

# IMPROVING KIDS' ENVIRONMENT



## Lead Basics and the Renovation, Repair & Painting Rule for Child Care Facilities

**Healthy Homes & Child Care Conference**

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Improving  
Kids'   
Environment



## Outline

- Video: The Faces of Lead Poisoning
- Dangers and sources of lead poisoning
- Protecting children in your care
  - EPA Renovation, Repair and Painting Rule
  - Blood-lead testing
  - Parent education
- Useful resources and links



## Video





## Lead Poisoning is Still a Problem

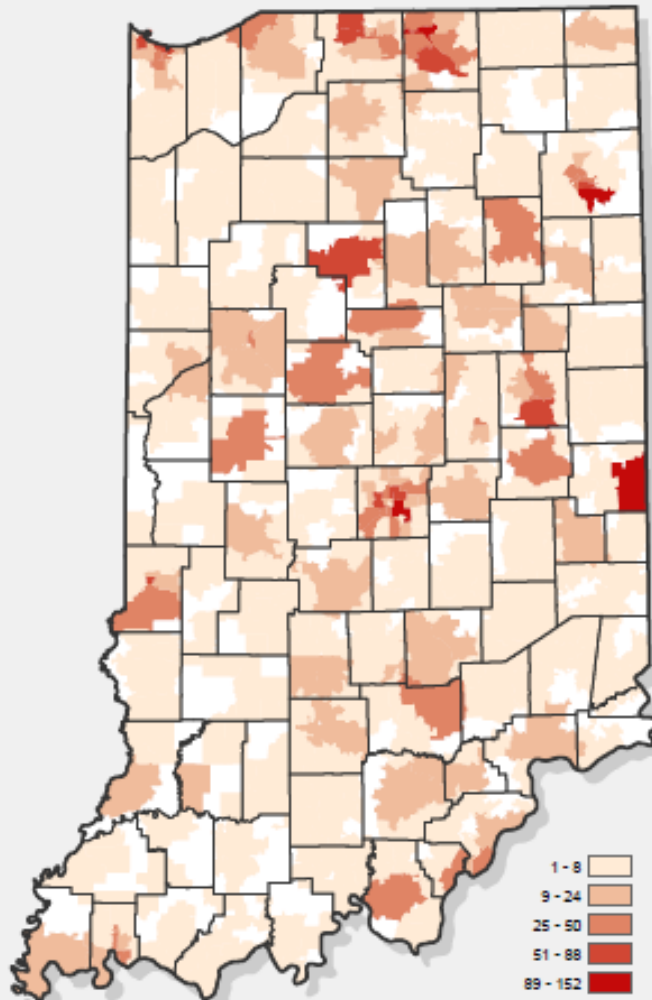
- 1.4% of children screened in Marion County in 2006 had unacceptably high levels of lead in their blood - 40% higher than national average
- Rates higher in some neighborhoods
  - 8-9% of blood tests in Martindale-Brightwood show elevated lead levels
- Lead poisoning found throughout Indiana



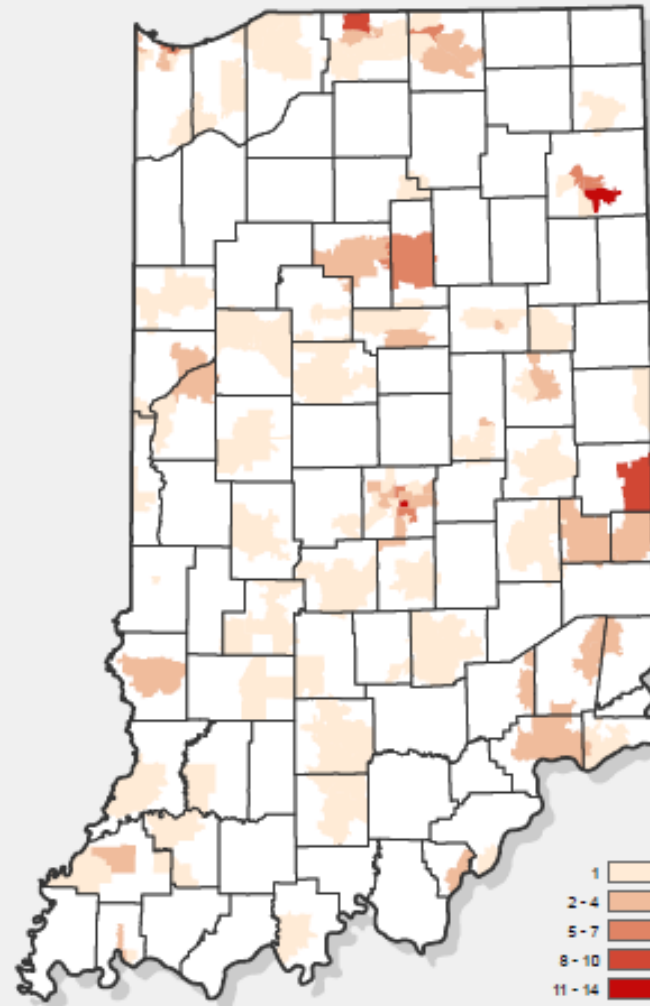
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Total 2009 Tests with 5.0 to 9.9 BLL by Zip Code



Total 2009 Tests with  $\geq 10.0$  BLL by Zip Code



BRC PH3, 8/2011

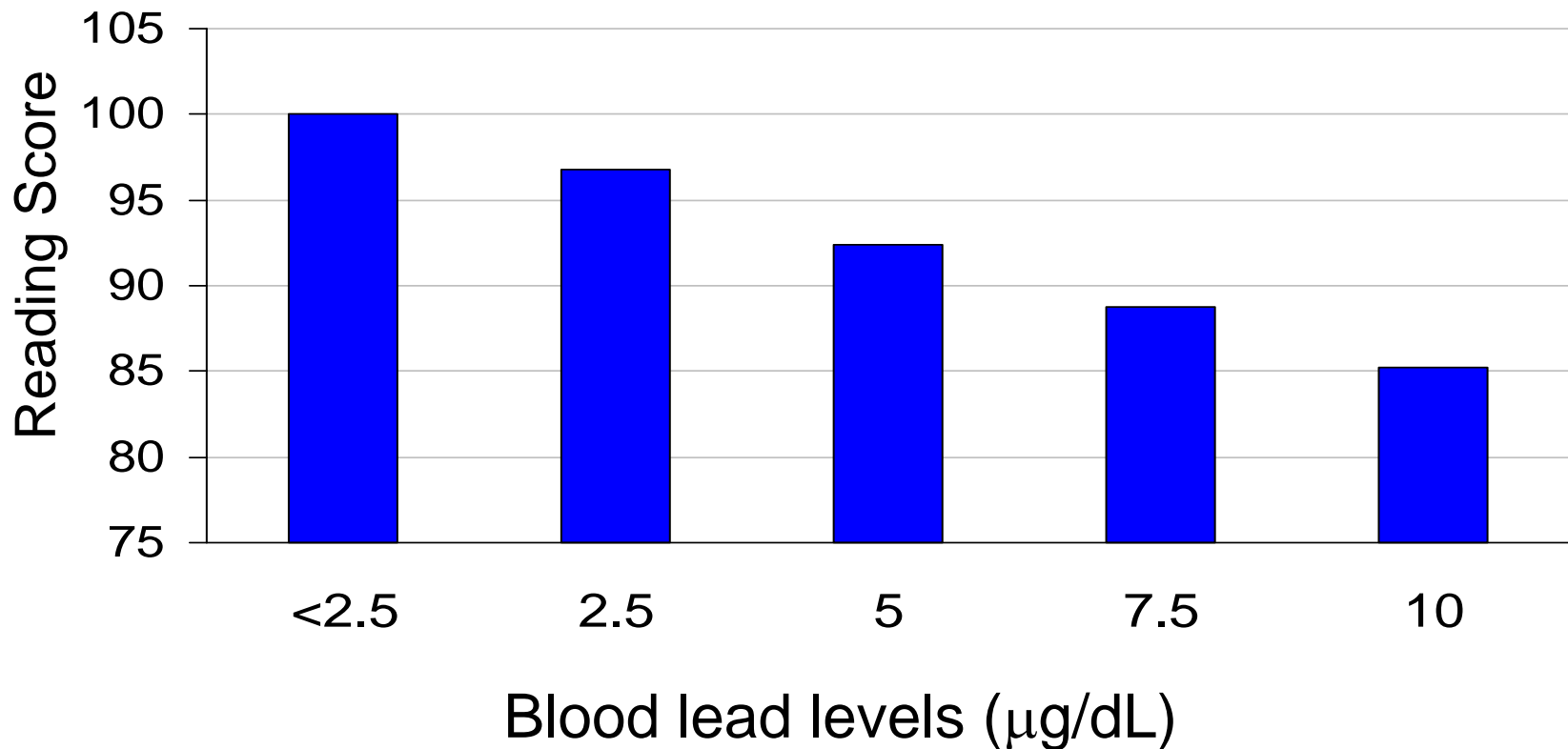


# Lead's Impact on School Success

- Even low levels of lead in a child's body can cause:
  - Learning disabilities, attention deficit disorder, and decreased intelligence
  - Speech, language, and behavior problems
  - IQ scores 4-7 points lower than their peers
- No known “safe” level of lead in a child's blood

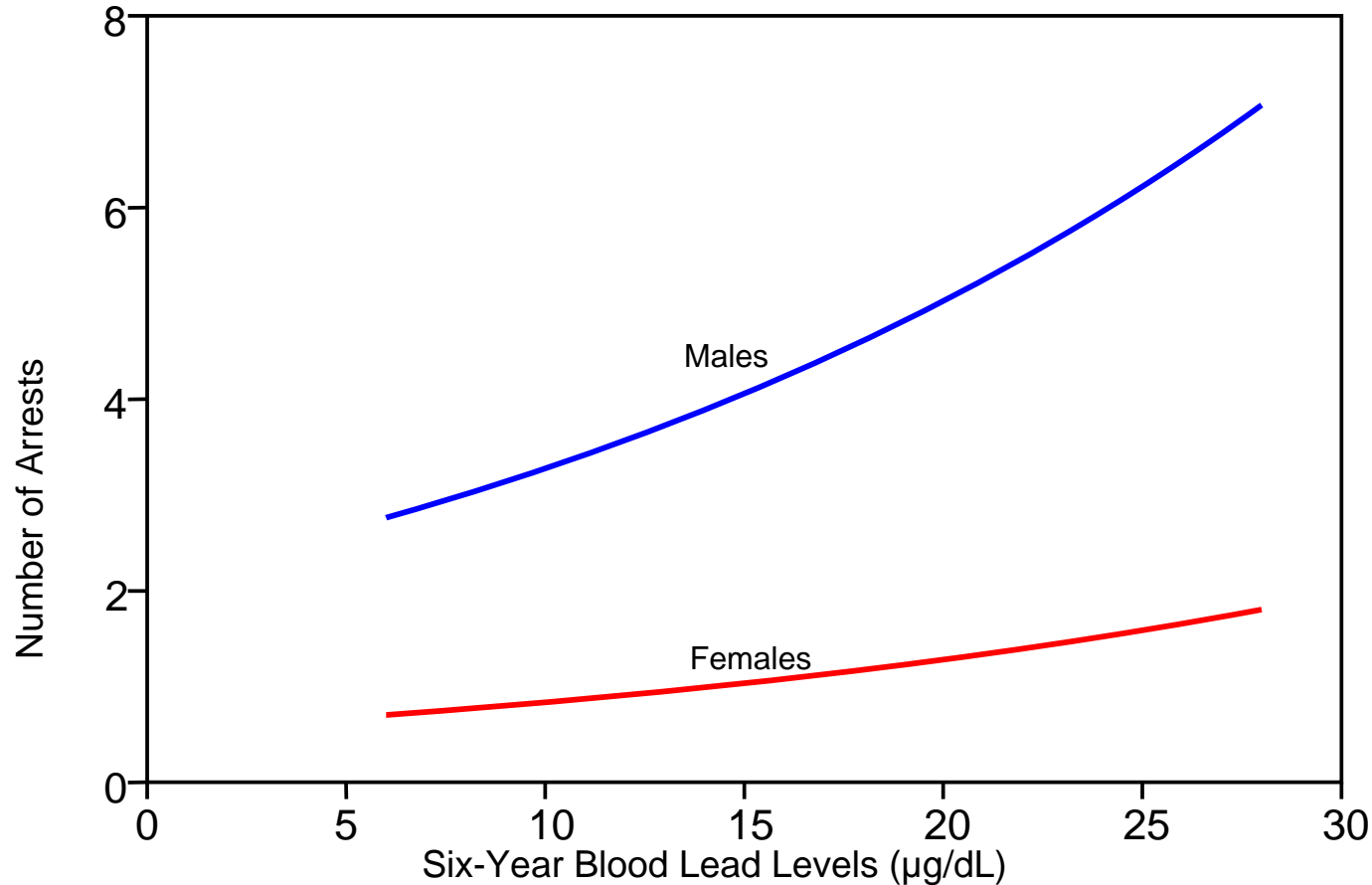


## Lead-related Reading Deficits in U.S. Children





## Number of Arrests by Childhood Lead Exposure



\* Accounting for birthweight, age, prenatal tobacco exposure, maternal age at delivery, maternal IQ, maternal arrest history, HOME Inventory.



## Lead Can Also Affect Adult Workers

- Regular exposure can cause:
  - Kidney failure
  - Anemia
  - Reproductive system impairment (loss of libido)
  - Cancer
- Workers' families can be exposed when lead dust comes home on shoes and clothing



## Sources of Lead

- Most common: Peeling or damaged paint in older homes or child care facilities & dust from renovation projects
- Lead in urban soil
  - Along roadways
  - Industries
  - Chipping paint
- Lead in jewelry, candy and toys from outside U.S.





## Protecting Children In Your Care

- Requirements for child care facilities
  - U.S. EPA Renovation, Repair and Painting Rule
- Helping families protect their children
  - Blood-lead screenings
  - Parent education with IKE video and brochures



# U.S. EPA Renovation, Repair and Painting Rule

- 1992: Lead Poisoning Prevention Act mandated that the U.S. EPA and HUD take actions to limit the amount of dust created and left during construction at target housing and child-occupied facilities.

- HUD rules went into effect in 2000

- EPA rules first passed in 2008, went into effect in April 2010





## Renovation Produces Lead Dust

### ■ Renovation Studies (2000)

- Typical renovation activities that disturb lead-based paint produce hazardous quantities of lead dust.
- Typical clean-up methods (broom and shop vacuum) do not eliminate lead dust hazards.
- Renovations can cause elevations in children's blood-lead levels.



## The EPA rules apply to...

- Renovations, repair or painting done in pre-1978 housing, preschools, child care centers or other child-occupied facilities
- Companies that must comply:
  - Renovators
  - Painters
  - Electricians
  - HVAC installers
  - Window & door replacement firms
  - Home entertainment system installers
  - And others...





## The rules apply if the work...

- Is in a pre-1978 home or “child-occupied facility”
  - All pre-1978 homes
  - A child-occupied facility is a building, or portion of a building, constructed prior to 1978, visited regularly by the same child, under 6 years of age
  - Includes child care centers, preschools, and kindergarten classrooms, restrooms and cafeterias
- Disturbs more than 6 square ft. of painted surface per room inside, or 20 square ft. outside
- Involves window replacement or demolition, regardless of surface disturbed



## Exceptions to the Rule:

- Renovations that affect only components that have been tested and are free of lead-based paint.
  - Must be written finding by certified inspector, risk assessor or renovator
- Activities that disturb less than 6 ft<sup>2</sup> interior or 20 ft<sup>2</sup> exterior. But NOT: window replacement, demolition and projects involving prohibited practices.
- Work done by individuals in housing they own or occupy.



## Penalties

- Potential EPA fines against the contractor: up to \$37,500 for each violation on each job.
- Potential liability for child care providers in civil suits if your facility does not hire a certified contractor.





# All Work Must Be Conducted...

- Under the supervision of a Certified Lead Renovator (CLR);
- With workers trained either as CLRs or trained in lead-safe work practices by a CLR;
- By firms licensed as Certified Renovation Firms;
- Using lead-safe work practices, and
- With verification that the site is properly cleaned up.
  - The renovator is required to warn the owner/occupants of the hazards of renovation disturbing lead-based paint and to keep extensive records.



## A Certified Lead Renovator is...

- An individual
- Instructed in an EPA-approved training curriculum





# A Certified Renovation Firm is...

- A company
- Certification is issued by the EPA
- To become certified, a firm must file an EPA application form, pay a processing fee, and verify it will comply with EPA laws including using a certified renovator to supervise the work
- A self-employed individual can be a Certified Renovation Firm





## What are Lead-Safe Work Practices?

- Contractors must use lead-safe work practices and follow these procedures:
  - Inform occupants of the work
  - Contain the work area
  - Minimize dust
  - Clean up thoroughly





## Notification

- Before starting, the contractor or property owner is required to have tenants sign a pre-renovation disclosure form.
- Contractor must make renovation information available to the parents or guardians of children under age six that attend child care facility
- Contractor must provide to pre-1978 child care facilities a copy of EPA's pamphlet: *Renovate Right: Important Lead Hazard Information for Families, Child Care Providers, and Schools*.





## Contain Work Area

- Firms must post signs clearly defining the work area and warning occupants and other persons to remain outside of the work area.
- Signs should be in the language of the occupants.
- Prior to the renovation, the firm must contain the work area so that no dust or debris leaves the work area while the renovation is being performed.



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## Minimize Dust

- Goal: prevent dust creation
- These are prohibited during a renovation:
  - Open-flame burning or torching of lead-based paint;
  - Use of machines that remove lead-based paint through high speed operation such as sanding, grinding, power planing, needle gun, abrasive blasting, or sandblasting, unless such machines are used with HEPA exhaust control; and
  - Operating a heat gun on lead-based paint at temperatures of 1100 degrees Fahrenheit or higher.





## Interiors

- Remove or cover all objects from the work area.
- Close and cover all ducts in the work area.
- Close or cover all windows and doors in the work area.
- Cover the floor surface of the work area with plastic sheeting.
- Ensure that all personnel, tools and other items including waste are free of dust and debris when leaving the work area.





## Exteriors

- Close all doors and windows within 20 feet of the renovation
- Cover the ground with plastic sheeting extending out from the edge of the structure a sufficient distance to collect falling paint debris.





## Clean Up Thoroughly

- Waste from renovation activities must be contained to prevent releases of dust and debris before the waste is removed from the work area for storage or disposal.
- All objects and surfaces in the work area must be cleaned using specific methods (wiping with wet disposable cloths, etc.)
- Cleaning verification required





## Cleanup Standards

- Visual inspection and...
- Cleaning verification (by a certified renovator)
  - or
- Dust clearance exam (by certified inspector, assessor or technician)





# How Can You Protect Children?

- All children should be tested at 1 and 2 years old if they spend time in pre-1978 buildings, live in urban areas or have parents who work with lead
- Ask your local health department if they will do a blood-lead screening at your facility
- Help educate parents: IKE CD and DVD contain videos and materials



## Lead Poisoning Prevention: A Guide for Indiana Homeowners

Are you planning to do work on a home built before 1978? It could have lead-based paint.

Read this pamphlet to learn how to protect your family from lead poisoning.

Renovate Right! Hiring a contractor? Federal law requires that contractors performing renovation, repair and painting projects that disturb lead-based surfaces



## Lead Poisoning Prevention: Your Rights as an Indiana Renter

If you rent a home or apartment built before 1978, it could have lead-based paint.

Know your rights as a renter in Indiana:

- If you rent pre-1978 housing and children might live or visit, your landlord must inform you about any known lead-based paint and warn you about potential lead hazards.



...don't follow this law may face... violation... ment can... at



## Study Guide

### Lead Paint: Indiana's Poisoned Children Discussion Guide

#### How to Use This Discussion Guide

Lead poisoning is the number one preventable environmental cause of illness in children.

Childhood lead poisoning has decreased since the 1970s, when lead was banned in residential paint and reduced in gasoline. However, it is still a problem in many Indiana communities with homes built before 1978, where old lead paint may be deteriorating and creating dangerous lead dust.

*Lead Paint: Indiana's Poisoned Children* is an award-winning documentary that tells the story of four Indiana families affected by lead poisoning, and includes tips on how to prevent lead poisoning. This Discussion Guide can be used by individuals and small groups to learn about lead poisoning and how to prevent it, using the lessons learned while watching the film.

You can watch the video from start to finish, or pick a section that is most useful for you or your group.

#### Suggested Audiences:

- Parent education and support groups
- Childcare facilities
- Homebuyer education classes
- Homeowners
- Parents of young children



#### For Discussion Leaders

These blue boxes appear throughout the Leader's Discussion Guide to help discussion leaders work with small groups to view all or parts of the film. Use as many of these questions as you like to engage your group to think about the film.



## Useful websites

- Improving Kids' Environment: [www.ikecoalition.org](http://www.ikecoalition.org)
- [www.leadfreekids.org](http://www.leadfreekids.org)
- EPA "RRP" Home Page:  
<http://www.epa.gov/lead/pubs/renovation.htm>
- EPA List of Certified Renovators:  
[http://cfpub.epa.gov/flpp/searchrrp\\_firm.htm](http://cfpub.epa.gov/flpp/searchrrp_firm.htm)



# www.leadfreekids.org

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Prevention

*I am a...*



## Educator or Child Care Giver

More than 53 million children and about 6 million adults spend a significant portion of their days in more than 120,000 public and private school buildings. [Many of these were built before 1978 and may contain lead-based paint.](#) Exposure to lead and other toxins in schools can inhibit learning and pose increased risks to the health of students and staff.

Teachers and child care providers are critical partners in the fight to eliminate lead poisoning. Learn about what educators and child care providers can do to prevent childhood lead poisoning.

### Steps educators can take to prevent childhood lead poisoning

1. [Learn about lead](#) and simple steps that prevent lead poisoning
2. **Teach students** about sources of lead and ways to prevent exposure using [lessons](#), [classroom exercises](#) (PDF, 2pp, 95K), and [songs](#) (PDF, 2pp, 74K).
3. **Involve parents** by providing useful information about [lead poisoning prevention](#)
4. **Ask building managers to check your building** to find out whether your school or child care facility has lead in the paint, soil, playground equipment, or drinking water, or whether the building is being repaired or renovated



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