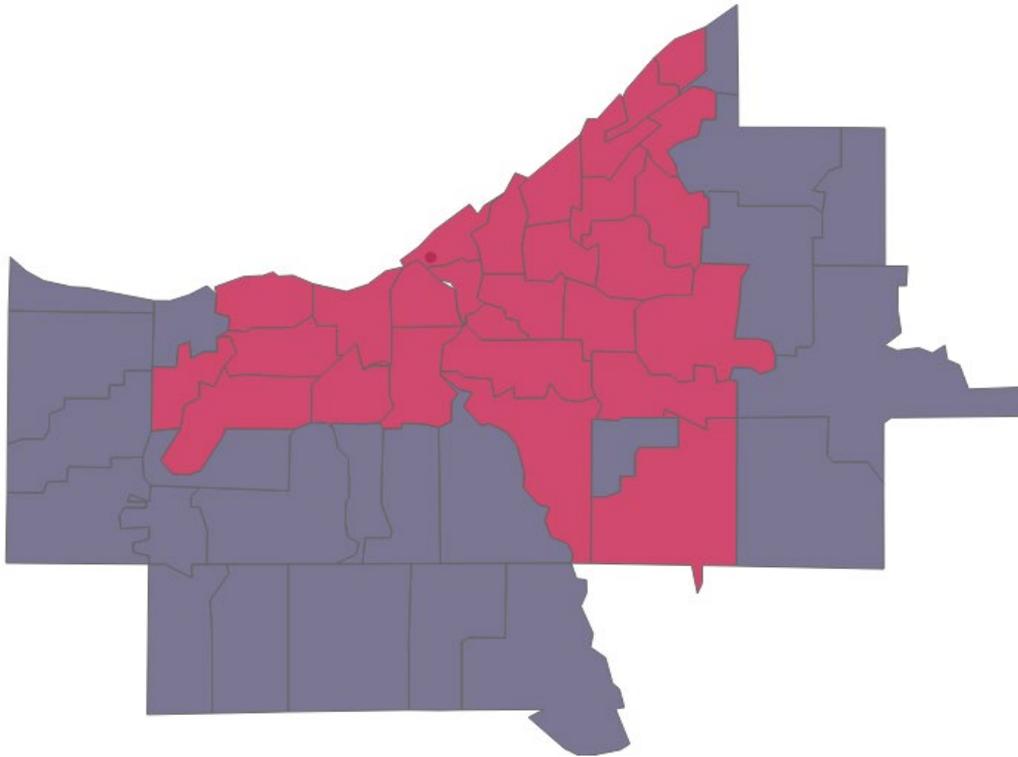
Lead Exposure

Even small amounts of lead exposure can cause:

- Lower IQ
- Decreased inhibition control
- Hearing and speech problems



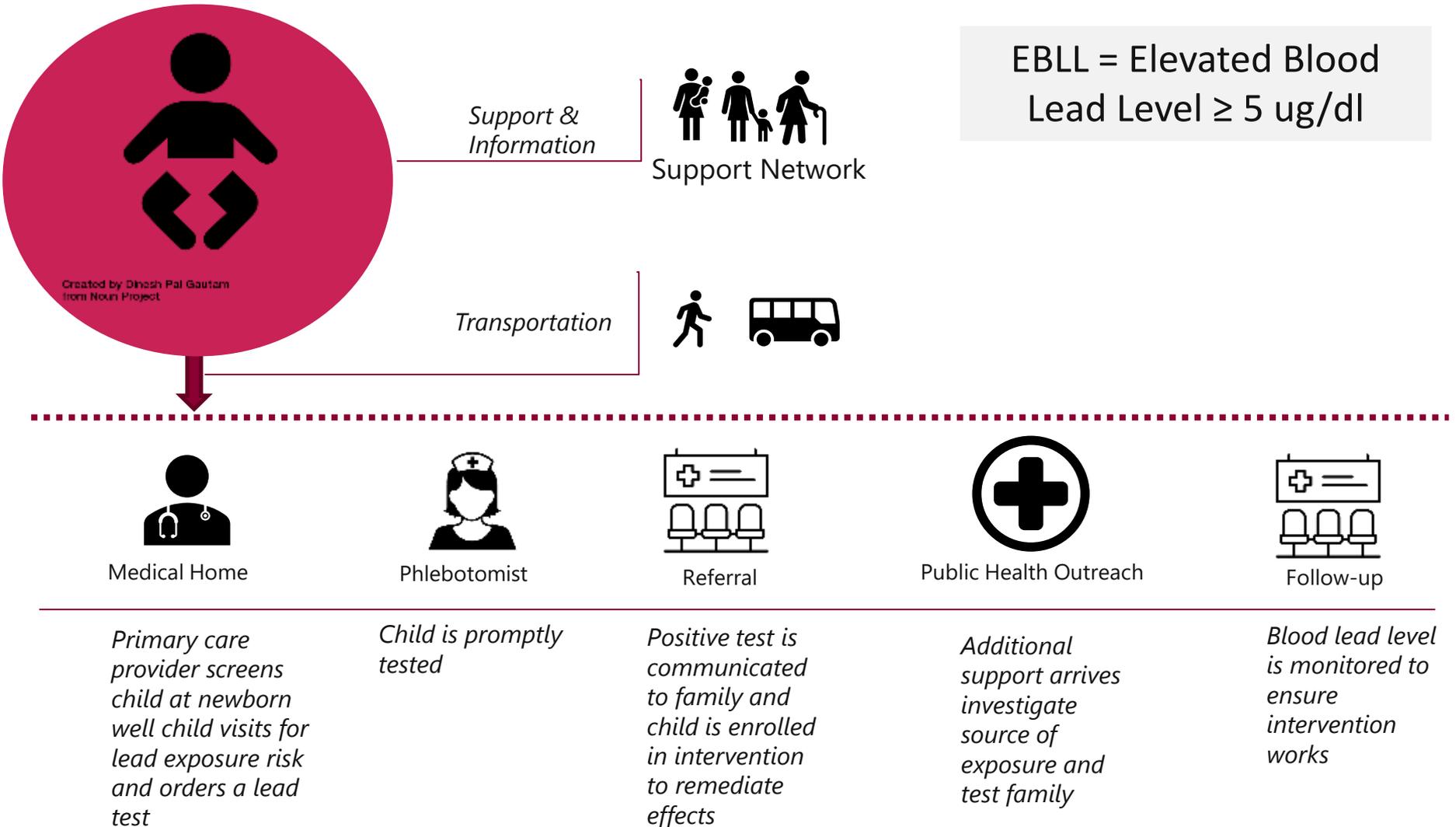
Mandated Lead Testing in Cuyahoga County



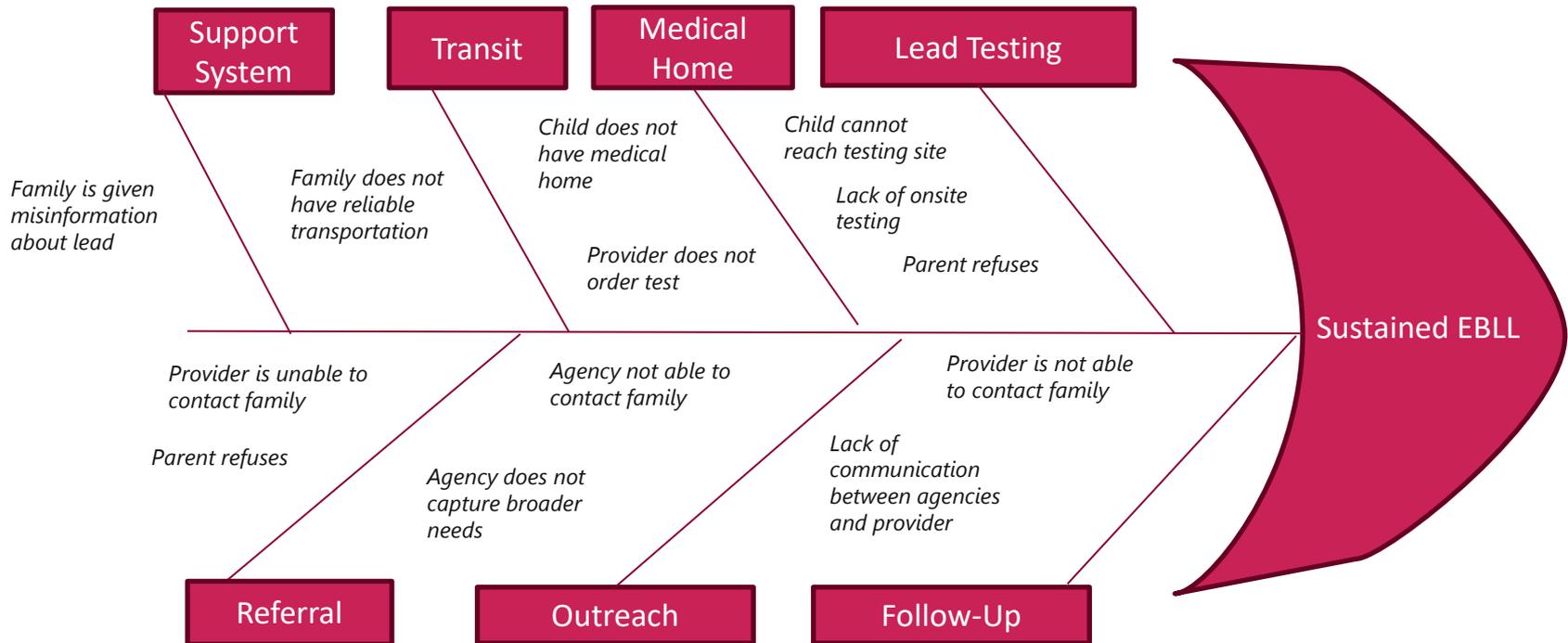
Children living in **high-risk zip codes** or on Medicaid are required to be tested at ages 1 & 2



An Exposed Child's Journey to Recovery



Breakdown in the Lead Remediation System



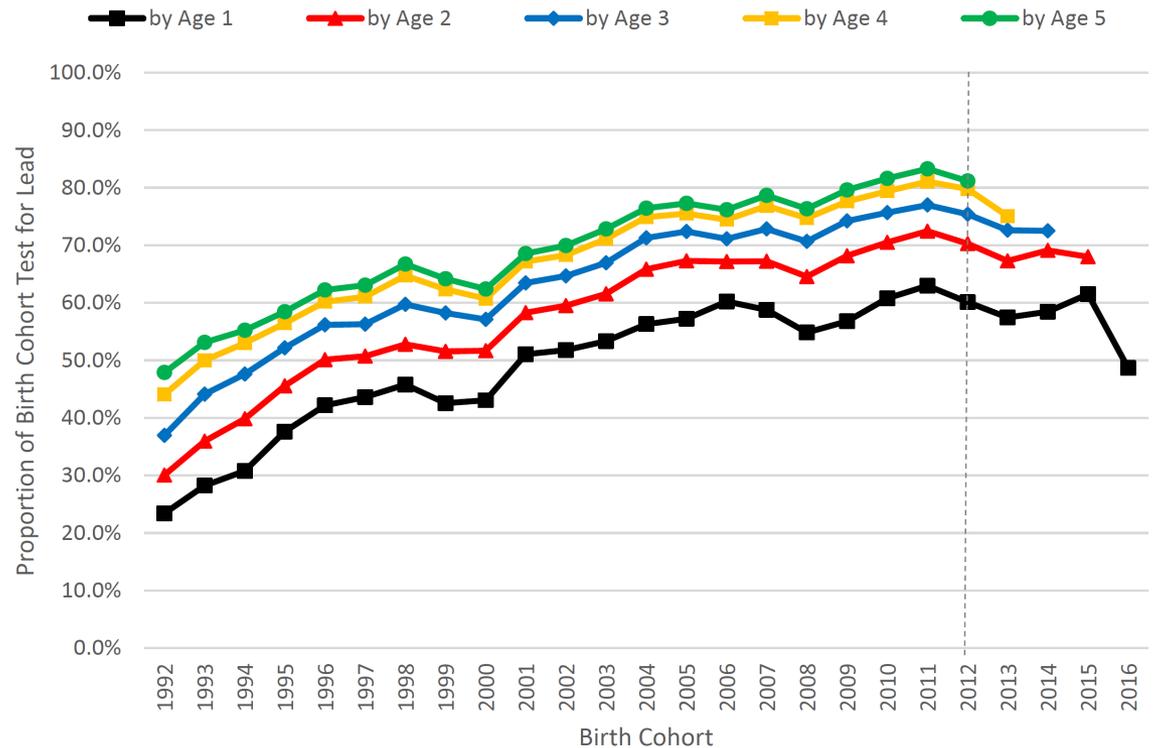
Evidence of a Flawed System

Lead Testing Rates by Age and Cohort, Cuyahoga County

50% not tested by age 1

65% not tested both at 1 & 2

20% not tested by Kindergarten



Source: Anthony et al 2019

Treatment & Prevention Consequences

A subset of exposed children never receive necessary interventions leading to long-term delays in cognitive, emotional, and behavioral development

Poor follow up

- Child not tested means hazard continues unabated – effecting siblings and future residents

Poor data

- Maps reflect **testing** – not necessarily **risk**

Connecting Children Across Pathways (CCAP)

Goal: Improve developmental trajectories of children in Cuyahoga County by

- connecting more children to lead testing
- connecting more children with EBLL to developmental services

Connecting Children Across Pathways (CCAP)

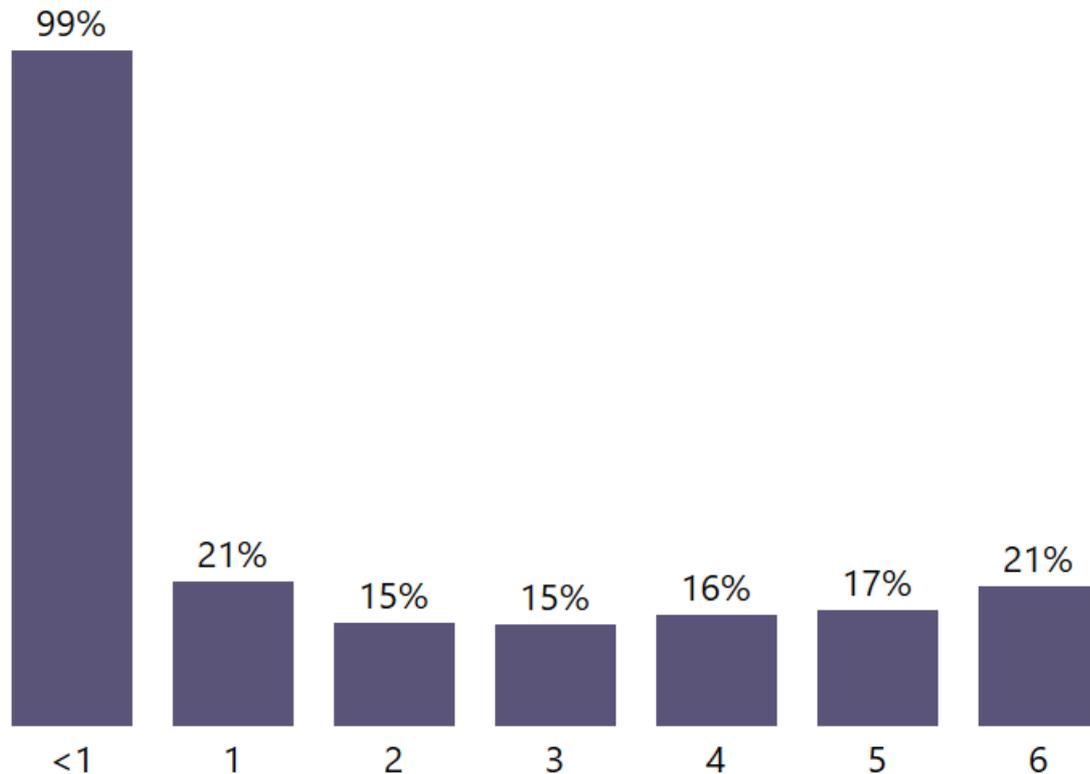
1. Collect lead metrics across county health systems and implement clinical QI
2. Enroll children in need of lead tests in the Pathways HUB. Connect those with EBLL to early intervention services
3. Identify other social needs. Refer to relevant services and provide support along the process to ensure completion



Preliminary Data:
Do not quote or cite

Lead Orders

% of High-Risk Children Without Lead Orders



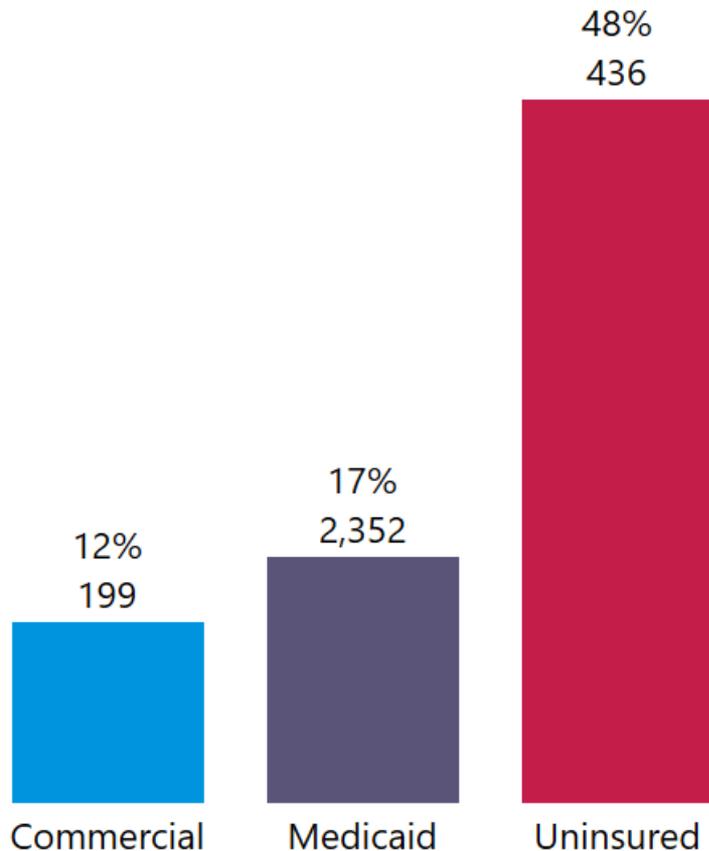
18% (n=2,987)
children 1-6 at high
risk for lead
exposure did not
have a lead order

A child at high-risk
was 1.08x more
likely to have
received an order

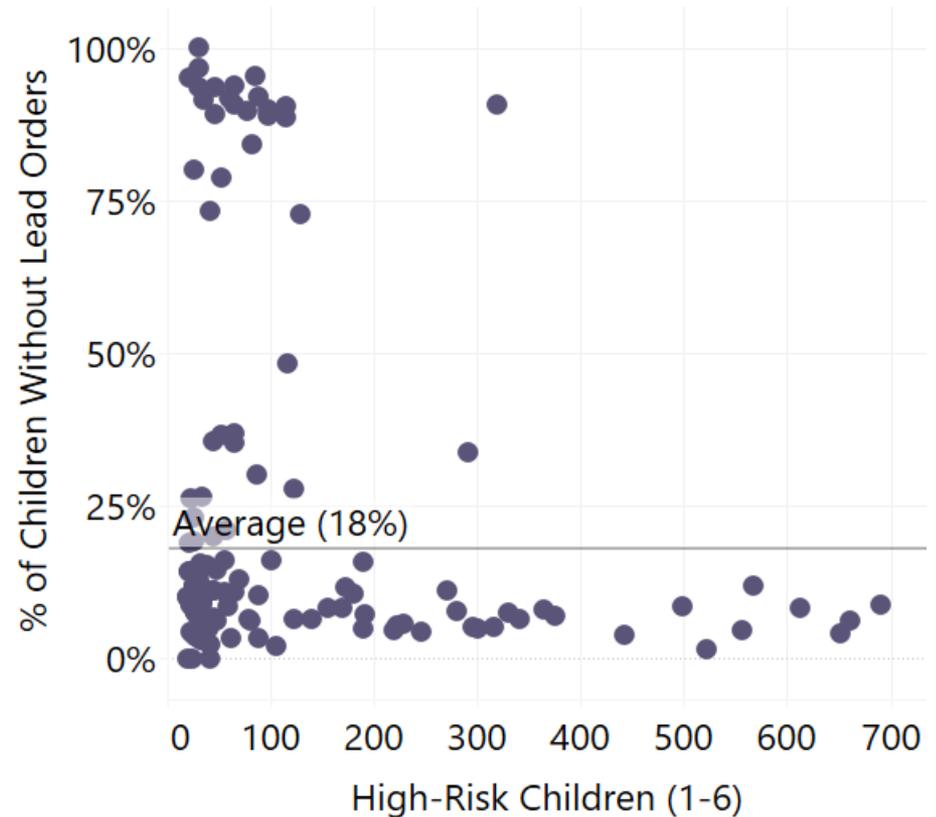
All data comes from July 1st 2019 – June 30th 2020

% of High-Risk Children Without Lead Orders

By Child's Insurance



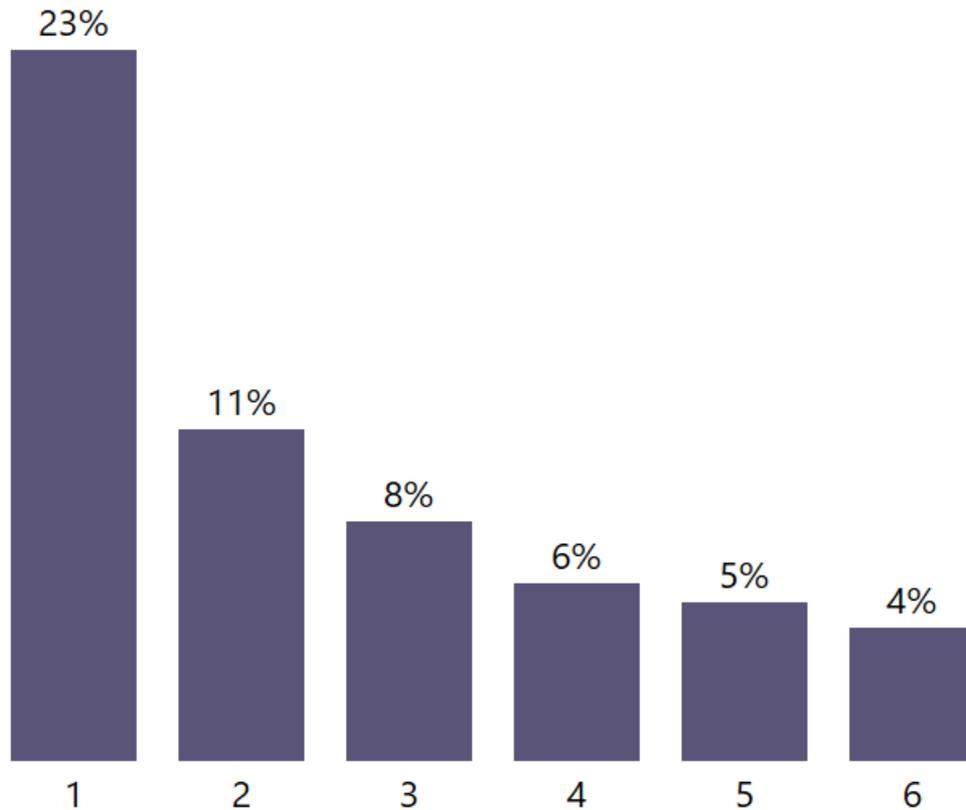
By Provider



Preliminary Data:
Do not quote or cite

Missing Lead Tests

% of Children With Order Missing Lead Test



11% (n=1,727) children 1-6 with a lead order have no lead test result

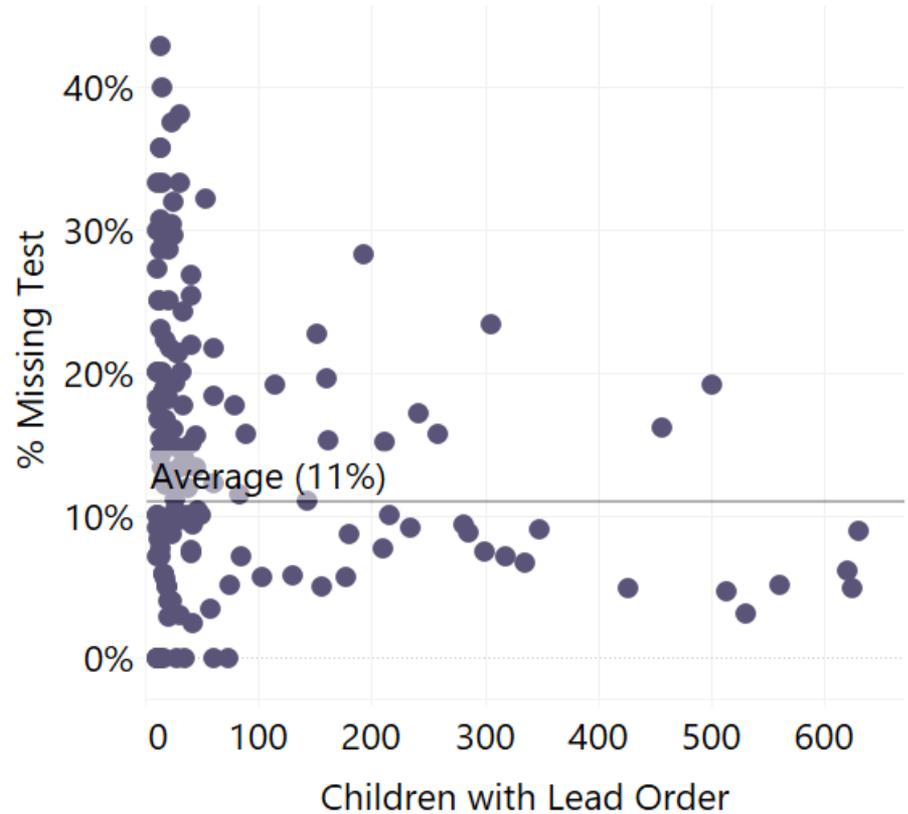
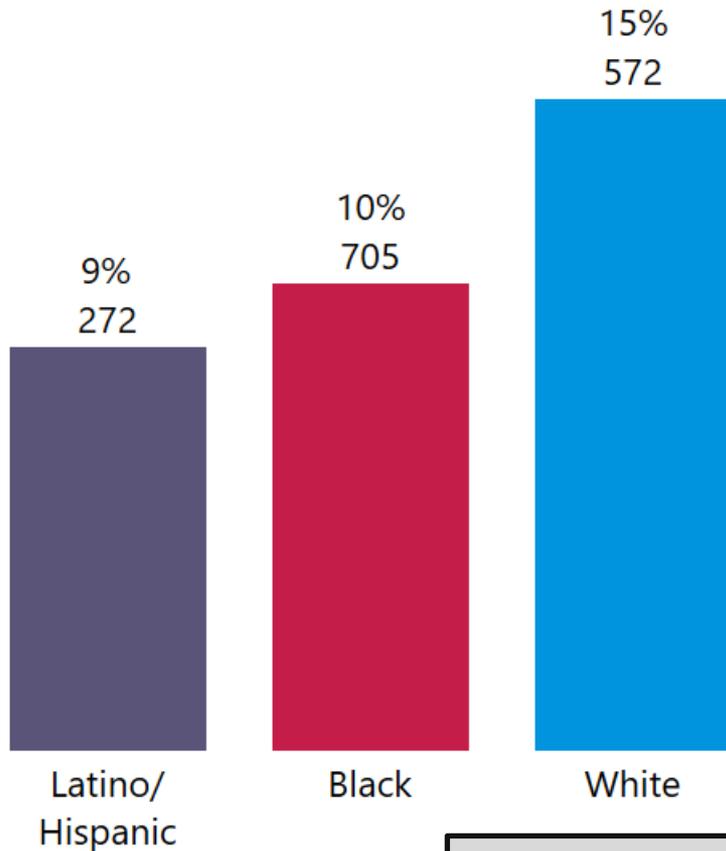
A child that is high-risk was 1.08x more likely to have received a test

Preliminary Data:
Do not quote or cite

% of Children with Orders Missing Lead Test

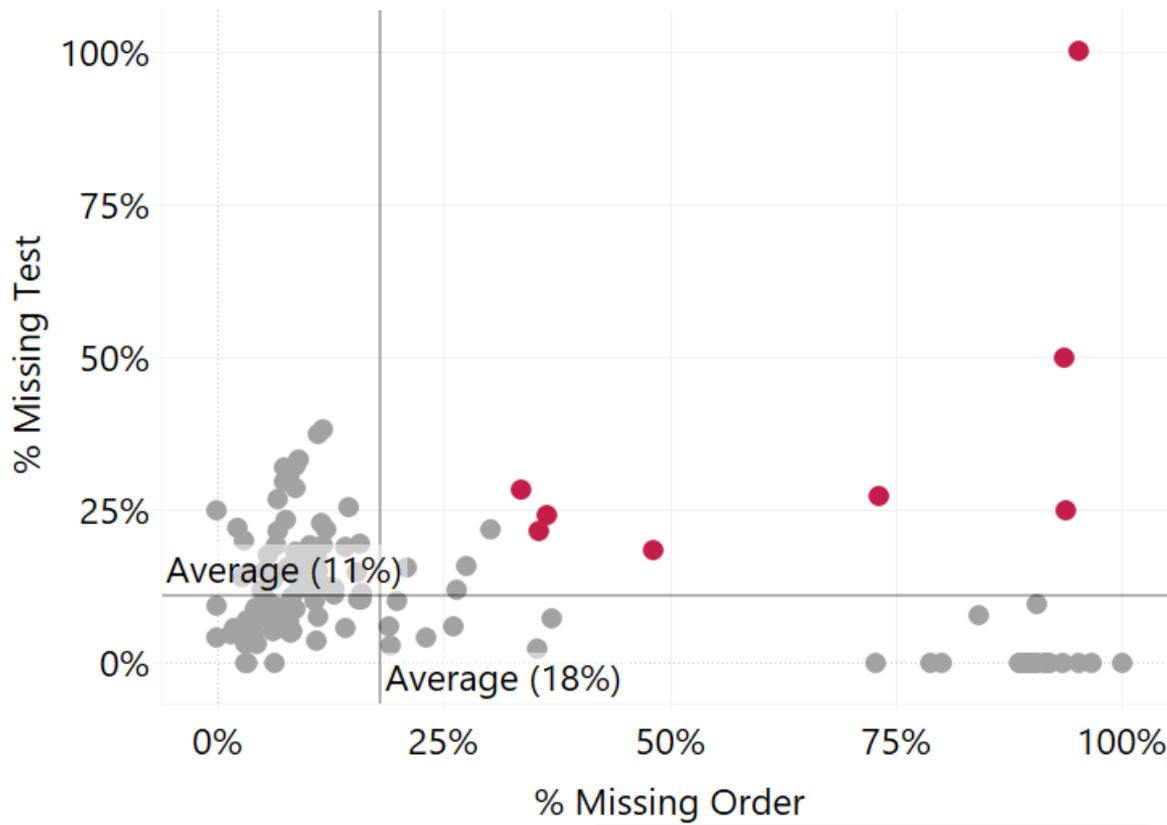
By Child's Race/Ethnicity

By Provider



Preliminary Data:
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% of Children Missing Lead Orders and Lead Tests by Provider

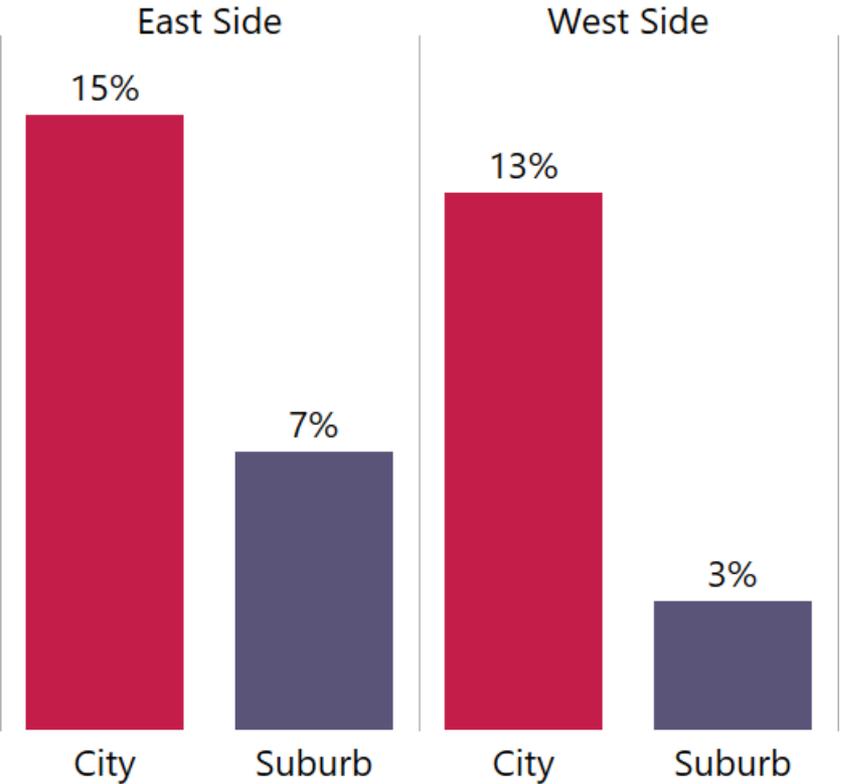
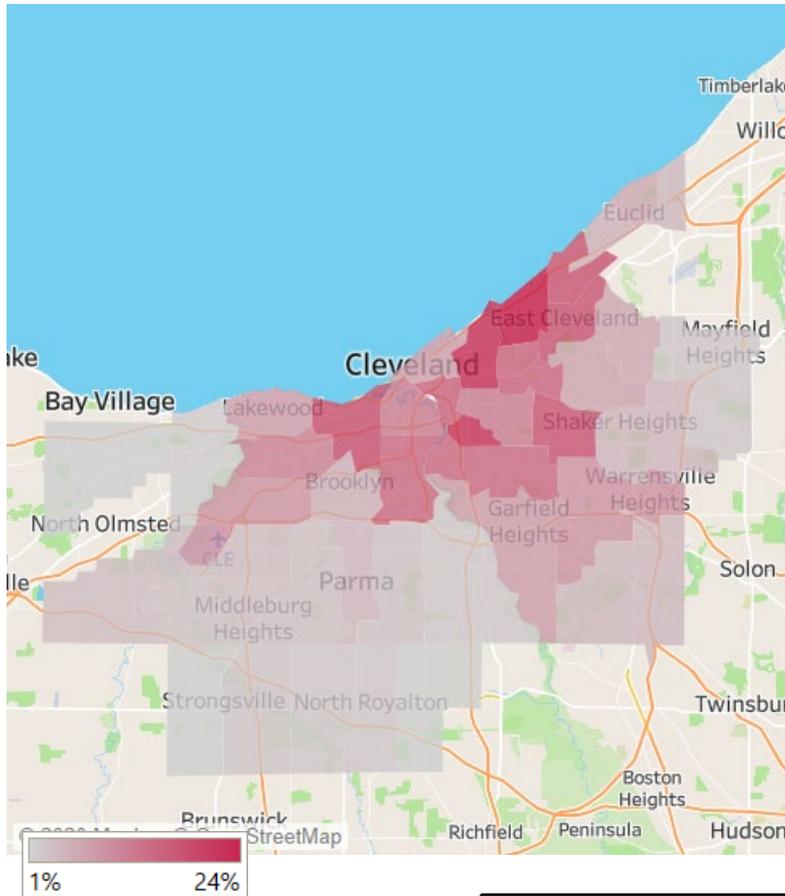


Bringing these **8 providers** to the group average in lead ordering and testing would result in an additional 300 at-risk children getting lead tested

Preliminary Data:
Do not quote or cite

% of Children (1-6) Tested and Elevated Blood Lead Level

By Zip and Cuyahoga County Region

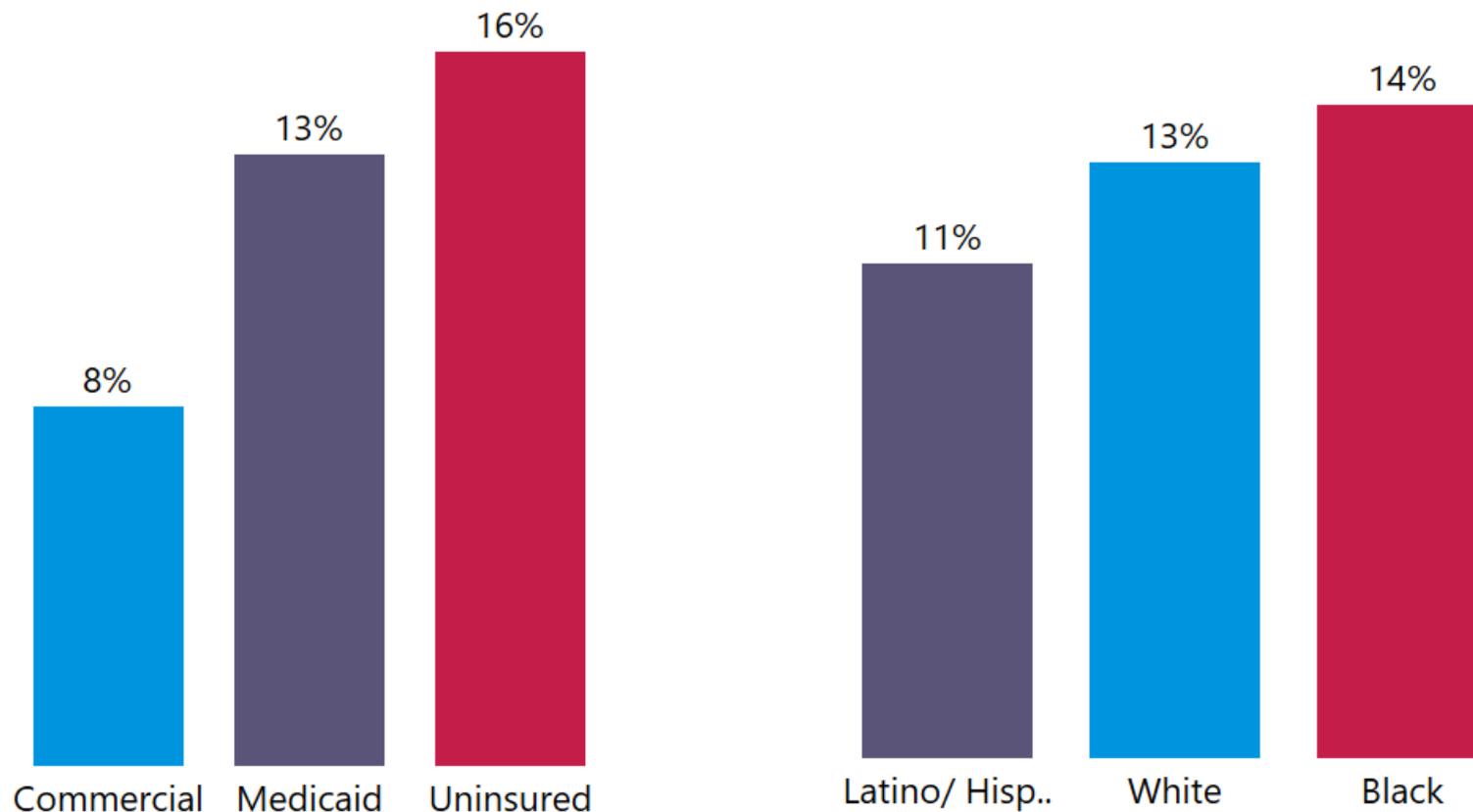


Preliminary Data:
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% of Children (1-6) Tested and Elevated Blood Lead Level

By Child's Insurance

By Child's Race/Ethnicity

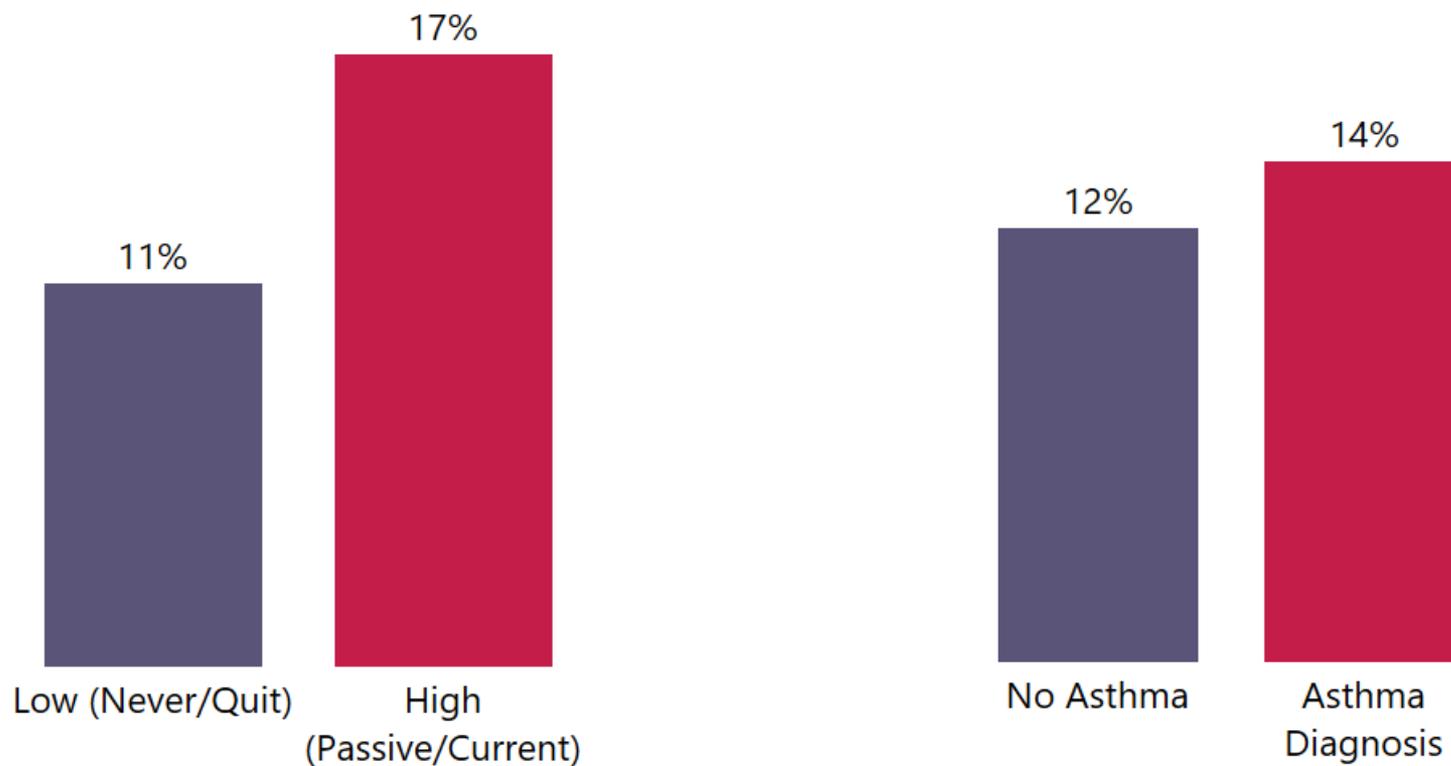


Preliminary Data:
Do not quote or cite

% of Children (1-6) Tested and Elevated Blood Lead Level

By Child's Tobacco Exposure

By Child's Asthma Diagnosis



Preliminary Data:
Do not quote or cite

At-Risk Communities

% of At-Risk Children (1-6) with no Documented Lead Test

Central	42%
Edgewater	35%
Kirtland-Goodrich	35%
Tremont	34%
Detroit-Shoreway	34%
West Park	33%
Ohio City	31%
Stockyards	31%
East Cleveland	31%
Westtown	30%
Hough	30%

Estimated Number of Children untested with EBLL

Kirtland-Goodrich	65
West Park	45
Westtown	39
Broadway - Slavic Village	33
Clark-Fulton	28
Stockyards	27
Central	26
Old Brooklyn	26
Cudell	25
Detroit-Shoreway	25

488 children (1-6) in Cuyahoga County have: (a) had a doctor's visit to our reported systems in last 12 months, (b) have never had a lead test, and (c) are estimated to have EBLL

How might community health workers help increase testing rates and referrals to early intervention?

Better Health Pathways Community HUB



20 Evidence-Based Pathways

Adult education

Behavioral health referral

Developmental referral

Developmental screening

Education

Employment

Family planning

Health Insurance

Housing

Immunization referral

Immunization screening

Lead screening

Medical home

Medical referral

Medication assessment

Medication Management

Postpartum

Pregnancy

Social service referral

Tobacco cessation

Train

- Provide 2 session specialized training to CHWs on lead, its effects, and resources in the community
- Partner with Lead Resource Center

 Lead Safe Resource Center



LEAD  SAFE
CLEVELAND COALITION

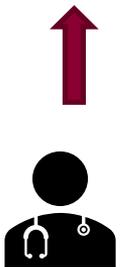
 **Better Health**
Partnership

Enroll

Enroll children in need of lead tests from MCOs, providers, and community in the HUB



- Create workflow establishing linkage between MCO/PCPs, community, and HUB
- Successfully locate and enroll families with missing lead tests

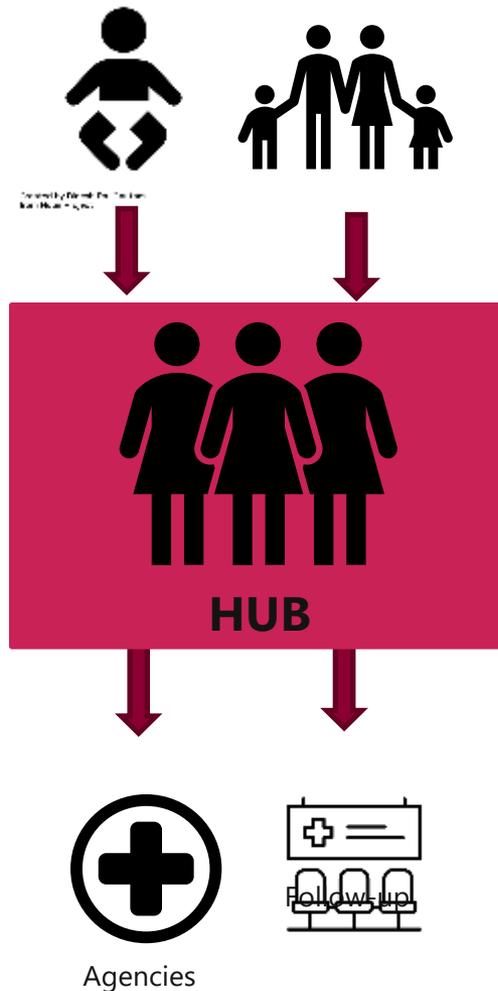


Medical Home



Managed Care Organizations

Support and Refer



Identify other social needs of child, child's parents, and other children in residence. Refer to relevant services and provides support to ensure connection to resources.

- Create workflows between HUB and county services (e.g. Bright Beginnings) for those with EBLL
- Identify other social issues among child's family.

Short-Term Impact (2021)

Short-term (2021)

- Establishment of process to support lead testing system through the HUB
 - Improved testing among pilot sample
- Establishment of process to connect children with EBLL to relevant mitigation and support services through the HUB
 - Improved referrals among pilot sample
- Better understanding of risk factors surrounding lead exposure
 - Maps and analysis made available to public

Long-Term Impact (2022 and Beyond)

Medium-Term

- More data-informed prevention efforts
- More exposed kids get connected to services
- Better identification of holistic needs facing families with EBLL child

Long-Term

- Reduced impact of lead exposure
- Reduced lead exposure in community
- Greater childhood development in community



www.betterhealthpartnership.org