

# Milwaukee Childhood Lead Poisoning Prevention Program



Steering and Rules Committee  
January 17, 2018

# Problem

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Data currently being analyzed by the City of Milwaukee Health Department (MHD) shows that its Childhood Lead Poisoning Prevention Program (CLPPP) had deficient documentation practices and was providing inadequate and/or inconsistent services to children with elevated blood lead levels.

# Lead Poisoning

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- Primary sources of lead exposure
- Lead poisoning reference level
  - CDC lowered from 10  $\mu\text{g}/\text{dL}$  to 5  $\mu\text{g}/\text{dL}$  in 2012
  - City of Milwaukee intervention levels:  
5-9, 10-19, 20-39, 40+  $\mu\text{g}/\text{dL}$
- Testing determines reference level
  - Capillary (preliminary) vs. Venous (confirmatory)

# Childhood Lead Poisoning Prevention Program (CLPPP)

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- Primary Prevention (Property)
  - Eligible property owners provided grant to replace original windows that have lead-based paint
  
- Secondary Prevention (Child EBLLs)
  - Children who have elevated blood lead levels receive interventions from the MHD based on level of exposure

# CLPPP Interventions

Venous Blood Lead Levels (BLL)	Intervention for confirmed cases	Form
5-9 µg/dL	Letter with test result mailed to family providing educational materials, prevention information, and contact information for MHD to provide further information.	Letter
10-19 µg/dL	A Public Health Services Assistant conducts a home visit to provide educational information, conduct a walk-through home assessment, and conducts wet washing and/or HEPA vacuuming to remove immediate lead hazards. These services are delivered in the client's home until the service goals are met.	PHSA
20-39 µg/dL	A Public Health Nurse (PHN) Case Manager conducts a home visit to provide educational information, conduct a growth and development assessment of the child, and provides ongoing monitoring of the child. The PHN will coordinate closely with a Lead Risk Assessor who will inspect the child's home for lead hazards. These services are delivered in the client's home until the service goals are met.	PHN + LRA
≥40 µg/dL	At this level, an immediate MHD lead poisoning response will be initiated. A Public Health Nurse (PHN) Case Manager conducts a home visit to provide educational information, conduct a growth and development assessment of the child, and provides ongoing monitoring of the child. The PHN will coordinate closely with a Lead Risk Assessor who will inspect the child's home for lead hazards. These services are delivered in the client's home until the service goals are met.	PHN + LRA

# Data: 2015-2017

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- Testing is primarily done by primary care provider or clinic
  - Small number done by MHD
- Data is entered into CDC system-STELLAR
- Why are we concentrating on years 2015-2017
  - Significant drop in documentation of service levels in 2015
- On average, about 25,000 children under 6 are tested
- Based on highest reported test for a child in that year,
  - 10% for BLL  $\geq$  5  $\mu\text{g}/\text{dL}$
  - Largest proportion in 5-9  $\mu\text{g}/\text{dL}$  (7.5% - 8.3%)
  - On average, 2.5% in 10-19  $\mu\text{g}/\text{dL}$
  - Less than 1% in 20-39 and about .1%-.2% in  $>40$   $\mu\text{g}/\text{dL}$

# Preliminary Analysis 2015-2017 & Immediate Response

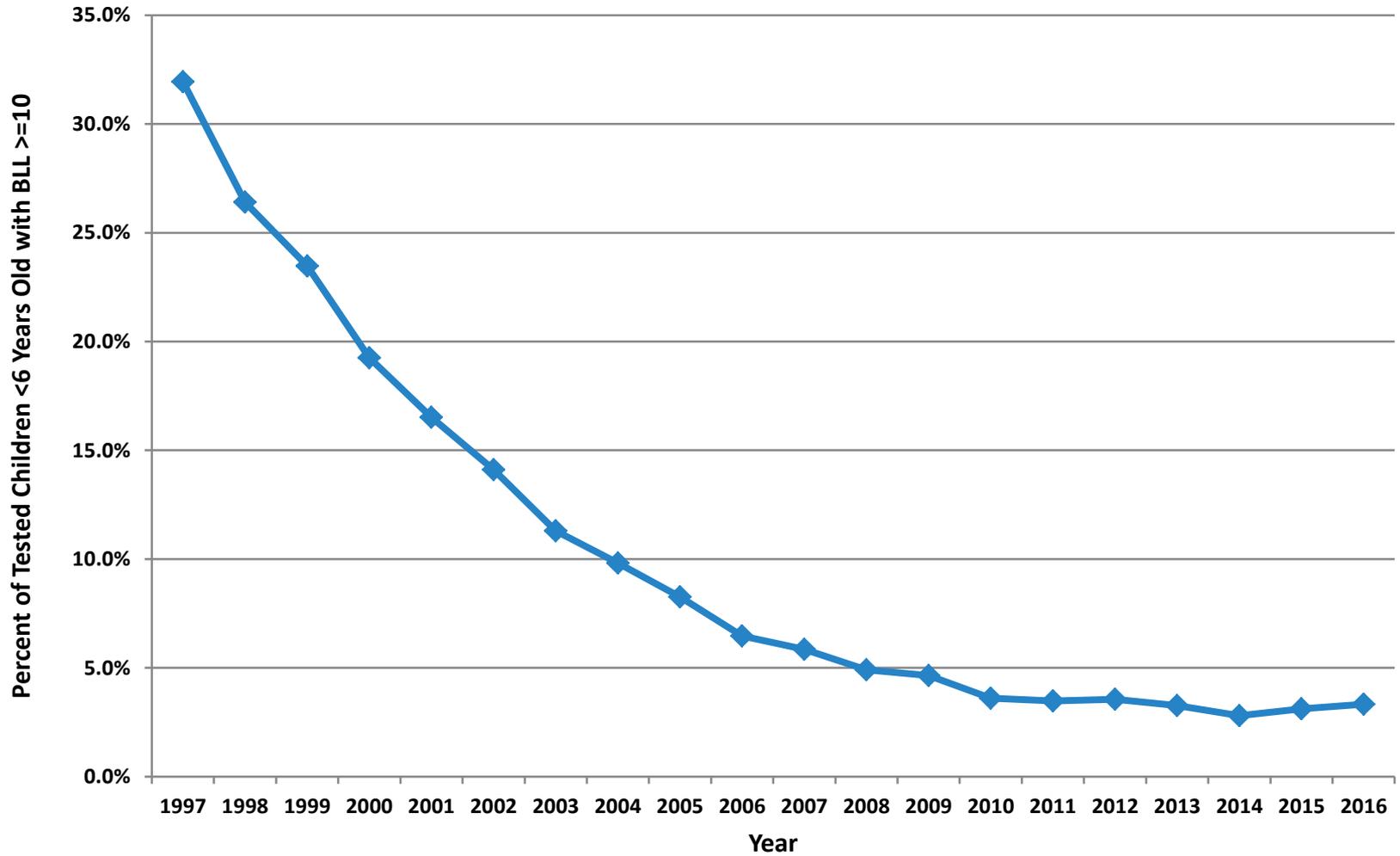
Immediate Services to be Offered			
Blood Lead Levels (BLL )	Form	Scope	Intervention
5 – 9 µg/dL	Letter	6021 (All)	<ol style="list-style-type: none"> <li>1. Letter will be mailed with educational materials &amp; prevention information.</li> <li>2. Offer free blood testing</li> <li>3. Offer water filter</li> </ol>
10 – 19 µg/dL	PHSA	1890 (All)	<b>Preliminary</b> <ol style="list-style-type: none"> <li>1. Letter will be mailed with educational materials &amp; prevention information.</li> <li>2. Offer free blood testing</li> <li>3. Offer water filter</li> </ol>
		281	<b>Confirmed</b> <ol style="list-style-type: none"> <li>1. Letter will be mailed with educational materials &amp; prevention information.</li> <li>2. Offer free blood testing</li> <li>3. Offer water filter</li> <li>4. Offer HSA service</li> </ol>
≥20-39 µg/dL	PHN LRA	320 (P)	<b>Preliminary</b> <ol style="list-style-type: none"> <li>1. Letter will be mailed with educational materials &amp; prevention information.</li> <li>2. Offer free blood testing</li> <li>3. Offer water filter</li> <li>3. PHN will attempt calling to encourage confirmation test and schedule a home visit</li> </ol>
		3	<b>Confirmed</b> <ol style="list-style-type: none"> <li>1. Offer water filter</li> <li>2. Referral for PHN services</li> <li>3. If PHN cannot contact by phone, will attempt home visit</li> </ol>
≥40 µg /dL	PHN LRA		All confirmed cases were referred to PHN case management. Additional case management will be offered to a few select cases.

\*\*\* LRA (environmental property investigations) analysis is ongoing.

# CCFN 170131 – Lead Transparency Legislation Update

Resolved Clause	MHD Activity
Issue media advisory and provide ongoing community updates	Media interview conducted, info. Provided to additional outlets. Press release planned to coincide with the mailing of info. in water bills. Ongoing Community updates planned/in process
Update initiatives, websites, social media messaging, printed materials, outdoor/media ads and campaigns under authority of Dept.	Web updates completed in Dec. (both MHD website and Lead Safe Milwaukee website). No current advertisements. MHD met with Ald. Lewis 1/16 re: RFP for next marketing campaign. Print material update in process.
Ensure use of NSF/ANSI Standard 53 filter promoted as most thorough means of lead-water safety	Completed on web in December. In process on print materials
Include in any message related to running of tap water, warning from failing to adhere to flushing guidelines	Completed on web in December. In process on print materials.
Written recommendations to clinicians/providers	Written recommendations are in process, and are being developed in consultation with providers. A baseline assessment of clinician awareness of recommendations was completed in December 2017. MHD is currently working with key providers to develop tools to assist local clinicians in adhering to the existing national/local testing recommendations Planning for a medical providers educational symposium is underway.
Continue to promote these recommendations until further Common Council action	No action required

## City of Milwaukee Prevalence Rate for Children less than 6 Years Old with BLL greater than or equal to 10ug/dL - 1997 - 2016



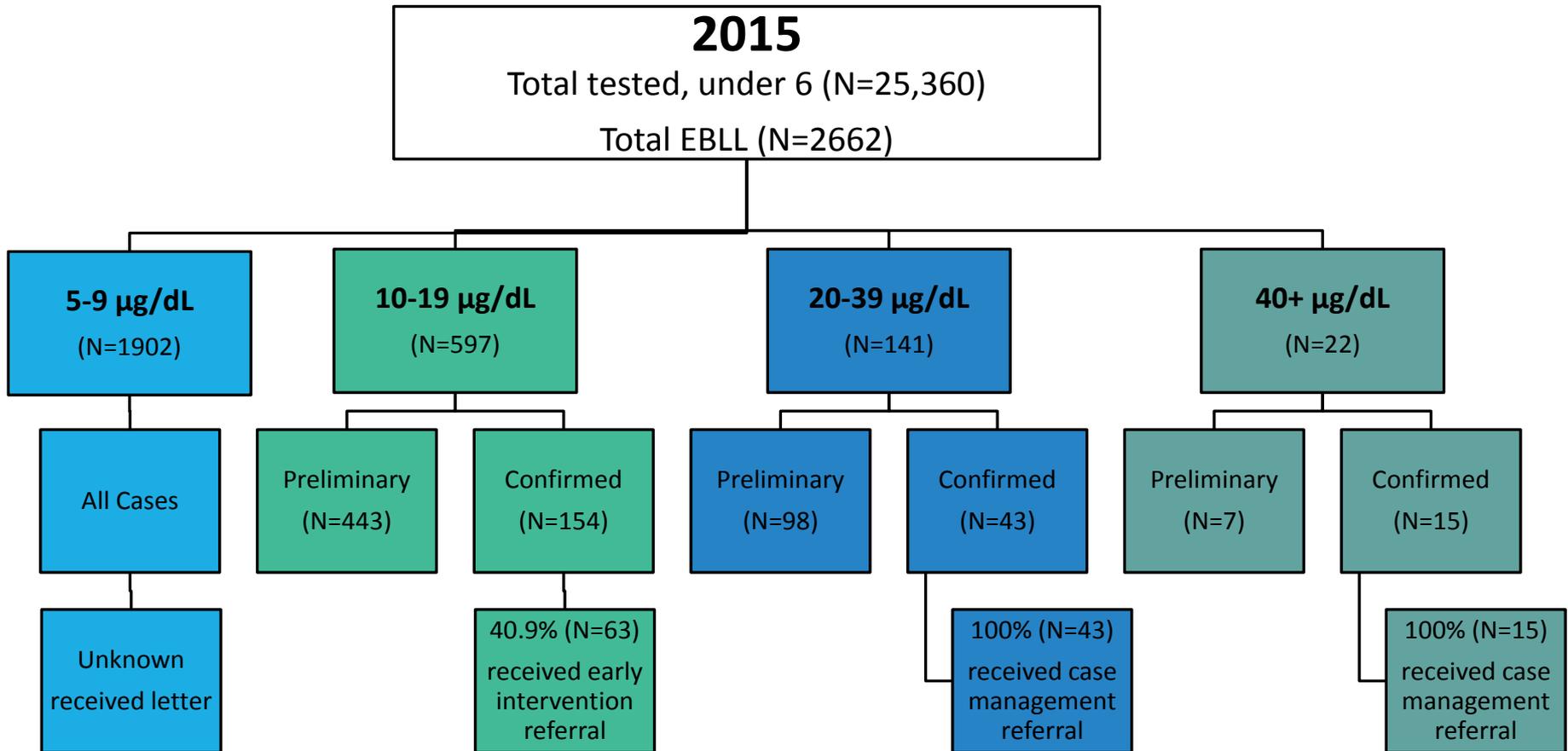
*Think Health* 

*Act Now!*

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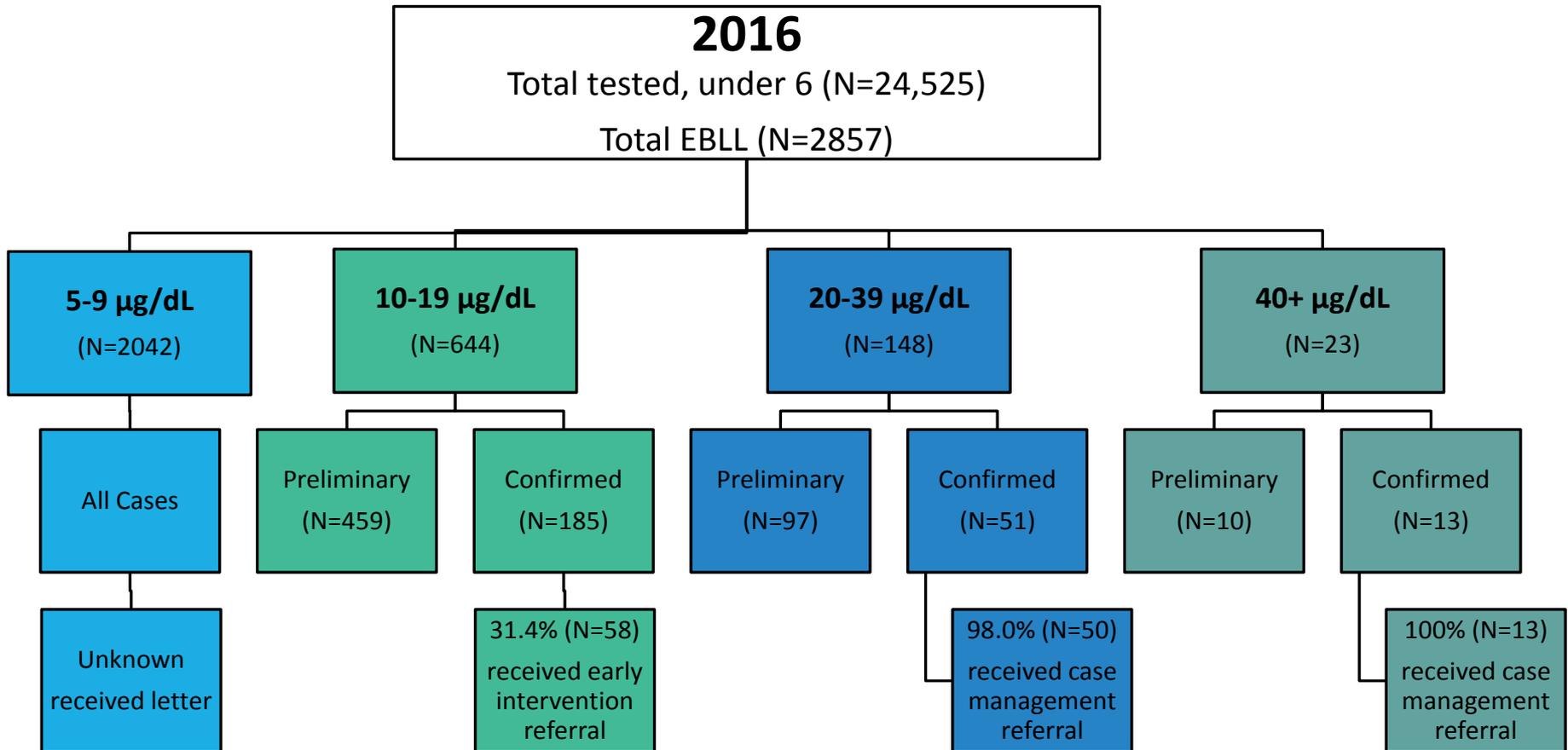
CITY OF  
**MILWAUKEE**  
HEALTH DEPARTMENT

# Preliminary Data



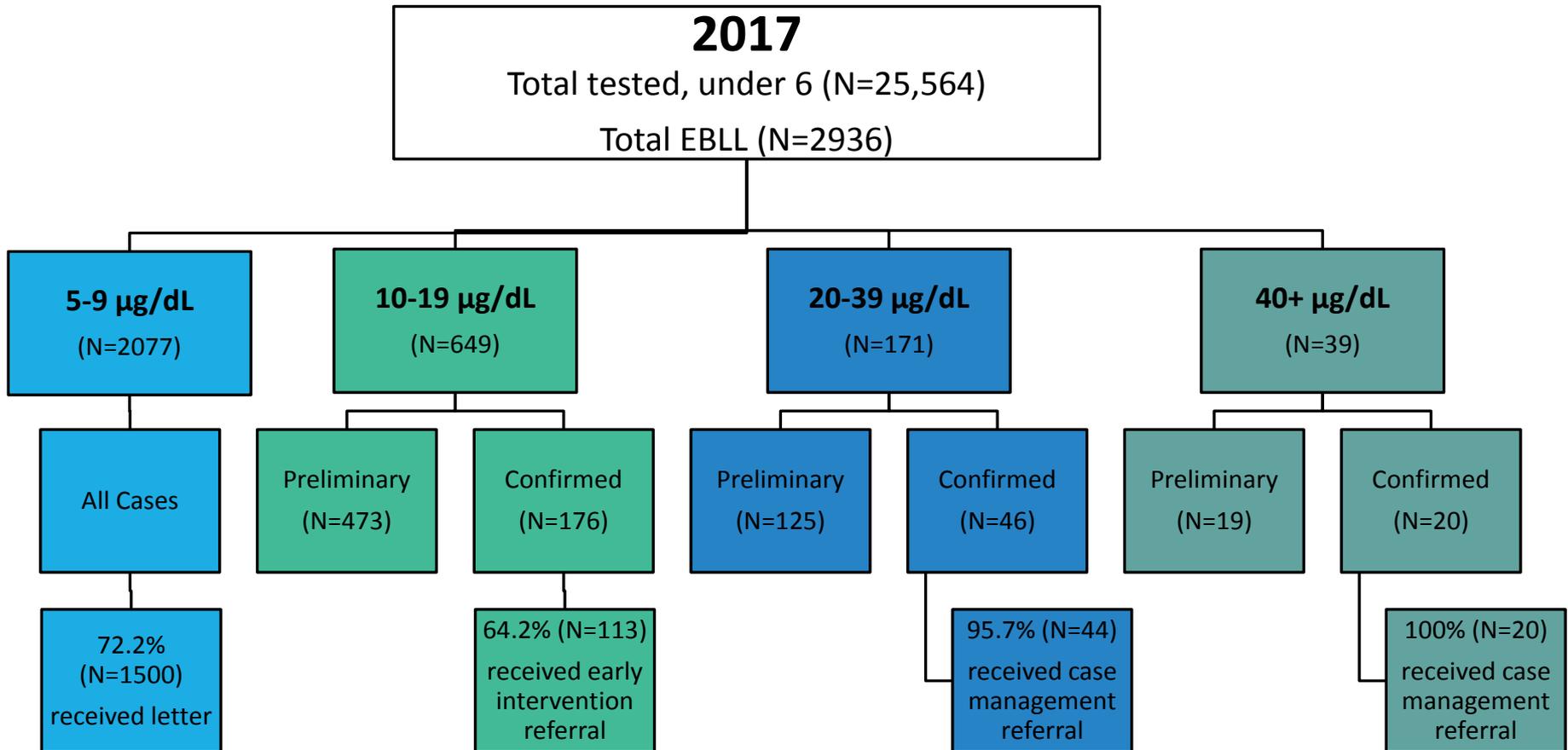
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