

New Actions to Reduce Exposure to Lead & Promote Healthy Homes

Generously supported by the NJ Department of Health, Jersey City Department of Health & Human Services, and the Robert Wood Johnson Foundation

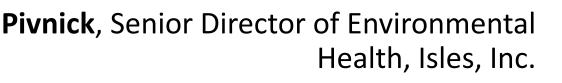


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Melanie McDermott, Senior Researcher, **Sustainable Jersey**













Health Gold: New Actions to Reduce Exposure to Lead

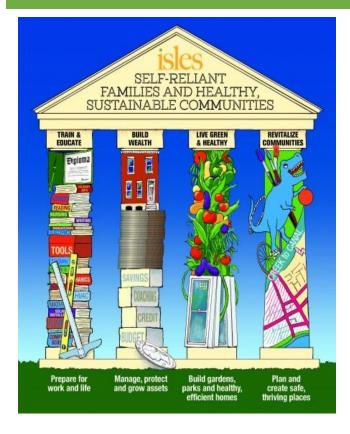
Sustainable New Jersey

October 7, 2021

Elyse Pivnick, MCP, Isles, Inc.



Isles Mission



Founded in 1981, Isles, Inc. is a community development and environmental organization based in Trenton, New Jersey.

With a mission to foster self-reliant families and healthy, sustainable communities, we design and develop effective services that support this mission and share what we learn with others who can make a difference.

NYT Quote of the Day

"If you were going to put something in a population to keep them down for generations to come, it would be lead."

(NYT January 30, 2016)

Dr. Mona Hanna-Attisha, of Flint MI, who has studied lead poisoning and the effects of lead exposure, for which there is no cure.



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Lead, Race and Inequality

Lead toxicity ... is a pathway through which racial inequality literally gets into the body.

Dr. Robert Sampson, Harvard Researcher. 2016

https://scholar.harvard.edu/files/alixwinter/fil es/sampson_winter_2016.pdf



Legacy of Lead Paint



Robs a child of their potential in life

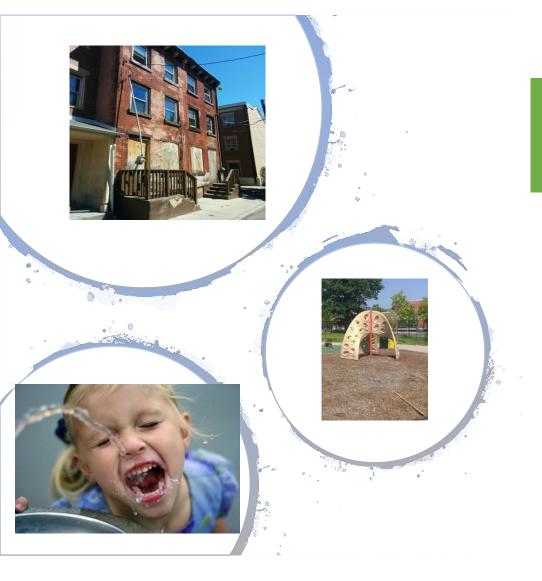


Dangers of Lead Exposure

- Lead poisoning remains the **#1 environmental threat** to the health of America's children (learning problems, hearing, behavior)
- Nearly 50% of all children tested (2018-2020) had detectable lead in their bodies. ---- research tracked more than 1.1 million children under the age of 6 years, (JAMA Pediatrics 2021)
- Adult impacts: High blood pressure, joint and muscle pain, kidney and heart disease, memory and concentration, headaches, pain, Mood disorders, reduced sperm count and abnormal sperm, miscarriage, stillbirth or premature birth in pregnant women
- Lead is so toxic that it is unsafe at any level.



Toxic



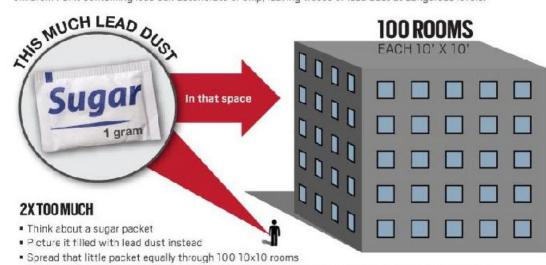
Lead Exposure is Cumulative

It typically comes from these main sources

How Much Lead Dust?

HOW MUCH LEAD IS DANGEROUS?

Even low levels of lead exposure can damage the nervous system, and high levels of exposure can lead to coma or death. The Centers for Disease Control and Prevention say there is no safe blood lead level in children. Paint containing lead can deteriorate or chip, leaving traces of lead dust at dangercus levels.



That amount of lead dust in each room would still be two times higher than the federal hazard level.



Adverse Childhood Experiences Adverse Community Environments Social Determinants of Health



Ellis, W., Dietz, W. (2017) A New Framework for Addressing Adverse Childhood and Community Experiences: The Building Community Resilience (BCR) Model. Academic Pediatrics. 17 (2017) pp. S86-S93. DOI information: 10.1016/j.acap.2016.12.011

Important to Know

- About 80% of NJ housing was built before 1978—the year lead was removed from new house paint
- In 2019, about 4,000 children in New Jersey had lead level of 5 or greater for the first time
- 75% of children with EBLs poisoned by lead paint (DOH, 2021)
- Elevated BLL: Nationally, 36% of inner-city black children vs 4% for suburban white children
- Forgotten in child development and education reform- My Brothers Keeper



Lead Poisoning & School Performance

- Compromised long-term memory---for example, a student can't recall multiplication tables from one day to next
- Reduced auditory processing makes it difficult, for example and the difference between "s" and "f' impeding the al read
- Inability to control behavior
- Inability to learn no matter how hard a child tries
- Disruption in classrooms by children frustrated by their failure to learn make it difficult for *other* children to learn.
- Lower test scores for individuals and entire school districts that have a disproportionate number of children with lead poisoning
- Disproportionate number of low-income males incarcerated, unemployed and aimless

School Suspensions, Reading, Juvenile Detention, Poverty

- FLINT: Suspension rates increased from 2.5% (before Flint water change) to 13.56% (after water exposure)
- FLINT: Delays in reading: 40% proficient *before* water change; reduced to 10% *after* water change.
- RI: Children with EBL 7X more likely to be suspended from school
- RI: Suspended children were also 10X more likely to end up in juvenile detention.
- RI: Relationship between lead and suspensions was much stronger for kids who received free lunches suggesting its interconnection with poverty, relates to housing

Currie and Aizer, 2017; Kristen Totten, MI ACLU







Sources of Lead Exposure: Paint/Dust





Lead Connection to Housing Paint, Water, Soil, Toys, Cultural





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Context for Sustainable NJ Actions to Reduce Exposure to Lead

- New Jersey' NEW Lead Safe Certificate Law
- All landlords will be required to assess their rental units for hazardous lead and correct the hazards before entering into a rental agreement with tenants.
- Implementation regulations to be issued in ten months; bill takes affect July 2022.

Sustainable NJ Can Help Prevent Lead Poisoning NEW ACTION ENCOURAGES HOUSING CODE ENFORCEMENT





Homes Maintenance Checklist

:hecklist was developed for the National Ithy Housing (NCHH) as a tool for healthy ance. A healthy home is one that is uaintained, and rehabilitated in a manner ive to good occupant health.

healthy home, occupants should keep it), well-ventilated, free from contaminants l-maintained, and thermally controlled.



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Good home maintenance can act to reduce allergens, prevent illness, and prevent accidental injuries. This checklist provides basic guidelines; items may need to be checked more often depending on local conditions and manufacturer recommendations.

Developed by Terry Brennan and Ellen Tohn, technical advisors to NCHH. Revised by NCHH staff, May 2018.



- HEALTHY HOMES TRAINING FOR HOUSING AND HEALTH INSPECTORS
- Empower them to inspect whenever they are in a home
- Leave behind a healthy homes check list

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Create a Culture of Health for Lead Poisoning Prevention

- Even better?
- Encourage lead and healthy homes training for Mayors, city council members, school superintendents, school boards, child study teams, community health workers, faith and civic leaders, state and local elected officials, parents, and more.





CREATE A LEAD AND HEALTHY HOMES ADVISORY COMMITTEE

Improve coordination of lead and healthy homes efforts: Code enforcement, CHWs, data, Section 8, Medicaid, education, legislation, energy efficiency



Call to Action: EQUITY

All children should proceed through life unburdened by lead.

Support new Sustainable NJ actions.





Contact Us

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Find Us Online



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Q&A



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- Municipalities play important role in shaping social determinants of health ... & health equity
- Key authorities include:

 Planning & zoning, housing, clean water, transportation, economic development, access to healthy food, etc.

- High-impact health strategies = SJ actions
- Healthy homes = key factor in individual & community health & therefore sustainability



A Municipal Guide to a Lead-Safe Community





- Lead Education & Outreach Programs (updated)
- Lead Blood Screening Campaign
- Healthy Homes Inspection & Training
- Lead and Housing Hazards Data-Sharing
- Comprehensive Lead Strategy
- Removing Lead in Drinking Water
- Private Well Outreach and testing
- Tobacco-Free Community



Lead Education and Outreach Programs

- What's new?
- 5 points for E &O on top lead n pathways
- + 5 for targeting specific high-risk group or neighborhood
- + 5 points for second high-risk group
- *Who* is high-risk for lead &/or underserved?
- What are some ways to "target" those groups?



- Purpose: increase % children completing blood lead level (BLL) tests
- NJ Law: all providers must screen children for BLLs
 > threshold at both 12 & 24 months + all < 6 y.o. not already screened
- Yet under **40%** NJ kids screened in 2018!
- Four action "tiers" for 5 points each



• Sponsor free BLL screening events

• Provide info on where & how to follow up

o Promote event

- Bonus: competitions, free giveaways
- Collaborate in holding screenings

o Demonstrate key municipal role!



- 1. Identify 1 or 2 high-risk neighborhoods or groups
 o Use existing data (Master Plan, other SJ actions)
 o Use census data (pre-1978 housing, % low English, etc.)
- 2. Consult groups re barriers to screening
- **3**. Reduce barrier(s)
 - Neighborhood screenings
 - Free transportation
 - o Translations in appropriate languages



- 1. Consult local pediatricians, school nurses, & other healthcare providers re constraints/needs
- 2. Conduct outreach to providers, e.g.:

o Send annual letter w/screening questions



Only municipalities w/ population > 20,000

• Calculate municipal rate of BLL screening

• Publicly report rate annually



- Purpose: promote culture & practice of *healthy homes & lead poisoning prevention* across all departments & contracted services
- Three independent action "tiers"
- Tier 2 required for Gold Star in Health
- Coordinate through multi-stakeholder group
 - Local Boards & Depts of Health (municipal &/or county/regional), housing, code enforcement
 - Partners: community-based groups, Landlord & tenants' associations



Training

• Training must cover:

o environmental home health hazards,

o how to address them,

o How/where to refer follow-up

 Leading examples: <u>Center for Energy and</u> <u>Environmental Training (CEET)</u>, Isles

o Healthy Homes for Community Workers

o 7 hour in person or online self-paced



Option 1: Mandate healthy homes training for all housing, health, & environmental health inspectors employed or contracted by municipality

o Inspectors work for muni >> Resolution, ordinance

 Inspectors contracted >> MOU or annual services contract

Option 2: Submit certificates for each training completed



- Policy on lead & healthy homes inspection protocol
 - housing & health inspectors apply a healthy homes checklist to conduct rapid assessment for significant health hazards in every residence they inspect
 - Inspectors must provide info on how to remediate hazards & refer to appropriate departments
- 2. Enact by resolution, ordinance or MOU/shared services agreement



Option 1: Municipality offers voluntary healthy home evaluations w/info on how to refer & remediate hazards

Option 2: Municipality offers free testing or test kits for lead in paint chips/dust &/or exterior soil



Q&A



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- Policy on interdepartmental (housing, health, code enforcement) sharing of data related to lead hazards in buildings
- Regular meetings to review housing hazards data
- Report *property-linked* data in accessible database or spreadsheet
- Interdepartmental group annually presents summary of data, trends & implications to governing body



What data to include?

• Required data:

- o building ownership and tax status
- o lead & other housing inspection dates
- o findings of lead contamination or code violations
- o complaints or summons
- o certificates of occupancy/habitability

Beneficial additional data:

o Compliance, lead-safe clearance



1. Form Lead-safe Action team (internal & external)

2. Collect & analyze data

- o Experiential data (quantitative recommended for extra points)
- o Most important pathways of lead exposure
- What populations/areas most vulnerable, hotspots
- o Challenges, coordination issues

3. Develop Lead Strategy

- Select SJ actions & other municipal interventions (see matrix)
- Use evidence to focus resources on most at-risk groups/areas
- o Timeline
- o Responsible parties



4. Present strategy

- o To public for input &
- To governing body & local board of health for input & endorsement

5. Lead-safe Action team meets 2x/year

Monitors & troubleshoots strategy
Adapts strategy as needed
Report annually to governing body &/or LBOH



- Expand >> quantitative & geographic (spatial) data
- Indicators of lead exposure risk at census tract or building/address level
 - Age of structures, children < six, poverty
 - Racial & ethnic composition, English proficiency
 - Link to lead & housing hazards database building-level data
- Use data to ID & prioritize high-risk areas, track outcomes



Q&A



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Questions or Comments?

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Upcoming webinar: Health Gold: New Actions to Increase Access to Healthy Food Oct. 12, 2 – 3:00 PM

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