



MARYLAND DEPARTMENT OF THE ENVIRONMENT

Lead Poisoning Prevention Program

Childhood Blood Lead Surveillance in Maryland

Annual Report 2006

Number and percentage of prevalence and incidence cases
by age and county of residence

Supplementary Data Tables: Supplement #3



June 2007

MARYLAND DEPARTMENT OF THE ENVIRONMENT
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Allegany County

Age Group	Population of Children	Children Tested		Prevalence		Incidence	
		Number	Percent	Number	Percent	Number	Percent
Under One	821	46	5.6	0	0.0	0	0.0
One Year	827	491	59.4	7	1.4	7	1.4
Two Years	855	433	50.7	9	2.1	7	1.6
Three Years	817	74	9.1	3	4.1	1	1.4
Four Years	787	77	9.8	2	2.6	1	1.3
Five years	797	51	6.4	1	2.0	1	2.0
Total	4,904	1,172	23.9	22	1.9	17	1.5
6-17 Years	11,281	52	0.5	0	0.0		

Anne Arundel County

Age Group	Population of Children	Children Tested		Prevalence		Incidence	
		Number	Percent	Number	Percent	Number	Percent
Under One	7,351	582	7.9	3	0.5	3	0.5
One Year	7,433	2,534	34.1	6	0.2	5	0.2
Two Years	7,161	1,683	23.5	5	0.3	4	0.2
Three Years	7,111	642	9.0	1	0.2	1	0.2
Four Years	7,096	515	7.3	3	0.6	2	0.4
Five years	7,153	466	6.5	2	0.4	1	0.2
Total	43,306	6,422	14.8	20	0.3	16	0.2
6-17 Years	83,377	447	0.5	0	0.0		

Baltimore County

Age Group	Population of Children	Children Tested		Prevalence		Incidence	
		Number	Percent	Number	Percent	Number	Percent
Under One	9,987	1,662	16.6	5	0.3	5	0.3
One Year	9,964	5,300	53.2	33	0.6	30	0.6
Two Years	9,783	4,164	42.6	26	0.6	23	0.6
Three Years	9,717	1,585	16.3	8	0.5	4	0.3
Four Years	9,986	1,498	15.0	6	0.4	3	0.2
Five years	9,711	1,135	11.7	7	0.6	4	0.4
Total	59,148	15,344	25.9	85	0.6	69	0.4
6-17 Years	124,208	1,578	1.3	7	0.4		

Refer to page 10 for terms and definitions.

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Baltimore City

Age Group	Population of Children	Children Tested		Prevalence		Incidence	
		Number	Percent	Number	Percent	Number	Percent
Under One	9,776	1,781	18.2	35	2.0	35	2.0
One Year	9,331	6,190	66.3	243	3.9	208	3.4
Two Years	8,921	4,719	52.9	259	5.5	195	4.1
Three Years	8,874	2,245	25.3	148	6.6	68	3.0
Four Years	8,684	1,984	22.8	93	4.7	47	2.4
Five years	8,961	1,444	16.1	65	4.5	20	1.4
Total	54,547	18,363	33.7	843	4.6	573	3.1
6-17 Years	113,028	3,623	3.2	83	2.3		

Calvert County

Age Group	Population of Children	Children Tested		Prevalence		Incidence	
		Number	Percent	Number	Percent	Number	Percent
Under One	1,077	65	6.0	0	0.0	0	0.0
One Year	1,037	335	32.3	5	1.5	5	1.5
Two Years	1,152	182	15.8	4	2.2	4	2.2
Three Years	1,104	78	7.1	0	0.0	0	0.0
Four Years	1,173	49	4.2	0	0.0	0	0.0
Five years	1,193	40	3.4	0	0.0	0	0.0
Total	6,737	749	11.1	9	1.2	9	1.2
6-17 Years	15,613	66	0.4	0	0.0		

Caroline County

Age Group	Population of Children	Children Tested		Prevalence		Incidence	
		Number	Percent	Number	Percent	Number	Percent
Under One	386	26	6.7	0	0.0	0	0.0
One Year	367	365	99.4	5	1.4	2	0.5
Two Years	394	294	74.6	1	0.3	0	0.0
Three Years	457	93	20.4	1	1.1	1	1.1
Four Years	408	72	17.7	0	0.0	0	0.0
Five years	452	43	9.5	0	0.0	0	0.0
Total	2,463	893	36.3	7	0.8	3	0.3
6-17 Years	5,637	26	0.5	1	3.8		

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Carroll County

Age Group	Population of Children	Children Tested		Prevalence		Incidence	
		Number	Percent	Number	Percent	Number	Percent
Under One	2,096	178	8.5	0	0.0	0	0.0
One Year	2,148	541	25.2	4	0.7	4	0.7
Two Years	2,238	264	11.8	1	0.4	1	0.4
Three Years	2,236	147	6.6	1	0.7	0	0.0
Four Years	2,320	134	5.8	1	0.7	0	0.0
Five years	2,362	114	4.8	0	0.0	0	0.0
Total	13,400	1,378	10.3	7	0.5	5	0.4
6-17 Years	29,276	113	0.4	2	1.8		

Cecil County

Age Group	Population of Children	Children Tested		Prevalence		Incidence	
		Number	Percent	Number	Percent	Number	Percent
Under One	1,304	76	5.8	1	1.3	1	1.3
One Year	1,281	489	38.2	2	0.4	2	0.4
Two Years	1,299	161	12.4	1	0.6	1	0.6
Three Years	1,268	98	7.7	1	1.0	1	1.0
Four Years	1,355	131	9.7	1	0.8	1	0.8
Five years	1,302	103	7.9	0	0.0	0	0.0
Total	7,808	1,058	13.5	6	0.6	6	0.6
6-17 Years	16,393	130	0.8	3	2.3		

Charles County

Age Group	Population of Children	Children Tested		Prevalence		Incidence	
		Number	Percent	Number	Percent	Number	Percent
Under One	1,801	265	14.7	0	0.0	0	0.0
One Year	1,892	552	29.2	0	0.0	0	0.0
Two Years	1,934	489	25.3	1	0.2	1	0.2
Three Years	1,864	255	13.7	0	0.0	0	0.0
Four Years	1,906	229	12.0	0	0.0	0	0.0
Five years	2,008	129	6.4	0	0.0	0	0.0
Total	11,404	1,919	16.8	1	0.1	1	0.1
6-17 Years	23,987	207	0.9	0	0.0		

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Dorchester County

Age Group	Population of Children	Children Tested		Prevalence		Incidence	
		Number	Percent	Number	Percent	Number	Percent
Under One	371	25	6.7	0	0.0	0	0.0
One Year	337	274	81.2	6	2.2	5	1.8
Two Years	374	219	58.5	4	1.8	3	1.4
Three Years	364	83	22.8	1	1.2	0	0.0
Four Years	357	60	16.8	0	0.0	0	0.0
Five years	374	23	6.1	0	0.0	0	0.0
Total	2,177	684	31.4	11	1.6	8	1.2
6-17 Years	5,093	47	0.9	0	0.0		

Frederick County

Age Group	Population of Children	Children Tested		Prevalence		Incidence	
		Number	Percent	Number	Percent	Number	Percent
Under One	2,968	219	7.4	0	0.0	0	0.0
One Year	3,095	1,279	41.3	5	0.4	5	0.4
Two Years	3,072	564	18.4	3	0.5	2	0.4
Three Years	3,081	305	9.9	0	0.0	0	0.0
Four Years	3,135	371	11.8	1	0.3	0	0.0
Five years	3,133	370	11.8	1	0.3	0	0.0
Total	18,484	3,108	16.8	10	0.3	7	0.2
6-17 Years	36,559	206	0.6	0	0.0		

Garrett County

Age Group	Population of Children	Children Tested		Prevalence		Incidence	
		Number	Percent	Number	Percent	Number	Percent
Under One	404	21	5.2	0	0.0	0	0.0
One Year	394	183	46.5	2	1.1	1	0.5
Two Years	396	156	39.4	1	0.6	1	0.6
Three Years	375	68	18.1	2	2.9	1	1.5
Four Years	409	37	9.1	0	0.0	0	0.0
Five years	428	30	7.0	0	0.0	0	0.0
Total	2,406	495	20.6	5	1.0	3	0.6
6-17 Years	5,287	28	0.5	0	0.0		

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Harford County

Age Group	Population of Children	Children Tested		Prevalence		Incidence	
		Number	Percent	Number	Percent	Number	Percent
Under One	3,344	408	12.2	2	0.5	2	0.5
One Year	3,486	958	27.5	6	0.6	6	0.6
Two Years	3,392	743	21.9	4	0.5	4	0.5
Three Years	3,552	333	9.4	1	0.3	1	0.3
Four Years	3,456	353	10.2	1	0.3	0	0.0
Five years	3,491	246	7.0	1	0.4	1	0.4
Total	20,721	3,041	14.7	15	0.5	14	0.5
6-17 Years	41,357	312	0.8	1	0.3		

Howard County

Age Group	Population of Children	Children Tested		Prevalence		Incidence	
		Number	Percent	Number	Percent	Number	Percent
Under One	3,890	235	6.0	1	0.4	1	0.4
One Year	3,869	752	19.4	2	0.3	2	0.3
Two Years	3,979	498	12.5	1	0.2	0	0.0
Three Years	4,083	246	6.0	2	0.8	1	0.4
Four Years	4,105	265	6.5	1	0.4	1	0.4
Five years	4,166	192	4.6	1	0.5	1	0.5
Total	24,092	2,188	9.1	8	0.4	6	0.3
6-17 Years	46,425	518	1.1	0	0.0		

Kent County

Age Group	Population of Children	Children Tested		Prevalence		Incidence	
		Number	Percent	Number	Percent	Number	Percent
Under One	218	30	13.8	0	0.0	0	0.0
One Year	201	113	56.3	3	2.7	3	2.7
Two Years	193	71	36.8	0	0.0	0	0.0
Three Years	177	18	10.2	1	5.6	1	5.6
Four Years	183	18	9.8	0	0.0	0	0.0
Five years	213	7	3.3	0	0.0	0	0.0
Total	1,184	257	21.7	4	1.6	4	1.6
6-17 Years	2,980	8	0.3	0	0.0		

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Montgomery County

Age Group	Population of Children	Children Tested		Prevalence		Incidence	
		Number	Percent	Number	Percent	Number	Percent
Under One	13,588	3,458	25.4	8	0.2	8	0.2
One Year	13,165	4,462	33.9	16	0.4	16	0.4
Two Years	13,027	3,790	29.1	9	0.2	8	0.2
Three Years	12,852	2,005	15.6	6	0.3	4	0.2
Four Years	13,121	2,359	18.0	13	0.6	11	0.5
Five years	12,656	1,337	10.6	1	0.1	1	0.1
Total	78,408	17,411	22.2	53	0.3	48	0.3
6-17 Years	147,293	2,043	1.4	8	0.4		

Prince George's County

Age Group	Population of Children	Children Tested		Prevalence		Incidence	
		Number	Percent	Number	Percent	Number	Percent
Under One	12,629	1,858	14.7	5	0.3	5	0.3
One Year	12,765	5,824	45.6	16	0.3	15	0.3
Two Years	12,676	4,033	31.8	25	0.6	22	0.5
Three Years	12,639	2,319	18.3	12	0.5	11	0.5
Four Years	12,592	2,653	21.1	10	0.4	10	0.4
Five years	12,695	1,874	14.8	3	0.2	3	0.2
Total	75,996	18,561	24.4	71	0.4	66	0.4
6-17 Years	145,589	2,579	1.8	12	0.5		

Queen Anne's County

Age Group	Population of Children	Children Tested		Prevalence		Incidence	
		Number	Percent	Number	Percent	Number	Percent
Under One	592	38	6.4	0	0.0	0	0.0
One Year	569	273	48.0	1	0.4	1	0.4
Two Years	539	174	32.3	2	1.1	2	1.1
Three Years	591	65	11.0	0	0.0	0	0.0
Four Years	540	75	13.9	1	1.3	1	1.3
Five years	593	34	5.7	0	0.0	0	0.0
Total	3,425	659	19.2	4	0.6	4	0.6
6-17 Years	7,059	29	0.4	0	0.0		

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Saint Mary's County

Age Group	Population of Children	Children Tested		Prevalence		Incidence	
		Number	Percent	Number	Percent	Number	Percent
Under One	1,313	250	19.0	1	0.4	1	0.4
One Year	1,370	549	40.1	4	0.7	4	0.7
Two Years	1,422	427	30.0	1	0.2	1	0.2
Three Years	1,352	142	10.5	5	3.5	5	3.5
Four Years	1,357	86	6.3	0	0.0	0	0.0
Five years	1,471	63	4.3	0	0.0	0	0.0
Total	8,285	1,517	18.3	11	0.7	11	0.7
6-17 Years	16,452	76	0.5	0	0.0		

Somerset County

Age Group	Population of Children	Children Tested		Prevalence		Incidence	
		Number	Percent	Number	Percent	Number	Percent
Under One	283	38	13.4	0	0.0	0	0.0
One Year	235	186	79.2	3	1.6	2	1.1
Two Years	259	172	66.5	6	3.5	3	1.7
Three Years	251	52	20.7	0	0.0	0	0.0
Four Years	281	39	13.9	0	0.0	0	0.0
Five years	252	19	7.5	0	0.0	0	0.0
Total	1,560	506	32.4	9	1.8	5	1.0
6-17 Years	3,442	62	1.8	0	0.0		

Talbot County

Age Group	Population of Children	Children Tested		Prevalence		Incidence	
		Number	Percent	Number	Percent	Number	Percent
Under One	378	18	4.8	0	0.0	0	0.0
One Year	336	268	79.7	1	0.4	1	0.4
Two Years	393	215	54.7	4	1.9	4	1.9
Three Years	403	53	13.2	0	0.0	0	0.0
Four Years	402	49	12.2	0	0.0	0	0.0
Five years	413	33	8.0	0	0.0	0	0.0
Total	2,326	636	27.3	5	0.8	5	0.8
6-17 Years	5,142	23	0.4	0	0.0		

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Washington County

Age Group	Population of Children	Children Tested		Prevalence		Incidence	
		Number	Percent	Number	Percent	Number	Percent
Under One	1,847	121	6.6	1	0.8	1	0.8
One Year	1,735	1,020	58.8	5	0.5	4	0.4
Two Years	1,785	729	40.8	7	1.0	6	0.8
Three Years	1,775	327	18.4	3	0.9	2	0.6
Four Years	1,720	415	24.1	2	0.5	2	0.5
Five years	1,732	400	23.1	0	0.0	0	0.0
Total	10,593	3,012	28.4	18	0.6	15	0.5
6-17 Years	21,082	175	0.8	0	0.0		

Wicomico County

Age Group	Population of Children	Children Tested		Prevalence		Incidence	
		Number	Percent	Number	Percent	Number	Percent
Under One	1,245	225	18.1	2	0.9	2	0.9
One Year	1,132	718	63.4	6	0.8	6	0.8
Two Years	1,154	725	62.8	8	1.1	6	0.8
Three Years	1,222	307	25.1	3	1.0	1	0.3
Four Years	1,059	273	25.8	2	0.7	1	0.4
Five years	1,142	192	16.8	1	0.5	0	0.0
Total	6,955	2,440	35.1	22	0.9	16	0.7
6-17 Years	14,939	376	2.5	5	1.3		

Worcester County

Age Group	Population of Children	Children Tested		Prevalence		Incidence	
		Number	Percent	Number	Percent	Number	Percent
Under One	531	58	10.9	1	1.7	1	1.7
One Year	499	335	67.1	3	0.9	3	0.9
Two Years	529	230	43.4	1	0.4	1	0.4
Three Years	465	128	27.5	1	0.8	0	0.0
Four Years	461	134	29.1	1	0.7	0	0.0
Five years	516	77	14.9	0	0.0	0	0.0
Total	3,002	962	32.0	7	0.7	5	0.5
6-17 Years	6,734	230	3.4	0	0.0		

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County Unknown

Age Group	Population of Children	Children Tested		Prevalence		Incidence	
		Number	Percent	Number	Percent	Number	Percent
Under One		19		4		4	
One Year		74		8		8	
Two Years		51		5		5	
Three Years		19		2		2	
Four Years		17		1		1	
Five years		19		1		0	
Total		199		21		20	
6-17 Years		41		1			

Statewide

Age Group	Population of Children	Children Tested		Prevalence		Incidence	
		Number	Percent	Number	Percent	Number	Percent
Under One	78,199	11,702	15.0	69	0.6	69	0.6
One Year	77,470	34,065	44.0	392	1.2	345	1.0
Two Years	76,927	25,186	32.7	388	1.5	304	1.2
Three Years	76,629	11,687	15.3	202	1.7	105	0.9
Four Years	76,892	11,893	15.5	139	1.2	81	0.7
Five years	77,214	8,441	10.9	84	1.0	32	0.4
Total	463,331	102,974	22.2	1,274	1.2	936	0.9
6-17 Years	928,233	12,995	1.4	123	0.9		

Terms and definitions:

1. County assignment in the order of available address information is based on census tract or zip code of the address.
2. Population of children has been adapted from US Census Bureau age-sex population projection at the state level for 2006.
3. Prevalence is based on number of children with blood lead level ≥ 10 $\mu\text{g}/\text{dL}$ who may have had one or more EBL in the past.
4. Incidence is based on number of children with the first blood lead level ≥ 10 $\mu\text{g}/\text{dL}$ in 2006. Incidence data is not calculated for children 6-17 years old.