



Texas Trends In Childhood Lead Poisoning: Testing and Follow-up Testing

For CLPPP Children at Risk Workgroup only, not for distribution

Texas Childhood Lead Poisoning Prevention Program

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Topics (2001-2010):

- **Testing Counts & Unsatisfactory Specimens (Unsat)**
 - ❖ Changes in share of testing done by DSHS lab
 - ❖ Number of tests and percentage Unsat
 - ❖ Unsat retests
- **Children Tested**
 - ❖ Ages 0-5 and 6-14, counts and percentages
- **Children Elevated**
 - ❖ Ages 0-5 and 6-14, counts and percentages
- **Follow-up Testing for Elevated Children**
- **Summary**

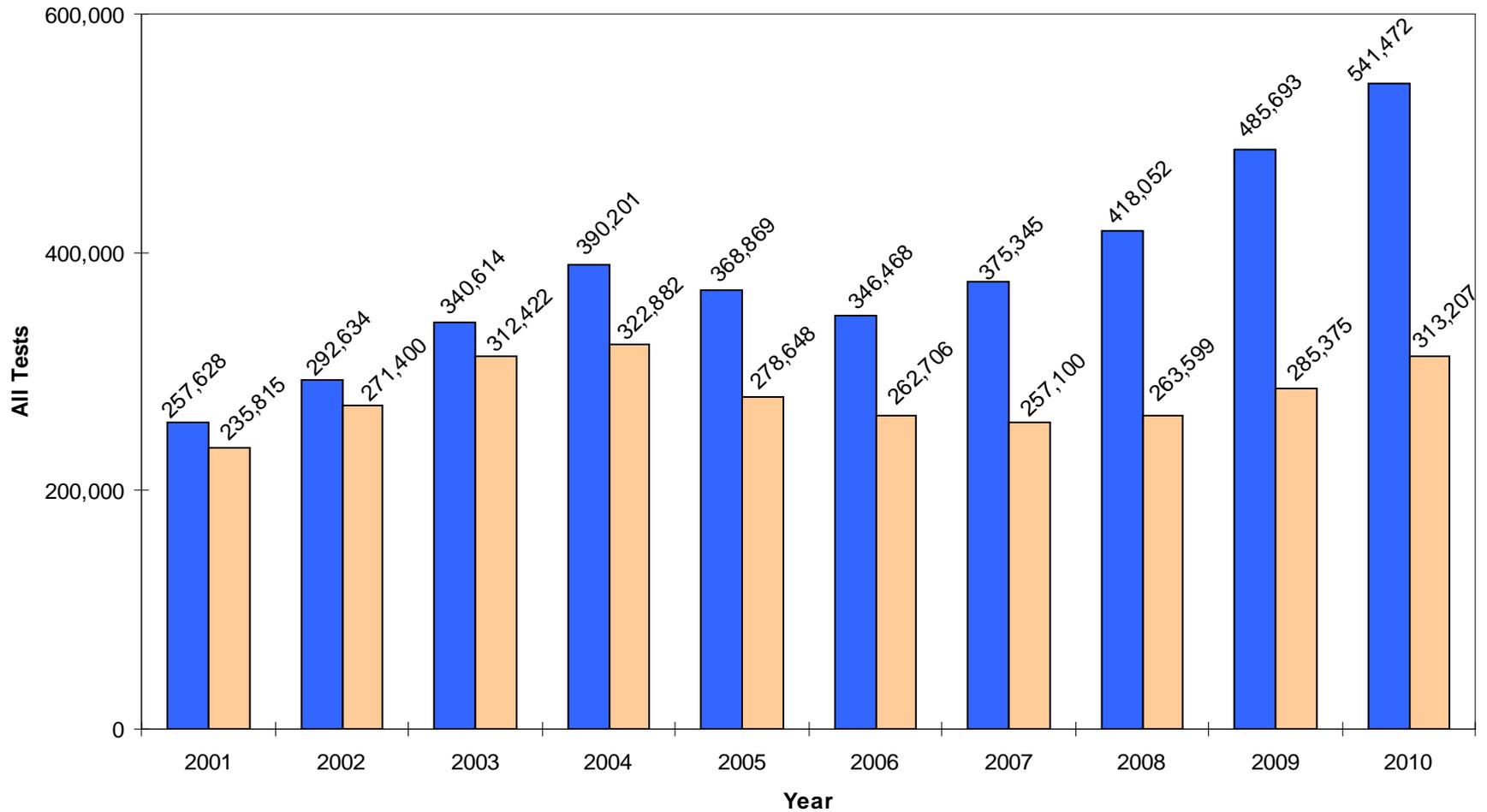
➤ Testing Counts and Unsats

- ❖ Changes in share of testing done by DSHS lab
- ❖ Number of tests and percentage Unsat
- ❖ Unsat retests

Testing Children for Lead, All Tests & DSHS Tests, 2001-2010*



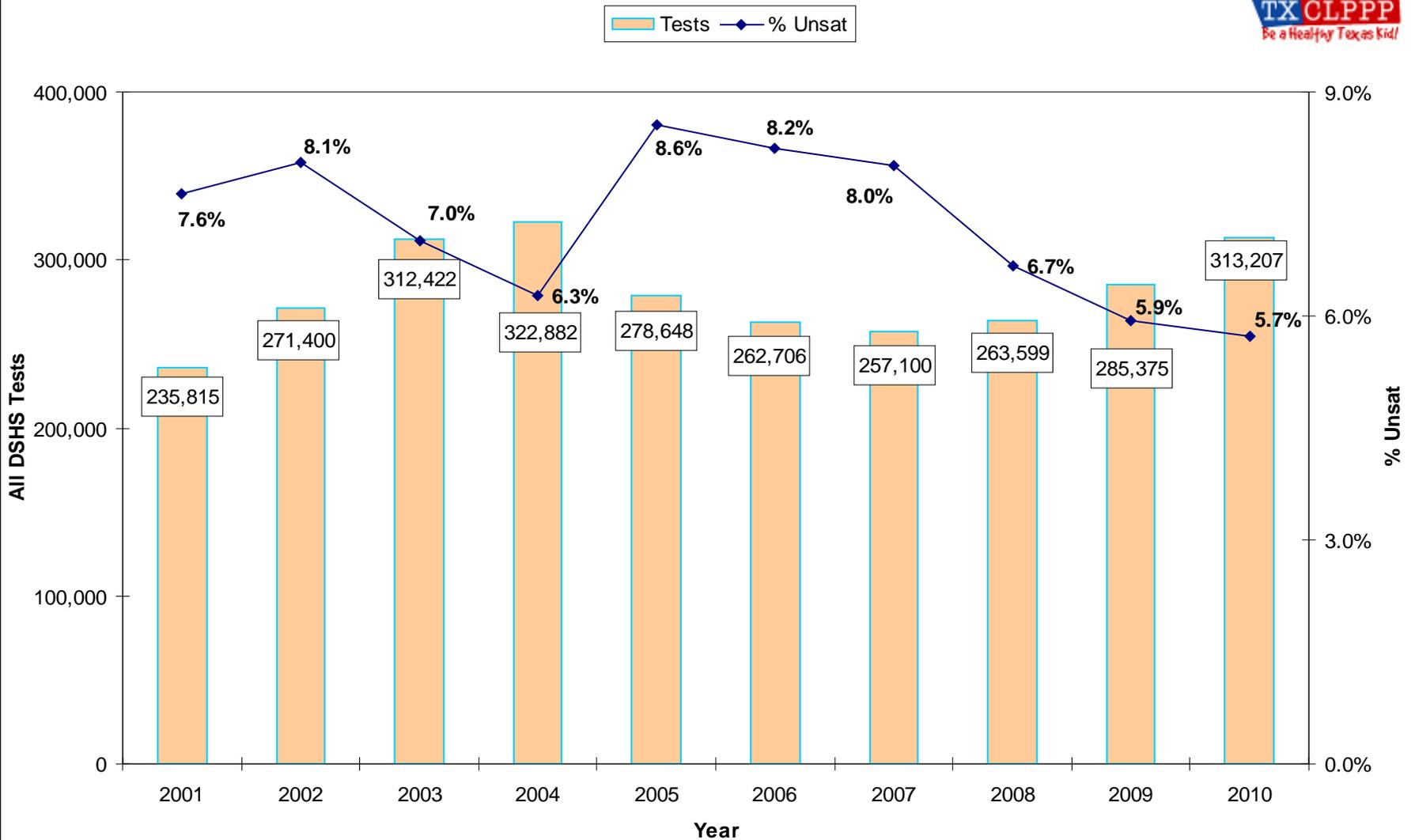
■ All Tests ■ DSHS Lab



*Test counts include both valid and unsatisfactory samples submitted. TX CLPPP 1-800-588-1248

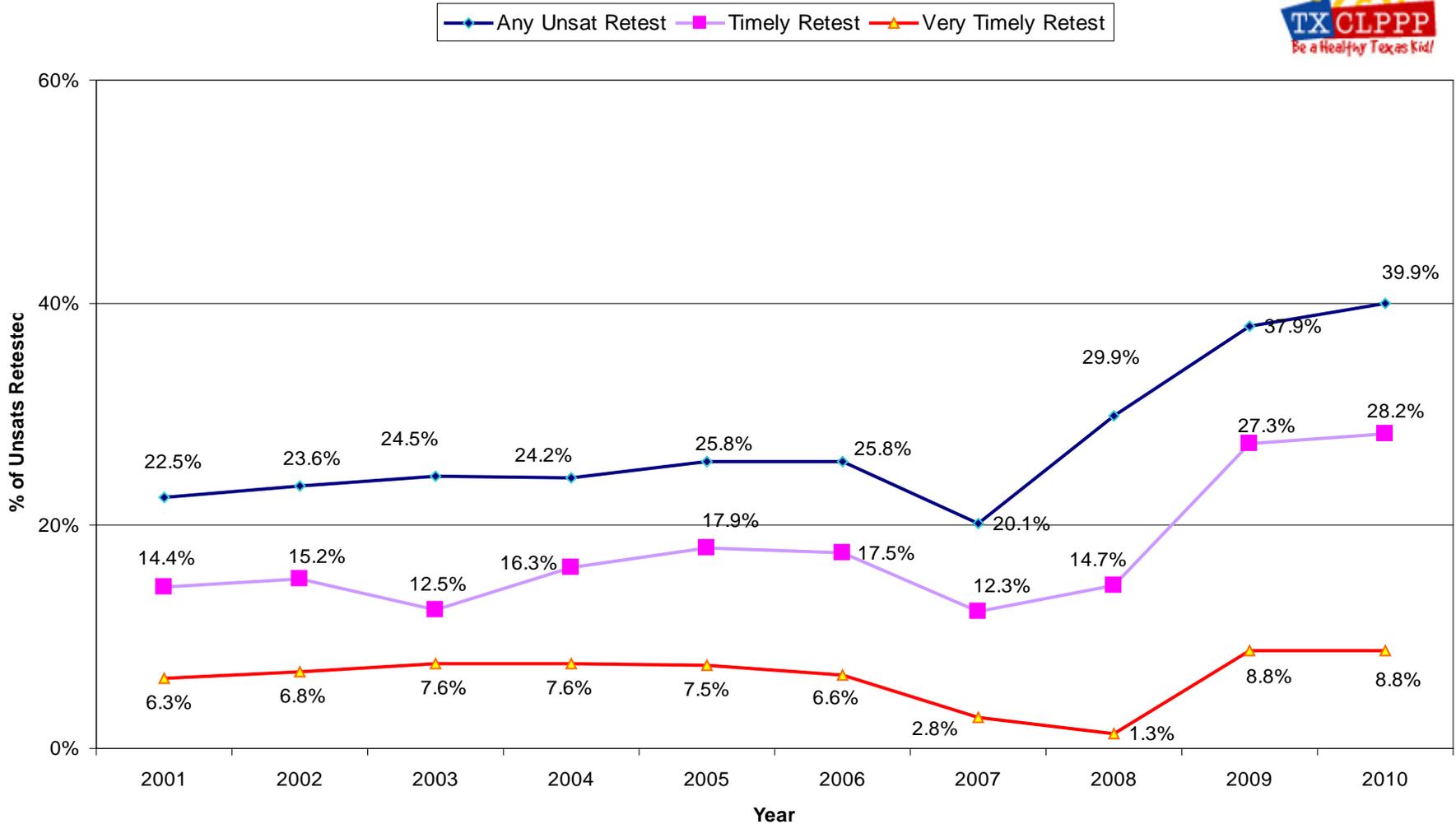


Testing Children for Lead, All DSHS Tests & Percent Unsat, 2001-2010*



* Tests counts include both valid and unsatisfactory samples submitted. TX CLPPP 1-800-588-1248

Retests of Children with Unsat Tests, 2001-2010*



*Any Unsat Retest is retest in same year, Timely Retest is unsat retest within 85 days (3 months), Very Timely Retest is unsat retest with 31 days.
TX CLPPP 1-800-588-1248

Testing Counts and Unsats(2001-2010)

- ❖ 110% increase in all testing (private & DSHS)
- ❖ Larger share of private labs testing
 - 8% to 42%
- ❖ Some change in number of Unsats
 - 18,033 to 17,917
- ❖ Unsats percentages have declined
 - 7.6% to 5.7%
- ❖ Unsat retests have increased from
 - 22.5% to 39.9% for all retests
 - 14.4% to 28.2% for retests within 85 days
 - 6.3% to 8.8% for retests within 31 days

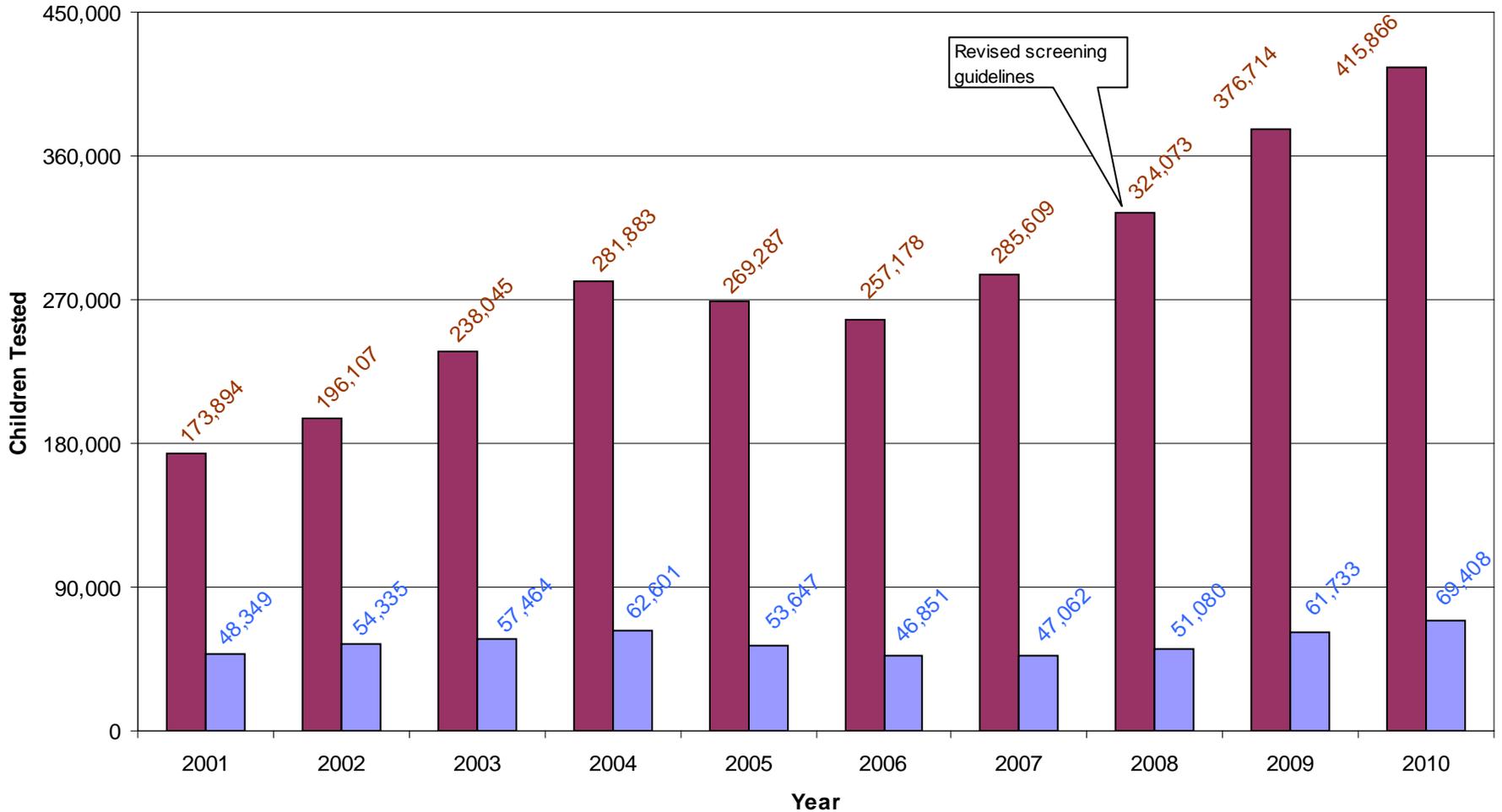
➤ Children Tested

❖ Ages 0-5 and 6-14, counts and percentages

Texas Children Tested for Lead, 2001-2010



Age
 ■ 0-5 ■ 6-14



*Counts for unduplicated children with valid lead test per given year. TX CLPPP 1-800-588-1248



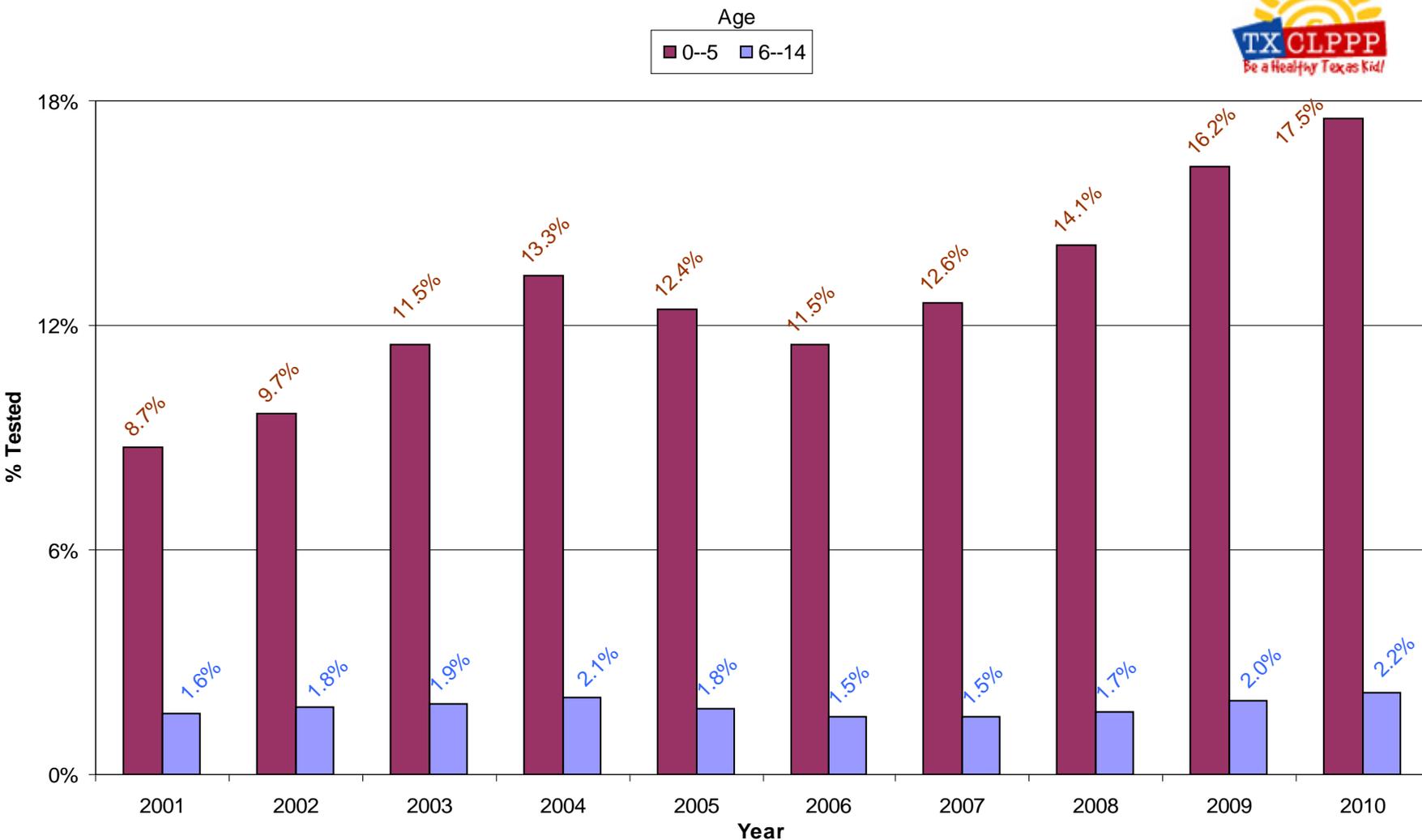
Texas Populations, 2001-2010*

Age (yrs.)

<u>Year</u>	<u>0 -- 5</u>	<u>6 -- 14</u>
2001	1,989,607	2,990,242
2002	2,031,237	3,021,232
2003	2,069,657	3,025,688
2004	2,117,357	3,026,656
2005	2,167,678	3,017,761
2006	2,237,253	3,050,087
2007	2,267,413	3,064,716
2008	2,294,869	3,089,282
2009	2,321,645	3,127,424
2010	2,373,259	3,149,426

*DSHS Center For Health Statistics

% of Texas Children Tested for Lead*



*Percentage of age-specific population tested for lead, counts for unduplicated children tested in given year.
 Population estimates from DSHS Center for Health Statistics. TX CLPPP 1-800-588-1248

➤ Children Tested (2001-2010)

Age 0-5 Years

- ❖ 140% increase in the number of children tested for lead
- ❖ 2001--8.7% of children tested
- ❖ 2010--17.5% of children tested

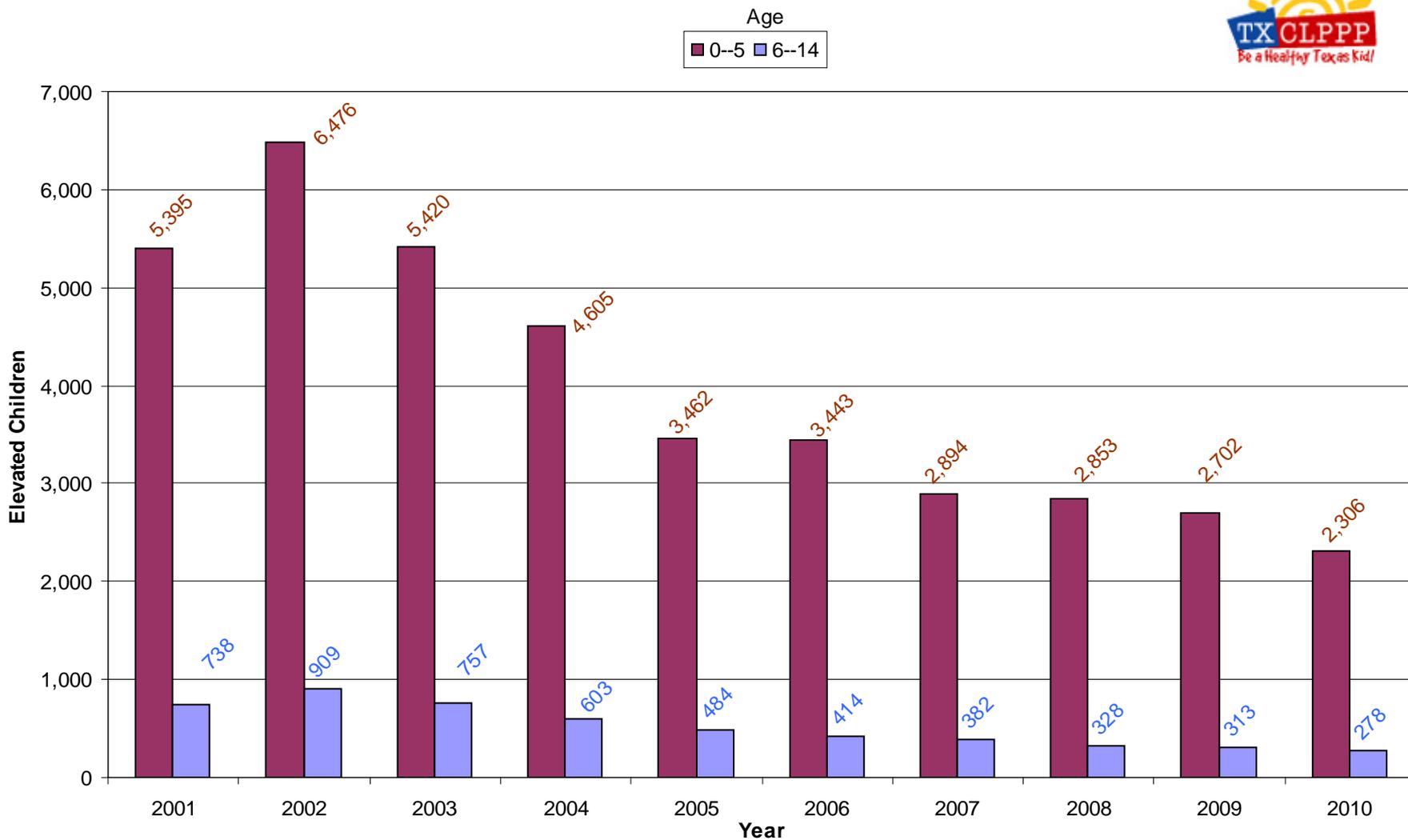
Age 6-14 years

- ❖ 27% increase in the number children tested
- ❖ 2001--1.6% of children tested
- ❖ 2010--2.2% of children tested

➤ Children Elevated

❖ Ages 0-5 and 6-14, counts and percentages

Texas Children with Elevated Blood Lead, 2001-2010*

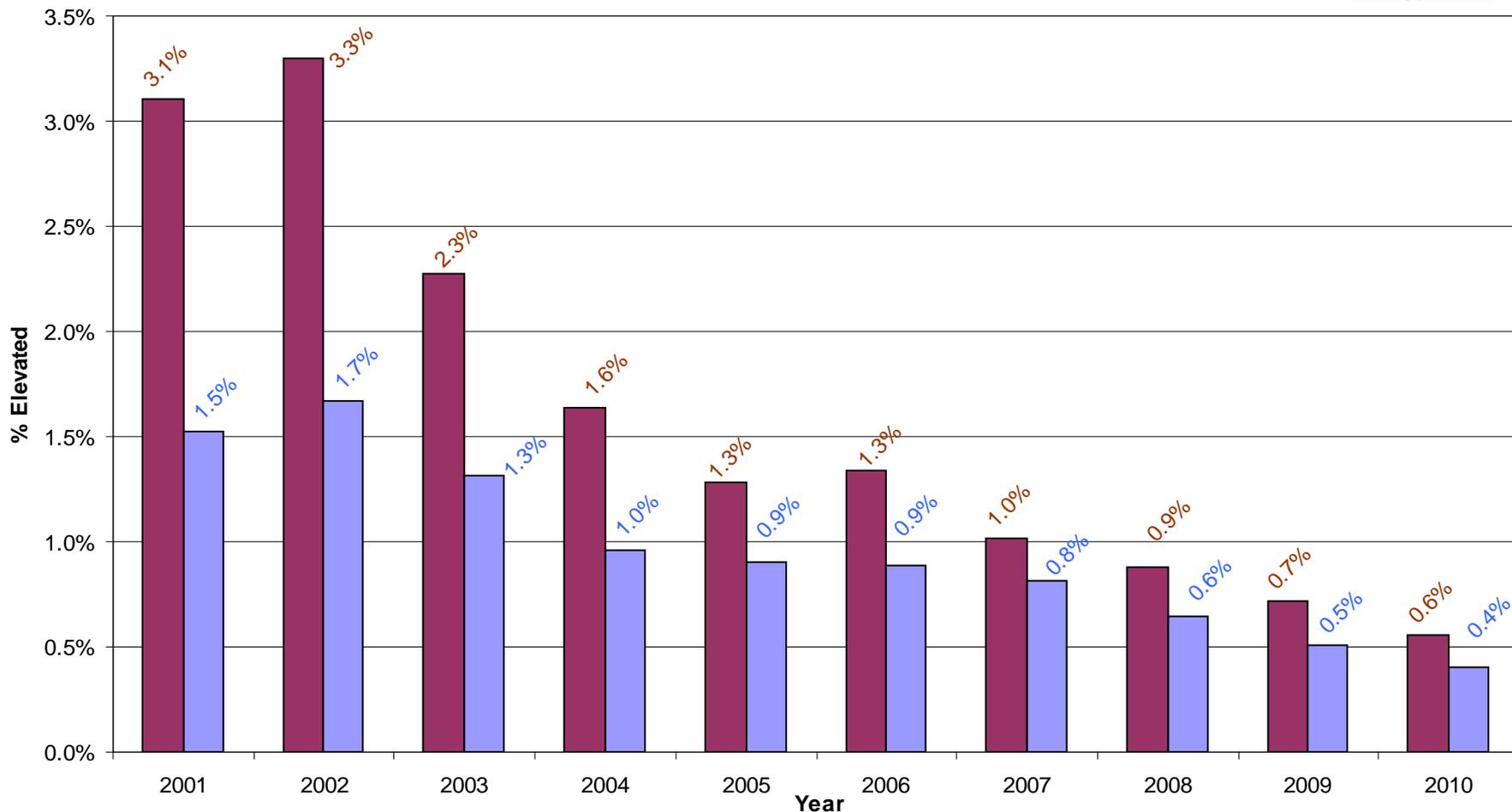


*Counts for unduplicated children with a blood lead level ≥ 10 mcg/dL per given year; capillary, venous, or unknown sample type. TX CLPPP 1-800-588-

% Elevated Texas Children Among Those Tested, 2001-2010*



Age
■ 0--5 ■ 6--14



*Percentage of children with a blood lead level ≥ 10 mcg/dL per given year among those tested; capillary, venous, or unknown sample type.
 TX CLPPP 1-800-588-1248

➤ Children Elevated (2001-2010)

Age 0-5 Years

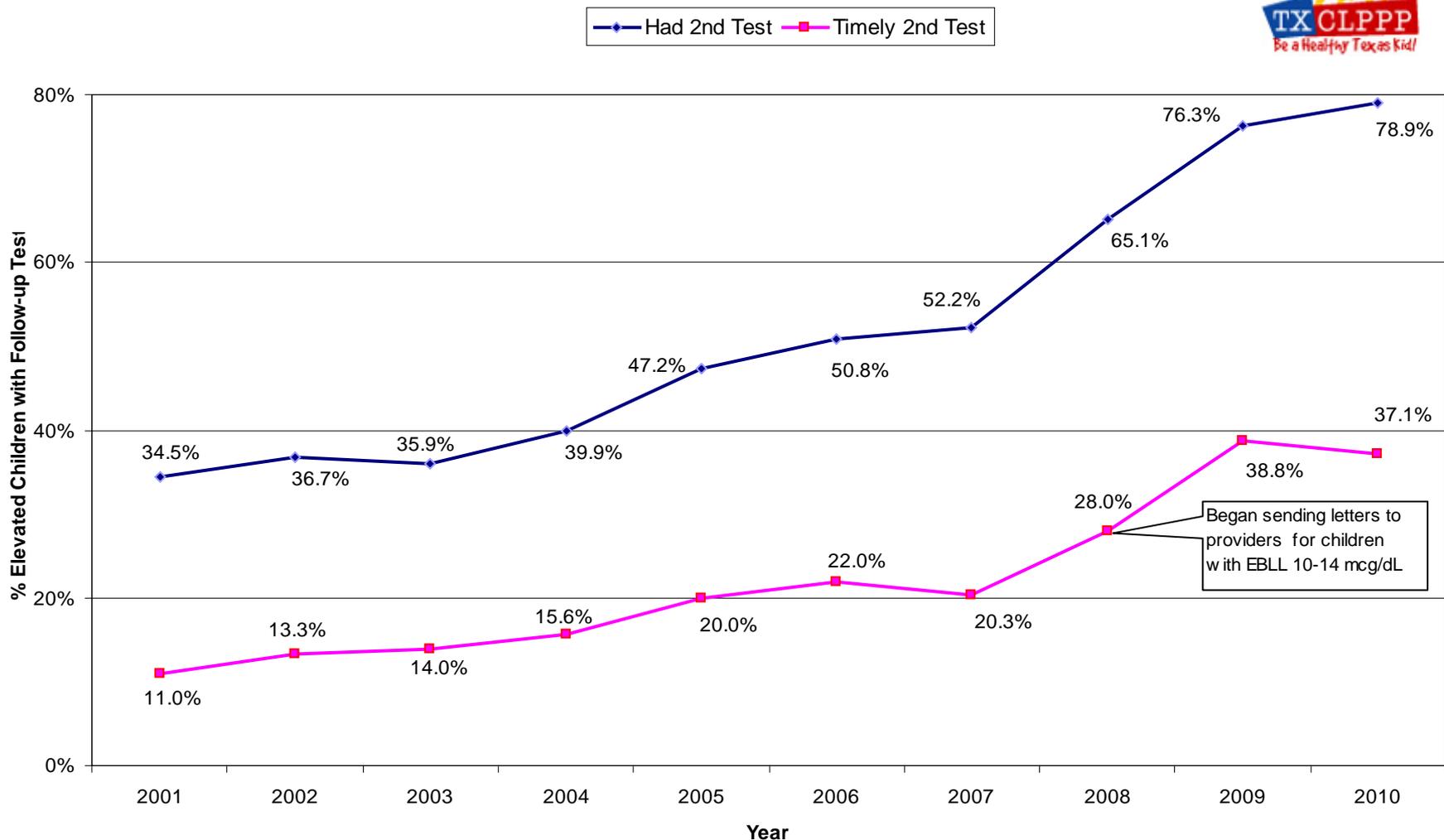
- ❖ 57% decrease in the number of elevated children
- ❖ Children tested had an elevated level
- ❖ 2001--3.1%
- ❖ 2010--0.6%

Age 6-14 Years

- ❖ 71% decrease in the number of elevated children
- ❖ Children tested had an elevated level
- ❖ 2001--1.5%
- ❖ 2010--0.4%

➤ Follow-up Testing for Elevated Children

Elevated Children with Follow-up Test, 2001-2010*

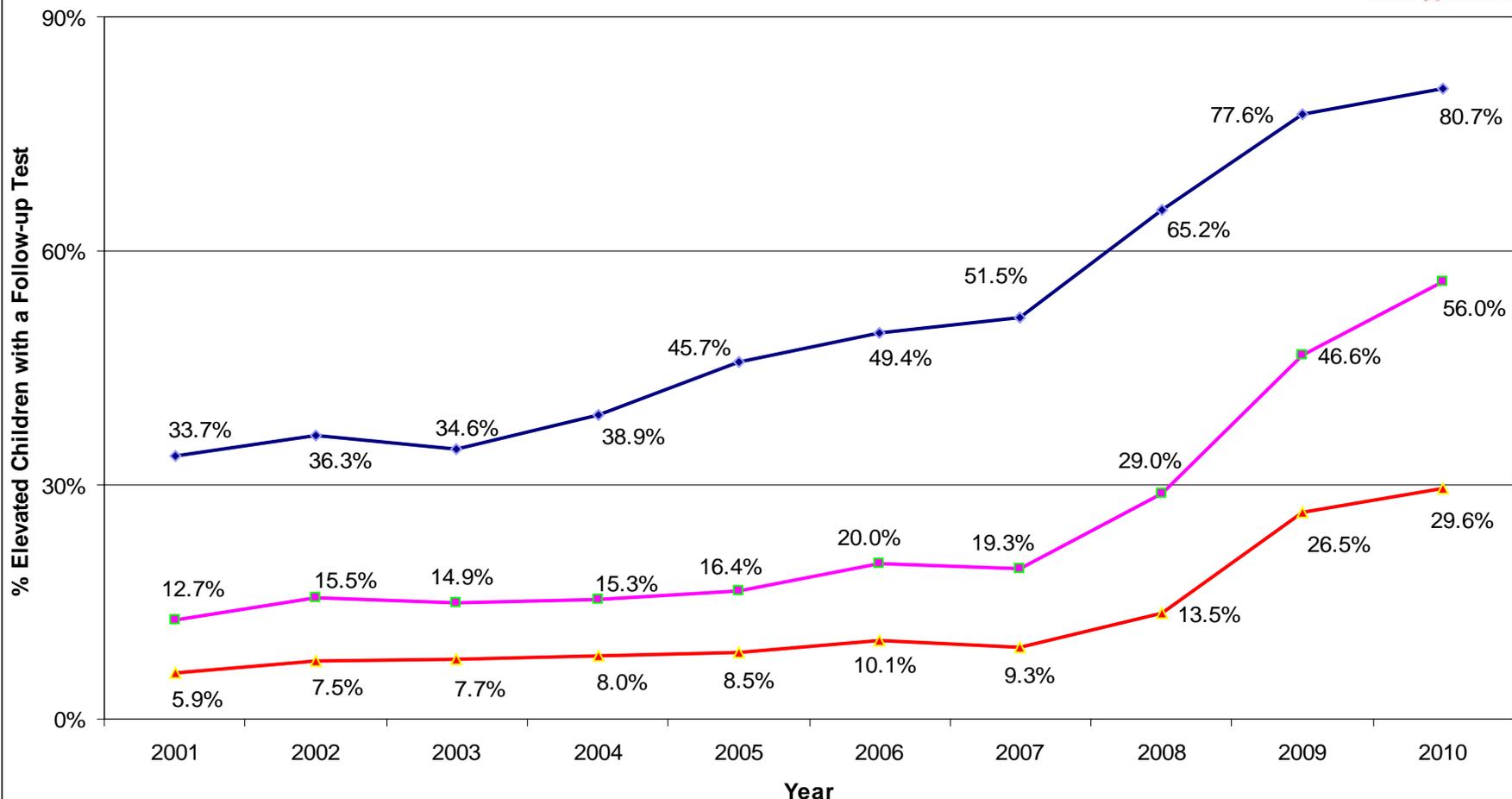


*Percentages calculated using counts for unduplicated children with a first blood lead level ≥ 10 mcg/dL in given year and who had a follow-up test in that same year. A timely follow-up is a 2nd test that occurred within 31 days. TX CLPPP 1-800-588-1248

Children with an Elevated Capillary Test who had a Follow-up Test, 2001-2010*



Any 2nd Test Venous 2nd Test Timely Venous 2nd Test



*Percentages calculated using counts for unduplicated children with a first capillary blood lead level ≥ 10 mcg/dL in given year and who had a follow-up test in that same year. A timely follow-up is a 2nd test that occurred within 31 days. TX CLPPP 1-800-588-1248

➤ **Follow-up Testing for Elevated Children**

Follow-up Tests for All Elevated Children

- ❖ **2001 - 34.5% had any follow-up test**
- ❖ **2010 - 78.9% had any follow-up test**

- ❖ **2001 - 11.0% follow-up tests within 31 days**
- ❖ **2010 - 37.1% follow-up tests within 31 days**

Follow-up for First Elevated Capillary

- ❖ **2001 - 12.7% had a venous follow-up test**
- ❖ **2010 - 56.0% had a venous follow-up test**

- ❖ **2001 - 5.9% had a venous follow-up within 31 days**
- ❖ **2010 – 29.6% had a venous follow-up within 31 days**

➤ Summary (continued)

➤ Unsats

- ❖ Since 2005, a steady decline in percentage of Unsats
- ❖ Increase in Unsat retests
- ❖ A need for continued improvement
 - Further decrease in Unsats
 - Increase in timely retesting of Unsats

➤ Children Tested

- ❖ Increase in testing

➤ Children Elevated

- ❖ Decline in elevated children

➤ Follow-up Testing for Elevated Children

- ❖ Improvement in follow-up testing and timeliness of follow-up
- ❖ A need for further improvement in follow-up testing and timeliness



Thanks!
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