

2018 LEAD EXPOSURE IN NEW HAMPSHIRE DATA BRIEF

Lead poisoning is entirely preventable. However, nearly 1 million children living in the United States have blood lead levels high enough to impair their ability to think, concentrate, and learn.

Figure 1: Annual Number (and Percentage) of Children Tested for Blood Lead, Aged 72 months or younger, 2014-2018

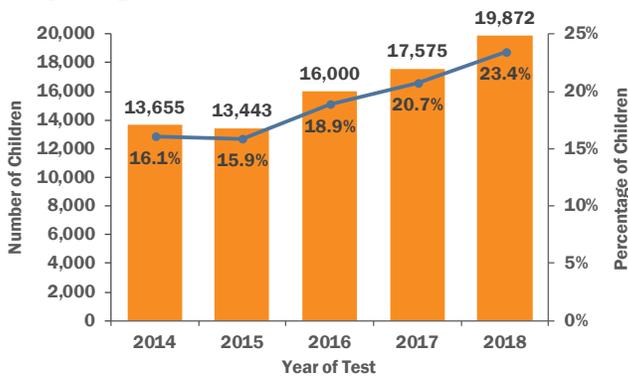
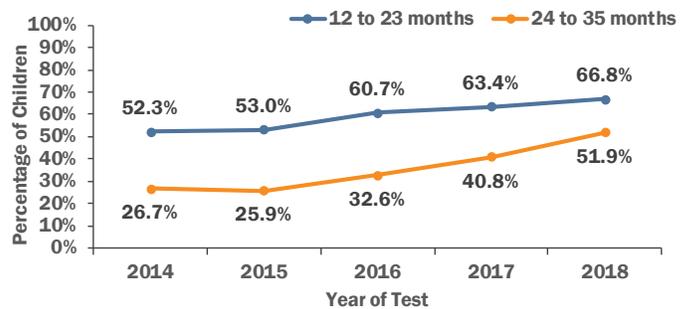
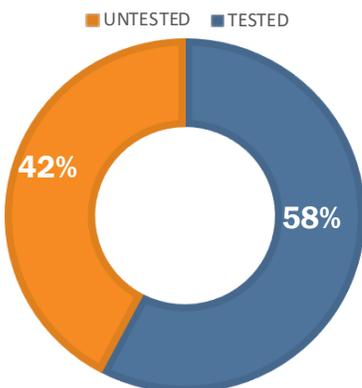


Figure 2: Percentage of 1- and 2-Year-Old Children Tested for Blood Lead, 2014-2018



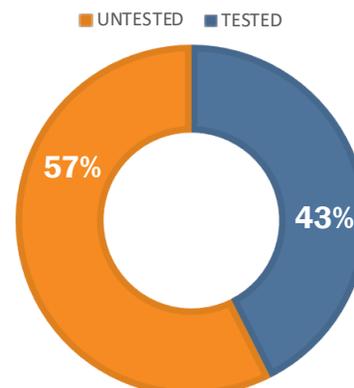
The annual number and percentage of children 72 months or younger who were tested for blood lead has shown a marked increase since 2015. This increase, mostly observed among two-year-olds, is attributed to, among other things, public health efforts and recent legislative changes pertaining to lead testing among NH children.

Figure 3: Percentage of One-Year-Old Medicaid Recipients Tested for Blood Lead, 2018



An estimated 3,360 children were enrolled in Medicaid for at least 12 months prior to their 2nd birthday. An estimated 58% of these children were tested for blood lead exposure during these twelve months.

Figure 4: Percentage of Two-Year-Old Medicaid Recipients Tested for Blood Lead, 2018



An estimated 3,438 children were enrolled in Medicaid for at least 12 months prior to their 3rd birthday. An estimated 43% of these children were tested for blood lead exposure during these twelve months.

According to U.S. federal requirements, all children enrolled in Medicaid are required to receive blood lead level tests at ages 12 months and 24 months.

Figure 5: Percentage of Children Aged 72 Months or Younger Tested for Blood Lead by School Administrative Unit*

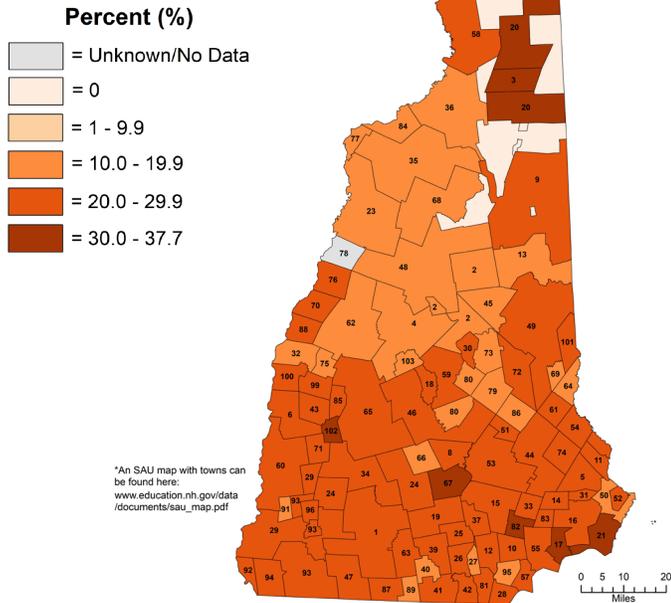


Figure 6: Number of Children Aged 72 Months or Younger with Blood Lead Elevations of 5µg/dL or Higher by School Administrative Unit*

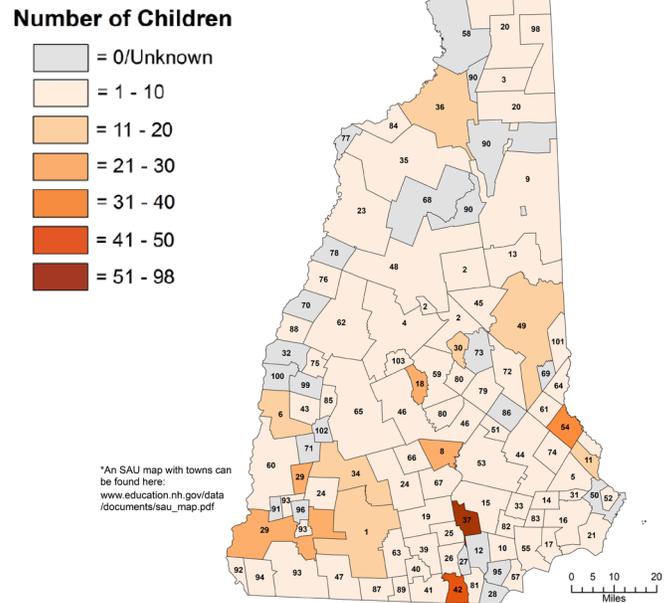


Figure 7: Number of Children Aged 72 Months or Younger with Blood Lead Elevations of 5µg/dL or Higher by Town

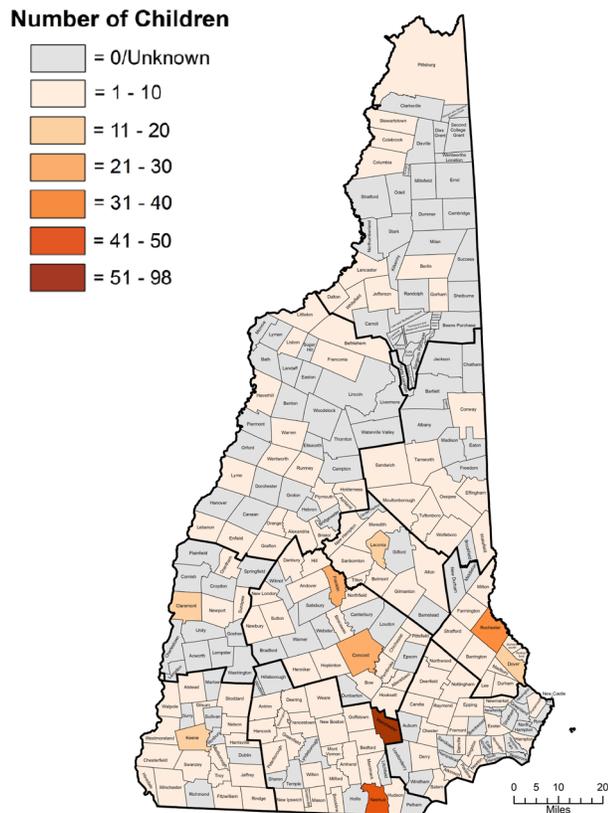
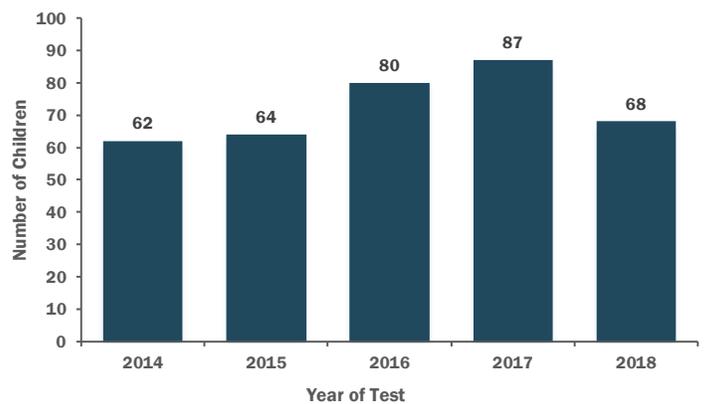


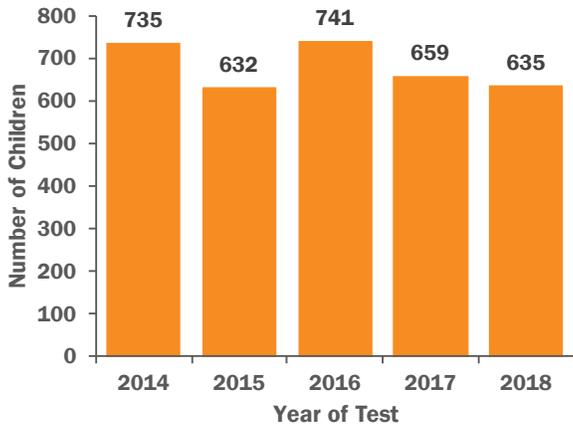
Figure 8: New Children Aged 72 Months or Younger, Requiring Medical Nurse Case Management, 2014-2018*



*From 2014 through June 30, 2018, the NH action level triggering a public health nurse home visit and lead exposure investigation was a confirmed elevated venous blood lead level of 10 µg/dL or higher reported for children aged 72 months or younger.

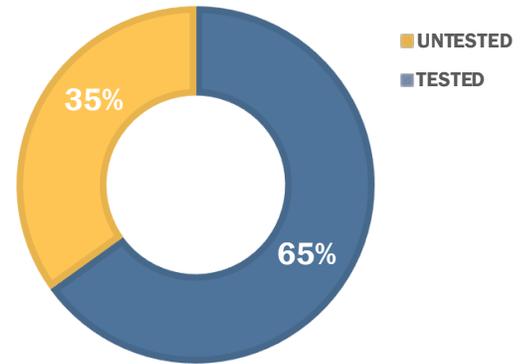
Figure 9: Number of Blood Lead Level Elevations At or Above the Center for Disease Control and Prevention’s Reference Level for Lead Exposure and Medical Case Management*

Reported Among Children Age 72 Months or Younger, 2014-2018



*CDC blood lead reference level = 5 µg/dL.

Figure 10: Percentage of Refugees (New Arrivals) Aged 6 Months - 16 Years Tested for Blood Lead



Federal guidelines require that all new refugee arrivals aged 6 months to 16 years are tested for blood lead upon entry into the United States. In 2018, 65% of refugees arriving in NH were tested for blood lead within 3 months of their arrival.



Testing A Child for Lead Exposure

- **Single Visit**
- **Simple Finger Stick**
- **Answer in 3 Minutes**

Children’s blood lead levels can easily and accurately be tested with a simple, finger-stick blood sample during a Well Child Check visit at age 1 year and **again** at age 2 years at healthcare provider offices with point-of-care testing using Lead Care II analyzers.

NH Requires Blood Lead Level Testing of All Children Ages 1 and 2 Years

Effective April 9, 2018, NH became a Universal blood lead level testing state. **All** NH children are required to have their blood lead levels tested at age 1 year, and **again**, a second test, at age 2 years. It is recommended to test all children 3 to 6 years who have not been previously tested.



Testing at 1 & 2 years old

Table 1: NH Statewide and Select High-Risk Communities – 2018 Testing Data

TOWN	AGE GROUP (IN MONTHS)	NUMBER SCREENED	POPULATION CENSUS 2010	PERCENTAGE SCREENED (%)	5 - 9 µg/dL Venous & Capillary Tests	≥10 µg/dL Capillary Tests	Existing ≥10 µg/dL Venous Tests	New ≥10 µg/dL Venous Tests
BERLIN	0 to 11	9	87	10.3	< 5	0	0	0
	12 to 23	70	75	93.3	< 5	0	0	0
	24 to 35	72	102	70.6	< 5	0	0	< 5
	36 to 72	20	284	7.0	< 5	0	0	< 5
CLAREMONT	0 to 11	2	128	1.6	0	0	0	0
	12 to 23	95	172	55.2	< 5	0	0	< 5
	24 to 35	72	177	40.7	< 5	0	0	0
	36 to 72	83	526	15.8	< 5	0	0	0
CONCORD	0 to 11	19	440	4.3	0	0	0	0
	12 to 23	276	452	61.1	11	0	0	< 5
	24 to 35	215	489	44.0	< 5	0	0	0
	36 to 72	100	1,441	6.9	8	0	0	0
CONWAY	0 to 11	1	89	1.1	< 5	0	0	0
	12 to 23	24	95	25.3	0	0	0	< 5
	24 to 35	17	99	17.2	0	0	0	0
	36 to 72	8	329	2.4	0	0	0	0
DOVER	0 to 11	11	374	2.9	0	0	0	0
	12 to 23	245	356	68.8	< 5	< 5	0	0
	24 to 35	173	341	50.7	< 5	0	0	0
	36 to 72	73	1,087	6.7	6	0	< 5	< 5
FARMINGTON	0 to 11	3	87	3.4	< 5	0	0	0
	12 to 23	56	98	57.1	< 5	0	0	< 5
	24 to 35	42	72	58.3	< 5	< 5	0	< 5
	36 to 72	9	265	3.4	0	0	0	0
FRANKLIN	0 to 11	17	99	17.2	< 5	0	0	0
	12 to 23	63	96	65.6	7	0	0	< 5
	24 to 35	52	95	54.7	< 5	< 5	0	0
	36 to 72	37	318	11.6	7	0	0	0
GREENVILLE	0 to 11	0	19	0.0	0	0	0	0
	12 to 23	21	23	91.3	< 5	0	0	0
	24 to 35	16	26	61.5	< 5	< 5	0	0
	36 to 72	10	84	11.9	< 5	0	< 5	0
HAVERHILL	0 to 11	0	45	0.0	0	0	0	0
	12 to 23	0	35	0.0	0	0	0	0
	24 to 35	0	69	0.0	0	0	0	0
	36 to 72	1	123	0.8	0	0	0	0
HILLSBORO	0 to 11	4	67	6.0	< 5	0	0	0
	12 to 23	49	77	63.6	< 5	< 5	0	< 5
	24 to 35	31	74	41.9	< 5	0	0	0
	36 to 72	20	240	8.3	0	0	0	0
HINSDALE	0 to 11	0	45	0.0	0	0	0	0
	12 to 23	30	31	96.8	< 5	0	0	< 5
	24 to 35	29	41	70.7	< 5	0	0	0
	36 to 72	12	133	9.0	0	0	0	0
HUDSON	0 to 11	28	257	10.9	0	0	0	0
	12 to 23	153	255	60.0	< 5	< 5	0	0
	24 to 35	139	285	48.8	0	0	0	0
	36 to 72	49	953	5.1	0	0	< 5	0

TOWN	AGE GROUP (IN MONTHS)	NUMBER SCREENED	POPULATION CENSUS 2010	PERCENTAGE SCREENED (%)	5 - 9 µg/dL Venous & Capillary Tests	≥10 µg/dL Capillary Tests	Existing ≥10 µg/dL Venous Tests	New ≥10 µg/dL Venous Tests
KEENE	0 to 11	6	159	3.8	0	0	0	0
	12 to 23	152	182	83.5	8	0	0	< 5
	24 to 35	110	185	59.5	< 5	0	0	0
	36 to 72	24	613	3.9	0	0	0	0
LACONIA	0 to 11	17	178	9.6	< 5	0	0	< 5
	12 to 23	124	178	69.7	7	< 5	0	0
	24 to 35	82	174	47.1	< 5	< 5	0	0
	36 to 72	36	506	7.1	< 5	0	0	0
LEBANON	0 to 11	4	184	2.2	0	0	0	0
	12 to 23	72	174	41.4	< 5	< 5	0	0
	24 to 35	61	160	38.1	< 5	0	0	0
	36 to 72	16	443	3.6	0	0	0	0
MANCHESTER	0 to 11	55	1,525	3.6	0	0	0	0
	12 to 23	1,099	1,512	72.7	29	< 5	< 5	10
	24 to 35	908	1,498	60.6	21	< 5	< 5	5
	36 to 72	415	4,165	10.0	20	< 5	4	< 5
NASHUA	0 to 11	52	1,076	4.8	0	0	0	0
	12 to 23	788	1,088	72.4	19	< 5	0	0
	24 to 35	558	1,078	51.8	10	0	< 5	< 5
	36 to 72	204	3,274	6.2	12	< 5	< 5	0
NEWMARKET	0 to 11	14	101	13.9	< 5	0	0	0
	12 to 23	67	123	54.5	< 5	0	0	0
	24 to 35	51	123	41.5	0	0	0	0
	36 to 72	11	327	3.4	< 5	0	0	0
NEWPORT	0 to 11	3	74	4.1	0	0	0	0
	12 to 23	42	92	45.7	< 5	0	0	0
	24 to 35	38	77	49.4	6	0	0	0
	36 to 72	17	214	7.9	0	0	0	0
PETERBOROUGH	0 to 11	1	58	1.7	0	0	0	0
	12 to 23	46	63	73.0	< 5	0	< 5	0
	24 to 35	42	63	66.7	< 5	0	0	0
	36 to 72	11	171	6.4	< 5	0	0	0
PITTSFIELD	0 to 11	5	63	7.9	< 5	0	0	0
	12 to 23	28	47	59.6	< 5	0	0	0
	24 to 35	25	45	55.6	< 5	0	0	0
	36 to 72	14	171	8.2	< 5	0	0	0
ROCHESTER	0 to 11	28	333	8.4	< 5	0	0	0
	12 to 23	208	384	54.2	7	0	0	< 5
	24 to 35	178	380	46.8	12	< 5	< 5	< 5
	36 to 72	66	1,043	6.3	5	0	< 5	0
SOMERSWORTH	0 to 11	11	170	6.5	0	0	0	0
	12 to 23	90	163	55.2	< 5	0	0	0
	24 to 35	66	157	42.0	0	0	0	0
	36 to 72	37	480	7.7	< 5	0	< 5	0
STATE OF NEW HAMPSHIRE	0 to 11	769	12,994	5.9	16	1	0	2
	12 to 23	9,038	13,521	66.8	216	15	5	39
	24 to 35	7,250	13,959	51.9	166	15	5	17
	36 to 72	2,815	44,293	6.4	104	6	18	10
TOTAL	0 to 72	19,872	84,767	23.4	502	37	28	68

Lead by the Numbers in 2018

19,872

Children 72 months or younger tested for elevated blood lead



2,566

Parents notified that their children had elevated blood lead 3 µg/dL or higher



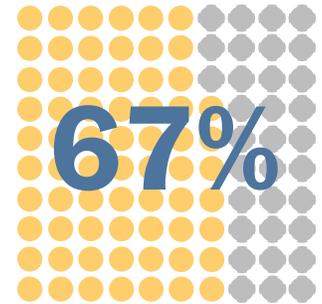
Children 72 months or younger had blood lead levels high enough to call for medical management



Of structures in NH's highest risk communities built prior to 1978 when lead paint was banned



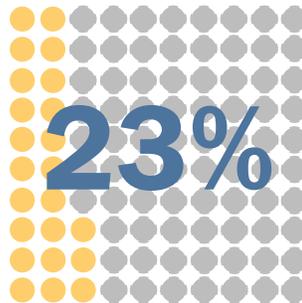
New children with elevated blood lead levels high enough to require medical nurse case management



Only 67% of one-year-olds tested for elevated blood lead levels



Only 52% of two-year-olds tested for elevated blood lead levels



Only 23% of children 72 months or younger have been tested for elevated blood lead levels



1 in 5

Attention Deficit Disorder cases were attributed to lead exposure

www.aap.org



1 in 3

Parents of children with blood lead levels greater than 7.5 µg/dL, report that renovations have taken place in the home within the last six months

Lead poisoning is
100%
preventable



It only takes a speck of lead dust the size of a grain of salt to poison a child