

Youth E-Cigarette
Prevention and the
CATCH My Breath
Program: Policy,
Prevention, and
Implementation

November 10, 2016 11:00 a.m. (CDT)













Healthy children in a healthy world.

We advance health and healthy living for children and families through cutting-edge research, innovative community-based programs, and dissemination of evidence-based practices.

STRATEGIC PLAN GOALS





Founding Partners

MDAnderson



Making Cancer History®





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Our mission is to improve children's health worldwide by developing, disseminating and sustaining the CATCH platform in collaboration with researchers at UTHealth and the University of Texas MD Anderson Cancer Center.

The Foundation links underserved schools and communities to the resources necessary to create and sustain healthy change for future generations.



Current E-Cigarette Use and State Policy



Barry Sharp MSHP, MACM, MCHES

Manager, Tobacco Prevention & Control Branch of the Texas Department of State Health Services





What are we talking about?

"E-cigarette" means an electronic cigarette or any other device that simulates smoking by using a mechanical heating element, battery, or electronic circuit to deliver nicotine or other substances to the individual inhaling from the device. The term does not include a prescription medical device unrelated to the cessation of smoking. The term includes:

- (A) a device described by this subdivision regardless of whether the device is manufactured, distributed, or sold as an e-cigarette, e-cigar, or e-pipe or under another product name or description; and
- (B) a component, part, or accessory for the device, regardless of whether the component, part, or accessory is sold separately from the device.



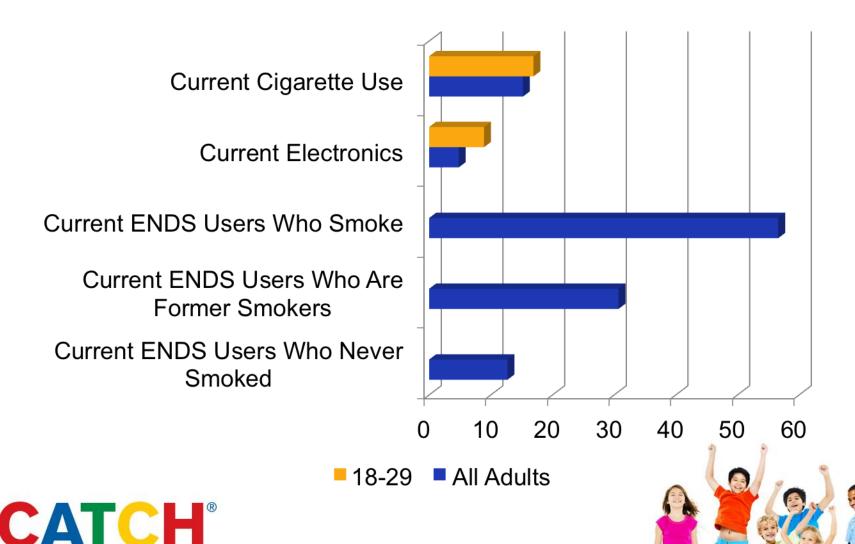




Texas Health & Safety Code, Section: 161.081

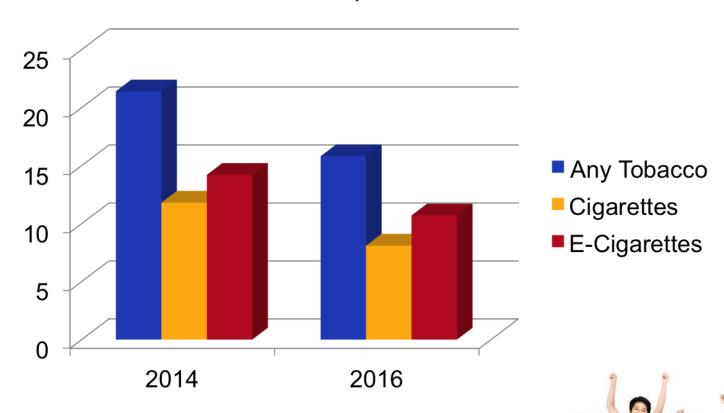


2015 BRFSS



Texas Youth Tobacco Survey

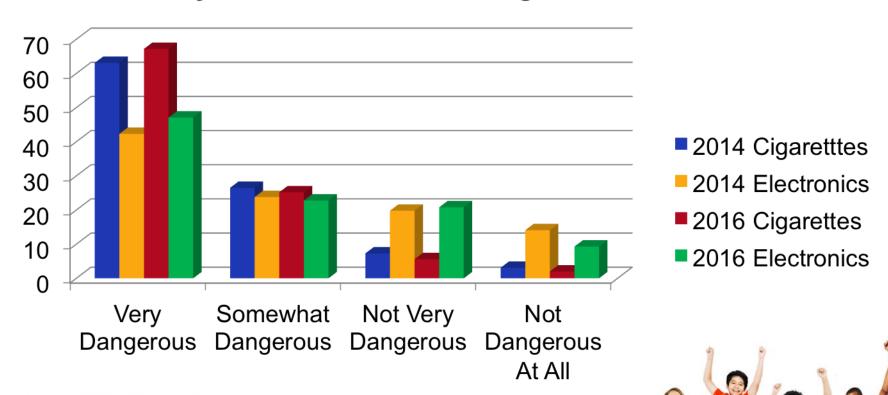
Past Month, Grades 6-12





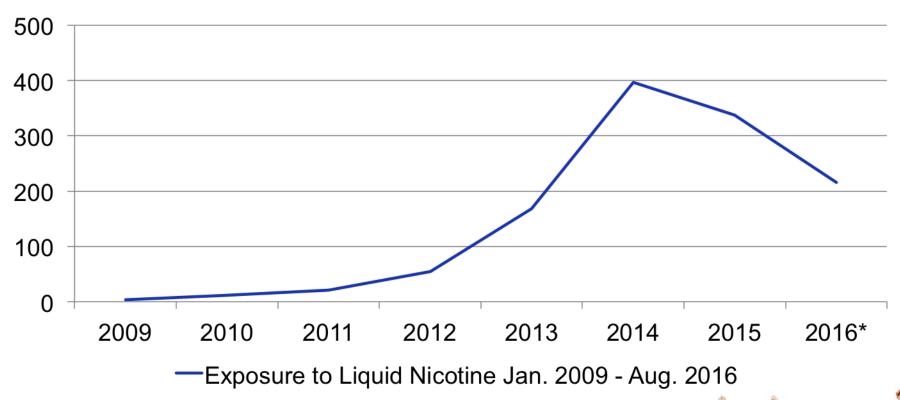
Texas Youth Tobacco Survey

Do you consider these dangerous to health?





Calls to TX Poison Control Network







Tobacco Control is a Tapestry





State Level Prevention Efforts

- SAY WHAT!
 - Middle and High School Statewide
 - Focuses on peer education, advocacy
- Peers Against Tobacco
 - Colleges 2 year, 4 year, Health Science Centers
 - Peer education
 - Campus policy changes
- Enforcement
 - State and Federal Youth Access Laws
 - State laws changed in 2015 to include ENDS
 - FDA rules changed in 2016 to include ENDS



Middle School E-Cigarette Prevention and CATCH My Breath Program



Steven Kelder, PhD, MPH

- •Associate Regional Dean, University of Texas School of Public Health, Austin Campus
- •Professor, Division of Epidemiology, Human Genetics and Environmental Sciences
- Co-Director, Michael & Susan Dell Center for Healthy Living
- Author of CATCH My Breath Program









TOBACCO USE AMONG MIDDLE AND HIGH SCHOOL STUDENTS—UNITED STATES, 2011-2015

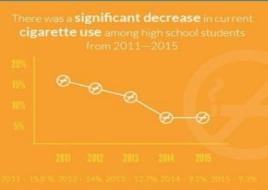
There has been **no significant change in overall tobacco use** among high school students since 2011.



3 million middle and high school students were current users of e-cigarettes in 2015



up from 2.46 million in 2014.





About half of middle school and high school students who used tobacco products in 2015 were current users of **two or more tobacco products**.

Current use of tobacco products by high school students in 2015



YOUTH USE OF TOBACCO IN ANY FORM IS UNSAFE.

bit.ly/YouthTobaccoUse



Do E-Cigarettes cause less damage than combustible cigarettes?

YOUTH USE OF TOBACCO IN ANY FORM IS UNSAFE.

bit.ly/YouthTobaccoUse



Source: National Youth Tobacco Survey 2011-2015



Youth are underappreciated in the debate on adult E-cigarette harm reduction

- Youth and young adults are uniquely vulnerable to detrimental consequences of brain exposure to nicotine, including:
 - Addiction, priming for other addictive substances, reduced impulse control, deficits in attention and cognition, and mood disorders.
- Nicotine can cross the placenta and has known effects on fetal and postnatal development; therefore, nicotine delivered by e-cigarettes during pregnancy can result in multiple adverse consequences:
 - Preterm delivery, stillbirth or sudden infant death syndrome, altered corpus callosum, deficits in auditory processing, and child obesity.
- An unanswered question regards the addictive potential of youthful users who only smoke E-cigarettes.
 - E-cigarette smokers have blood nicotine and cotinine levels equivalent, to combustible cigarette smokers – the addictive potential exists, but has not been carefully documented to date.



Formaldehyde, Acrolien, Explosions, Fires, Accidental poisonings



CATCH My Breath; Development Sept 2015 – March 2016

- Minnesota Smoking Prevention Program is foundation: Social Cognitive Theory
- Literature review suggests key components:
 - Knowledge, Attitudes, Beliefs, Media literacy, Norm leveling for social desirability, Peer group facilitation, Social inoculation skills
- Interviews with Teens
 - Curiosity; misinformation, social media information
- Interviews with teachers; feedback on first draft



Goal & Outcomes



- GOAL: To prevent the initiation of E-Cigarette use among pre-teen and teen adolescents.
- The intended outcomes are to ensure that students will:
 - Resist their own curiosity and peer pressure to experiment with E-cigarettes.
 - Understand that E-cigarettes are addictive, unhealthy and not as popular as they think.
 - Influence friends and peers not to use Ecigarettes.



Curriculum Organization

- Divided into 6 sessions lasting about 30 minutes each.
- Content delivered by teachers, nurses or tobacco educators with active student-centered learning facilitated by peer leaders
- Variety of educational strategies used, including: cooperative learning groups, group discussions, goal setting, interviews, and analyzing mass media.
- Sessions include everything needed to teach a lesson. They are:
 - User friendly & flexible
 - Aligned with National Academic Standards and Texas Essential Knowledge & Skills





Session 1: Negative Consequences of Smoking Ecigarettes



Outline

Activities	Materials
1. Introduction 10-15 minutes	Teacher Materials: Video: What is an E-cigarette and How does it Work? (1 minute 53 seconds) Video: Are E-cigarettes Harmful? (1 minute 38 seconds) Student Materials: Parent Letter
2. Group Work – Brainstorming Negative Consequences ① 10-15 minutes	Teacher Materials: Document Projector Visual 1,Session 1: Picture of Ecigarettes Visual 2, Session 1: Negative Consequences of E-cigarettes Marker Student Materials: Peer Leader Sheet 1, Session 1: Negative Consequences
Total Time: 20-25 minutes	IMPORTANT: Before this session, have students take the pre-test . It should take no more than 10 minutes.

See Texas TEKS Standards for this Lesson

Learner Outcomes

Students will:

- Discover general facts about tobacco use.
- Identify the negative consequences of using E-cigarettes.

Overview

Young people are generally aware of the many negative consequences of using tobacco, particularly lung cancer, heart disease and asthma. Almost everyone knows tobacco has nicotine, which is addictive, and that once you get hooked, it's hard to quit using tobacco. However, young people don't know much about e-cigarettes, and fewer kids know that e-cigarettes are addictive. Unfortunately, kids today are curious and have heard positive things about them (e.g., smoke ring contests, delicious flavors, nicotine is as safe as coffee, etc.). In this session we start setting the record straight and telling your students the truth about E-cigarettes.

During this first session, students are given the opportunity to discuss what they know in small groups about the negative consequences of smoking E-cigarettes. The important point of this brainstorming activity is not that students learn complex information, but that they participate in a discussion about the many physical and social consequences of smoking E-cigarettes. This discussion will set the tone for the general disapproval of using E-cigarettes and the norm of Non-Use.

- **FACT:** Nearly all e-cigarettes contain nicotine; nicotine is addictive; nicotine harms your brain.
- **FACT:** E-cigarette vapor is not water. It contains a mixture of nicotine and harmful chemicals.
- FACT: Nicotine is very harmful to a developing fetus.
- FACT: Nicotine liquid (aka, e-juice) is very harmful and possibly fatal for babies and toddlers.

There are two main activities in Session 1.

Feasibility Study: March 2016 – May 2016

 26 schools taught CATCH My Breath; 15 schools administered prepost student surveys (across 5 states – IL, TX, AR, TN & OK);
 Reached 2,255 6-8th grade students

TEACHER FEEDBACK:

- 91% agreed that the lessons are culturally appropriate.
- 91% felt confident in their ability to teach the CATCH My Breath lessons.
- 86% agreed that the additional teacher resources provided sufficient background information to teach the lessons.



Feasibility Study: March 2016 – May 2016

STUDENT FEEDBACK:

- 86% agreed that they are <u>less likely to use E-cigarettes</u> as a result of participating in the CATCH My Breath program.
- 82% agreed that they will <u>look at E-cigarette advertising differently</u> from now on.
- 86% agreed that CATCH My Breath <u>increased what they know</u> about E-cigarette use.
- 70% agreed that they <u>discussed what they learned from CATCH My Breath with</u> friends or family.
- 9% increase in mean knowledge score, p < .001
- 14% increase in mean media awareness score, p < .001





Future Directions

- Continued pilot testing
 - Development of E-cigarette learning community in Central Texas funded by St David's Foundation.
 - Since end of pilot, 20 more schools including 2 more states have implemented program
 - At least 2 states and 1 county health department planning to offer CMB free of charge to all middle schools in their area (total 1,000+ schools) stand by for news
- Curriculum revision
 - School posters and PE activities
 - 4th and 9th grade lessons
- NIH Randomized control trial





CATCH My Breath in DeKalb County

Participating Middle Schools:

Clinton Rosette Middle School-7th grade Genoa Middle School-6th grade



Lisa Cumings, RN

KishHealth System, Part of Northwestern Medicine





"CATCH My Breath" in DeKalb County

Participating Middle Schools:

Genoa Middle School-6th grade

Clinton Rosette Middle School-7th grade

Lisa Cumings RN, KishHealth System, Part of Northwestern Medicine





KishHealth System Community Needs Assessment

 Every three years a CNA is conducted throughout DeKalb county

- Top Priorities are chosen to implement a community implementation plan for the health system
- Health Priority: Cancer, specifically Lung cancer is the leading cancer site for both genders in DeKalb County



KishHealth System Community Needs Assessment

 Strategy: Directly or indirectly support activities related to smoking prevention programs in school age children







Planning and Preparation

- Targeting two middle schools to pilot the CATCH MY Breath Program
 (6th and 7th grade)
- Deciding who and when the 6 lessons would be taught at each school
- Both schools chose health class to implement the program







Planning and Preparation

- Combined 6 lessons into 3 with one day of presentations (2 nurses)
- Challenge to make sure all 6 lessons were taught within the 3 days
- Preparing Peer Leader folders-communication with teachers







Implementation of Catch My Breath

- Peer leaders took the lead and directed the small groups
- Group activities led to good conversations
- Combination of group work, video and interactive exercises



Parallel Lines Activity

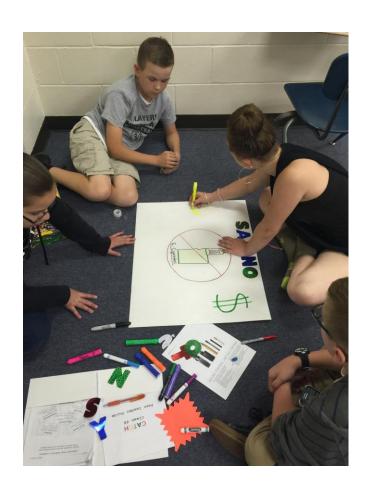




Student Response

- Perception of safety with E-Cigarettes before and after the implementation of the program
- Concern about family members smoking e-cigs
- End of the program project was impactful

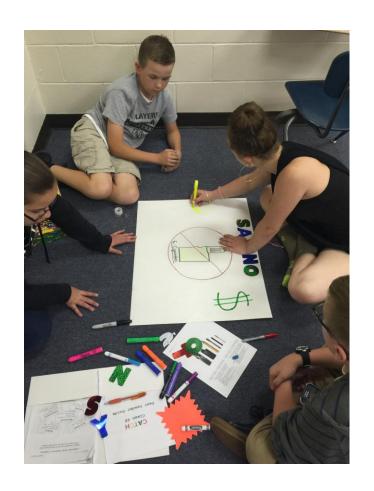






Lessons Learned

- Being prepared to possibly modify the implementation of the program due to time constraints with the school
- Take the time to prepare/organize the peer leader folders prior to the start of the program
- Our experience was that 6th
 graders participated more and
 were more engaged than the 7th
 graders







Future Implementation

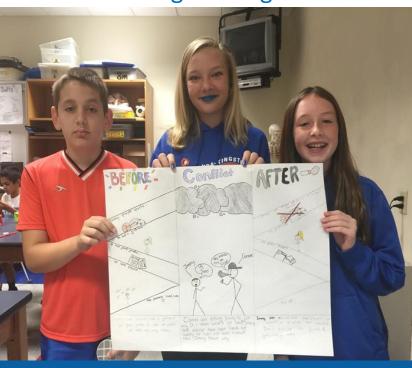
Combine E-Cig curriculum with the tobacco prevention section in health class

Present at the school district wellness committee meetings throughout

the county

Pilot different ways to bring
 CATCH My Breath to the middle schools
 (PE, after school)





Exit Poll

If you would please take 2-3 minutes to fill out our exit poll we would greatly appreciate it!

Thank you for joining us today!







Thank you!

Questions? Contact:

Megan Grayless
CATCH My Breath Program Manager
ecigs@catchglobalfoundation.org

For more information or to order the program, visit:

www.catchmybreath.org

A recording of today's webinar will be available online at www.CATCHinfo.org/resources/webinar-archive









