

Biomonitoring

Lead

Table B1: Lead in children ages 1 to 5 years: Median and 95th percentile concentrations in blood, 1976-2016

1976-2014		Blood lead concentration (µg/dL)									
	1976-1980	1988-1991	1991-1994	1999-2000	2001-2002	2003-2004	2005-2006	2007-2008	2009-2010	2011-2012	2013-2014
Median	15.0	3.5	2.6	2.2	1.6	1.6	1.4	1.4	1.2	1.0	0.7
95th percentile	29.0	12.0	9.7	7.0	5.8	5.1	3.8	4.1	3.4	2.9	2.2
2015-2016		Blood lead concentration (µg/dL)									
	2015-2016										
Median	0.7										
95th percentile	2.8										

DATA: Centers for Disease Control and Prevention, National Center for Health Statistics and National Center for Environmental Health, National Health and Nutrition Examination Survey

Table B1a: Lead in children ages 1 to 17 years: Blood lead concentrations by age group, 2015-2016

		Blood lead concentration (µg/dL)					
	All ages	Age 1 year	Age 2 years	Ages 3 to 5 years	Ages 6 to 10 years	Ages 11 to 15 years	Ages 16 to 17 years
Median	0.5	0.8	0.8	0.6	0.6	0.5	0.5
95th percentile	1.8	NA**	3.3	2.2	1.6	1.2	1.2

DATA: Centers for Disease Control and Prevention, National Center for Health Statistics and National Center for Environmental Health, National Health and Nutrition Examination Survey

**Not available. The estimate is not reported because it has large uncertainty: the relative standard error, RSE, is at least 40% (RSE = standard error divided by the estimate), or the RSE cannot be reliably estimated.

Table B2. Lead in children ages 1 to 5 years: Median concentrations in blood, by race/ethnicity and family income, 2013-2016

Race / Ethnicity	Median blood lead concentration (µg/dL)		
	All Incomes‡ (n=1,608)	< Poverty Level (n=590)	≥ Poverty Level (n=890)
All Races/Ethnicities (n=1,608)	0.7	0.9	0.7
White Non-Hispanic (n=444)	0.7	0.9*	0.6
Black Non-Hispanic (n=370)	0.9	1.1*	0.7
Mexican-American (n=369)	0.7	0.7	0.7
All Other Races/Ethnicities† (n=425)	0.7	0.9	0.7

DATA: Centers for Disease Control and Prevention, National Center for Health Statistics and National Center for Environmental Health, National Health and Nutrition Examination Survey

† The “All Other Races/Ethnicities” category includes all other races or ethnicities not specified, together with those individuals who report more than one race.

‡ Includes sampled individuals for whom income information is missing.

*The estimate should be interpreted with caution because the standard error of the estimate is relatively large: the relative standard error, RSE, is at least 30% but is less than 40% (RSE = standard error divided by the estimate), or the RSE may be underestimated.

Table B2a. Lead in children ages 1 to 5 years: 95th percentile concentrations in blood, by race/ethnicity and family income, 2013-2016

Race / Ethnicity	95 th Percentile blood lead concentration (µg/dL)		
	All Incomes‡ (n=1,608)	< Poverty Level (n=590)	≥ Poverty Level (n=890)
All Races/Ethnicities (n=1,608)	2.5	3.0	2.1
White non-Hispanic (n=444)	2.4	3.0*	2.3
Black non-Hispanic (n=370)	3.0	3.1*	2.0
Mexican-American (n=369)	1.8	2.0	1.7
All Other Races/Ethnicities† (n=425)	2.7	3.4	2.1

DATA: Centers for Disease Control and Prevention, National Center for Health Statistics and National Center for Environmental Health, National Health and Nutrition Examination Survey

† The “All Other Races/Ethnicities” category includes all other races or ethnicities not specified, together with those individuals who report more than one race.

‡ Includes sampled individuals for whom income information is missing.

*The estimate should be interpreted with caution because the standard error of the estimate is relatively large: the relative standard error, RSE, is at least 30% but is less than 40% (RSE = standard error divided by the estimate), or the RSE may be underestimated.

Table B2b. Lead in children ages 1 to 5 years: Median concentrations in blood, by race/ethnicity and family income, 1991-1994

Race / Ethnicity	Median blood lead concentration (µg/dL)		
	All Incomes‡ (n=2,392)	< Poverty Level (n=989)	≥ Poverty Level (n=1,261)
All Races/Ethnicities (n=2,392)	2.6	4.1	2.2
White Non-Hispanic (n=631)	2.3	3.4*	2.1
Black Non-Hispanic (n=783)	4.3	5.0	3.5
Mexican-American (n=827)	3.1	3.7	2.6
All Other Races/Ethnicities† (n=151)	2.5	NA**	2.0*

DATA: Centers for Disease Control and Prevention, National Center for Health Statistics and National Center for Environmental Health, National Health and Nutrition Examination Survey

† The “All Other Races/Ethnicities” category includes all other races or ethnicities not specified, together with those individuals who report more than one race.

‡ Includes sampled individuals for whom income information is missing.

*The estimate should be interpreted with caution because the standard error of the estimate is relatively large: the relative standard error, RSE, is at least 30% but is less than 40% (RSE = standard error divided by the estimate), or the RSE may be underestimated.

** Not available. The estimate is not reported because it has large uncertainty: the relative standard error, RSE, is 40% or greater (RSE = standard error divided by the estimate), or the RSE cannot be reliably estimated.