

TEEN VAPING IN TEXAS

Michael & Susan Dell Center for Healthy Living

No e-cigarette product is safe for Texas teens to consume.

Vaping, or e-cigarette use, is common among Texas teens, even though the minimum legal age to purchase e-cigarettes is now 21. Teen vaping in Texas is a public health issue.

Vaping Crisis



Vaping increases teens' risk for **nicotine dependence**.¹ Nicotine exposure during adolescence can **harm brain development** and can alter young people's mood, memory, and learning.^{2,3}



Teens who vape are more likely to start and continue cigarette smoking.^{4,5} It is estimated that **498,000 Texas teens under the age of 18 will die prematurely from smoking** if it is not curbed.⁶ Cigarette smoking costs the state of Texas more than **\$10 billion each year** in health care and Medicaid dollars.⁶



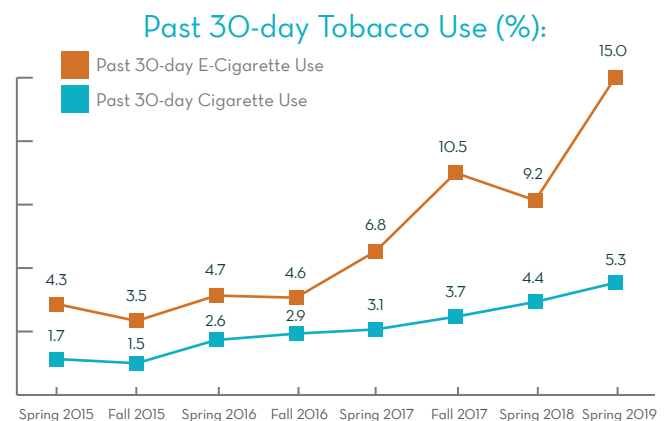
E-liquids and e-cigarette aerosols contain harmful substances like **carcinogens** (e.g., formaldehyde) and **heavy metals** (e.g., lead) that **damage the lungs and body**.⁷

Trends in Teen Vaping

E-cigarettes are now the most commonly used tobacco product among teens according to data from the Texas Adolescent Tobacco and Marketing Surveillance Study (TATAMS).⁸

This study follows a large, population-based cohort of middle school and high school students in the largest metropolitan areas of Texas: Houston, Dallas-Ft. Worth, San Antonio, and Austin.

From 2015 to 2019, past 30-day use of e-cigarettes surpassed past 30-day use of cigarettes, across all years.



Texas can prevent teen vaping:

- Prohibit the sale of flavored tobacco products⁹
- Tax e-cigarette products (e.g., devices, e-juice/liquids, accessories)^{10,11}
- Support implementation of effective, school-based e-cigarette prevention programs¹²
- Talk to teens and parents about the dangers of vaping^{13,14,15}

References

1. Case, K. R., Mantey, D. S., Creamer, M. R., Harrell, M. B., Kelder, S. H., & Perry, C. L. (2018). E-cigarette-specific symptoms of nicotine dependence among Texas adolescents. *Addictive behaviors*, 84, 57-61.
2. Know the Risks of E-cigarettes for Young People: Know the Risks: E-cigarettes & Young People: U.S. Surgeon General's Report. (n.d.). Retrieved May 22, 2020, from <https://e-cigarettes.surgeongeneral.gov/knowtherisks.html>
3. The Effects Of Nicotine On The Adolescent Brain. (2020, February 26). Retrieved May 22, 2020, from <https://tobaccofreeca.com/e-cigarettes/the-effects-of-nicotine-on-the-adolescent-brain/>
4. Berry, K. M., Fetterman, J. L., Benjamin, E. J., Bhatnagar, A., Barrington-Trimis, J. L., Leventhal, A. M., & Stokes, A. (2019). Association of electronic cigarette use with subsequent initiation of tobacco cigarettes in US youths. *JAMA network open*, 2(2), e187794-e187794.
5. Barrington-Trimis, J. L., Urman, R., Berhane, K., Unger, J. B., Cruz, T. B., Pentz, M. A., ... & McConnell, R. (2016). E-cigarettes and future cigarette use. *Pediatrics*, 138(1), e20160379.
6. The Toll of Tobacco in Texas. (2020, January 31). Retrieved May 21, 2020, from <https://www.tobaccofreekids.org/problem/toll-us/texas>
7. Eaton, D. L., Kwan, L. Y., Stratton, K., & National Academies of Sciences, Engineering, and Medicine. (2018). Toxicology of E-Cigarette Constituents. In *Public Health Consequences of E-Cigarettes*. National Academies Press (US).
8. Texas Adolescent Tobacco and Marketing Surveillance Study (TATAMS). Michael & Susan Dell Center for Healthy Living. TATAMS project details available online at <http://go.uth.edu/TATAMS>. TATAMS follows a large, population-based cohort (n=3,907; N=491,096) of middle school and high school students in Houston, Fallas-Ft. Worth, San Antonio, and Austin.
9. California Assembly Votes Overwhelmingly to End the Sale of Flavored Tobacco Products; State Poised to Deliver Historic Victory for Kids Over Tobacco Industry. Statement of Matthew L. Myers, President, Campaign for Tobacco-Free Kids. August 24, 2020. https://www.tobaccofreekids.org/press-releases/2020_08_24_california-flavor-ban
10. Public Health Law Center. (n.d.). Retrieved May 21, 2020, from <https://www.publichealthlawcenter.org/sites/default/files/States-with-Laws-Taxing-ECigarettes-December152019.pdf>
11. U.S. Department of Health and Human Services. Preventing Tobacco Use Among Youth and Young Adults: A Report of the Surgeon General. Atlanta, GA: U.S. Department of Health and Human Services, Centers for Disease Control and Prevention, National Center for Chronic Disease Prevention and Health Promotion, Office on Smoking and Health, 2012.
12. CATCH My Breath E-Cigarette & JUUL Prevention. (n.d.). Retrieved May 21, 2020, from <https://www.catch.org/bundles/23725>
13. What's in an E-Cigarette? (n.d.). Retrieved May 21, 2020, from <https://www.lung.org/quit-smoking/e-cigarettes-vaping/whats-in-an-e-cigarette>
14. Resources for Parents. (n.d.). Retrieved May 21, 2020, from <https://fightflavoredcigs.org/resources-for-parents/>
15. Talk with Your Teen About E-cigarettes: A Tip Sheet for Parents. (n.d.). Retrieved May 21, 2020, from https://e-cigarettes.surgeongeneral.gov/documents/SGR_ECig_ParentTipSheet_508.pdf

About the Texas Child Health Status Report

This project is funded by the Michael & Susan Dell Foundation. Research reported in this paper was supported by grant number [1-P50-CA180906] from the National Cancer Institute (NCI) and the FDA Center for Tobacco Products (CTP). Funding was also provided by the National Cancer Institute (NCI) through the grant [R01-CA239097]. This content is solely the responsibility of the authors and does not necessarily represent the official views of the NIH (NCI) or the FDA.

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Last Updated September 16, 2020