

ALABAMA PUBLIC HEALTH

ELEVATED LEAD IN CHILDREN - THE POTENTIAL FOR HARM AND OUR RESPONSE TO THE PROBLEM

Steven McDaniel
Program Director, IAQ Lead



PRIMARY DUTIES:

- The Indoor Air Quality/Lead Branch provides information on issues related to indoor air quality, lead-based paint, and other lead hazards.
- The primary focus of the lead hazard program is to enforce the state regulations promulgated under the Alabama Lead Reduction Act of 1997.



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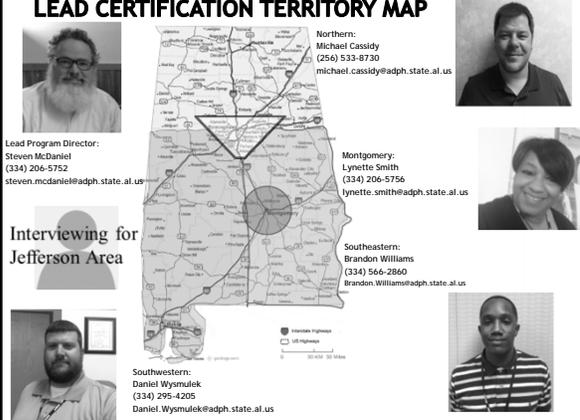
LEAD REDUCTION ACT OF 1997

- These rules require individuals and firms that are engaged in lead identification and risk assessment, planning, and design of lead abatement projects, and lead-based paint removal of pre-1978 housing and child-occupied facilities to be trained and certified to perform according to established safe work practice standards.



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LEAD CERTIFICATION TERRITORY MAP



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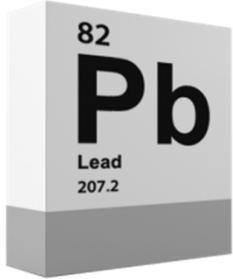
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Interviewing for Jefferson Area

OBJECTIVES

- What is Lead
- Where is Lead Found?
 - Identify environmental sources of lead
- Why are we so concerned about Lead?
- How can you be exposed to Lead?
- There is no completely safe "Do-it-Yourself" method to remove lead-based paint.
- Lead Poisoning is preventable

LEAD



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WHAT IS LEAD?

- Chemical element
 - Pb: Latin "Plumbum"
 - Plumber, Plumb bob
 - Heavy, soft (malleable) metal





WHERE IS LEAD FOUND?

- ◉Lead is a naturally occurring metal found in the earth's crust. Lead can be found many places, much because of human activity through burning fossil fuels, mining, and manufacturing.
- ◉Lead can be found in all parts of our environment - the air, the soil, the water, and even inside our homes.





LEAD

- ◉After what you just heard, can you name some materials in and around a house that might contain lead?



LEAD

THERE IS NO COMPLETELY SAFE "DO-IT YOURSELF" METHOD TO REMOVE LEAD PAINT



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ABATEMENT AND PREVENTION

- ◉ Actions which can be taken to prevent children's exposure to lead:
 - **RENOVATION:** Hire a Certified Lead Firm to perform all renovations with home containing lead based paint.
 - Maintain painted surfaces in good repair, using lead safe practices.
 - **Homeowner / Tenant:** Mop floors and use damp wipes around windows and doors at least twice a week to remove lead dust from surfaces
 - Wash hands before naps, after play, and before eating
 - Clean toys and wash pacifiers in warm soapy water regularly
 - Place furniture in front of windows to discourage chewing or mouthing of windowsills



8 REASONS WHY YOU SHOULD HIRE A LEAD-SAFE CERTIFIED RENOVATION CONTRACTOR TO HELP PREVENT:



Using a lead-safe certified renovation contractor is the best way to ensure that even a small amount of lead dust is removed from your home. Make sure you renovate right with a contractor that is Lead-Safe Certified.

For more information, visit alabamapublichealth.gov/lead or call 1-800-819-7544

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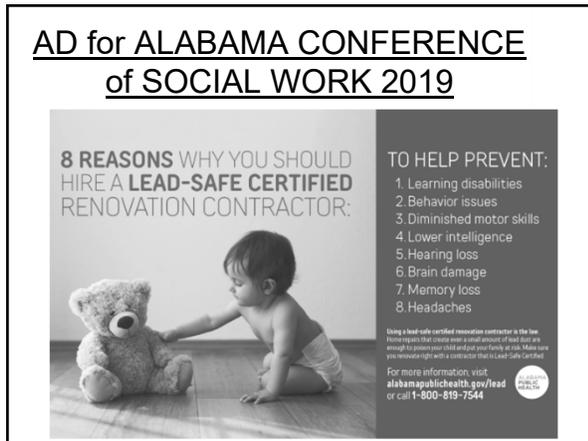
Marketing 2018-2019



Parents Magazine covers from various issues, including 'Parents December 2018', 'Parents 90th Anniversary', 'Parents February 2019', and 'Parents October 2018'.

AD for ALABAMA CONFERENCE of SOCIAL WORK 2019

8 REASONS WHY YOU SHOULD HIRE A LEAD-SAFE CERTIFIED RENOVATION CONTRACTOR:



TO HELP PREVENT:

1. Learning disabilities
2. Behavior issues
3. Diminished motor skills
4. Lower intelligence
5. Hearing loss
6. Brain damage
7. Memory loss
8. Headaches

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EXPOSURE TO LEAD-BASED PAINT:

- Low concentrations can affect:
 - Central nervous system
 - Kidneys
 - Reproductive system
- Leading to:
 - Learning disabilities
 - Behavioral problems
 - Decreased stature and growth
 - Impaired hearing acuity

Frequently no obvious symptoms until later, when neurological effects become evident.

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IS YOUR FIRM LEAD-PAINT CERTIFIED?

RENOVATE RIGHT!



IT'S THE LAW! STATE REGISTRATION IS A THREE-STEP PROCESS. For more information, visit renovatealabama.com or call 1-800-819-7544.

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IS YOUR FIRM LEAD-SAFE CERTIFIED?

RENOVATE RIGHT!



IT'S THE LAW! LEAD POISONING IS ONE OF THE MOST COMMON AND PREVENTABLE PEDIATRIC HEALTH PROBLEMS TODAY.

For more information, visit alabamapublichealth.gov/lead or call 1-800-819-7544

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LEAD POISONING DANGERS

SIGNS OF LEAD POISONING:

Mild Side Effects include:

- Fatigue
- Muscle Pain
- Abdominal Pain

More Serious Symptoms include:

- Severe Headaches
- Tremors
- Nerve Damage
- Seizures
- Coma
- Death

LEAD IN THE WORKPLACE:
More than 3 million workers in the United States may be exposed to lead on the job.

The following industries face an increased risk of lead poisoning:

- Battery Manufacturing
- Construction
- Demolition
- Jewelry
- Painters
- Pipe Fitters
- Welders

3 MILLION WORKERS

DEFECTIVE PRODUCTS:
Products must conform to federal lead paint standards. Every year thousands of children's toys are recalled because they do not meet federal lead paint standards. Toys with lead are especially dangerous because children often suck or chew on them.

LEAD PAINT:
Lead paint was used in homes until 1976. More than 30 million homes may still contain lead paint. Deterioration of lead paint can create lead paint chips and lead dust. Renovations projects in old houses can create lead paint dangers.

LEAD IN PLUMBING MATERIALS:
For many years, pipes, pipe fittings, and soldering contained lead. "Tap water" may contain lead. "Tap water" may contain lead. "Tap water" may contain lead. As plumbing materials corrode, lead particles can be released into the water.

DANGERS OF LEAD POISONING TO CHILDREN AND PREGNANT WOMEN:
Exposure to lead in the womb and lead poisoning in children can have serious mental side effects.

- Hard Attention/Concentration
- Communication Problems
- Hearing Loss
- Learning Disabilities
- Lack of Motor Skills
- Memory Problems
- Lower IQ

38 MILLION HOMES may still contain Lead Paint

Call d'Oliveira & Associates at 1-800-992-6678 for a free legal consultation.

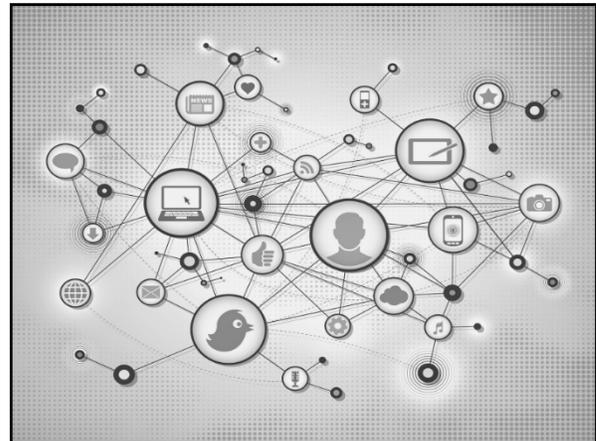
ROUTES OF EXPOSURE

- Ingestion
 - Hand-to-mouth activity
 - Attraction to sweet taste of lead paint chips
- Inhalation
 - Breathing lead contaminated air or dust
- Exposure via placenta
 - Intrauterine exposure due to mother's past or present exposure



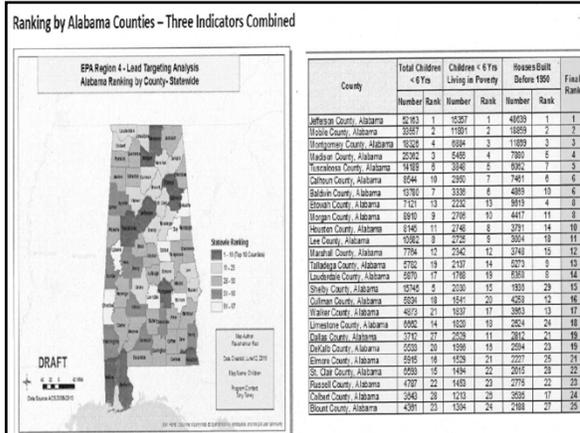
WHAT'S THE MATTER WITH LEAD?

- Highly toxic poison
- Accumulates in body tissues
- Harms many body systems
 - blood
 - nerves, brain
 - Reproductive

NEED MORE TESTING FOR LEAD POISONING

- Lead poisoning can only be confirmed through direct blood testing, preferably from a venous blood lead level
- Based on current CDC recommendations, the upper reference value for action is defined as having a blood lead level $\geq 5 \mu\text{g/dL}$
- There is no safe level of lead identified in humans



IN ALABAMA THE PRIMARY SOURCE OF LEAD

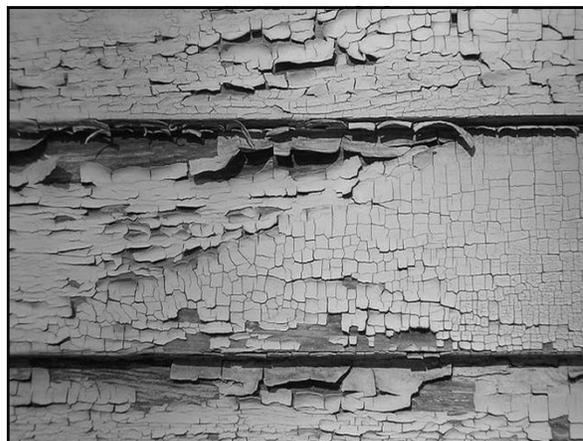


PRIMARY SOURCE OF LEAD

- Lead-based paint
 - 1978: Lead-based paint for houses banned
 - 2016: 38 million housing units in U.S. have lead-based paint and dust
 - 20% of these are home to one or more young children
- Lead-based paint deteriorates over time due to:
 - Moisture
 - Normal wear and tear
 - Disturbance during renovation

LEAD-BASED PAINT

- Flakes or chips from lead-based paint deteriorate into dust that cannot be seen with normal vision
- Lead-based paint does not pose a problem if:
 - It is intact, encapsulated, enclosed, or completely covered with non lead-based paint
 - It is well maintained and the surfaces are kept clean







WHAT CAN YOU DO ABOUT LEAD-BASED PAINT?



- Test the paint
- Replace the painted item
- Cover over lead-based paint
- If it's necessary to strip lead-based paint, remove the items from the home

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CERTIFIED LEAD CONTRACTORS www.alabamapublichealth.gov/lead

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Promote, protect, and improve the health of individuals and communities of Alabama

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Lead Abate/RRP Contractors Certification

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Renovation Certification

State Registration for a Renovation Firm is a Three (3) Step Process

1. Successfully completing training from an Alabama Approved Renovator Training Provider.
2. Register and obtain accreditation as an individual using the Safe State Lead Renovator Individual Application.
3. Get your firm certification/license with the Alabama Department of Public Health using the Application for Certification of Lead/Renovator Contractors.

Chapter 420-3-29 - Renovation Contractor Certification

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