



The Effects of Lead on Children and the Community

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**LATEST STATISTICS ON CASES
OF ELEVATED BLOOD LEAD
LEVEL SINCE UNIVERSAL
TESTING: MD VS BC**

MD vs BC: BLL of $\geq 10\mu\text{g/dL}$ (#, %); 2017 vs 2016

$\geq 10\mu\text{g/dL}$	2016	2017	Change
MD	355	388	+9.3%
BC	167	128	-11.4%

- **MD:** The number of children 0-72 months identified with blood lead levels of $\geq 10\mu\text{g/dL}$ **increased** from 355 in CY 2016 to 388 in CY 2017; **9.3% increase**
- **BC:** The number of children 0-72 months identified with blood lead levels of $\geq 10\mu\text{g/dL}$ BC **decreased** from 167 in CY 2016 to 148 in CY 2017; **11.4% decrease**

MD: Blood lead levels of 5-9 $\mu\text{g}/\text{dL}$ (#, %)

5-9 $\mu\text{g}/\text{dL}$	2015	2016	2017	Change
MD		1729	1661	-3.9%
BC	904	804	661	-17.8%

- **MD:** The number of children identified with blood lead levels of 5-9 $\mu\text{g}/\text{dL}$ **decreased by 3.9%** from 1,729 in CY 2016 to 1,661 in CY 2017
- **BC:** The number of children with a blood lead level of 5-9 $\mu\text{g}/\text{dL}$ **decreased by 17.8%** from 804 in CY 2016 compared to 661 in CY 2017.
- **BC:** In 2015 there were 904 children with a BLL of 5-9 $\mu\text{g}/\text{dL}$

MD vs BC: Blood lead levels of $\geq 5\mu\text{g}/\text{dL}$ (#, %)

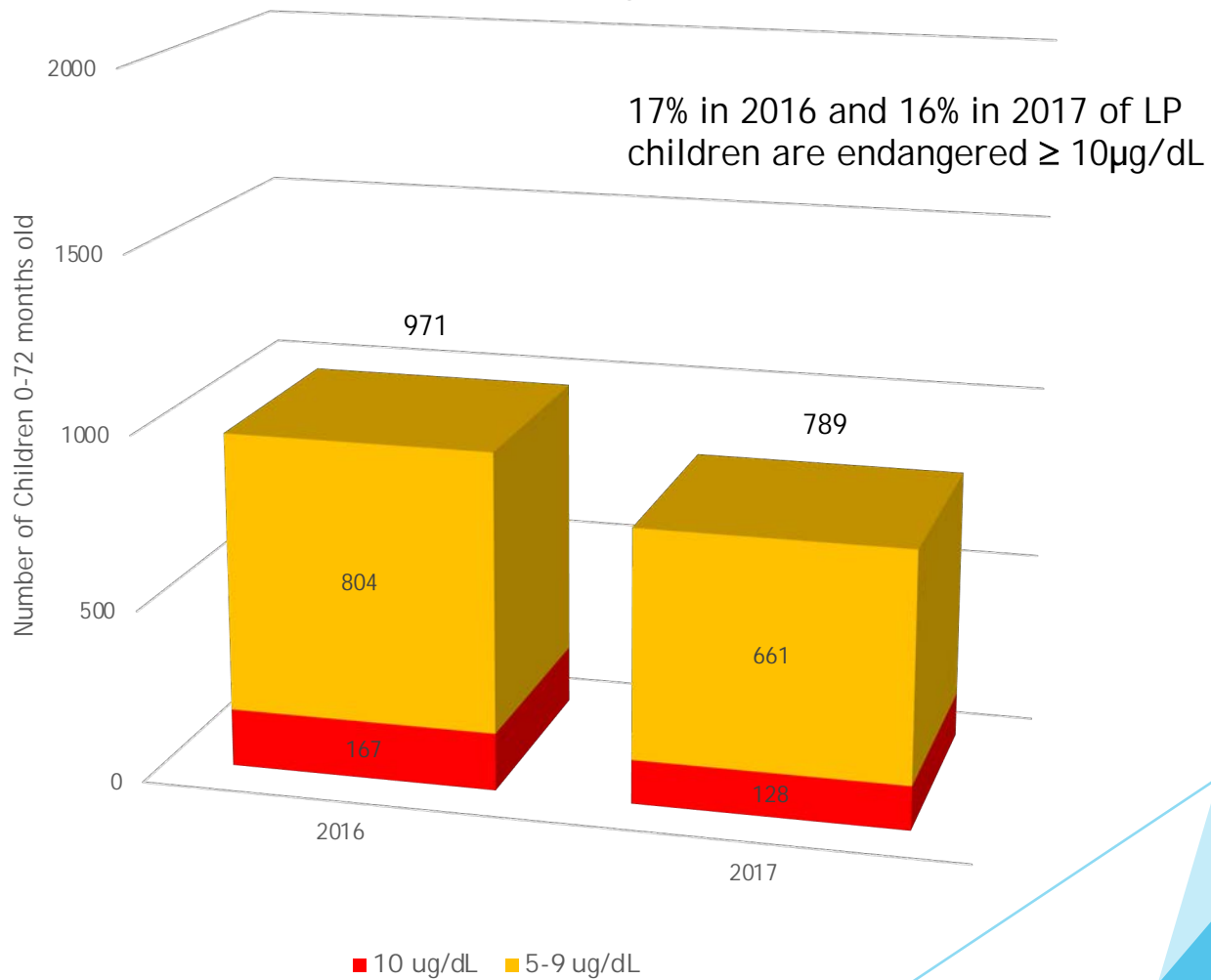
$\geq 5\ \mu\text{g}/\text{dL}$	2016	2017	Change
MD	2084	2049	-1.7%
BC	971	789	-18.7%

- **BC:** In 2016 BC accounted for 971 or 47% of MD total of 2084 children with LP.
- **BC:** In 2017 BC accounted for 789 or 39% of MD total of 2049, a **decrease of 18.7%**.¹

¹<https://mde.maryland.gov/programs/LAND/Documents/LeadReports/LeadReportsAnnualChildhoodLeadRegistry/LeadReportCLR2017.pdf>

Summary of BLL $\geq 5 \mu\text{g/dL}$ for BC

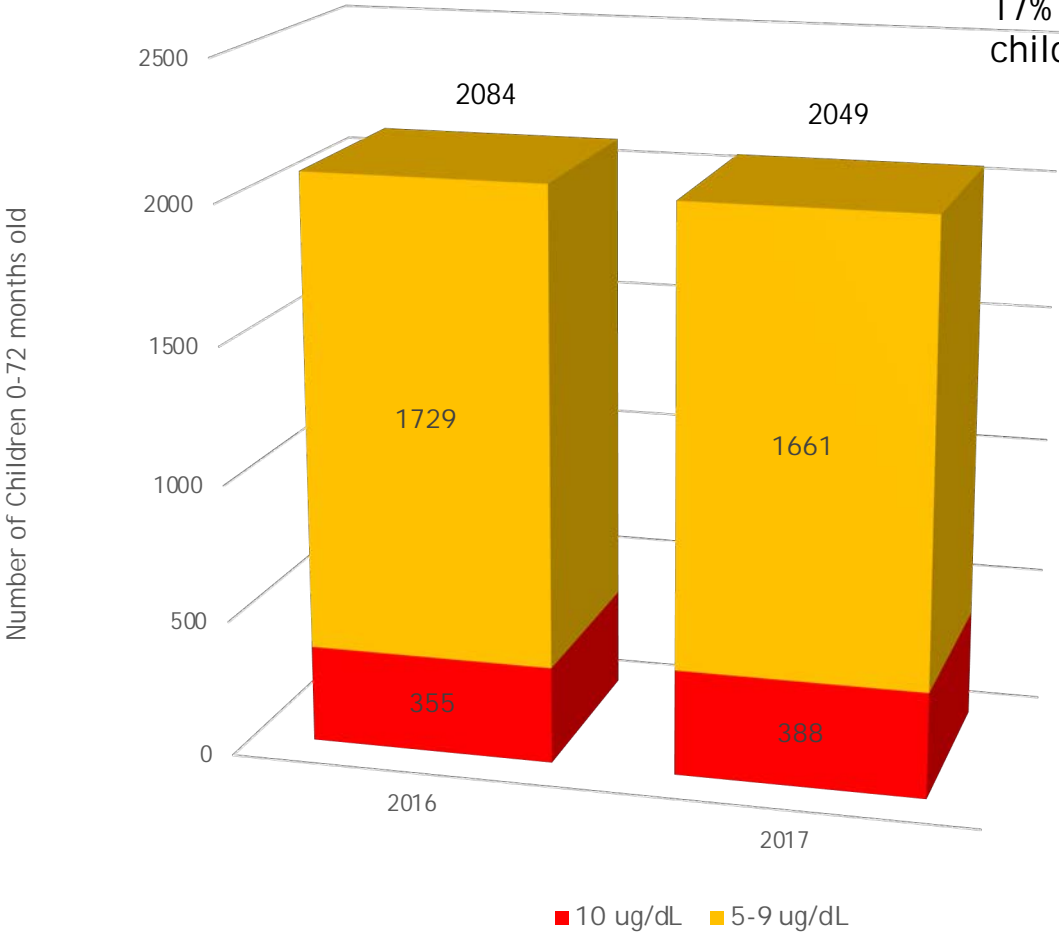
Children Blood Lead Levels Baltimore City



Summary of BLL $\geq 5 \mu\text{g/dL}$ for MD

Children Blood Lead Levels Maryland

17% in 2016 and 23% in 2017 of LP children are endangered $\geq 10\mu\text{g/dL}$



Blood Lead Levels Exposure: Hazards and Risk Factors

The background of the slide features abstract, overlapping geometric shapes in various shades of blue, ranging from light sky blue to deep navy blue. These shapes are primarily located on the right side and bottom of the frame, creating a modern, dynamic aesthetic.

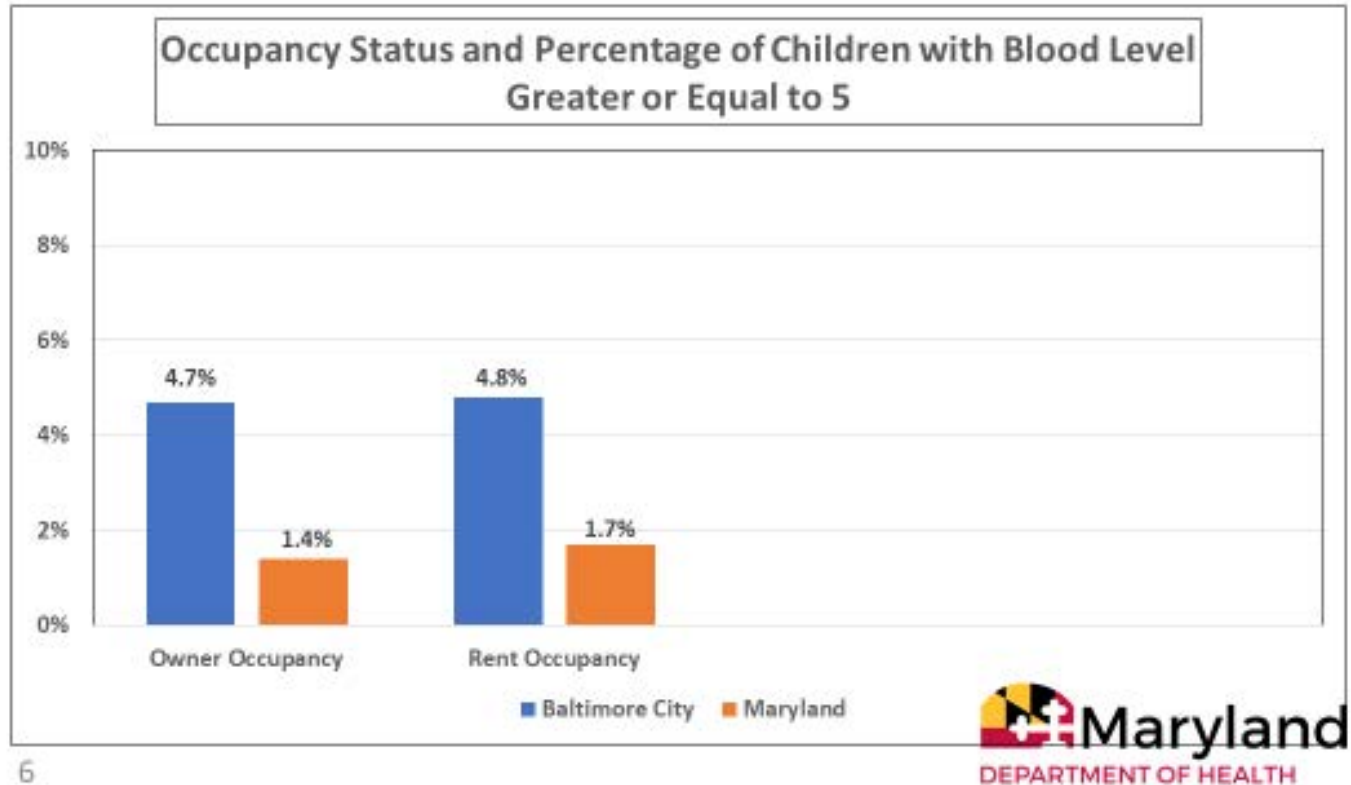
Sources of Childhood Lead Exposure

- During CY 2016, The Department Began Comprehensively Tracking Sources Of Childhood Lead Exposure.
- **Lead-Based Paint** Is Still The Most Frequently Identified Hazard
- A Significant Number Of Children Aged 0-72 Months That Were Identified With An **Elevated Blood Lead Level Of ≥ 10 $\mu\text{g}/\text{dL}$** (“Ebl”) May Have Been Exposed To Lead From Sources Other Than Lead-Based Paint Hazards.

BLL - Other Risk Factors

- Other Risk Factors Included Exposure To Sources Such As **Cosmetics And Spices.**
- **Residential Housing Built Prior To The 1978** Remains The Most Significant Factor In Determining The Probability Of Lead Exposure In Children Ages 0-72 Months Of Age.

Occupancy Status and BLL



Occupancy Status and BLL 2

- According to the 2011 American Health Home Survey (AHHS) by HUD, properties built prior to 1960 are **69% likely to have lead based paint.**
- According to the 2010 Census, over **71% of housing in Baltimore City** was built prior to 1960.
- Given these housing characteristics it is understandable why **children are more likely to be exposed to lead based paint hazards** in Baltimore City.²

²<https://mde.maryland.gov/programs/LAND/Documents/LeadReports/LeadReportsAnnualChildhoodLeadRegistry/LeadReportCLR2016.pdf>

Guideline for Policy

- In Maryland, The Belief That **No Child Should Be Exposed To Lead Paint Hazards** Continues To Be At The Forefront Of Public Health Policy.

Thank you!

