# Lead Poisoning and Pregnancy: Understanding Risks and Preventing Harm

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#### **Objectives**

- Demonstrate the harm of lead exposure during pregnancy
- Explore the health outcomes of lead exposure
- Appreciate the role local health department plays in improving outcomes for pregnant women who have been lead exposed
- Discuss current lead poisoning prevention efforts and resources







## **Review of Contents**

#### **Enclosures**

- Provider Letter
- IDPH Documents and Forms
- Lead and Pregnancy Education Resources (English/Spanish)
- Toxic Treats Handout (English/Spanish)
- Consumer Products Handout
- Lead Hazard Reduction Grant Program flyer (English/Spanish)

#### **IDPH Documents**

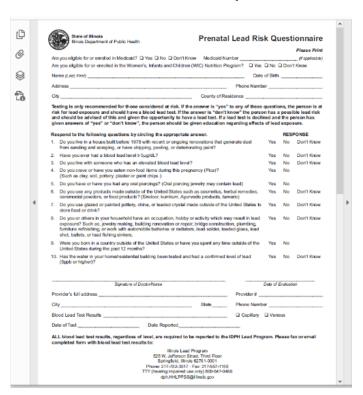
- Prenatal Lead Risk Questionnaire Form
- Prenatal Lead Risk Evaluation Questionnaire (PLRQ) Algorithm
- IDPH Breastfeeding and Lead Algorithm
- Infant and Neonate Evaluation & Testing Algorithm
- Childhood Lead Risk Questionnaire (CLRQ) Algorithm
- IDPH Evaluation and Testing Recommendations for Pre-conceptual counseling, Pregnancy, and Breastfeeding Factsheet
- Report of Blood Lead Test Result Form



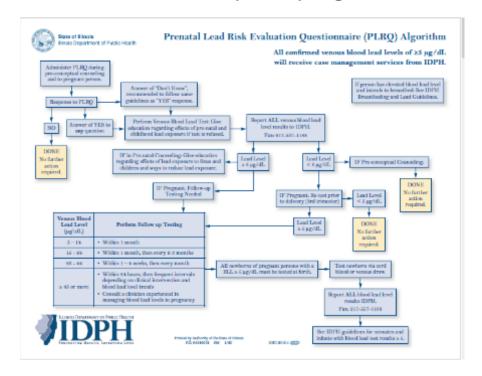


## **Key Documents**

#### **Prenatal Lead Risk Questionnaire**



# Prenatal Lead Risk Evaluation Questionnaire (PLRQ) Algorithm





## Lead and Pregnancy Dos and Don'ts







### **Lead-based Paint Exposure**

- Lead-based paint is one of the most common causes of lead poisoning
- Lead-based paint is present in 35% of homes nationally
- 65% of Illinois homes were built before 1978 including 81% of Chicago homes.
- Lead-based paint remains present in **59% of homes** built before 1978 in Cook County.







U.S. Department of Housing and Urban Development Office of Healthy Homes and Lead Hazard Control. *American Healthy Homes Survey:* Lead and Arsenic Findings. April 2011.

Illinois Department of Public Health. Lead Poisoning Prevention. Fokum, F., Simpson, E., McAfee, K., & the Illinois Department of Public Health. *Illinois Lead Program 2015 Annual Surveillance Report*. Dec 2016.



### **Lead Exposure During Pregnancy**



Lead can also be transferred to an unborn baby during pregnancy.

A newborn exposed to lead before birth may:

- Be born prematurely
- Have a low birth weight
- Have slowed/delayed growth



"Preventing and Testing for Childhood Lead Poisoning: A Reference Guide for Physicians and Health Care Providers." Illinois Department of Public Health.



# Imported Products



- Candies, especially from China and Mexico
- Pottery, especially from Mexico
- Makeup- Kohl, kajal, surma
- Spices turmeric
- Folk or alternative medicines



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## Recent changes in State law

- All pregnant women with EBLs >5 μg/dL receive nurse case management and lead risk assessments
- Old law = services did not begin until EBLs were >10 μg/dL
- All blood lead tests **>5 μg/dL** must be reported within 24 hours
- Reducing the intervention level in IL is the first step to finding lead exposed pregnant women and intervening sooner than in the past.
- While this is great, it is a first step. No lead level is safe, and we must continue to work to PREVENT lead exposure, not just react after it has occurred.





## CCDPH multi-disciplinary lead team

#### Lead risk assessments to identify home lead hazards **Environ**mental Mitigation notice creation and follow up, including monitoring completion of Health work by home owners not in grant program Unit Clear all properties once hazards remediated Coordination of grant-funded remediation in homes Lead Case referral and capillary test follow up **Poisoning** Manage remediation grants – locally and federally funded programs Prevention Outreach and education (providers, partners, parents) Unit **Quality Improvement initiatives** Policy research & development activities Advocacy **Integrated** Nursing case management, including: Health o home visit Nursing nutritional assessment Services o developmental assessment and referral health and social service referral Blood lead level and health monitoring Service coordination with primary physician



## Working with Clients

- We ask that you screen your patients for possible exposure to lead, and test if necessary.
  - Perform a venous blood lead test and report results
- When talking about home safety, include lead hazards, and encourage clients to look for peeling paint at windows, doors, porches
- CCDPH is here to provide services to your patients and to work with you to coordinate services.



## **Lead Grant Programs**

- Provide grant program information to ALL families with pregnant women
- Free home lead paint inspection and repairs
- Low income families
- Local Grant Program- ALL Cook County communities
- HUD Grant Program- PREVENTION in:
- Bellwood, Berwyn, Broadview, Brookfield, Cicero, Elmwood Park, Forest Park, Lyons, Maywood, Melrose Park, River Grove, and Stone Park.
  - Call North West Housing Partnership 847-969-0561
  - Clients that call for information will be guided through the application process



#### For more information contact:

Cook County Department of Public Health Lead Poisoning Prevention and Healthy Homes <a href="mailto:dsross@cookcountyhhs.org">dsross@cookcountyhhs.org</a>

