CORE CITIES DATA



A SUPPLEMENT TO CHILDHOOD LEAD POISONING IN RHODE ISLAND: THE NUMBERS, 2011 EDITION



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ELIMINATING CHILDHOOD LEAD POISONING IN RHODE ISLAND

In 2004, the Rhode Island Department of Health (HEALTH) laid out a plan to eliminate childhood lead poisoning statewide Childhood lead poisoning will only be completely eliminated through intense primary prevention efforts that include an increase in the availability of lead-safe housing in Rhode Island. that include an increase in the availability of lead-safe housing in Rhode Island. Relevant data sources must be

by 2010. In 2011, HEALTH is proud of the progress Rhode Island has made towards this goal and renews its commitment to eliminating childhood lead poisoning. With even more expertise and knowledge about the causes and effects of childhood lead poisoning and with the support of an even wider range of partners, Rhode Island is closer than ever to eliminating childhood lead poisoning.

There is still a lot of work to be done to achieve this goal, especially in Rhode Island's core cities. Cities where the child poverty level is greater than 15% are designated as core cities. 2010 Census data continues to identify Rhode Island's six core cities as Central Falls, Newport, Pawtucket, Providence, West Warwick, and Woonsocket.

Childhood lead poisoning will only be eliminated through intense primary prevention efforts used to identify housing that is poisoning children through lead exposure and that needs improvement. A comprehensive system of both state and municipal data to assess Rhode Island's housing situation must be implemented.

Further progress on lead poisoning elimination depends on the enforcement of housing violations and on compliance with housing regulations, including certificate of conformance regulations outlined in Rhode Island's Lead Hazard Mitigation Law. Constraints on funding for lead hazard abatement, enforcement, policy development, and public education means that remaining funds must be spent more efficiently and strategically. Stakeholders can accomplish this by continuing to forge collaborations to promote housing that is safe for all Rhode Island residents.

UNDERSTANDING BLOOD LEAD LEVELS

WHAT IS A LEVEL OF CONCERN?

A level of concern is the threshold used to define an elevated blood lead level. The Centers for Disease Control and Prevention (CDC) currently define any blood lead level greater than or equal to $10 \mu g/dL$ as a blood lead level of concern. The terms "childhood lead poisoning" and "elevated blood lead level" are also used to describe blood lead levels at or above $10 \mu g/dL$.

Children with a blood lead level greater than the level of concern should be monitored and retested according to lead screening guidelines. Primary prevention activities, such as communitywide environmental interventions and nutritional and educational campaigns, should be directed at bringing children's blood lead levels below the level of concern.

WHAT IS AN ACTION LEVEL?

An action level is the threshold at which interventions are implemented if effective, evidence-based interventions exist and resources are available. It would not be sufficient to define one action level for all interventions, so different action levels trigger different interventions.

Guidelines issued by the CDC were used to define various action levels in Rhode Island. Rhode Island's action levels are detailed in the table below.

| CATEGORY | ACTION LEVEL | ACTION |
|------------------------------------|--|--|
| ELEVATED BLOOD LEAD LEVEL (BLL) | BLL of 10–14 µg/dL | CAPILLARY TEST: Educational materials sent to the family. Letter sent to the primary care provider recommending a venous test to confirm the BLL. |
| | | VENOUS TEST: Educational materials sent to the family. |
| | BLL of 15–19 µg/dL | CAPILLARY TEST: Letter sent to the primary care provider recommending a venous test to confirm the BLL. |
| | | VENOUS TEST: Family is referred to a lead center* for an in-home lead education visit and some environmental intervention (e.g., temporary lead hazard control measures, window replacement). |
| SIGNIFICANT LEAD POISONING | One venous BLL \geq 20 µg/dL ~ or ~ Two venous BLLs of 15–19 µg/dL done 90-365 days apart** | Family is referred to a lead center* for an in-home lead education visit and is offered an environmental inspection. |

* A lead center is a non-profit agency funded by Medicaid that offers comprehensive case management services to families of children with lead poisoning.

** Two venous blood lead levels of 15-19 μg/dL done between 90 and 365 days apart may also be referred to as "Persistent Lead Poisoning". Prior to January 1, 2006, two blood lead levels, capillary or venous, ≥ 15 μg/dL were used to define persistent lead poisoning.

INCIDENCE OF CHILDHOOD LEAD POISONING IN CORE CITIES AND TOWNS

The Rhode Island Childhood Lead Poisoning Prevention Program (RI CLPPP) tracks and reports the number of cases of lead poisoning (a blood lead level greater than or equal to 10 μ g/dL) among children younger than six years of age who have not previously been poisoned. This statistic is known as the incidence of childhood lead poisoning. In 2010, three of Rhode Island's six core cities had incidence rates equal to or greater than the 1% statewide rate.

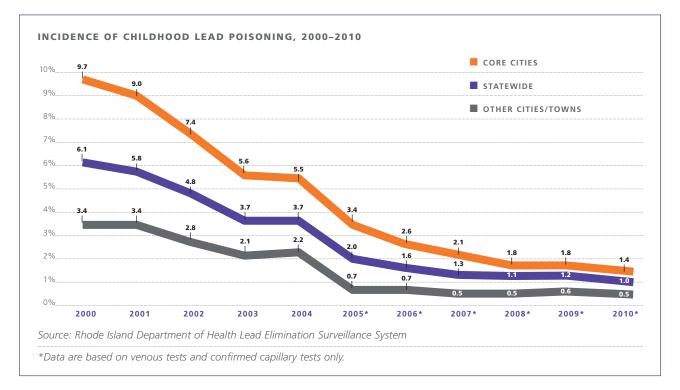
Lead hazards in the home are the most common sources of lead poisoning. For this reason, housing and enforcement efforts that address lead hazards in core cities would help the state eliminate lead poisoning. Nowhere are these efforts needed more than in Providence, the city that continues to have the highest incidence of childhood lead poisoning in the state.

INCIDENCE OF CHILDHOOD LEAD POISONING IN CORE CITIES, 2010

| Central Falls | 0.9% |
|-----------------------------|------|
| Newport | 1.7% |
| Pawtucket | 0.9% |
| Providence | 1.8% |
| West Warwick | 1.0% |
| Woonsocket | 0.7% |
| Core cities combined | 1.4% |
| Other cities/towns combined | 0.5% |
| Statewide | 1.0% |

Source: Rhode Island Department of Health Lead Elimination Surveillance System

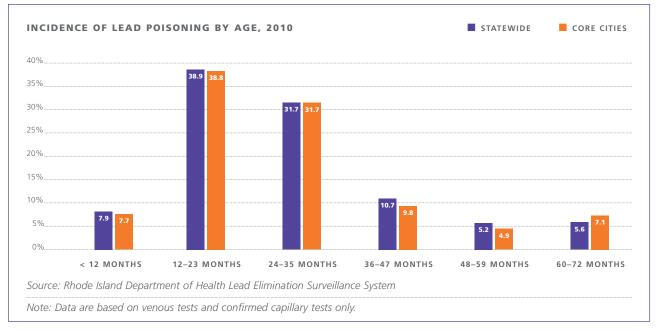
Note: Data are based on venous tests and confirmed capillary tests only.



INCIDENCE OF CHILDHOOD LEAD POISONING BY AGE

In 2010, the age distribution for children in core cities who were determined to be lead-poisoned for the first time was similar to the age distribution statewide. In core cities and statewide, most first-time poisonings occurred among children one to two years of age.

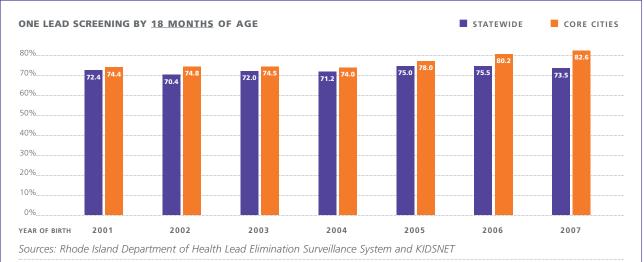




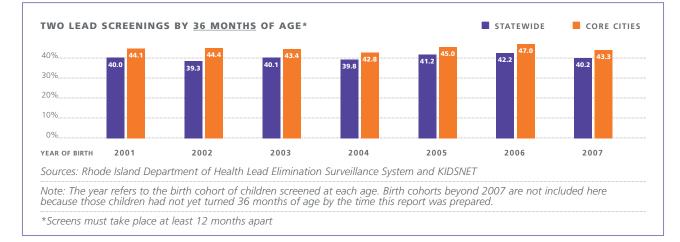
COMPLIANCE WITH CHILDHOOD LEAD SCREENING GUIDELINES

All Rhode Island healthcare providers are required by law to screen their patients between nine months and six years of age for lead poisoning each year. Compliance with these guidelines is assessed by measuring the proportion of children born in a given year who have had at least one blood lead test by 18 months of age and at least two blood lead tests by 36 months of age. These two blood lead tests should take place at least 12 months apart. Lead screening rates have not changed dramatically in recent years. The percentage of children born in 2007 who were screened for lead poisoning at least once by 18 months of age was 73.5%. The percentage of these children who were screened a second time by 36 months of age was 40.2%.

The combined lead screening rates of children in core cities are higher than those of children statewide. High screening rates at community health centers in urban areas may account for this disparity.



Note: The year refers to the birth cohort of children screened at each age. Birth cohorts beyond 2007 are not included here because those children had not yet turned 36 months of age by the time this report was prepared.



LEAD POISONING AMONG CHILDREN ENTERING KINDERGARTEN

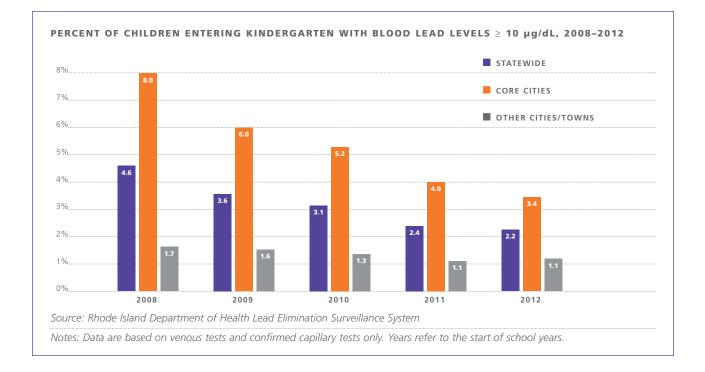
Rhode Island state law requires healthcare professionals to screen all children for lead poisoning before they enter kindergarten. The table below illustrates the elevated blood lead levels of Rhode Island three-year-olds in core cities and statewide. Rates are based on all blood lead tests given through August 31, two years prior to



the year the child enters kindergarten. These rates are used to determine the percentage of children who are lead-poisoned prior to entering kindergarten at five years of age (e.g., rates for children entering kindergarten in 2011 are based on blood lead test results through August 31, 2009).

The proportion of children entering kindergarten after having had an elevated blood lead level is higher in core cities than in other cities and towns and statewide.

This may be the result of the age of housing in core cities and the increased presence of lead hazards in housing in core cities.



TABLES

Source: Rhode Island Department of Health Lead Elimination Surveillance System

Notes: Data prior to 2005 are based on all venous and capillary blood lead tests received by a child. Data for 2005 and later are based on venous tests and confirmed capillary tests only.

| | | CORE CITIES | | STATEWIDE |
|------|--------------------|--|--------------------|--|
| YEAR | # CHILDREN BORN | # CHILDREN SCREENED AT LEAST ONCE BY 18 MONTHS OF AGE | # CHILDREN BORN | # CHILDREN SCREENED AT LEAST ONCE BY 18 MONTHS OF AGE |
| 2001 | 7,353 | 5,470 (74%) | 12,946 | 9,368 (72%) |
| 2002 | 7,609 | 5,689 (75%) | 13,247 | 9,321 (70%) |
| 2003 | 8,023 | 5,981 (75%) | 13,471 | 9,640 (72%) |
| 2004 | 6,386 | 4,728 (74%) | 13,277 | 9,447 (71%) |
| 2005 | 5,901 | 4,603 (78%) | 13,482 | 10,105 (75%) |
| 2006 | 5,738 | 4,600 (80%) | 13,181 | 9,949 (75%) |
| 2007 | 5,630 | 4,650 (83%) | 13,208 | 9,714 (74%) |

COMPLIANCE WITH LEAD SCREENING GUIDELINES

TABLE 1B. TWO LEAD SCREENINGS BY 36 MONTHS OF AGE*

| | CORE CITIES | | | STATEWIDE |
|------|--------------------|---|--------------------|---|
| YEAR | # CHILDREN BORN | # CHILDREN SCREENED AT LEAST ONCE BY 36 MONTHS OF AGE* | # CHILDREN BORN | # CHILDREN SCREENED AT LEAST ONCE BY 36 MONTHS OF AGE* |
| 2001 | 7,353 | 3,240 (44%) | 12,946 | 5,180 (40%) |
| 2002 | 7,609 | 3,382 (44%) | 13,247 | 5,210 (39%) |
| 2003 | 8,023 | 3,483 (43%) | 13,471 | 5,454 (40%) |
| 2004 | 6,386 | 2,736 (43%) | 13,277 | 5,286 (39%) |
| 2005 | 5,901 | 2,654 (45%) | 13,482 | 5,555 (41%) |
| 2006 | 5,738 | 2,699 (47%) | 13,181 | 5,558 (42%) |
| 2007 | 5,630 | 2,435 (43%) | 13,208 | 5,305 (40%) |

* Screenings must take place at least 12 months apart

INCIDENCE OF CHILDHOOD LEAD POISONING TABLE 2A. INCIDENCE IN CORE CITIES

| YEAR | # CHILDREN WITH BLL \geq 10 $\mu g/dL$ FOR FIRST TIME | # CHILDREN SCREENED WITH NO PREVIOUS ELEVATED BLL | INCIDENCE |
|------|---|--|-----------|
| 1997 | 1,669 | 12,453 | 13.4% |
| 1998 | 1,273 | 12,372 | 10.3% |
| 1999 | 1,410 | 12,787 | 11.0% |
| 2000 | 1,200 | 12,400 | 9.7% |
| 2001 | 1,277 | 14,164 | 9.0% |
| 2002 | 1,041 | 14,003 | 7.4% |
| 2003 | 811 | 14,493 | 5.6% |
| 2004 | 799 | 14,581 | 5.5% |
| 2005 | 498 | 14,522 | 3.4% |
| 2006 | 387 | 14,625 | 2.6% |
| 2007 | 297 | 14,392 | 2.1% |
| 2008 | 257 | 14,116 | 1.8% |
| 2009 | 240 | 13,376 | 1.8% |
| 2010 | 183 | 13,031 | 1.4% |

INCIDENCE OF CHILDHOOD LEAD POISONING

TABLE 2B. INCIDENCE IN OTHER CITIES/TOWNS

| YEAR | # CHILDREN WITH BLL \geq 10 $\mu g/dL$ FOR FIRST TIME | # CHILDREN SCREENED WITH NO PREVIOUS ELEVATED BLL | INCIDENCE |
|------|---|--|-----------|
| 1997 | 715 | 15,761 | 4.5% |
| 1998 | 606 | 15,861 | 3.8% |
| 1999 | 623 | 16,476 | 3.8% |
| 2000 | 550 | 16,077 | 3.4% |
| 2001 | 597 | 17,756 | 3.4% |
| 2002 | 509 | 18,018 | 2.8% |
| 2003 | 364 | 17,143 | 2.1% |
| 2004 | 377 | 17,107 | 2.2% |
| 2005 | 123 | 17,142 | 0.7% |
| 2006 | 113 | 16,953 | 0.7% |
| 2007 | 91 | 16,597 | 0.5% |
| 2008 | 73 | 15,218 | 0.5% |
| 2009 | 84 | 14,102 | 0.6% |
| 2010 | 69 | 13,280 | 0.5% |

INCIDENCE OF CHILDHOOD LEAD POISONING

TABLE 2C. INCIDENCE STATEWIDE

| YEAR | # CHILDREN WITH BLL \geq 10 $\mu g/dL$ FOR FIRST TIME | # CHILDREN SCREENED WITH NO PREVIOUS ELEVATED BLL | INCIDENCE |
|------|---|--|-----------|
| 1997 | 2,369 | 28,125 | 8.4% |
| 1998 | 1,870 | 28,170 | 6.6% |
| 1999 | 2,025 | 29,187 | 6.9% |
| 2000 | 1,740 | 28,419 | 6.1% |
| 2001 | 1,857 | 31,848 | 5.8% |
| 2002 | 1,535 | 31,954 | 4.8% |
| 2003 | 1,161 | 31,579 | 3.7% |
| 2004 | 1,167 | 31,610 | 3.7% |
| 2005 | 624 | 31,669 | 2.0% |
| 2006 | 500 | 31,578 | 1.6% |
| 2007 | 388 | 30,989 | 1.3% |
| 2008 | 330 | 29,334 | 1.1% |
| 2009 | 324 | 27,478 | 1.2% |
| 2010 | 252 | 26,311 | 1.0% |

INCIDENCE BY AGE AND BLOOD LEAD LEVEL

| AGE | DENCE BY AGE IN (# CHILDREN WITH BLL ≥ 10 μg/dL FOR FIRST TIME | % CHILDREN WITH BLL ≥ 10 µg/dL FOR FIRST TIME |
|--------------|--|---|
| < 12 months | 14 | 7.7% |
| 12–23 months | 71 | 38.8% |
| 24–35 months | 58 | 31.7% |
| 36–47 months | 18 | 9.8% |
| 48–59 months | 9 | 4.9% |
| 60–72 months | 13 | 7.1% |
| Total | 183 | 100% |

INCIDENCE BY AGE AND BLOOD LEAD LEVEL TABLE 4A. INCIDENCE BY BLOOD LEAD LEVEL IN CORE CITIES, 2010

| BLOOD LEAD LEVEL | # CHILDREN WITH ELEVATED BLL FOR FIRST TIME | % CHILDREN WITH ELEVATED BLL FOR FIRST TIME |
|---------------------|---|---|
| 10–14 µg/dL | 117 | 63.9% |
| 15–19 µg/dL | 35 | 19.1% |
| 20–24 µg/dL | 17 | 9.3% |
| 25+ µg/dL | 14 | 7.7% |
| Total | 183 | 100% |

INCIDENCE BY AGE AND BLOOD LEAD LEVEL

TABLE 3B. INCIDENCE BY AGE STATEWIDE, 2010

| AGE | # CHILDREN WITH BLL ≥ 10 μg/dL FOR FIRST TIME | % CHILDREN WITH BLL ≥ 10 μg/dL FOR FIRST TIME |
|--------------|---|---|
| < 12 months | 20 | 7.9% |
| 12–23 months | 98 | 38.9% |
| 24–35 months | 80 | 31.7% |
| 36–47 months | 27 | 10.7% |
| 48–59 months | 13 | 5.2% |
| 60–72 months | 14 | 5.6% |
| Total | 252 | 100% |

INCIDENCE BY AGE AND BLOOD LEAD LEVEL TABLE 4B. INCIDENCE BY BLOOD LEAD LEVEL STATEWIDE, 2010

| BLOOD LEAD LEVEL | # CHILDREN WITH ELEVATED BLL FOR FIRST TIME | % CHILDREN WITH ELEVATED BLL FOR FIRST TIME |
|---------------------|---|---|
| 10–14 µg/dL | 159 | 63.1% |
| 15–19 µg/dL | 48 | 19.0% |
| 20–24 µg/dL | 26 | 10.3% |
| 25+ µg/dL | 19 | 7.5% |
| Total | 252 | 100% |

PREVALENCE BY AGE AND BLOOD LEAD LEVEL

TABLE 5A. PREVALENCE OF LEAD POISONING IN CORE CITIES, 1997-2010

| YEAR | # CHILDREN WITH BLL ≥ 10 μg/dL | TOTAL # CHILDREN SCREENED | PREVALENCE |
|------|-----------------------------------|------------------------------|------------|
| 1997 | 3,391 | 16,423 | 20.6% |
| 1998 | 2,584 | 15,648 | 16.5% |
| 1999 | 2,402 | 15,407 | 15.6% |
| 2000 | 2,030 | 14,511 | 14.0% |
| 2001 | 2,068 | 16,295 | 12.7% |
| 2002 | 1,801 | 16,074 | 11.2% |
| 2003 | 1,331 | 16,275 | 8.2% |
| 2004 | 1,210 | 14,955 | 7.5% |
| 2005 | 793 | 15,626 | 5.1% |
| 2006 | 615 | 15,617 | 3.9% |
| 2007 | 475 | 15,149 | 3.1% |
| 2008 | 385 | 14,754 | 2.6% |
| 2009 | 334 | 13,861 | 2.4% |
| 2010 | 265 | 13,451 | 2.0% |

PREVALENCE BY AGE AND BLOOD LEAD LEVEL

TABLE 5B. PREVALENCE OF LEAD POISONING IN OTHER CITIES/TOWNS, 1997-2010

| YEAR | # CHILDREN WITH BLL ≥ 10 μg/dL | TOTAL # CHILDREN SCREENED | PREVALENCE |
|------|-----------------------------------|------------------------------|------------|
| 1997 | 1,084 | 17,352 | 6.2% |
| 1998 | 874 | 17,127 | 5.1% |
| 1999 | 819 | 17,503 | 4.7% |
| 2000 | 729 | 16,948 | 4.3% |
| 2001 | 775 | 18,666 | 4.2% |
| 2002 | 676 | 18,853 | 3.6% |
| 2003 | 503 | 17,938 | 2.8% |
| 2004 | 493 | 17,280 | 2.8% |
| 2005 | 188 | 17,460 | 1.1% |
| 2006 | 154 | 17,200 | 0.9% |
| 2007 | 139 | 16,812 | 0.8% |
| 2008 | 101 | 15,438 | 0.7% |
| 2009 | 104 | 14,224 | 0.7% |
| 2010 | 90 | 13,412 | 0.7% |

PREVALENCE BY AGE AND BLOOD LEAD LEVEL

TABLE 5C. PREVALENCE OF LEAD POISONING STATEWIDE, 1997-2010

| YEAR | # CHILDREN WITH BLL ≥ 10 μg/dL | TOTAL # CHILDREN SCREENED | PREVALENCE |
|------|-----------------------------------|------------------------------|------------|
| 1997 | 4,446 | 33,647 | 13.2% |
| 1998 | 3,437 | 32,684 | 10.5% |
| 1999 | 3,208 | 32,816 | 9.8% |
| 2000 | 2,741 | 31,382 | 8.7% |
| 2001 | 2,813 | 34,865 | 8.1% |
| 2002 | 2,450 | 34,835 | 7.0% |
| 2003 | 1,811 | 34,130 | 5.3% |
| 2004 | 1,685 | 33,839 | 5.0% |
| 2005 | 981 | 33,086 | 3.0% |
| 2006 | 790 | 32,838 | 2.4% |
| 2007 | 608 | 31,961 | 1.9% |
| 2008 | 486 | 30,192 | 1.6% |
| 2009 | 438 | 28,085 | 1.6% |
| 2010 | 355 | 26,863 | 1.3% |

PREVALENCE BY AGE AND BLOOD LEAD LEVEL TABLE 6A. PREVALENCE OF LEAD POISONING BY AGE IN CORE CITIES, 2010

| AGE | # CHILDREN WITH BLL ≥ 10 μg/dL | % CHILDREN WITH BLL ≥ 10 μg/dL |
|--------------|-----------------------------------|-----------------------------------|
| < 12 months | 12 | 4.5% |
| 12–23 months | 78 | 29.4% |
| 24–35 months | 81 | 30.6% |
| 36–47 months | 44 | 16.6% |
| 48–59 months | 24 | 9.1% |
| 60–72 months | 26 | 9.8% |
| Total | 265 | 100% |

PREVALENCE BY AGE AND BLOOD LEAD LEVEL TABLE 7A. PREVALENCE OF LEAD POISONING BY BLOOD LEAD LEVEL IN CORE CITIES, 2010

| BLOOD LEAD LEVEL | # CHILDREN WITH ELEVATED BLL | % CHILDREN WITH ELEVATED BLL |
|---------------------|---------------------------------|---------------------------------|
| 10–14 µg/dL | 169 | 63.8% |
| 15–19 µg/dL | 54 | 20.4% |
| 20–24 µg/dL | 20 | 7.5% |
| 25+ µg/dL | 22 | 8.3% |
| Total | 265 | 100% |

PREVALENCE BY AGE AND BLOOD LEAD LEVEL TABLE 6B. PREVALENCE OF LEAD POISONING BY AGE STATEWIDE, 2010

| AGE | # CHILDREN WITH BLL \geq 10 µg/dL | % CHILDREN WITH BLL \geq 10 $\mu g/dL$ |
|--------------|-------------------------------------|--|
| < 12 months | 18 | 5.1% |
| 12–23 months | 105 | 29.6% |
| 24–35 months | 113 | 31.8% |
| 36–47 months | 60 | 16.9% |
| 48–59 months | 28 | 7.9% |
| 60–72 months | 31 | 8.7% |
| Total | 355 | 100% |

PREVALENCE BY AGE AND BLOOD LEAD LEVEL TABLE 7B. PREVALENCE OF LEAD POISONING BY BLOOD LEAD LEVEL STATEWIDE, 2010

| BLOOD LEAD LEVEL | # CHILDREN WITH ELEVATED BLL | % CHILDREN WITH ELEVATED BLL |
|---------------------|---------------------------------|---------------------------------|
| 10–14 µg/dL | 225 | 63.4% |
| 15–19 µg/dL | 69 | 19.4% |
| 20–24 µg/dL | 32 | 9.0% |
| 25+ µg/dL | 29 | 8.2% |
| Total | 355 | 100% |

GLOSSARY

Abatement

An activity that reduces the risk of human exposure to lead.

BLL

Blood lead level.

CDC

Centers for Disease Control and Prevention.

Core Cities

Cities where the child poverty level is greater than 15%. 2010 Census data identified Rhode Island's six core cities as Central Falls, Newport, Pawtucket, Providence, West Warwick, and Woonsocket.

Elevated Blood Lead Level

One blood lead test result of 10 to 19 $\mu g/dL.$

Incidence

The proportion of new cases of a disease that develop during a specified period of time among the population at risk for developing the disease. For example, the incidence of lead poisoning in Rhode Island in 2010 is the proportion of children with a first-time blood lead level greater than or equal to $10 \mu g/dL$ among those at risk for developing lead poisoning (i.e., children younger than six years of age who have never been lead-poisoned in the past).

KIDSNET

Rhode Island's integrated child health information system.

Lead Center

A non-profit agency funded by Medicaid that offers comprehensive case management services to families of children with lead poisoning.

Prevalence

The proportion of people in a population who have a given disease at a specific point in time. For example, the prevalence of lead poisoning in 2010 is the proportion of children who had a blood lead level greater than or equal to $10 \mu g/dL$ in 2010.

RI CLPPP

The Rhode Island Childhood Lead Poisoning Prevention Program.

Screening

A mandatory test that involves collecting a blood sample, either through a finger stick or a venipuncture, from a child younger than six years of age who does not show any signs or symptoms of lead poisoning, and then analyzing the sample to determine the amount of lead in the child's blood.

Significant Lead Poisoning

A venous blood lead level greater than or equal to 20 μ g/dL in a child younger than six years of age, or two venous blood lead levels 15 to 19 μ g/dL from a child younger than six years of age tested between 90 and 365 days apart.

µg/dL

Micrograms per deciliter of blood. The measurement used to estimate the amount of lead in a sample of blood. This measure is sometimes represented as mcg/dL.