



Texas Trends In Childhood Lead Poisoning: Defining Elimination by 2020

For CLPPP Children at Risk Workgroup only, not for distribution

Texas Childhood Lead Poisoning Prevention Program

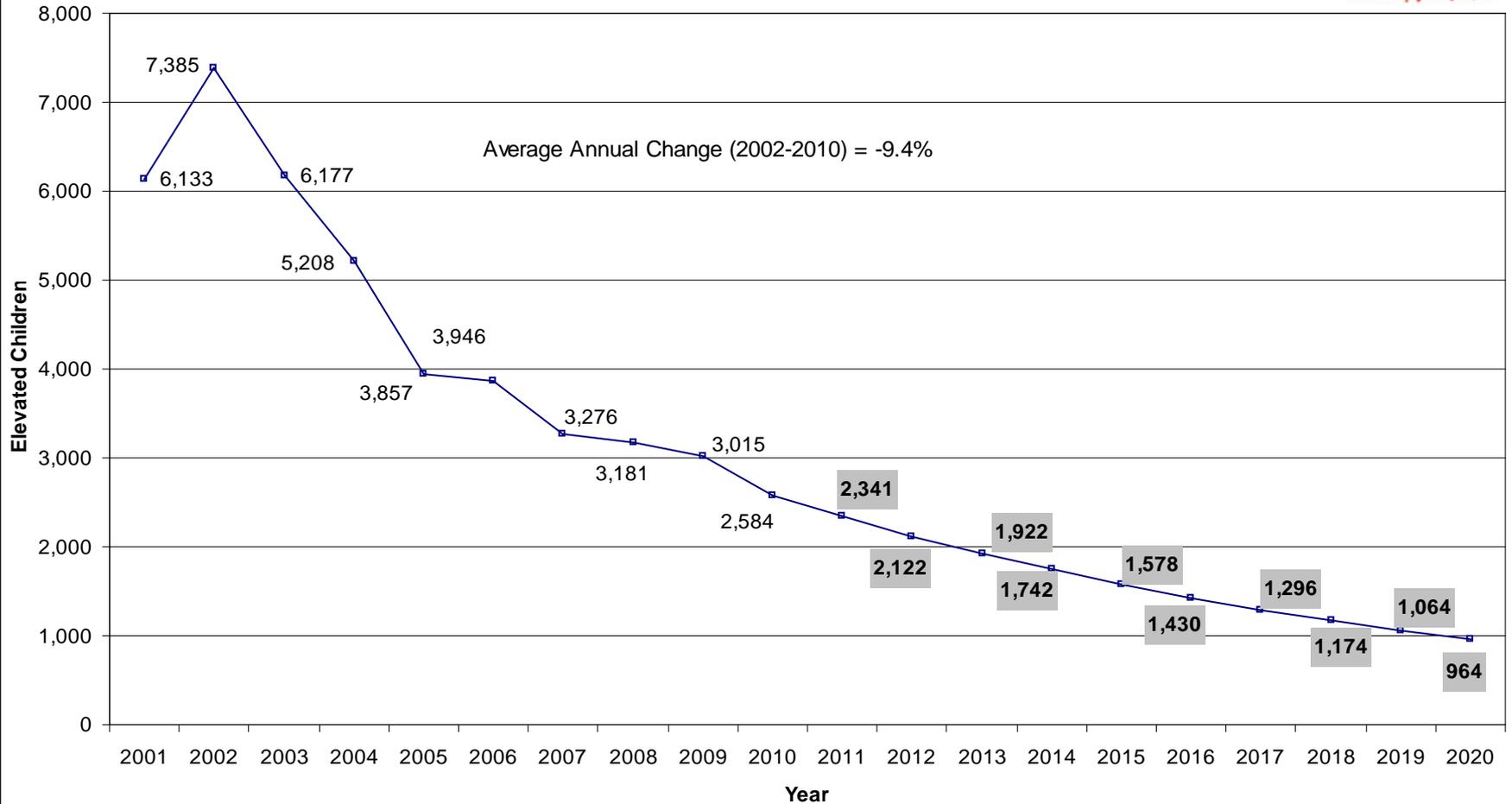
*L.J. Smith, Epidemiologist
May 11, 2011*

Topics:

- **Defining Elimination by 2020**
 - ❖ 2020 projections, elevated and diagnostic elevated

- **Summary**

Texas Elevated Children, 2001- 2010 (projected to 2020)*

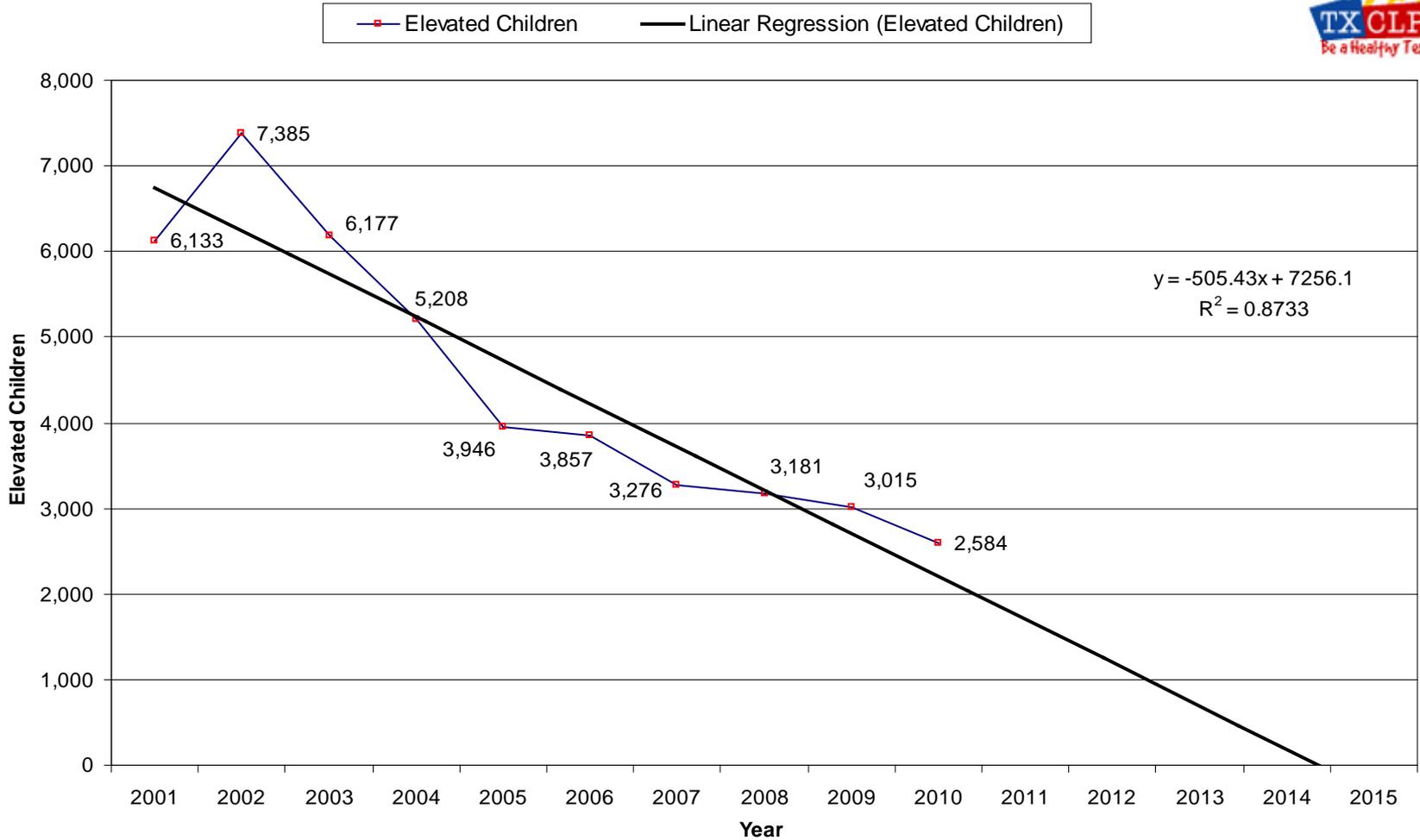


*Counts for unduplicated children with a blood lead level ≥ 10 mcg/dL per given year; capillary, venous, or unknown sample type.

TX CLPPP 1-800-588-1248



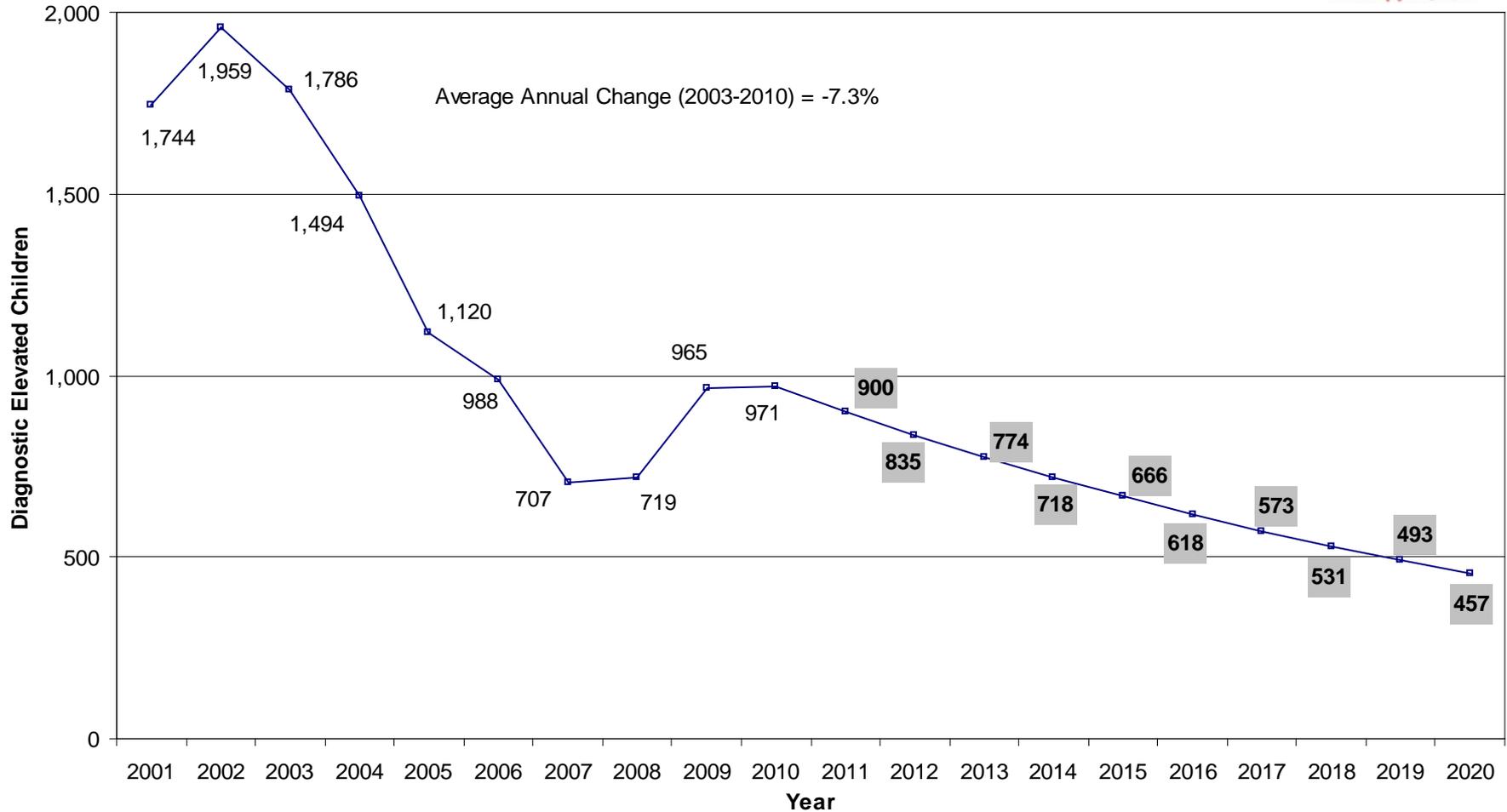
Texas Elevated Children, 2001-2010 (with Regression Projection)*



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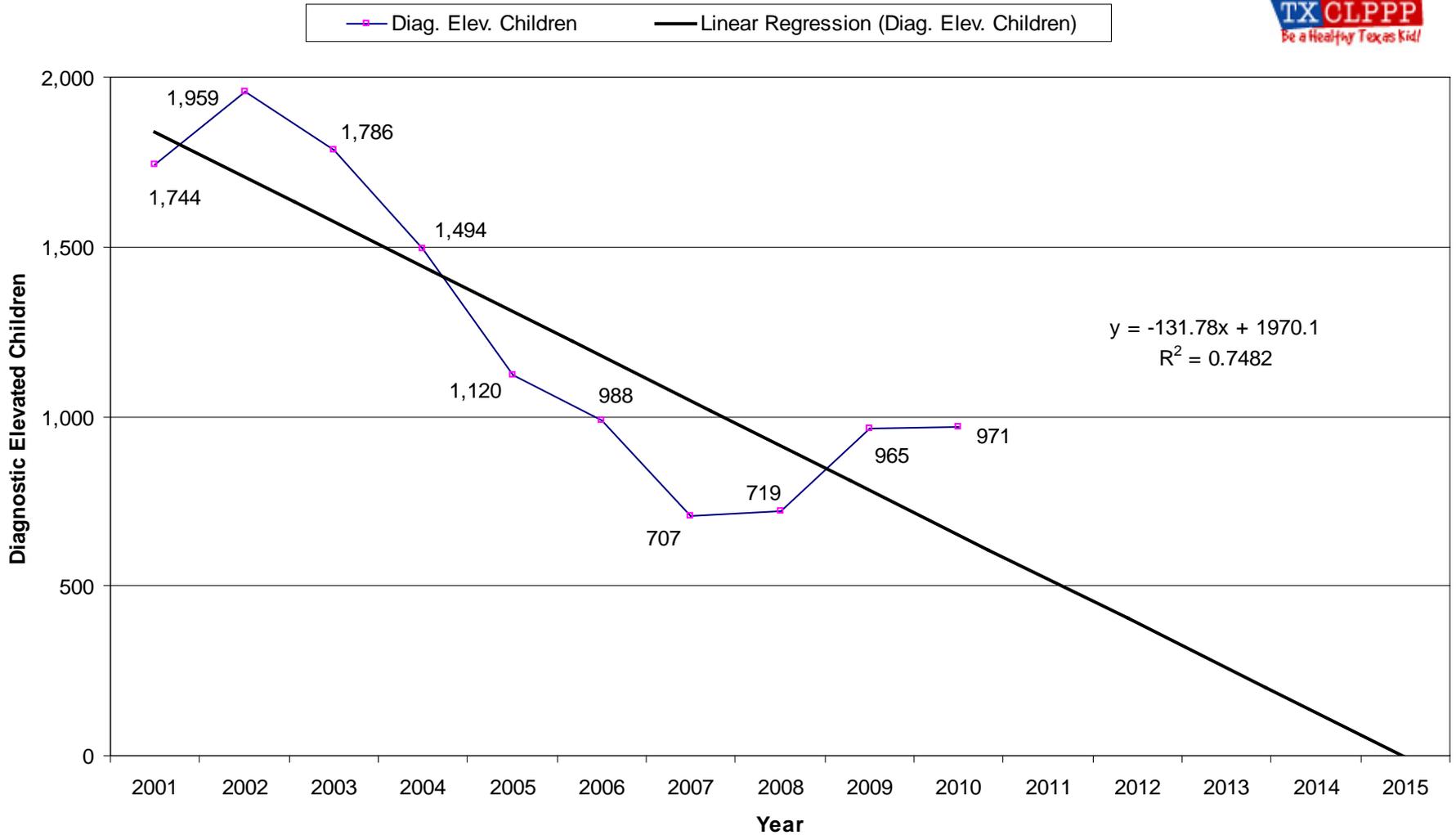


Texas Diagnostic Elevated Children, 2001-2010 (Projected to 2020)*



*Counts for unduplicated children with a blood lead level ≥ 10 mcg/dL per given year, venous sample type only. TX CLPPP 1-800-588-1248

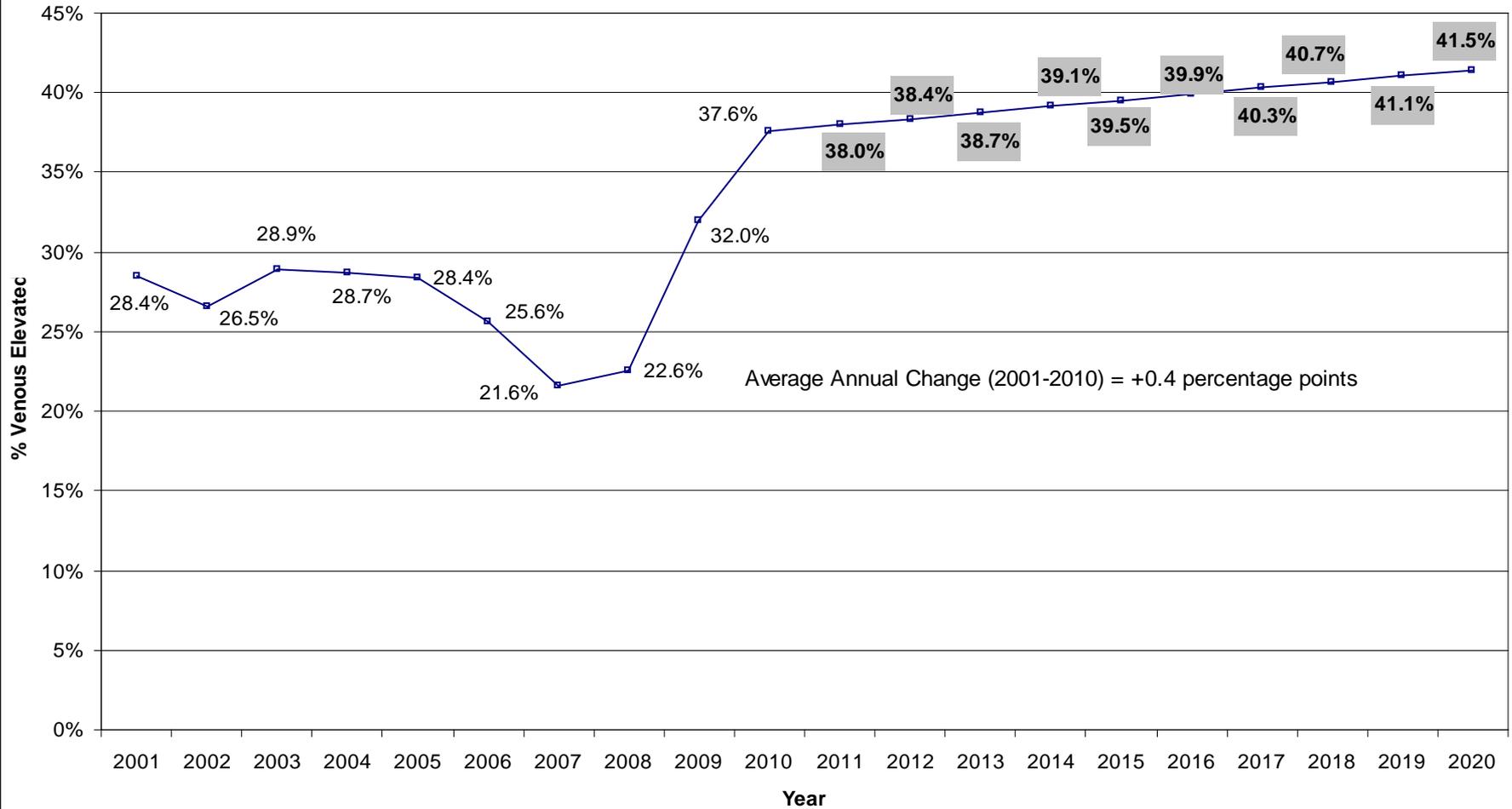
Texas Diagnostic Elevated Children, 2001-2010 (with Regression Projection)*



*Counts for unduplicated children with a blood lead level ≥ 10 mcg/dL per given year, venous sample type only. TX CLPPP 1-800-588-1248



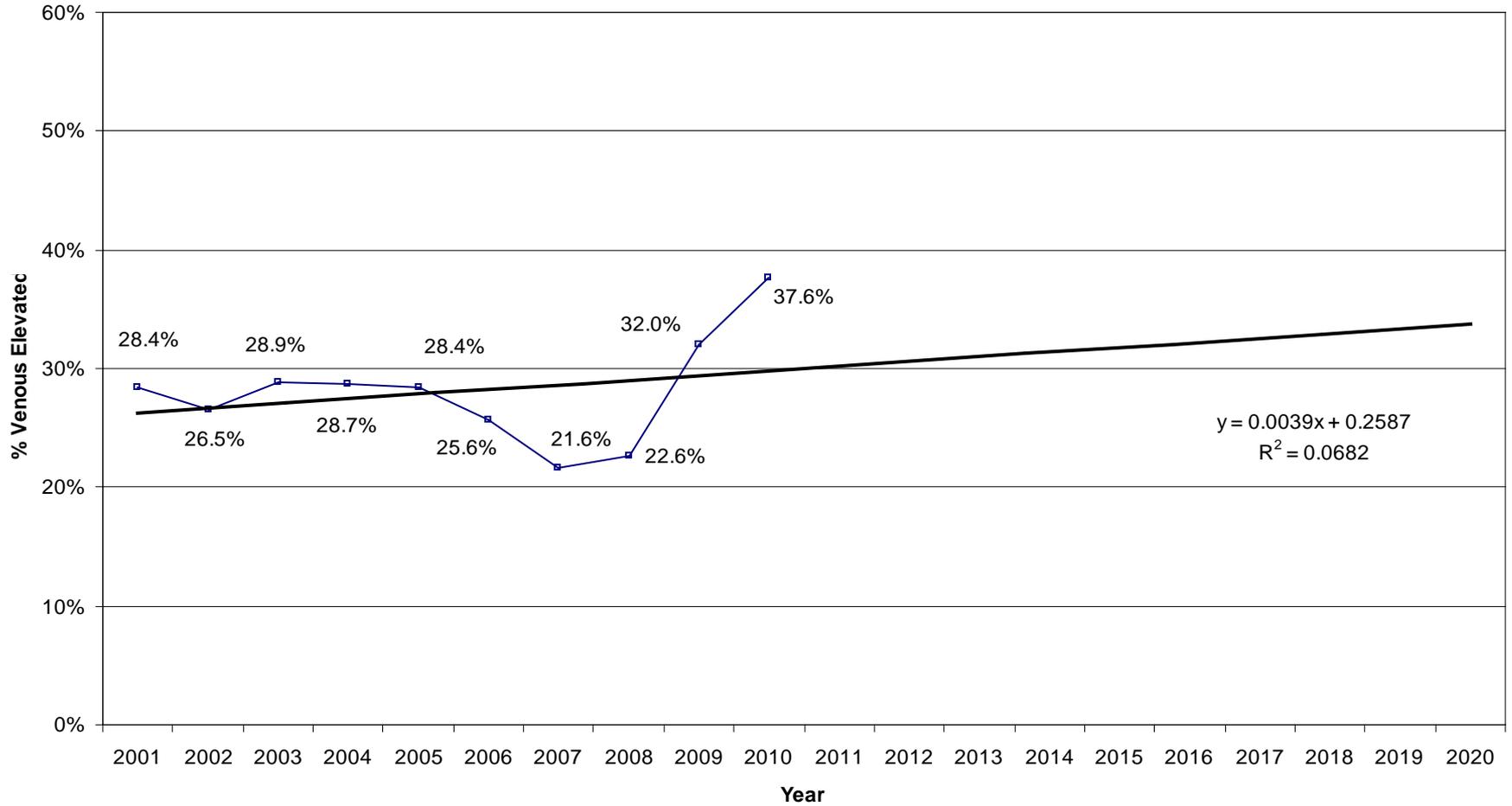
Percentage of Elevated Children with Venous Test, 2001-2010 (Projected to 2020)*



* Percentage of children with an elevated venous test among all children with an elevated blood test. TX CLPPP 1-800-588-



Percentage of Elevated Children with Venous Test, 2001-2010 (with Regression Projection)*



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➤ Summary

Using average annual change model for all elevated children

❖ **964 elevated children estimated for 2020**
(-9.4% per year 2001-2010)

❖ **457 diagnostic elevated children estimated for 2020**
(-7.3% per year 2001-2010)

❖ **Projected increases in the rate of venous testing should not impact diagnostic projection estimates**
(average annual change +0.4 percentage points)

❖ **Regression models have low R-values and cannot yield acceptable estimates.**

➤ **Summary (continued)**

2020 projections for elevated and diagnostic elevated

- ❖ **All elevated children-- requires a 63% decrease, from 2,584 in 2010 to 964 in 2020 (1,620 fewer)**
- ❖ **All diagnostic elevated children-- requires a 53% decrease, from 971 in 2010 to 457 in 2020 (514 fewer)**

➤ **Summary (continued)**

Is this enumeration how we want to define elimination by 2020, or is there a another?

- A. 950 elevated children**
- B. 450 venous elevated children**
- C. Both A. and B.**
- D. Some other definition**



Thanks!
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