Public Health Response to the Vaping Epidemic

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E-cigarette Use (Vaping) Epidemic



Electronic cigarettes and other vape devices are devices that deliver an aerosol to the user through inhalation by heating a liquid that usually contains nicotine,

flavorings, and other substances (e.g., marijuana).



middle and high school students in 2018 were current users of tobacco products, up from 3.6 million in 2017.¹



Among LA County High School Students³...

1 in **10**

are current e-cigarette users 56%

Rate of increase among e-cigarette users between 2015-16 to 2017-18.



Rate of current marijuana use– higher than any tobacco products.



VAPING-ASSOCIATED PULMONARY INJURIES (VAPI) ARE LINKED TO E-CIGARETTE USE

Symptoms¹

Patients with VAPI injuries have experienced the following symptoms:

Nausea

Vomiting

- Diarrhea

Respiratory

- Cough
- Hemoptysis (coughing up blood)
- Shortness of breath
- Chest pain

Gastrointestinal

- Abdominal pain

Constitutional

- Fatigue or malaise
- Fever
- Weight loss

- Chills

Complications during Hospitalization

Approximately



of Los Angeles County patients who were hospitalized for VAPI required mechanical ventilation.

Compounds/Additives Found in VAPI Cases

Includes, but not limited to:

- Nicotine
- Synthetic cannabinoids
- Tetrahydrocannabinol (THC)
- Flavorings and other substances

- Cannabinoids (CBD)

Ongoing Epidemiologic Investigations

The etiology of VAPI is undetermined and current epidemiologic investigations involves:

- Identification of harmful aspects of e-cigarette use
- Understanding the underlining mechanisms and causes





By the numbers

Number of deaths associated with VAPI			
Deaths Nationally		Deaths in Los Angeles County	
Number of cases associated with VAPI			
Ca	ses Nationally	Cases in Los Angel	es County
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Public Health Response

Local Response to the Epidemic:

- Education and Engagement in schools (school toolkit), with parents, in disproportionately affected communities
- Ordinance, Policy and Procedures in school districts, County, municipalities
- Global Risk
 Communications/Media to raise public awareness, educate, encourage behavior change
- Healthcare Providers to champion and guide this public health crisis, improve identification and early treatment of nicotine addiction, especially in youth

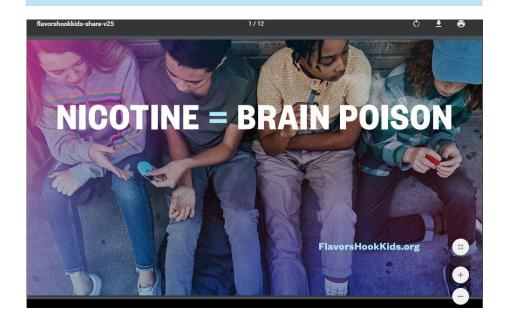
Public Health Response



CHANGES TO COUNTY TOBACCO RETAIL ORDINANCES

 Require a Tobacco Retail License to sell electronic smoking devices (e.g., electronic cigarettes, vapes and other nicotine containing devices)

Prohibit the sale, not use, of flavored tobacco products (e.g., watermelon, cherry, mint, gummy bears) and those that include menthol



R for Prevention

Addressing the Dangers of Increased E-Cigarette Use Among Youth: A Call to Action for Clinicians

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Tony Kuo, MD, MSHS, FAAFP Alice Kuo, MD, PhD, MBA, FAAP, FACP and the Los Angeles County Medical Societies



Many in the medical and public health communities are increasingly concerned with the use of electronic cigarette products (e-cigarettes) among youth. These electronic products, which are handheld devices designed to "deliver emissions for inhalation by heating a solution that commonly contains nicotine, a humectant, and flavoring chemicals"¹ (i.e., designed for the act of vaping) are becoming all too common in youth sensitive areas such as schools, parks, and libraries. The devices are also often used to deliver other dangerous chemicals such as cannabis/tetrahydrocannabinol (THC). Although research is underway to further study the use of e-cigarettes as a cessation aid for helping adult smokers quit using conventional cigarettes,^{2,3} the highly addictive nature of nicotine combined with the heavy promotion of these products to youth through subversive marketing and use of flavorings has caused a public health crisis in younger populations.⁴⁻¹⁴



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Thank You!