

“A Full Picture Of Lead Case Management Efforts In Los Angeles County”



Maternal, Child & Adolescent Health
Programs
Childhood Lead Poisoning Prevention
Program (CLPPP)

Established in 1991





Objectives

- Name the criteria for defining a state case
- Name at least two sources of lead exposure in Los Angeles County
- Name three commonly reported signs & symptoms of lead poisoning
- Name three core public health nursing interventions



Vision Statement

Healthy Lead-safe Environments
for Children



The CLPPP Team

- Case Management Unit: Public Health Nurses
- Environmental Health Unit: Health Inspectors
 - On-site lead testing, identifies lead hazards, and orders property abatement
- Surveillance Unit: Maintains and reviews collected data
- Health Education Unit: Provides outreach to the general public



What is Lead?

- A gray heavy metal naturally found in the earth
- Highly toxic if ingested or inhaled
- Uses: paint, gasoline, glazes, pipes, solder etc.

						13	14	15	16	17	18	
												2 He Helium 4.002602
						5 B Boron 10.811	6 C Carbon 12.0107	7 N Nitrogen 14.0067	8 O Oxygen 15.9994	9 F Fluorine 18.9984032	10 Ne Neon 20.1797	
						13 Al Aluminium 26.9815386	14 Si Silicon 28.0856	15 P Phosphorus 30.973762	16 S Sulfur 32.066	17 Cl Chlorine 35.453	18 Ar Argon 39.948	
						31 Ga Gallium 69.723	32 Ge Germanium 72.64	33 As Arsenic 74.92160	34 Se Selenium 78.96	35 Br Bromine 79.904	36 Kr Krypton 83.798	
						49 In Indium 114.818	50 Sn Tin 118.710	51 Sb Antimony 121.760	52 Te Tellurium 127.60	53 I Iodine 126.90447	54 Xe Xenon 131.293	
						81 Tl Thallium 204.3833	82 Pb Lead 207.2	83 Bi Bismuth 208.98040	84 Po Polonium (208.9824)	85 At Astatine (209.9871)	86 Rn Radon (222.0176)	
						113 Uut Ununtrium (284)	114 Uuq Ununquadium (285)	115 Uup Ununpentium (288)	116 Uuh Ununhexium (292)	117 Uus Ununseptium	118 Uuo Ununoctium (294)	



Lead Exposure May Occur If:

- Ingested
- Inhaled
- Passed through the placenta to the fetus or through breastmilk



State Case Definition

- One Venous Blood Lead Level (BLL) \geq 14.5 mcg/dL
- Two Blood Lead Levels \geq 9.5 mcg/dL, 30 days apart
 - First BLL may be capillary
 - Second [confirmatory] BLL must be venous



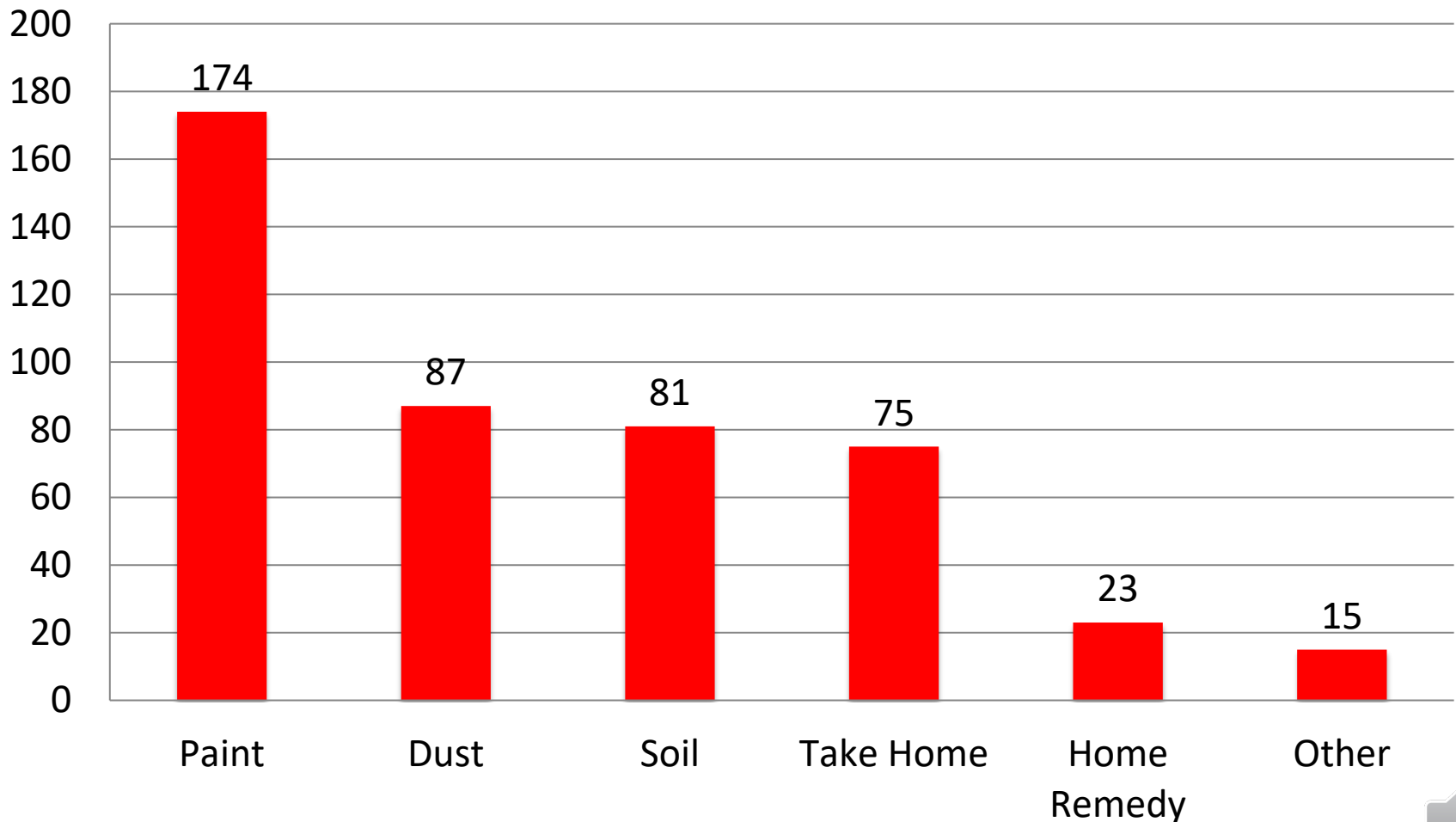


- Service Panning Area (SPA) 6 has the highest rate of lead poisoning in Los Angeles County





Source of Lead Exposure Identified among Cases Defined during 2011-2015 in LAC (n=total number of cases 294)



* Some individuals may have more than one identified source of lead exposure.





Sources of Lead Summary

Take Home Exposure

(Job or Hobbies)



**Paint—
Inside/Outside Built
Before 1978**



Bare Soil



Lead Contaminated Dust



Imported Pottery



Imported Toys



Imported Jewelry



Traditional Remedies & Cosmetics

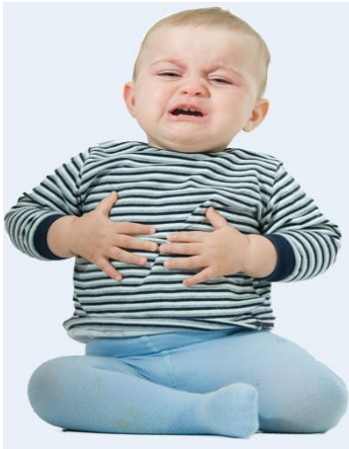


Imported Candy



Lead Poisoning Signs and Symptoms

Most children with lead poisoning do not look or act sick. When children do show symptoms they may include:

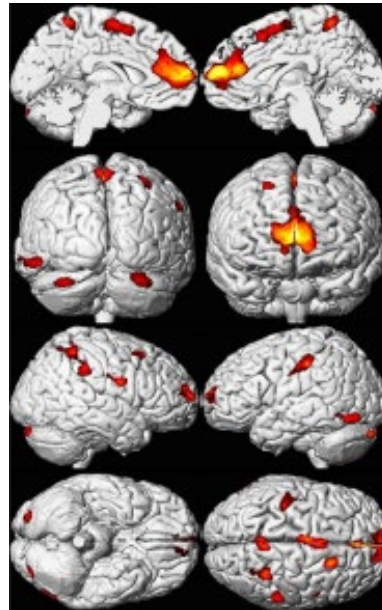


- Abdominal pain
- Loss of appetite
- Constipation
- Anemia
- Irritability
- Short attention span, ADD
- Hyperactivity



Adverse Effects of Lead Poisoning

- Learning Disabilities
- Hearing and Speech Impediments
- Developmental delays



In extremely high lead levels:

- Lethargy
- Seizures
- Encephalopathy
- Death





California Screening Guidelines

- For CHDP/Medi-Cal Providers: **Blood lead test**
 - 12 and 24 months
 - 2 – 6 years old if never tested previously: i.e. recent immigrant, parent request, or a change in circumstance has put child at risk
- For non-CHDP Providers: **ASSESS**
 - 12 and 24 months
 - 2 – 6 years old, if not previously assessed
 - Ask: *Has the child lived in, or spent a lot of time, in a place built before **1978**, that has peeling or chipped paint, or has been recently renovated prior to this assessment? Yes? No?*
 - If response is **Yes** or **Don't Know** a Blood Lead Test should be done.



California Requirements for Physicians

- Provide anticipatory guidance about lead at each periodic assessment from 6 months to 6 years
- Health care providers who perform periodic health assessments for children are required to **inform** parents and guardians about:
 - The risk and effects of childhood lead exposure
 - The requirement that children in Medi-Cal should be blood lead tested
 - The requirement that children not in Medi-Cal who are at risk of lead exposure should also be blood lead tested



Case Management

The PHN:

- Conducts home visits with families to assess risk factors, identifies sources of lead, and provides lead awareness and nutritional education
- Makes referrals to support the entire family
- Provides case information to the child's pediatrician





Case Management (cont'd)

- **Collaboration:** Environmental Health Inspectors, Epidemiology Dept., area laboratories, other health agencies, etc.
- **Surveillance:** Ongoing collection of data for the development of laws and policies that will positively impact childhood lead poisoning prevention
- **Outreach:** Medical/Nursing Grand Rounds, new CHDP Providers, and Health Fairs





CLPPP Contact Information

Program General Office

(800) LA- 4 -LEAD

or

(800) 524 – 5323

Nursing Case Management Unit

(323) 914 – 7195





References

- California Department of Public Health (2007). *Childhood Lead Poisoning Prevention Program*. Retrieved from <https://www.cdph.ca.gov/Programs/CCDPHP/DEODC/CLPPB/Pages/CLPPBhome.aspx>
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- LA County Department of Public Health- LEAD (2009). *Childhood Lead Poisoning Prevention Program*. Retrieved from <http://publichealth.lacounty.gov/lead/index.htm>

