

Importance of Lead Screening



EPSDT

What does it mean?

Early: Assessing and identifying problems early

Periodic: Checking children's health at periodic, age-appropriate intervals (as defined by the periodicity schedule)

Screening: Providing physical, mental, developmental, dental, hearing, vision, and other screening tests to detect potential problems

Diagnostic: Performing diagnostic test to follow up when a risk is identified

Treatment: control, correct or reduce health problems found.



- DE follows the Bright Futures Periodicity Schedule
- https://downloads.aap.org/AAP/PDF/periodicity_schedule.pdf?_ga=2.133227146.542802980.1659617322-386513747.1575401220
- Most recent updates published July 2022

Lead Screening

- Can be done by a capillary (finger stick) or a venous(needle) draw.
- Tests for lead in the blood.



It only takes
this much **lead**
to **poison** a child.

LeadCare® II Blood Lead Testing System.
The only point-of-care test with immediate answers.



Lead Poisoning is not just from Peeling Paint



Imported Supplements and Health Remedies



Imported Spices (including Turmeric)



Imported Candy



Imported Aluminum Cookware



Contaminated Drinking Water (Solder, Pipes)



Para-Occupational Exposure, Especially from Firearms (Dust On Clothing)



Restored or upcycled furniture

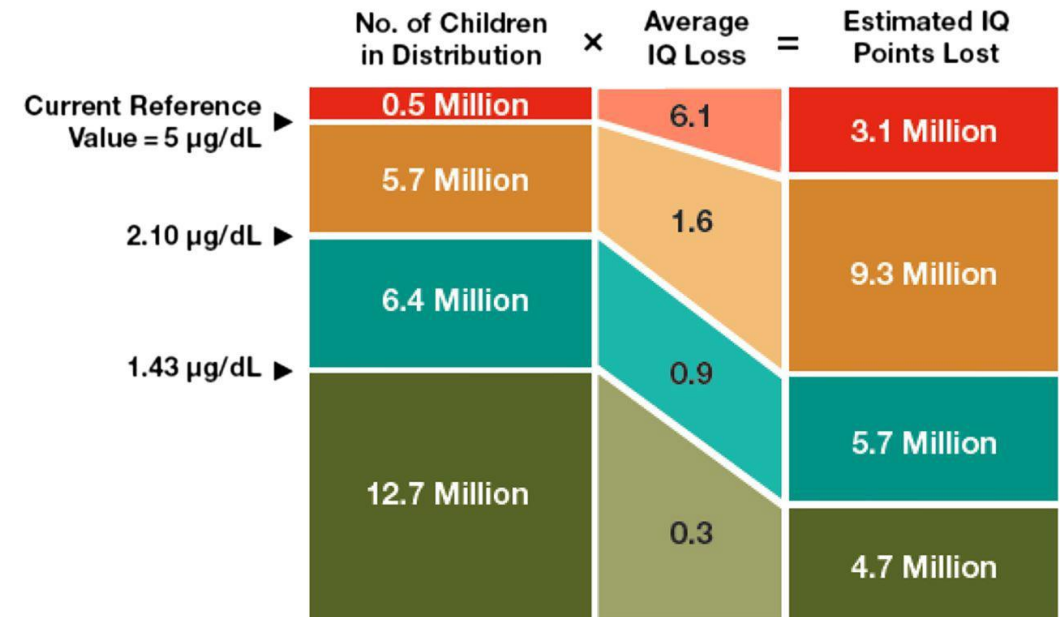


Vintage Dishware (including Corelle made before 2005)

Learning and Behavioral Outcomes from Lead Exposure

Blood Lead Levels	Educational Impact
< 3 mcg/dl	Decreased end of grade test scores
4 mcg/dl at 3 years of age	Increased likelihood of learning disabled classification in elementary school; Poorer performance on tests
5 mcg/dl	30% more likely to fail third grade reading and math tests More likely to be non-proficient in math, science, and reading
5-9 mcg/dl	Scored 4.5 points lower on reading readiness tests
> 10 mcg/dl	Scored 10.1 points lower on reading readiness tests
10 – 19 mcg/dl	Significantly lower academic performance test scores in 4th grade
> 25 mcg/dl	\$0.5 million in excess annual special education and juvenile justice costs

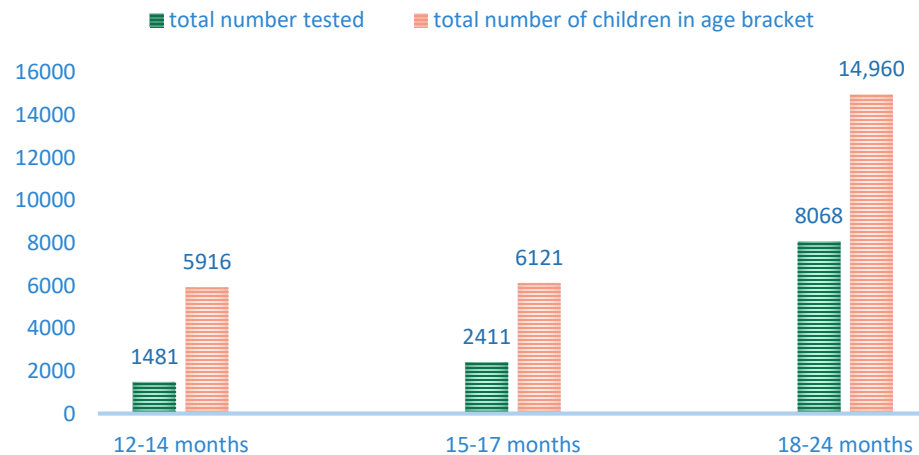
Estimated Loss of IQ in US Children at Different Intervals of Blood Lead ($\mu\text{g}/\text{dL}$)



Lead Screening *(when are children being tested)?*

Highmark Health Options Data

JANUARY - AUGUST 2022



AmeriHealth Caritas Delaware Data

2020

1 yrs old= 51 mbrs tested
2 yrs old= 148 mbrs tested
3 yrs old= 1460 mbrs tested
4 yrs old= 877 mbrs tested
5 yrs old= 223 mbrs tested
6 yrs old= 158 mbrs tested

2021

2 yrs old= 431 mbrs tested
3 yrs old= 457 mbrs tested
4 yrs old= 181 mbrs tested
5 yrs old= 41 mbrs tested
6 yrs old= 47 mbrs tested

2022

0 yrs old= 54 mbrs tested
1 yrs old= 937 mbrs tested
2 yrs old= 647 mbrs tested
3 yrs old= 123 mbrs tested
4 yrs old= 105 mbrs tested
5 yrs old= 89 mbrs tested
6 yrs old= 40 mbrs tested

Follow-Up Testing Timeframes

*(Recommended Schedule for Obtaining a Confirmatory **VENOUS** Sample)*

According to the Centers for Disease Control and Prevention (CDC), follow-up testing is recommended as follows:

Blood Lead Level ($\mu\text{g}/\text{dl}$)	Time to Confirmation Testing
$\geq 3.5\text{--}9$	Within 3 months
10–19	Within 1 month
20–44	Within 2 weeks
≥ 45	Within 48 hours

*(The higher the Blood Lead Level is on the initial **CAPILLARY** sample, the more urgent it is to get a **VENOUS** sample for confirmatory testing)*

Contact Info

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Office of Lead Poisoning Prevention Program – 302-744-4546

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Child Development Watch- NCC – 302-283-7240; Kent and Sussex 302-424-7300 (note: *children with Lead levels 5 µg/dl or higher are automatically eligible for federally-funded early childhood education and early intervention services through IDEA Part C in Delaware*)

The National Lead Information Center- 800-424-5323

The Water Department of the EPA Safe Drinking Water Hotline- 800-426-4791

References

Educational Services for Children Affected by Lead Expert Panel. Educational interventions for children affected by lead. Atlanta: U.S. Department of Health and Human Services; 2015.

American Academy of Pediatrics, Prevention of Childhood Lead Toxicity. Pediatrics (2016) 138 (1): e20161493.

[National Center for Environmental Health, Division of Environmental Health Science and Practice](#). Centers for Disease Control and Prevention; 2022.