



What You Need To Know About Lead Poisoning

Despite laws established in the 1970s to make people aware of the dangers of lead and its poisonous effects, lead poisoning in children remains a common, yet preventable, environmental health problem in the United States. By understanding, identifying, and safely removing sources of lead, we can ensure the long-term health of children and prevent its devastating and irreversible effects.

What is lead poisoning?

Lead is a toxic metal used in a variety of products and materials, including paint, vinyl mini-blinds, pipes, leaded crystal, dishware, and pottery coatings. When lead is absorbed into the body it can cause serious damage to vital organs like the brain, kidneys, nerves, and blood cells. Lead poisoning is especially harmful to children under the age of six.

What are the health effects of lead poisoning in children?

Lead interferes with the development and functioning of almost all body organs, particularly the kidneys, red blood cells, and central nervous system.

Lead poisoning is much more serious when children are exposed to lead. Since their bodies are not fully developed, lead poisoning can cause:

- ▶ **Brain, liver, and kidney damage;**
- ▶ **Slowed development;**
- ▶ **Learning or behavior problems;**
- ▶ **Lowered intellect (or IQ);**
- ▶ **Hearing loss; and**
- ▶ **Restlessness.**

What are the symptoms of lead poisoning?

Most children with lead poisoning do not show any outward symptoms unless blood-lead levels become extremely high; consequently, many cases of children with lead poisoning go undiagnosed and untreated. However, some symptoms of poisoning include:

- ▶ **Headaches;**
- ▶ **Stomachaches;**
- ▶ **Nausea;**
- ▶ **Tiredness; and**
- ▶ **Irritability.**

Because the symptoms of lead poisoning are similar to those of flu or viruses, the only way to know if a child is poisoned is to have a doctor perform a simple blood test.

Blood Testing: The only way to detect lead poisoning is by performing a simple blood test. The bodies of children six-months to two years of age absorb more lead; thus, testing is increasingly important for their health. Nevertheless, all children under the age of six should have their blood-lead levels tested at their regular pediatrician's office or at a public health clinic, even if nothing is apparently wrong with their health.

What are the main sources of lead?

Lead hazards can be found in several places inside and outside of your home, including:

- ▶ **Old Paint:** Lead-based paint, most often found in homes built before 1978, is unsafe if it peels, chips, cracks, or chalks. Since babies and young children often put their hands and other objects in their mouths, they are likely to swallow lead dust or chew paint chips.
- ▶ **Lead Dust:** This harmful, invisible dust is created when windows, doors, edges of stairs, rails, or other surfaces with lead-based paint wear down from repeated friction, such as opening or closing windows or doors. Children are most often poisoned by consuming lead dust through normal hand-to-mouth activity. Pregnant women who breathe in high levels of lead dust can transmit lead to their unborn children, causing serious damage.
- ▶ **Important:** Lead dust can spread throughout a home when walls or other painted surfaces are sanded, scraped, or torn down. Only trained professionals should safely remove old paint surfaces in a home.
- ▶ **Soil:** Soil surrounding homes may be contaminated from chipping or flaking exterior lead-based paint. While playing outside, especially on bare soil, children can accidentally swallow the contaminated soil, or track it indoors on carpets and floors where they can come into contact with it.



For more information about lead poisoning, visit EPA's Web site at www.epa.gov/lead or call The National Lead Information Center at 1-800-424-LEAD (5323).



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- ▶ **Drinking Water:** Lead pipes placed in homes before 1930 are likely to contain lead, which is released into drinking water as it passes through the old pipes. Between 10 and 20 percent of a non-lead poisoned child's total lead contact comes from drinking water.
- ▶ **Food:** Lead can leech into food or drinks, which are stored in imported ceramic dishes or pottery.

Other sources of Lead:

- ▶ **Workplace exposure:** Parents who work in lead-related industries (namely painting, automotive, or recycling industries) or use lead for hobbies (such as for stained glass windows).
- ▶ **Home remedies:** Aragon, greta, or pay-loo-ah.
- ▶ **Cosmetics:** Kohl and kajal.

How can lead poisoning be prevented?

Since treatment options for lead poisoning are limited, it's best to prevent lead poisoning before it has a chance to occur. Lead poisoning is preventable with proper:

- ▶ **Nutrition:** Serve children foods with a high content of *iron* (such as eggs, cooked beans, or red meats), *calcium* (such as cheese, yogurt, or cooked greens) and *vitamin C* (such as citrus fruits, green peppers, or tomatoes). Adequate intake of these nutrients minimizes lead absorption in children's bodies.
- ▶ **Housekeeping:** Teach and practice healthy home habits, such as hand-washing before eating and sleeping, shoe removal, washing children's toys or other chewable surfaces, purchasing "lead-free" mini-blinds, and wet mopping and drying floors and surfaces. Hire a certified professional to safely remove lead sources from a home. Make sure children and pregnant women do not stay inside a home when renovations are underway.
- ▶ **Personal Care:** Wash your hands and your children's hands frequently, especially before eating and sleeping.



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Potential Sources Of Lead

○ Ingested (Eaten):

- Lead based paint on interior wall, windowsills, floors, furniture, exterior door frames, window wells, fences, and house siding (painted before 1978)
- Unglazed pottery
- Cigarette butts and ashes
- Water from leaded pipes
- Food or liquids from cans soldered with lead
- Household dust
- Dirt near houses that have chipping or flaking paint, or paint flaking off siding
- Soil along heavily trafficked roadways
- Food grown in contaminated soil
- Some house and car keys
- Metal toy jewelry
- Candy imported from Mexico
- Folk remedies such as Greta, Azarcon, Daw Tway, and Sindoor
- Antique toys and toys imported to the US

○ Inhaled (Breathed):

- Burning of leaded objects, such as automobile batteries
- Sanding and scraping of surfaces painted with lead-based paint
- Cigarette smoke
- Dust in poorly cleaned houses
- Contaminated clothing and skin of household members who work in lead-filled environments
- Lead fishing sinkers
- Bullet loading supplies
- Lead wicked candles
- Artificial Turf

Methods to Reduce or Eliminate Lead in the Home

- **Old Paint:**

- Keep paint chips cleaned up. Wipe them up with a damp paper towel; do not vacuum them.
- Repaint with unleaded paint
- Damp dust all hard surfaces with the following solution:
2 tablespoons automatic dishwasher detergent mixed in one quart of water

- **Old Pipes:**

- Run the cold water at least one minute before using it if the water has not been used in 6-8 hours.
- Do not use hot tap water for cooking.

- **Canned Food:**

- **DO NOT** store extra canned food in the opened can. Store leftovers in glass or plastic containers.

Lead Testing Timeframe

And More Information

- **When should children be tested?**

- Every child in New York must be tested at 1 year and again at 2 years of age.
- Risk for lead exposure should be done at each well-child visit or at least annually for each child six months to six years of age.
- Talk with you doctor about having your child tested or contact your local health department.

- **Where can I find out more information?**

- On the web:
www.health.ny.gov/environmental/lead
www.cdc.gov/lead/
www.epa.gov/lead
www.fda.gov