



CHILDHOOD LEAD POISONING PREVENTION PROGRAMS

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Overview

- Lead 101
- Data
- **DOH Lead Programming**
- **Future Initiatives**
- Tacoma-Peirce County Health Department



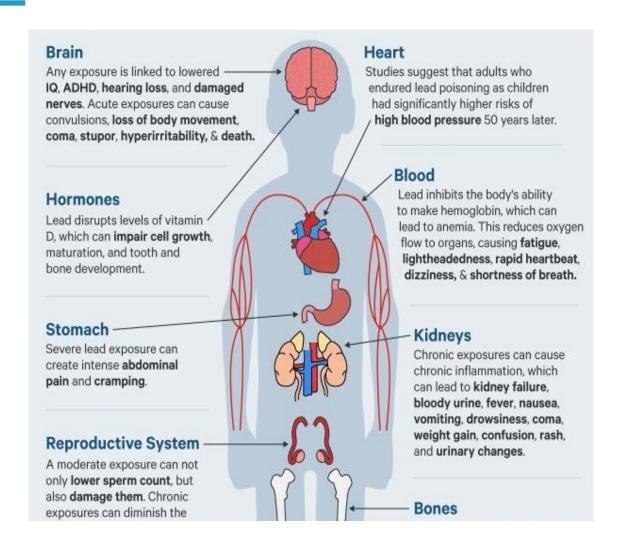
Lead

- Soft, blue-gray heavy metal
- Occurs naturally
- Much of its environmental presence comes from past use in paint, gasoline and industry
- The most widespread source of lead exposure for children is in leadbased paint and dust that remains in older buildings



Health Impacts

- Lead can affect nearly every system in the body
- There is no known safe exposure threshold
- Exposure is especially toxic and harmful to children, because their brains and nervous systems are still developing



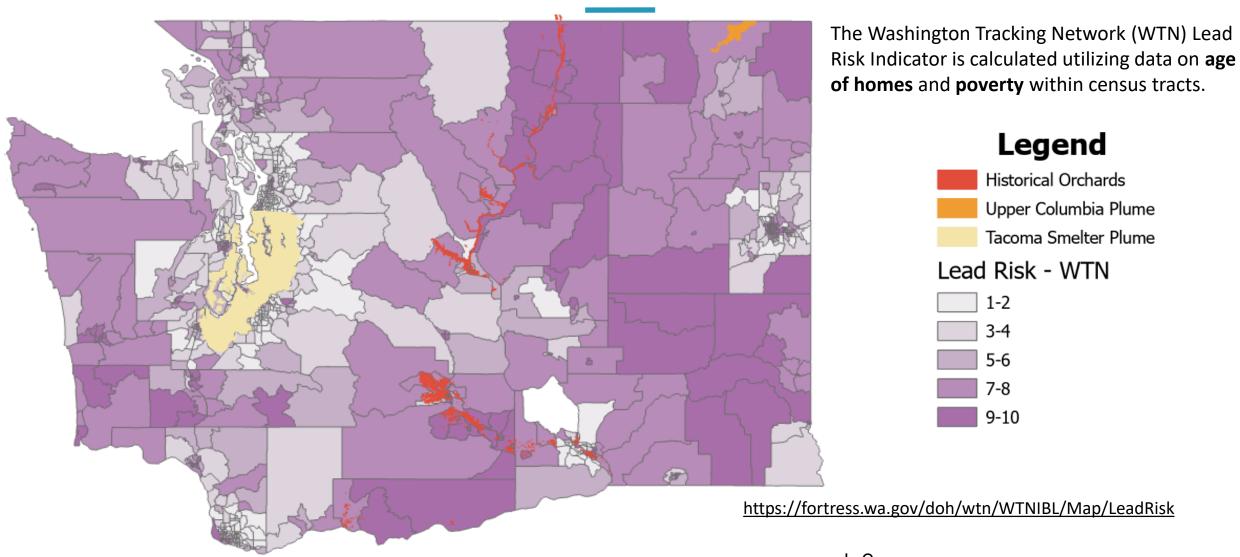


Exposures Risks

- Paint in pre-1978 homes
- Lead dust
- Dirt / soil
- Job exposures
- Drinking water
- Hobbies / sports
- Traditional remedies

- Spices
- Traditional cosmetics
- Costume jewelry
- Recalled toys
- Imported pottery
- Imported aluminum cookware

Lead Exposure Risk Mapping



Blood Lead Testing

- A blood test is the only way to identify lead exposure
- Washington's approach is focused testing, with no statewide universal testing requirements*
- We test based on a child's risk factors, following <u>Clinical</u>
 <u>Algorithm for Targeted Childhood Lead Testing</u> guidelines
 developed by an expert panel
- All lead test results must be sent to DOH, per Notifiable Conditions Rule (Chapter 246-101 WAC)
- Methods for blood lead testing:
 - Venous
 - Capillary (needs confirmatory test)

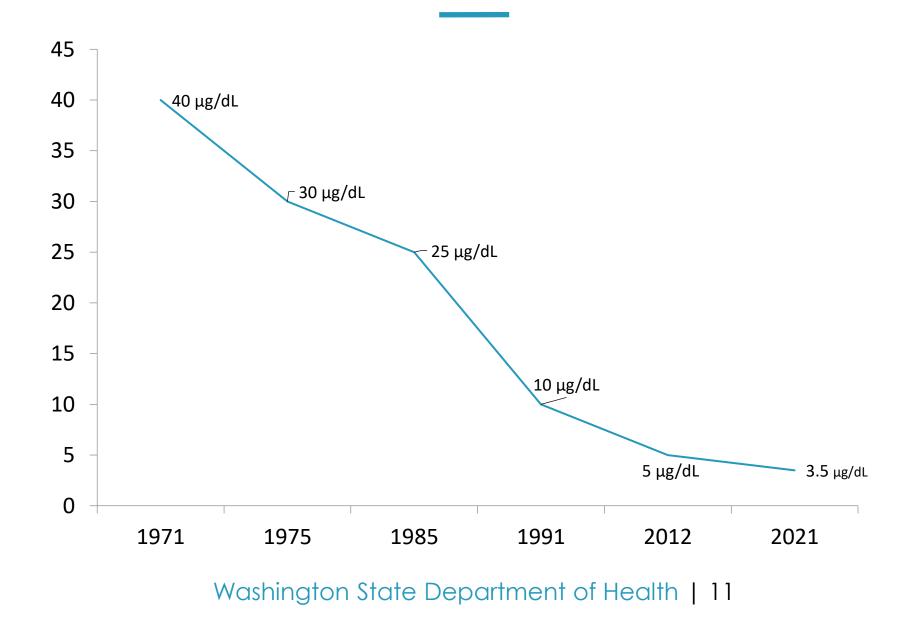


^{*}All children enrolled in Medicaid are required to receive blood lead testing at 12 and 24 months at well visits, or once before 72 months

Response to Elevated Blood Lead

- Qualifying test results (5 μ g/dL) are sent to LHJs for response, pursuant to Washington's Notifiable Conditions Rule
- Local response varies, but can include case investigation and case management or home lead assessment
- DOH provides centralized data system, guidance, technical assistance, and tools, as well as case management upon request by LHJ
- There is no stable state-wide funding source to provide services to affected families

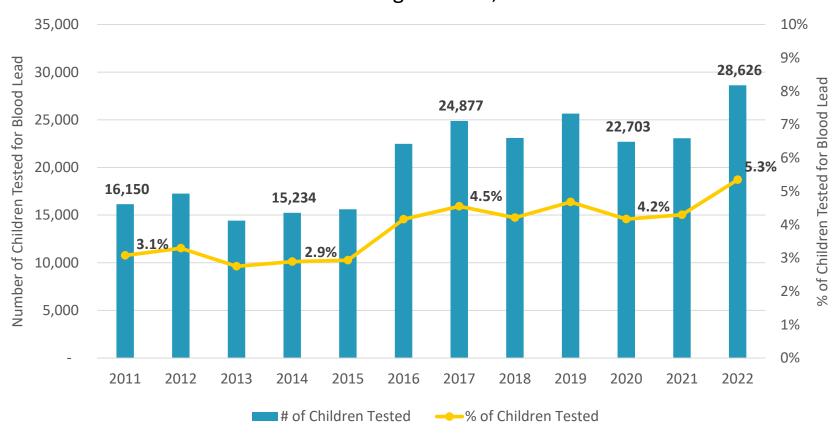
CDC Lead Reference Levels





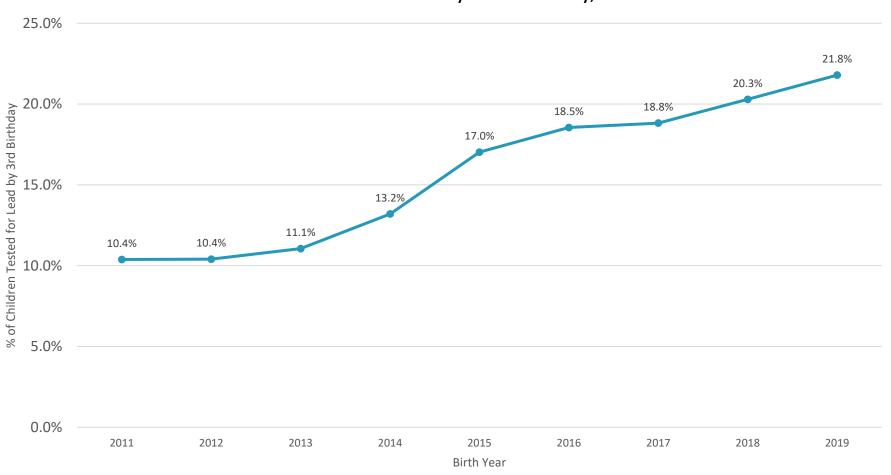
Lead Testing in Washington

Number and Percent of Children 0-5 Years Old Tested for Lead Annually in Washington State, 2011-2022



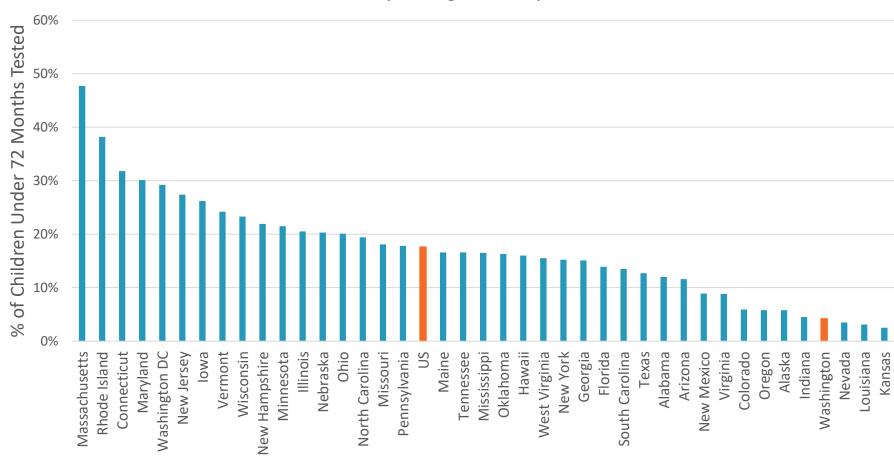
Birth Cohort Test Rate

% Children Tested For Lead By 3rd Birthday, 2011-2019



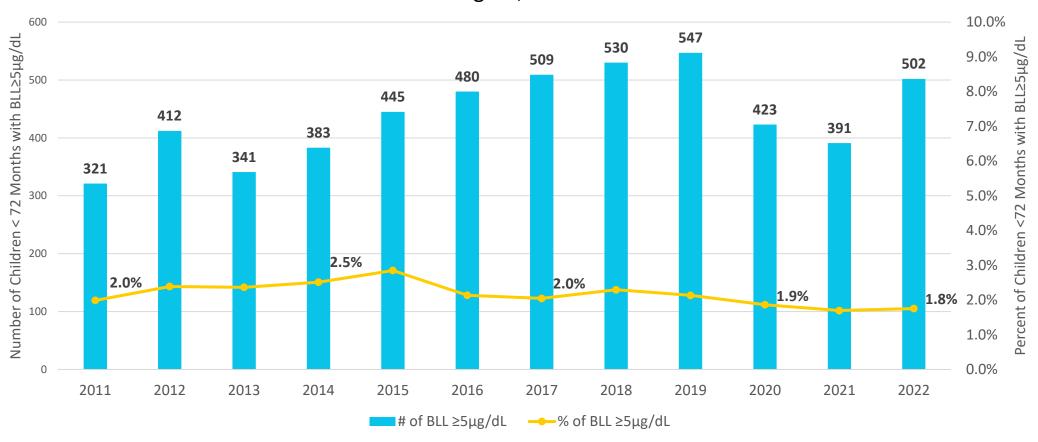
Test Rate in US by State

Annual Testing Rate of Children Under 72 Months of Age, 2018 in states reporting annually to CDC



Case Rate

Elevated Blood Lead Level (≥5µg/dL) Rates of Children <72 Months of Age in Washington, 2011-2022



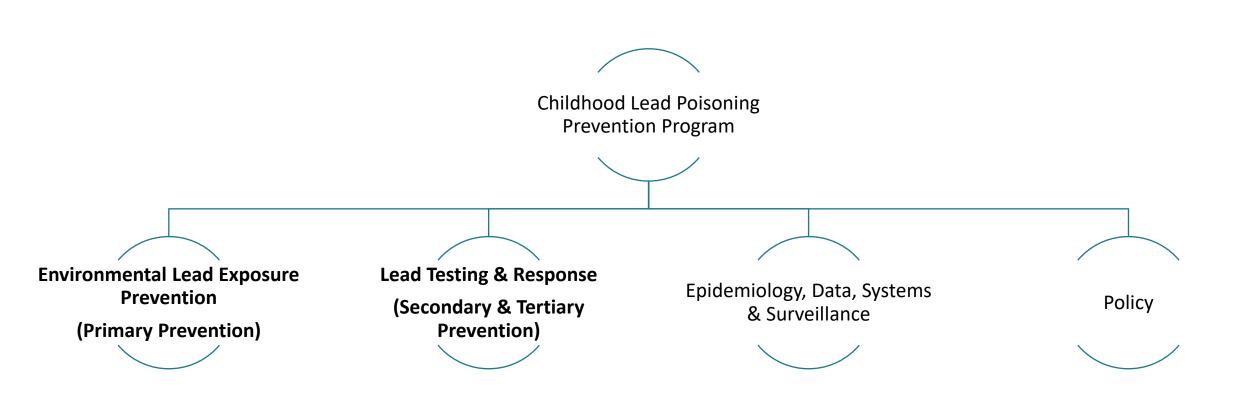
Washington Rates Compared to National Rates

	Annual Testing Rate	
Year	% of <u>WA</u> Children under 72 months tested	% of <u>US</u> Children under 72 months tested
2012	3.3%	18.4%
2013	2.7%	17.1%
2014	2.9%	15.5%
2015	2.9%	17.8%
2016	4.2%	16.2%
2017	4.5%	15.7%
2018	4.2%	17.6%
2019	4.7%	NA
2020	4.2%	NA
2021	4.3%	NA
2022	5.3%	NA

Elevated Rate		
% of <u>WA</u> tests ≥ 5 μg/dL	% of <u>US</u> tests (confirmed) ≥ 5 μg/dL	
2.4%	5.2%	
2.4%	4.7%	
2.5%	3.8%	
2.8%	3.6%	
2.1%	3.8%	
2.0%	3.1%	
2.3%	2.6%	
2.1%	NA	
1.9%	NA	
1.7%	NA	
1.8%	NA	



DOH Program Components



Environmental Lead Exposure Prevention

Identify and eliminate environmental sources of lead exposure before children are impacted

Lead in School Drinking Water

- Engrossed 2nd Substitute House Bill 1139 passed during the 2021 legislative session
- Test lead in drinking water in all public schools built, or with plumbing replaced, before 2016
- Must test all drinking water outlets
- Initial testing completed by 2026 and then every five years
- Action level is defined at above 5ppb with immediate shut off at above 15ppb
- NOTE: the RCW is different than the delayed school rule Chapter 246-366A WAC



Water Infrastructure Improvement for the Nation (WIIN)

- Offers free lead and copper testing to childcare centers
 - Required for their licensing requirement
 - Every six years
 - Chapter 110-300-0235 WAC
- Funded through an EPA grant
- Remediation funding is available



Lead Testing & Response

- Increase testing of children especially those that are most likely to be exposed to lead
- Ensure all children with elevated blood lead levels are connected to appropriate care, consistently across the state
- Identify sources of exposure to prevent future exposures



Areas of Work

- Partnerships
- 2. CDC Grant Implementation
- 3. Health Care Authority State Plan Amendment (SPA) and an Interagency Agreement
- 4. Foundational Public Health Services

Key Partnership Efforts

- Refugee and Immigrant Health
- Women, Infants and Children (WIC)
- Lead Advisory Committee
- Local Health Jurisdictions
- Health Care Authority
- Seattle & King County Hazardous Waste



CDC Grant

Long term goals:

- Decreased disparities in blood lead levels by race/ethnicity and socioeconomic status
- Decrease adverse health effects of lead exposure in children
- Decreased societal costs associated with childhood lead exposure

Strategies:

- Ensure blood lead testing and reporting
- Enhance blood lead surveillance
- Improve linkages of lead exposure children to recommended services

Heath Care Authority Initiatives

1. State Plan Amendment (SPA):

- Two new billable service areas:
 - Home Lead Exposure Assessments
 - Targeted Case Management
- Sustainable source of funding at state and local public health levels
- Foundational Public Health Services dollars to leverage the Medicaid dollars
- 2. Interagency Agreement (IAA):
 - A 50% match on Medicaid eligible administrative activities
 - Supports DOH's work aligning with HCA's goals



Foundational Public Health Services

- DOH receives Foundational Public Health Services (FPHS) to support statewide coordination, work with HCA/Medicaid, policy, assist with case management upon LHJ request, and work with focus populations
- Co-Lead of Lead Prevention Model Program Core Team



Future Initiatives

- Review CDC's Reference level in comparison with the state's current action level to develop recommendation for next steps
- Work with HCA to submit and implement SPA and Interagency Agreement IAA
- Determine next steps around FPHS model program efforts

