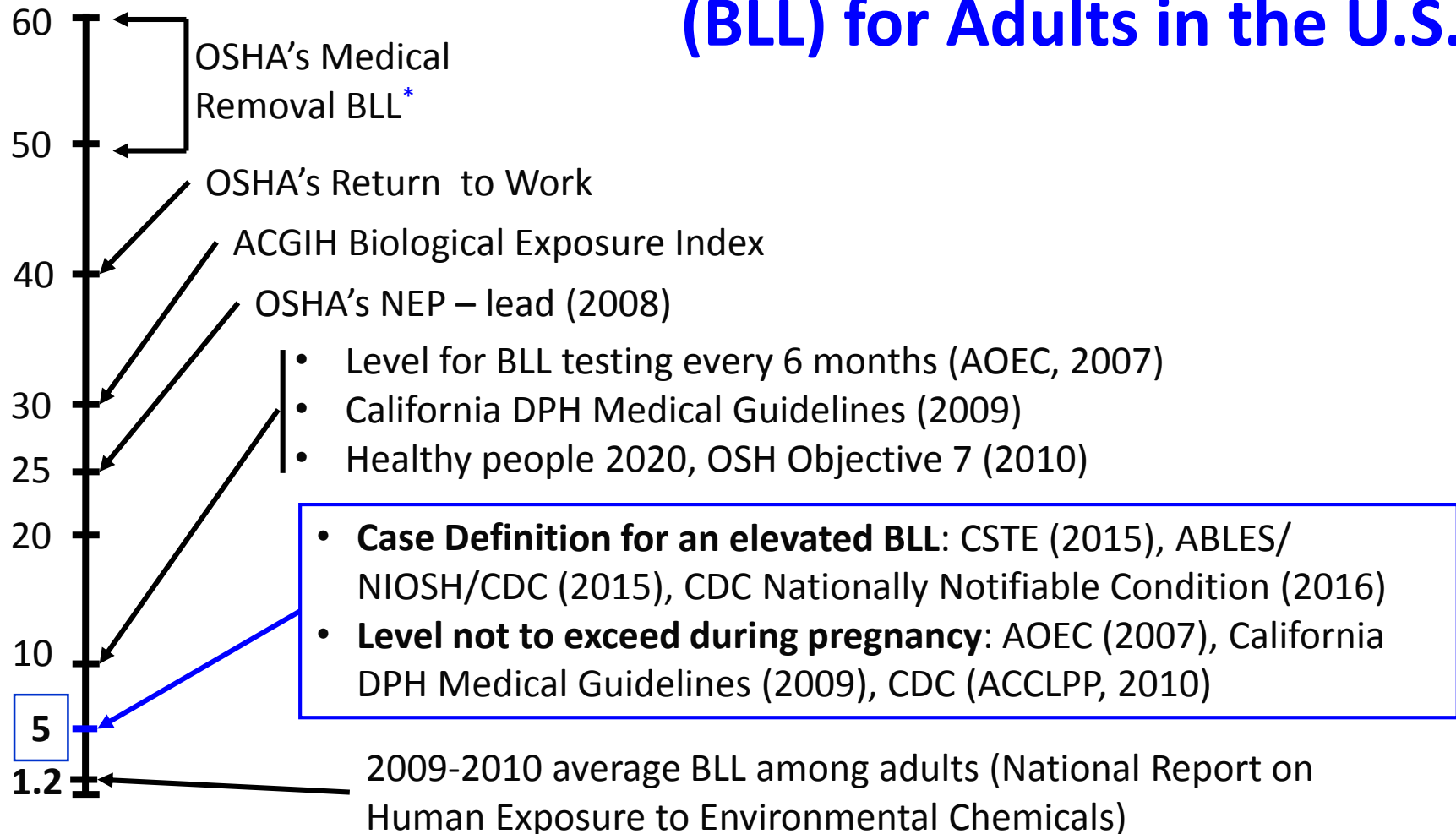


Blood lead concentration  
( $\mu\text{g}/\text{dL}$ )

# Reference Blood Lead Levels (BLL) for Adults in the U.S.



\*The OSHA Lead Standards state that the examining physician has broad flexibility to tailor protections to the worker's needs.

# Source Documents for Reference Blood Lead Levels in slide 1

1. **Occupational Safety and Health Administration (OSHA). Lead Standards:** <http://www.osha.gov/SLTC/lead/>
2. **American Conference of Governmental Industrial Hygienists (ACGIH). Biological Exposure Indices:** <http://www.acgih.org/Products/beiintro.htm>
3. **OSHA Instruction: National Emphasis Program (NEP) on Lead:** [http://www.osha.gov/OshDoc/Directive\\_pdf/CPL\\_03-00-0009.pdf](http://www.osha.gov/OshDoc/Directive_pdf/CPL_03-00-0009.pdf)  
“Inspections will also be conducted in establishments where reported employee blood lead levels were at or above 25 µg/dL”
4. **Association of Occupational and Environmental Clinics (AOEC). Medical Management Guidelines for Lead-Exposed Adults, Revised 04/24/2007. CSTE Medical Management Guidelines Added October 2013, see Pages 16-17:** [http://www.aoec.org/documents/positions/mmg\\_revision\\_with\\_cste\\_2013.pdf](http://www.aoec.org/documents/positions/mmg_revision_with_cste_2013.pdf)
5. **Kosnett MJ et al. Recommendations for Medical Management of Adult Lead Exposure.** <http://www.ncbi.nlm.nih.gov/pmc/articles/PMC1849937/>
6. **California Department of Public Health (CDPH) Medical Guidelines for the Lead-Exposed Worker:** <http://www.cdph.ca.gov/programs/olppp/Documents/medgdln.pdf>
7. **Department of Health and Human Services. Healthy People 2020 Occupational Safety and Health objective 7 (OSH-7):** <http://www.healthypeople.gov/2020/topics-objectives/topic/occupational-safety-and-health/objectives> and **operational definition in** [http://www.healthypeople.gov/node/5049/data\\_details](http://www.healthypeople.gov/node/5049/data_details)
8. **Council of State and Territorial Epidemiologists (CSTE) Position Statement 15-EH-01. Public Health Reporting and National Notification for Elevated Blood Lead Levels.** <http://c.ymcdn.com/sites/www.cste.org/resource/resmgr/2015PS/2015PSFinal/15-EH-01.pdf>
9. **Centers for Disease Control and Prevention (CDC), National Institute for Occupational Safety and Health (NIOSH), Adult Blood Lead Epidemiology and Surveillance (ABLES) case definition for an elevated blood lead level:** <http://www.cdc.gov/niosh/topics/ABLES/description.html>
10. **CDC. National Notifiable Diseases Surveillance System (NNDSS). Nationally Notifiable Non-Infectious Conditions. Lead, Elevated Blood Levels 2016 Case Definition:** <http://www.cdc.gov/nndss/conditions/lead-elevated-blood-levels/case-definition/2016/>
11. **CDC. Advisory Committee on Childhood Lead Poisoning Prevention (ACCLPP): Guidelines for the Identification and Management of Lead Exposure in Pregnant and Lactating Women:** <http://www.cdc.gov/nceh/lead/publications/LeadandPregnancy2010.pdf>  
These guidelines recommend follow-up activities and interventions beginning at blood lead levels (BLLs)  $\geq 5$  µg/dL in pregnant women. The essential activity in management of pregnant women with BLLs  $\geq 5$  µg/dL is removal of the lead source, disruption of the route of exposure, or avoidance of the lead-containing substance or activity.
12. **National Toxicology Program (NTP). Health Effects of Low-level Lead Evaluation:** <http://ntp.niehs.nih.gov/go/36443>
13. **CDC. National Report on Human Exposure to Environmental Chemicals.** <http://www.cdc.gov/exposurereport/> **Updated tables, February 2015:** [http://www.cdc.gov/biomonitoring/pdf/FourthReport\\_UpdatedTables\\_Feb2015.pdf](http://www.cdc.gov/biomonitoring/pdf/FourthReport_UpdatedTables_Feb2015.pdf)

