

Lead Poisoning Prevention Program

Childhood Blood Lead Surveillance in Maryland

2004 Annual Report Number and percentage of children with elevated blood lead (EBL) or lead poisoning by county of residence: 1997-2004

Supplementary Data Tables: Supplement # 4



Lead Poisoning Prevention Program: Childhood Lead Registry
Number and percentage of children 0-72 months with elevated blood lead level and lead poisoning
by jurisdiction: 1997-2004

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	Anegany County								
		Blood Le	Blood Lead Tests		Elevated Blood Lead		Lead Poisoning		
Calendar Year	Population	Number	Percent	Number	Percent	Number	Percent		
1997	4,790	1,200	25.1	72	6.0	8	0.7		
1998	4,512	1,180	26.2	54	4.6	5	0.4		
1999	4,350	1,404	32.3	44	3.1	6	0.4		
2000	4,529	1,069	23.6	37	3.5	1	0.1		
2001	4,529	1,025	22.6	32	3.1	4	0.4		
2002	4,618	1,183	25.6	29	2.5	2	0.2		
2003	4,234	1,315	31.1	30	2.3	5	0.4		
2004	4,747	1,329	28.0	24	1.8	3	0.2		

#### **Anne Arundel County**

		Blood Lead Tests		Elevated B	lood Lead	Lead Pois	soning
Calendar Year	Population	Number	Percent	Number	Percent	Number	Percent
1997	39,471	5,226	13.2	179	3.4	20	0.4
1998	38,174	4,496	11.8	104	2.3	2	0.1
1999	38,064	4,676	12.3	60	1.3	4	0.1
2000	39,998	4,893	12.2	51	1.0	3	0.1
2001	39,998	5,221	13.1	40	0.8	3	0.1
2002	40,257	5,944	14.8	30	0.5	4	0.1
2003	40,844	5,029	12.3	20	0.4	1	0.0
2004	41,895	6,806	16.2	27	0.4	6	0.1

# **Baltimore County**

			<b>Blood Lead Tests</b>		Elevated Blood Lead		Lead Poisoning	
Calendar Year	Population	Number	Percent	Number	Percent	Number	Percent	
1997	55,757	7,921	14.2	427	5.4	52	0.7	
1998	53,541	6,645	12.4	211	3.2	11	0.2	
1999	52,040	7,129	13.7	173	2.4	19	0.3	
2000	54,630	7,882	14.4	143	1.8	16	0.2	
2001	54,630	7,090	13.0	99	1.4	6	0.1	
2002	55,444	10,499	18.9	148	1.4	12	0.1	
2003	54,933	10,427	19.0	120	1.2	18	0.2	
2004	57,205	14,947	26.1	108	0.7	10	0.1	

#### **Baltimore City**

		Blood Lead Tests		Elevated B	slood Lead	Lead Pois	soning
Calendar Year	Population	Number	Percent	Number	Percent	Number	Percent
1997	61,102	21,423	35.1	5,983	27.9	1,030	4.8
1998	56,967	17,750	31.2	3,949	22.2	669	3.8
1999	55,401	17,414	31.4	2,902	16.7	446	2.6
2000	50,380	18,033	35.8	2,198	12.2	266	1.5
2001	50,380	21,231	42.1	2,027	9.5	230	1.1
2002	52,744	16,595	31.5	1,558	9.4	183	1.1
2003	51,892	18,242	35.2	1,166	6.4	160	0.9
2004	52,796	18,970	35.9	1,183	6.2	147	0.8

Lead Poisoning Prevention Program: Childhood Lead Registry Number and percentage of children 0-72 months with elevated blood lead level and lead poisoning by jurisdiction: 1997-2004

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		Blood Le	ad Tests	Elevated E	Blood Lead	Lead Pois	soning
Calendar Year	Population	Number	Percent	Number	Percent	Number	Percent
1997	6,015	531	8.8	10	1.9	1	0.2
1998	5,980	385	6.4	6	1.6	1	0.3
1999	6,206	388	6.3	2	0.5	0	0.0
2000	6,222	625	10.0	5	0.8	0	0.0
2001	6,222	785	12.6	8	1.0	1	0.1
2002	6,252	899	14.4	8	0.9	2	0.2
2003	6,209	682	11.0	2	0.3	0	0.0
2004	6,504	838	12.9	0	0.0	0	0.0

		Car	oline Count	y			
		Blood Le	ad Tests	Elevated E	Blood Lead	Lead Pois	soning
Calendar Year	Population	Number	Percent	Number	Percent	Number	Percent
1997	2,597	503	19.4	56	11.1	5	1.0
1998	2,516	363	14.4	39	10.7	4	1.1
1999	2,534	371	14.6	43	11.6	11	3.0
2000	2,275	387	17.0	34	8.8	3	0.8
2001	2,275	513	22.5	39	7.6	4	0.8
2002	2,168	699	32.2	48	6.9	3	0.4
2003	2,270	796	35.1	14	1.8	3	0.4
2004	2,379	794	33.4	17	2.1	1	0.1

#### **Carroll County**

		Blood Le	ad Tests	Elevated E	Blood Lead	Lead Pois	soning
Calendar Year	Population	Number	Percent	Number	Percent	Number	Percent
1997	12,620	756	6.0	40	5.3	8	1.1
1998	12,319	630	5.1	30	4.8	3	0.5
1999	12,430	678	5.5	21	3.1	1	0.1
2000	12,376	1,182	9.6	22	1.9	3	0.3
2001	12,376	970	7.8	17	1.8	0	0.0
2002	11,888	978	8.2	10	1.0	1	0.1
2003	11,801	1,040	8.8	14	1.3	2	0.2
2004	12,938	1,323	10.2	13	1.0	1	0.1

## **Cecil County**

	Blood Lead Tests		Elevated Blood Lead		Lead Poisoning		
Calendar Year	Population	Number	Percent	Number	Percent	Number	Percent
1997	7,043	409	5.8	22	5.4	7	1.7
1998	6,842	379	5.5	23	6.1	0	0.0
1999	6,975	368	5.3	19	5.2	3	0.8
2000	7,212	1,337	18.5	16	1.2	2	0.1
2001	7,212	964	13.4	8	0.8	2	0.2
2002	7,104	1,018	14.3	9	0.9	2	0.2
2003	7,127	959	13.5	9	0.9	2	0.2
2004	7,548	1,073	14.2	6	0.6	0	0.0

Lead Poisoning Prevention Program: Childhood Lead Registry
Number and percentage of children 0-72 months with elevated blood lead level and lead poisoning
by jurisdiction: 1997-2004

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Charles	County

		Blood Le	ad Tests	Elevated B	Blood Lead	Lead Pois	soning
Calendar Year	Population	Number	Percent	Number	Percent	Number	Percent
1997	11,195	1,124	10.0	18	1.6	0	0.0
1998	10,866	959	8.8	14	1.5	4	0.4
1999	11,110	1,033	9.3	12	1.2	0	0.0
2000	10,533	414	3.9	3	0.7	1	0.2
2001	10,533	1,597	15.2	10	0.6	1	0.1
2002	10,812	1,790	16.6	8	0.4	0	0.0
2003	11,023	1,391	12.6	2	0.1	0	0.0
2004	11,019	2,040	18.5	9	0.4	1	0.0

# Dorchester County

		Blood Lead Tests		Elevated Blood Lead		Lead Poisoning	
Calendar Year	Population	Number	Percent	Number	Percent	Number	Percent
1997	2,301	432	18.8	62	14.4	9	2.1
1998	2,191	319	14.6	46	14.4	10	3.1
1999	2,184	406	18.6	60	14.8	3	0.7
2000	2,011	394	19.6	51	12.9	1	0.3
2001	2,011	248	17.3	44	12.6	5	1.4
2002	1,902	513	27.0	36	7.0	5	1.0
2003	1,952	540	27.7	26	4.8	5	0.9
2004	2,106	629	29.9	17	2.7	1	0.2

## **Frederick County**

		Blood Lead Tests		Elevated Blood Lead		Lead Poisoning	
Calendar Year	Population	Number	Percent	Number	Percent	Number	Percent
1997	16,002	1,122	7.0	57	5.1	11	1.0
1998	15,671	956	6.1	25	2.6	2	0.2
1999	16,040	977	6.1	19	1.9	4	0.4
2000	17,072	1,550	9.1	19	1.2	0	0.0
2001	17,075	1,335	7.8	14	1.0	1	0.1
2002	17,434	1,584	9.1	22	1.4	2	0.1
2003	17,641	1,630	9.2	16	1.0	2	0.1
2004	17.865	2.796	15.7	22	0.8	2	0.1

#### **Garrett County**

		Blood Lead Tests		Elevated Blood Lead		Lead Poisoning	
Calendar Year	Population	Number	Percent	Number	Percent	Number	Percent
1997	2,301	405	17.6	6	1.5	0	0.0
1998	2,202	241	10.9	4	1.7	0	0.0
1999	2,106	237	11.3	2	0.8	0	0.0
2000	2,222	287	12.9	6	2.1	0	0.0
2001	2,222	283	12.7	4	1.4	0	0.0
2002	2,046	297	14.5	3	1.0	0	0.0
2003	2,020	429	21.2	3	0.7	0	0.0
2004	2,323	563	24.2	7	1.2	3	0.5

Lead Poisoning Prevention Program: Childhood Lead Registry
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		Blood Lead Tests		Elevated Blood Lead		Lead Poisoning	
Calendar Year	Population	Number	Percent	Number	Percent	Number	Percent
1997	19,437	1,466	7.5	43	2.9	4	0.3
1998	18,929	1,072	5.7	38	3.5	9	0.8
1999	18,818	1,312	7.0	21	1.6	1	0.1
2000	19,138	1,384	7.2	20	1.4	1	0.1
2001	19,138	1,924	10.1	16	0.8	1	0.1
2002	18,530	2,216	12.0	26	1.2	2	0.1
2003	18,482	2,674	14.5	19	0.7	2	0.1
2004	20,032	3,170	15.8	24	0.8	3	0.1

#### **Howard County**

		Blood Lead Tests		Elevated Blood Lead		Lead Poisoning	
Calendar Year	Population	Number	Percent	Number	Percent	Number	Percent
1997	20,522	1,192	5.8	22	1.8	0	0.0
1998	20,043	977	4.9	18	187	6	0.6
1999	20,683	1,102	5.3	17	1.5	2	0.2
2000	22,252	1,083	4.9	15	1.4	1	0.1
2001	22,252	1,348	6.1	13	1.0	0	0.0
2002	22,090	1,796	8.1	16	0.9	2	0.1
2003	22,193	1,688	7.6	8	0.5	2	0.1
2004	23,278	2,338	10.0	13	0.6	1	0.0

#### **Kent County**

		Blood Lead Tests		Elevated Blood Lead		Lead Poisoning	
Calendar Year	Population	Number	Percent	Number	Percent	Number	Percent
1997	1,349	281	20.8	16	5.7	2	0.7
1998	1,302	322	24.7	14	4.3	3	0.9
1999	1,257	333	26.5	24	7.2	1	0.3
2000	1,094	408	37.3	13	3.2	0	0.0
2001	1,091	299	27.3	2	0.7	0	0.0
2002	1,095	149	13.6	1	0.7	0	0.0
2003	1,041	157	15.1	3	1.9	0	0.0
2004	1,144	208	18.2	6	2.9	4	1.9

## **Montgomery County**

		Blood Lead Tests		Elevated Blood Lead		Lead Poisoning	
Calendar Year	Population	Number	Percent	Number	Percent	Number	Percent
1997	70,843	7,709	10.9	112	1.5	15	0.2
1998	69,016	8,044	11.7	101	1.3	7	0.1
1999	68,975	9,098	13.2	95	1.0	11	0.1
2000	72,419	10,646	14.7	74	0.7	12	0.1
2001	72,419	12,148	16.8	66	0.5	3	0.0
2002	75,588	12,082	16.0	61	0.5	8	0.1
2003	76,648	10,163	13.3	53	0.5	9	0.1
2004	75,867	15,934	21.0	81	0.5	12	0.1

Lead Poisoning Prevention Program: Childhood Lead Registry Number and percentage of children 0-72 months with elevated blood lead level and lead poisoning by jurisdiction: 1997-2004

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		Blood Lead Tests		Elevated Blood Lead		Lead Poisoning	
Calendar Year	Population	Number	Percent	Number	Percent	Number	Percent
1997	69,315	10,286	14.8	200	1.9	30	0.3
1998	66,357	10,176	15.3	131	1.3	12	0.1
1999	65,986	10,544	16.0	117	1.1	17	0.2
2000	70,191	12,792	18.2	153	1.2	29	0.2
2001	70,191	13,735	19.6	100	0.7	7	0.1
2002	73,365	14,930	20.4	98	0.7	10	0.1
2003	73,788	12,426	16.8	77	0.6	7	0.1
2004	73,498	19,785	26.9	87	0.4	16	0.1

Queen Anne's County								
		Blood Le	ad Tests	Elevated B	Elevated Blood Lead		Lead Poisoning	
Calendar Year	Population	Number	Percent	Number	Percent	Number	Percent	
1997	3,127	371	11.9	17	4.6	2	0.5	
1998	3,066	265	8.6	18	6.8	1	0.4	
1999	3,150	296	9.4	7	2.4	0	0.0	
2000	3,163	326	10.3	11	3.4	1	0.3	
2001	3,163	312	9.9	7	2.2	0	0.0	
2002	3,079	444	14.4	7	1.6	1	0.2	
2003	3,123	495	15.8	5	1.0	2	0.4	
2004	3,312	453	13.7	4	0.9	0	0.0	

## **Saint Mary's County**

		Blood Lead Tests		Elevated Blood Lead		Lead Poisoning	
Calendar Year	Population	Number	Percent	Number	Percent	Number	Percent
1997	8,551	976	11.4	52	5.3	4	0.4
1998	8,495	351	4.1	6	1.7	0	0.0
1999	8,625	620	7.2	8	1.3	0	0.0
2000	7,652	817	10.7	10	1.2	0	0.0
2001	7,652	1,046	13.7	11	1.1	0	0.0
2002	7,533	1,059	14.1	10	0.9	0	0.0
2003	7,827	903	11.5	9	1.0	0	0.0
2004	8,006	1,390	17.4	2	0.1	0	0.0

#### **Somerset County**

		Blood Lead Tests		Elevated Blood Lead		Lead Poisoning	
Calendar Year	Population	Number	Percent	Number	Percent	Number	Percent
1997	1,459	414	28.4	50	12.1	5	1.2
1998	1,395	314	22.5	41	13.1	7	2.2
1999	1,377	270	19.6	26	0.3	2	0.7
2000	1,441	349	24.2	25	7.2	5	1.4
2001	1,441	539	37.4	48	8.9	2	0.4
2002	1,461	512	35.0	21	4.1	0	0.0
2003	1,457	544	37.3	18	3.3	5	0.9
2004	1,508	477	31.6	10	2.1	3	0.6

Lead Poisoning Prevention Program: Childhood Lead Registry Number and percentage of children 0-72 months with elevated blood lead level and lead poisoning by jurisdiction: 1997-2004

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		Blood Lead Tests		Elevated Blood Lead		Lead Poisoning	
Calendar Year	Population	Number	Percent	Number	Percent	Number	Percent
1997	2,300	371	16.1	15	4.0	1	0.3
1998	2,240	194	8.7	13	6.7	0	0.0
1999	2,243	275	12.3	10	3.6	2	0.7
2000	2,148	288	13.4	19	6.6	0	0.0
2001	2,148	369	17.2	30	8.1	4	1.1
2002	2,173	441	20.3	19	4.3	4	0.9
2003	2,111	449	21.3	15	3.3	1	0.2
2004	2,244	488	21.7	6	1.2	0	0.0

Washington County							
		Blood Le	ad Tests	Elevated E	Blood Lead	Lead Poisoning	
Calendar Year	Population	Number	Percent	Number	Percent	Number	Percent
1997	9,599	490	5.1	26	5.3	4	0.8
1998	9,244	536	5.8	25	4.7	2	0.4
1999	9,060	676	7.5	20	3.0	5	0.7
2000	9,784	1,558	15.9	21	1.3	0	0.0
2001	9,784	1,558	15.9	24	1.5	4	0.3
2002	9,552	1,500	15.7	19	1.3	4	0.3
2003	9,737	1,971	20.2	15	0.8	3	0.2
2004	10,252	3,029	29.5	39	1.3	10	0.3

## **Wicomico County**

		<b>Blood Lead Tests</b>		Elevated Blood Lead		Lead Poisoning	
Calendar Year	Population	Number	Percent	Number	Percent	Number	Percent
1997	6,545	868	13.3	110	12.7	12	1.4
1998	6,293	919	14.6	91	9.9	14	1.5
1999	6,240	903	14.5	92	10.2	8	0.9
2000	6,424	1,035	16.1	81	7.8	3	0.3
2001	6,424	1,463	22.8	134	9.2	6	0.4
2002	6,714	1,747	26.0	74	4.2	9	0.5
2003	6,594	2,031	30.8	50	2.5	7	0.3
2004	6,736	1,917	28.5	40	2.1	4	0.2

#### **Worcester County**

		Blood Lead Tests		Elevated B	slood Lead	Lead Pois	soning
Calendar Year	Population	Number	Percent	Number	Percent	Number	Percent
1997	3,098	493	15.9	42	8.5	2	0.4
1998	3,036	441	14.5	30	6.8	0	0.0
1999	3,058	427	14.0	33	7.7	2	0.5
2000	2,773	504	18.2	27	5.4	3	0.6
2001	2,773	595	21.5	48	8.1	4	0.7
2002	2,968	542	18.3	34	6.3	4	0.7
2003	3,022	731	24.2	24	3.3	1	0.1
2004	2,904	675	23.2	11	1.6	2	0.3

Lead Poisoning Prevention Program: Childhood Lead Registry
Number and percentage of children 0-72 months with elevated blood lead level and lead poisoning
by jurisdiction: 1997-2004

**County Unknown** 

		Blood Lead Tests		Elevated Blood Lead		Lead Poisoning	
Calendar Year	Population	Number	Percent	Number	Percent	Number	Percent
1997		1,149		126		1	_
1998		668		37		0	
1999		588		74		4	
2000		5,273		357		2	
2001		41		0		0	
2002		90		2		0	
2003		9		1		0	
2004		3,577		55		0	

State	

		Blood Lead Tests		Elevated Blood Lead		Lead Poisoning	
Calendar Year	Population	Number	Percent	Number	Percent	Number	Percent
1997	437,339	67,118	15.3	7,763	11.6	1,233	1.8
1998	421,197	58,585	13.9	5,068	8.6	772	1.3
1999	418,912	61,529	14.7	3,904	6.3	555	0.9
2000	427,939	74,516	17.4	3,402	4.6	353	0.5
2001	427,939	76,742	17.9	2,841	3.7	288	0.4
2002	436,817	79,507	18.2	2,297	2.9	260	0.3
2003	437,968	76,721	17.5	1,719	2.2	237	0.3
2004	448,106	105,549	23.6	1,811	1.7	230	0.2

#### Terms and definitions

- 1. Population of children for 1997-1999 was extracted from the US Census Bureau single age-sex-county specific population estimate (1991-1999). The 2000 and 2001 population is based on the Census 2000 population count. The Census Bureau had not released population estimate for 2001 when 2001 Annual Report was released. The 2002 and 2003 populations are adapted from the US Census Bureau five-year age-sex-county specific population estimate for 2002 and 2003. The 2004 population is adapted from US Census Bureau age-sex population projection at the state level for 2004.
- 2. Elevated blood lead level (EBL) is defined as a venous or a capillary blood lead level ≥10 μg/dL.
- 3. Lead poisoning is defined as a venous blood lead level ≥20 µg/dL.
- 4. Blood lead reports with missing or wrong date of birth were assumed to be from children under six (6) years of age.
- 5. County assignment for 1997-2001 is based on child's zip code address and in the absence of any information, the provider's zip code was the basis of county determination. For 2002 and 2003, the child's census tract was the first order of priority to assign county, followed by child's zip code address, and the provider's zip code address as the last. For 2004 county assignment was based on child's census tract (91%) and in the absence of census tract, child's zip code address (≅ 5%). Reports with no addresses were assumed to be from Maryland children with county unknown.