

Why is it important to prevent exposure to e-cigarettes?

It's about keeping indoor air clean

IT'S NOT JUST "HARMLESS WATER VAPOR"

E-cigarette aerosol contains at least **10 chemicals** on California's Prop 65 list of chemicals known to cause cancer, birth defects or other reproductive harm.

TOLUENE
ACETALDEHYDE
BENZENE
CADMIUM
FORMALDEHYDE
ISOPRENE
LEAD
NICKEL
NICOTINE
N-NITROSONICOTINE



DOMENICHINI, M.L., ET AL., LEVELS OF SELECTED CARCINOGENS AND TOXICANTS IN VAPOR FROM ELECTRONIC CIGARETTES: THE CONTROL 2014-2021, P. 155-9; WILKINS, T.M., ET AL., METAL AND SILICATE PARTICLES INCLUDING NANOPARTICLES ARE PRESENT IN ELECTRONIC CIGARETTE CARTOMIZER FLUID AND AEROSOL, PLOS ONE 2013, 8(3), P. E67987; CALIFORNIA OFFICE OF ENVIRONMENTAL HEALTH HAZARD ASSESSMENT, SAFE DRINKING WATER AND TOXIC ENFORCEMENT ACT OF 1996, CURRENT POPULATION ASSESSMENT, SCHEFF, T., ET AL., DOES E-CIGARETTE CONSUMPTION CAUSE PASSIVE VAPING? INDUSTRY AIR, 2012, 23(1), P. 25-31. ©2014 CALIFORNIA DEPARTMENT OF PUBLIC HEALTH

- **Vaping and “JUULING” is increasing among youth** due to the variety e-juice flavors, like gummy bear and cotton candy.^{1,2} Some e-juice flavorings contain diacetyl, which has been linked to “popcorn lung,” a severe and irreversible lung disease.³
- **Secondhand aerosol from e-cigarettes** can contain **nicotine, chromium, manganese, lead, and nickel** and may be toxic to lung tissue, decrease the body’s ability to fight respiratory infections, and can harm normal lung development.^{4,5}
- **The Surgeon General and American Lung Association** recommend including e-cigarettes in smoke-free workplace laws.^{4,6}
- **Three cities in Milwaukee County include e-cigarettes in their smoke-free workplace law** (West Allis, Greenfield, and South Milwaukee).

FDA-approved methods to help people quit

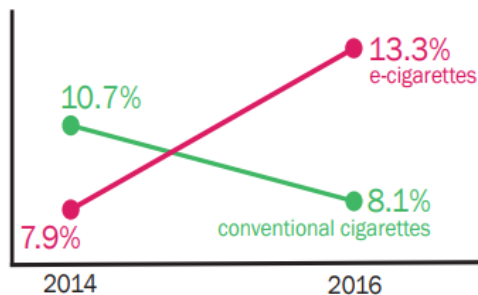
- | | |
|----------------------|--|
| Nicotine patch | Varenicline (Chantix) |
| Nicotine gum | Bupropion SR (Zyban) |
| Nicotine lozenge | Note: E-cigarettes are NOT an approved cessation device |
| Nicotine inhaler | |
| Nicotine nasal spray | |

Source: <https://www.fda.gov/ForConsumers/ConsumerUpdates/ucm198176.htm>

WI High School Youth Tobacco Survey

E-Cigarette Use is Surpassing Conventional Cigarette Use

Although the use of **conventional cigarettes** has been steadily declining, **e-cigarettes** have been gaining in popularity.



The Appeal of Flavors

87.9% think they probably would not or definitely would not try an e-cigarette if it did not have any flavor such as mint, candy, fruit, or chocolate.

Source: 2016 Wisconsin Youth Tobacco Survey: High School Fact

E-cigarette inclusion in smoke-free air laws in WI



- Madison
- Ashwaubenon
- Greenfield
- Janesville
- Juneau
- Marshfield
- Onalaska
- South Milwaukee
- Wausau
- West Allis
- Beloit Township

Sources

- ¹ Wisconsin Department of Health Services. 2016 Youth Tobacco Survey: High School Fact Sheet.
- ² Hafner, J (2017). Juul e-cigs: The controversial vaping device popular on school campuses. *USA Today*.
- ³ Rutledge, R (2015). Gasping for action: A Watchdog Report. *Milwaukee Journal Sentinel*.
- ⁴ U.S. Department of Health and Human Services (2016). *E-Cigarette Use Among Youth and Young Adults: A Report of the Surgeon General*.
- ⁵ Chun et al (2017). Pulmonary toxicity of e-cigarettes. *Am J Physiology Lung Cell Mol Physiol*.
- ⁶ American Lung Association. *E-Cigarettes and Lung Health*.