



MARYLAND DEPARTMENT OF THE ENVIRONMENT

Lead Poisoning Prevention Program

Childhood Blood Lead Surveillance in Maryland

2003 Annual Report

Number and percentage of children with elevated blood lead (EBL) and lead poisoning by age
and county of residence

Supplementary Data Tables: Supplement #3



October 2004

MARYLAND DEPARTMENT OF THE ENVIRONMENT
Lead Poisoning Prevention Program: Childhood Lead Registry
Number and percentage of children with elevated blood lead (EBL) and lead poisoning
by age and county of residence (2003 Childhood Lead Registry Data)

Age Group	Allegany County						
	Population of Children	Children Tested		Elevated Blood Lead		Lead Poisoning	
		Number	Percent	Number	Percent	Number	Percent
Under One Year	685	76	11.1	2	2.6	0	0.0
One Year	703	477	67.9	12	2.5	1	0.2
Two Years	721	403	55.9	9	2.2	2	0.5
Three Years	711	91	12.8	1	1.1	1	1.1
Four Years	700	124	17.7	4	3.2	1	0.8
Five Years	714	144	20.2	2	1.4	0	0.0
Total	4,234	1,315	31.1	30	2.3	5	0.4
6-17 Years	11,551	150	1.3	6	4.0	0	0.0

Age Group	Anne Arundel County						
	Population of Children	Children Tested		Elevated Blood Lead		Lead Poisoning	
		Number	Percent	Number	Percent	Number	Percent
Under One Year	6,730	443	6.6	2	0.5	1	0.2
One Year	6,931	1,929	27.8	7	0.4	0	0.0
Two Years	6,632	1,270	19.2	5	0.4	0	0.0
Three Years	6,788	492	7.2	2	0.4	0	0.0
Four Years	6,927	458	6.6	4	0.9	0	0.0
Five Years	6,836	437	6.4	0	0.0	0	0.0
Total	40,844	5,029	12.3	20	0.4	1	0.0
6-17 Years	91,302	611	0.7	2	0.3	0	0.0

Age Group	Baltimore County						
	Population of Children	Children Tested		Elevated Blood Lead		Lead Poisoning	
		Number	Percent	Number	Percent	Number	Percent
Under One Year	9,003	1,013	11.3	2	0.2	0	0.0
One Year	9,147	2,969	32.5	40	1.3	7	0.2
Two Years	8,922	1,980	22.2	25	1.3	4	0.2
Three Years	9,132	1,280	14.0	23	1.8	4	0.3
Four Years	9,599	1,619	16.9	14	0.9	2	0.1
Five Years	9,130	1,566	17.2	16	1.0	1	0.1
Total	54,933	10,427	19.0	120	1.2	18	0.2
6-17 Years	134,310	2,197	1.6	13	0.6	3	0.1

Refer to page 10 for terms and definitions

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Age Group	Baltimore City						
	Population of Children	Children Tested		Elevated Blood Lead		Lead Poisoning	
		Number	Percent	Number	Percent	Number	Percent
Under One Year	9,190	1,700	18.5	20	1.2	4	0.2
One Year	8,935	5,539	62.0	289	5.2	45	0.8
Two Years	8,482	4,374	51.6	338	7.7	45	1.0
Three Years	8,697	2,441	28.1	239	9.8	29	1.2
Four Years	8,704	2,326	26.7	183	7.9	24	1.0
Five Years	7,883	1,862	23.6	97	5.2	13	0.7
Total	51,892	18,242	35.2	1,166	6.4	160	0.9
6-17 Years	113,948	25,026	22.0	1,337	5.3	177	0.7

Age Group	Calvert County						
	Population of Children	Children Tested		Elevated Blood Lead		Lead Poisoning	
		Number	Percent	Number	Percent	Number	Percent
Under One Year	959	47	4.9	0	0.0	0	0.0
One Year	939	368	39.2	0	0.0	0	0.0
Two Years	1,036	143	13.8	1	0.7	0	0.0
Three Years	1,025	60	5.9	0	0.0	0	0.0
Four Years	1,113	41	3.7	1	2.4	0	0.0
Five Years	1,136	23	2.0	0	0.0	0	0.0
Total	6,209	682	11.0	2	0.3	0	0.0
6-17 Years	17,572	52	0.3	1	1.9	0	0.0

Age Group	Caroline County						
	Population of Children	Children Tested		Elevated Blood Lead		Lead Poisoning	
		Number	Percent	Number	Percent	Number	Percent
Under One Year	347	26	7.5	0	0.0	0	0.0
One Year	338	275	81.4	5	1.8	1	0.4
Two Years	358	199	55.6	5	2.5	0	0.0
Three Years	429	113	26.4	2	1.8	1	0.9
Four Years	391	101	25.8	1	1.0	1	1.0
Five Years	407	82	20.1	1	1.2	0	0.0
Total	2,270	796	35.1	14	1.8	3	0.4
6-17 Years	5,986	92	1.5	2	2.2	0	0.0

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Age Group	Carroll County						
	Population of Children	Children Tested		Elevated Blood Lead		Lead Poisoning	
		Number	Percent	Number	Percent	Number	Percent
Under One Year	1,768	98	5.5	0	0.0	0	0.0
One Year	1,846	379	20.5	9	2.4	1	0.3
Two Years	1,910	204	10.7	3	1.5	0	0.0
Three Years	1,967	140	7.1	2	1.4	1	0.7
Four Years	2,086	110	5.3	0	0.0	0	0.0
Five Years	2,225	109	4.9	0	0.0	0	0.0
Total	11,801	1,040	8.8	14	1.3	2	0.2
6-17 Years	32,301	131	0.4	1	0.8	0	0.0

Age Group	Cecil County						
	Population of Children	Children Tested		Elevated Blood Lead		Lead Poisoning	
		Number	Percent	Number	Percent	Number	Percent
Under One Year	1,149	58	5.0	0	0.0	0	0.0
One Year	1,150	385	33.5	4	1.0	1	0.3
Two Years	1,158	113	9.8	3	2.7	0	0.0
Three Years	1,165	135	11.6	1	0.7	0	0.0
Four Years	1,273	132	10.4	0	0.0	0	0.0
Five Years	1,232	136	11.0	1	0.7	1	0.7
Total	7,127	959	13.5	9	0.9	2	0.2
6-17 Years	18,246	119	0.7	2	1.7	2	1.7

Age Group	Charles County						
	Population of Children	Children Tested		Elevated Blood Lead		Lead Poisoning	
		Number	Percent	Number	Percent	Number	Percent
Under One Year	1,685	174	10.3	0	0.0	0	0.0
One Year	1,802	358	19.9	1	0.3	0	0.0
Two Years	1,830	371	20.3	1	0.3	0	0.0
Three Years	1,818	213	11.7	0	0.0	0	0.0
Four Years	1,901	162	8.5	0	0.0	0	0.0
Five Years	1,988	113	5.7	0	0.0	0	0.0
Total	11,023	1,391	12.6	2	0.1	0	0.0
6-17 Years	27,307	223	0.8	0	0.0	0	0.0

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Age Group	Dorchester County						
	Population of Children	Children Tested		Elevated Blood Lead		Lead Poisoning	
		Number	Percent	Number	Percent	Number	Percent
Under One Year	325	14	4.3	2	14.3	2	14.3
One Year	301	185	61.5	8	4.3	2	1.1
Two Years	330	152	46.0	8	5.3	0	0.0
Three Years	331	79	23.9	5	6.3	1	1.3
Four Years	333	65	19.5	2	3.1	0	0.0
Five Years	332	45	13.6	1	2.2	0	0.0
Total	1,952	540	27.7	26	4.8	5	0.9
6-17 Years	5,229	59	1.1	2	3.4	0	0.0

Age Group	Frederick County						
	Population of Children	Children Tested		Elevated Blood Lead		Lead Poisoning	
		Number	Percent	Number	Percent	Number	Percent
Under One Year	2,736	117	4.3	2	1.7	0	0.0
One Year	2,906	703	24.2	4	0.6	2	0.3
Two Years	2,864	286	10.0	5	1.7	0	0.0
Three Years	2,961	187	6.3	4	2.1	0	0.0
Four Years	3,081	173	5.6	1	0.6	0	0.0
Five Years	3,094	164	5.3	0	0.0	0	0.0
Total	17,641	1,630	9.2	16	1.0	2	0.1
6-17 Years	41,658	175	0.4	1	0.6	1	0.6

Age Group	Garrett County						
	Population of Children	Children Tested		Elevated Blood Lead		Lead Poisoning	
		Number	Percent	Number	Percent	Number	Percent
Under One Year	324	25	7.7	1	4.0	0	0.0
One Year	322	92	28.6	0	0.0	0	0.0
Two Years	321	88	27.4	1	1.1	0	0.0
Three Years	313	60	19.1	0	0.0	0	0.0
Four Years	349	74	21.2	1	1.4	0	0.0
Five Years	390	90	23.1	0	0.0	0	0.0
Total	2,020	429	21.2	3	0.7	0	0.0
6-17 Years	5,387	64	1.2	1	1.6	0	0.0

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Age Group	Harford County						
	Population of Children	Children Tested		Elevated Blood Lead		Lead Poisoning	
		Number	Percent	Number	Percent	Number	Percent
Under One Year	2,856	262	9.2	2	0.8	0	0.0
One Year	3,032	684	22.6	5	0.7	1	0.1
Two Years	2,931	471	16.1	7	1.5	1	0.2
Three Years	3,163	279	8.8	1	0.4	0	0.0
Four Years	3,148	444	14.1	3	0.7	0	0.0
Five Years	3,352	534	15.9	1	0.2	0	0.0
Total	18,482	2,674	14.5	19	0.7	2	0.1
6-17 Years	45,912	536	1.2	4	0.7	1	0.2

Age Group	Howard County						
	Population of Children	Children Tested		Elevated Blood Lead		Lead Poisoning	
		Number	Percent	Number	Percent	Number	Percent
Under One Year	3,443	216	6.3	1	0.5	0	0.0
One Year	3,487	583	16.7	2	0.3	0	0.0
Two Years	3,562	334	9.4	3	0.9	1	0.3
Three Years	3,767	202	5.4	2	1.0	1	0.5
Four Years	3,873	190	4.9	0	0.0	0	0.0
Five Years	4,061	163	4.0	0	0.0	0	0.0
Total	22,193	1,688	7.6	8	0.5	2	0.1
6-17 Years	52,419	337	0.6	2	0.6	0	0.0

Age Group	Kent County						
	Population of Children	Children Tested		Elevated Blood Lead		Lead Poisoning	
		Number	Percent	Number	Percent	Number	Percent
Under One Year	187	15	8.0	0	0.0	0	0.0
One Year	175	66	37.6	2	3.0	0	0.0
Two Years	168	48	28.6	1	2.1	0	0.0
Three Years	158	16	10.1	0	0.0	0	0.0
Four Years	168	8	4.8	0	0.0	0	0.0
Five Years	185	4	2.2	0	0.0	0	0.0
Total	1,041	157	15.1	3	1.9	0	0.0
6-17 Years	3,137	8	0.3	0	0.0	0	0.0

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Age Group	Montgomery County						
	Population of Children	Children Tested		Elevated Blood Lead		Lead Poisoning	
		Number	Percent	Number	Percent	Number	Percent
Under One Year	12,932	2,094	16.2	10	0.5	2	0.1
One Year	12,760	2,675	21.0	13	0.5	3	0.1
Two Years	12,541	1,990	15.9	8	0.4	0	0.0
Three Years	12,752	1,281	10.0	4	0.3	2	0.2
Four Years	13,314	1,424	10.7	13	0.9	2	0.1
Five Years	12,350	699	5.7	5	0.7	0	0.0
Total	76,648	10,163	13.3	53	0.5	9	0.1
6-17 Years	163,982	1,255	0.8	6	0.5	2	0.2

Age Group	Prince George's County						
	Population of Children	Children Tested		Elevated Blood Lead		Lead Poisoning	
		Number	Percent	Number	Percent	Number	Percent
Under One Year	11,932	1,351	11.3	3	0.2	2	0.1
One Year	12,282	3,618	29.5	24	0.7	1	0.0
Two Years	12,113	2,496	20.6	16	0.6	2	0.1
Three Years	12,449	1,756	14.1	12	0.7	1	0.1
Four Years	12,685	1,907	15.0	16	0.8	1	0.1
Five Years	12,327	1,298	10.5	6	0.5	0	0.0
Total	73,788	12,426	16.8	77	0.6	7	0.1
6-17 Years	160,517	1,945	1.2	17	0.9	4	0.2

Age Group	Queen Anne's County						
	Population of Children	Children Tested		Elevated Blood Lead		Lead Poisoning	
		Number	Percent	Number	Percent	Number	Percent
Under One Year	518	36	7.0	0	0.0	0	0.0
One Year	508	220	43.3	2	0.9	1	0.5
Two Years	478	116	24.3	2	1.7	1	0.9
Three Years	539	50	9.3	1	2.0	0	0.0
Four Years	504	48	9.5	0	0.0	0	0.0
Five Years	576	25	4.3	0	0.0	0	0.0
Total	3,123	495	15.8	5	1.0	2	0.4
6-17 Years	8,002	26	0.3	0	0.0	0	0.0

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Age Group	Saint Mary's County						
	Population of Children	Children Tested		Elevated Blood Lead		Lead Poisoning	
		Number	Percent	Number	Percent	Number	Percent
Under One Year	1,202	141	11.7	1	0.7	0	0.0
One Year	1,278	362	28.3	4	1.1	0	0.0
Two Years	1,317	221	16.8	4	1.8	0	0.0
Three Years	1,292	91	7.0	0	0.0	0	0.0
Four Years	1,324	56	4.2	0	0.0	0	0.0
Five Years	1,414	32	2.3	0	0.0	0	0.0
Total	7,827	903	11.5	9	1.0	0	0.0
6-17 Years	18,368	67	0.4	2	3.0	0	0.0

Age Group	Somerset County						
	Population of Children	Children Tested		Elevated Blood Lead		Lead Poisoning	
		Number	Percent	Number	Percent	Number	Percent
Under One Year	256	44	17.2	0	0.0	0	0.0
One Year	217	177	81.7	6	3.4	1	0.6
Two Years	237	150	63.2	4	2.7	2	1.3
Three Years	237	58	24.5	5	8.6	2	3.4
Four Years	272	62	22.8	3	4.8	0	0.0
Five Years	238	53	22.2	0	0.0	0	0.0
Total	1,457	544	37.3	18	3.3	5	0.9
6-17 Years	3,728	105	2.8	0	0.0	0	0.0

Age Group	Talbot County						
	Population of Children	Children Tested		Elevated Blood Lead		Lead Poisoning	
		Number	Percent	Number	Percent	Number	Percent
Under One Year	334	20	6.0	0	0.0	0	0.0
One Year	302	207	68.5	7	3.4	0	0.0
Two Years	351	113	32.2	6	5.3	1	0.9
Three Years	369	46	12.5	1	2.2	0	0.0
Four Years	377	33	8.7	0	0.0	0	0.0
Five Years	378	30	7.9	1	3.3	0	0.0
Total	2,111	449	21.3	15	3.3	1	0.2
6-17 Years	5,449	36	0.7	0	0.0	0	0.0

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Age Group	Washington County						
	Population of Children	Children Tested		Elevated Blood Lead		Lead Poisoning	
		Number	Percent	Number	Percent	Number	Percent
Under One Year	1,639	76	4.6	0	0.0	0	0.0
One Year	1,569	830	52.9	5	0.6	2	0.2
Two Years	1,603	333	20.8	4	1.2	0	0.0
Three Years	1,642	217	13.2	4	1.8	0	0.0
Four Years	1,628	268	16.5	1	0.4	1	0.4
Five Years	1,656	247	14.9	1	0.4	0	0.0
Total	9,737	1,971	20.2	15	0.8	3	0.2
6-17 Years	23,191	229	1.0	1	0.4	1	0.4

Age Group	Wicomico County						
	Population of Children	Children Tested		Elevated Blood Lead		Lead Poisoning	
		Number	Percent	Number	Percent	Number	Percent
Under One Year	1,152	155	13.5	3	1.9	0	0.0
One Year	1,067	747	70.0	14	1.9	2	0.3
Two Years	1,081	512	47.4	14	2.7	2	0.4
Three Years	1,180	233	19.7	6	2.6	1	0.4
Four Years	1,046	233	22.3	7	3.0	1	0.4
Five Years	1,067	151	14.2	6	4.0	1	0.7
Total	6,594	2,031	30.8	50	2.5	7	0.3
6-17 Years	15,741	282	1.8	4	1.4	0	0.0

Age Group	Worcester County						
	Population of Children	Children Tested		Elevated Blood Lead		Lead Poisoning	
		Number	Percent	Number	Percent	Number	Percent
Under One Year	526	33	6.3	1	3.0	0	0.0
One Year	504	240	47.6	6	2.5	0	0.0
Two Years	532	184	34.6	9	4.9	0	0.0
Three Years	481	83	17.2	5	6.0	1	1.2
Four Years	488	87	17.8	2	2.3	0	0.0
Five Years	491	104	21.2	1	1.0	0	0.0
Total	3,022	731	24.2	24	3.3	1	0.1
6-17 Years	7,379	174	2.4	3	1.7	0	0.0

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Age Group	Population of Children	County Unknown		Elevated Blood Lead		Lead Poisoning	
		Children Tested Number	Percent	Number	Percent	Number	Percent
Under One Year		0		0		0	
One Year		3		0		0	
Two Years		2		1		0	
Three Years		1		0		0	
Four Years		0		0		0	
Five Years		3		0		0	
Total		9		1		0	
6-17 Years		4		0		0	

Age Group	Population of Children	Statewide		Elevated Blood Lead		Lead Poisoning	
		Children Tested Number	Percent	Number	Percent	Number	Percent
Under One Year	71,877	8,234	11.5	52	0.6	11	0.1
One Year	72,500	24,071	33.2	469	1.9	71	0.3
Two Years	71,477	16,553	23.2	483	2.9	61	0.4
Three Years	73,369	9,604	13.1	320	3.3	45	0.5
Four Years	75,283	10,145	13.5	256	2.5	33	0.3
Five Years	73,461	8,114	11.0	139	1.7	16	0.2
Total	437,968	76,721	17.5	1,719	2.2	237	0.3
6-17 Years	1,012,620	15,661	1.5	241	1.5	31	0.2

Terms and definitions

1. County assignment in the order of priority is based on a) child's census tract, b) child's zip code address, c) provider's zip code address.
2. Population of children has been adapted from US census population estimate for 2003.
3. Elevated blood lead is defined as any blood lead level ≥ 10 $\mu\text{g/dL}$.
4. Lead Poisoning is defined as a venous blood lead level ≥ 20 $\mu\text{g/dL}$.
5. Blood lead report with wrong or missing date of birth or date of specimen were assumed to be from children under six (6) years of age, and were counted under "Age Unknown".