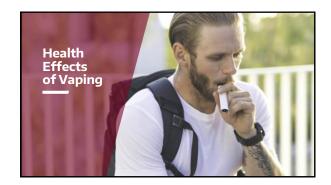




| Question for the Viewers |   |  |  |  |
|--------------------------|---|--|--|--|
|                          | ny regulations in place on the sale or use of<br>d other vaping products in your state? |  |  |  |
| A.                       | Yes   |  |  |  |
| В.                       | No  |  |  |  |
| C.                       | Some are being developed  |  |  |  |
| D.                       | I'm not sure  |  |  |  |
|                          |   |  |  |  |
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# Effects of Vaping on Pulmonary System

- Nasal epithelia: downregulation of immune genes; inhibition of ciliary beating
- Bronchial epithelia: altered protein expression; cellular toxicity; increased cytokine secretion; altered gene expression
- Alveoli: impaired vasoconstriction, impaired gas exchange
- Sputum: altered sputum proteins; impaired macrophage function



Source: Jeffrey E Gotts et al. BMJ 2019;366:bmj.J5275

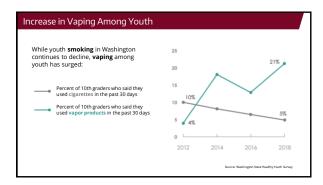
### Effects of E-Cigarettes on People Who Currently Smoke

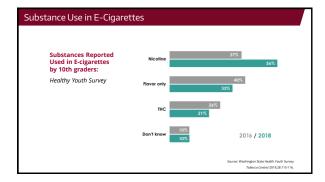
- Completely substituting e-cigarettes for combustible cigarettes reduces exposure to many toxicants and carcinogens present in combustible cigarettes
- $\bullet$  E-cigarettes expose users to different chemicals; long term health effects unknown
- Dual use of cigarettes and e-cigarettes does not necessarily reduce exposure to toxic substances; even a few cigarettes a day can be dangerous
- Studies on effectiveness of E-cigarettes as smoking cessation aid remain mixed

Sources: National Academies of Sciences, Engineering and Medicine, Public Health Consequences of E-Cigarettes, 2011 Goniewicz ML et al. JAMA Network Open 2018. (https://jamanetwork.com/journals/jamanetworkopen/fullaricie/2718096

Tobacco Control 2005;14(5):315–2



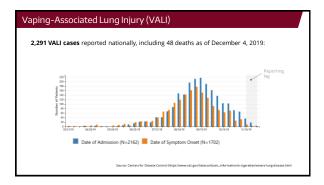


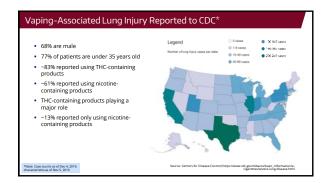


# 2019 National Youth E-Cigarette Use 27% of high school students reported using e-cigarettes More than 1/3 of high school students who vape report vaping on 20 or more of the past 30 days 64% of high school students who vape report only using e-cigarettes 59% of high school students who vape report JUUL as usual brand 72% of high school students who only use e-cigarettes report using flavored e-cigarettes. Current use of menthol or mint flavored e-cigarettes increased from 16% in 2016 to 57% in 2019 of high school students who only use e-cigarettes

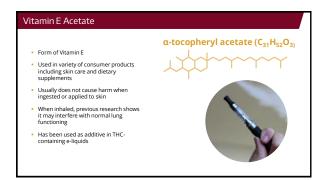


# Common symptoms include cough, shortness of breath, chest pain, nausea, vomiting and/or fever Progress over days or weeks Can lead to respiratory failure Abnormal findings on chest x-ray or CT scan Suspected cause is a chemical exposure









### Vitamin E Acetate Associated With Lung Injury

### According to recent CDC and FDA evidence:

- 49% of THC products sampled show Vitamin E acetate
- Concentration of Vitamin E acetate in subset of THC-containing products was significant: 23% – 88%
- When vapor products with THC were linked to cases, the proportion of THC-containing products with Vitamin E acetate was higher: 77%
- Direct evidence of Vitamin E acetate at the primary site of injury was found in 29 of 29 lung samples from patients in 10 states

### What We Don't Know: Vitamin E Acetate and Lung Injury

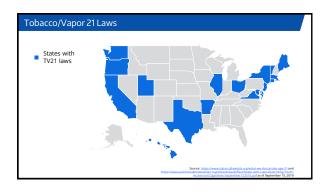
- Cause of lung injury not yet proven
  - No confirmed biological mechanism(s) of action of Vitamin E acetate
  - Comparing Vitamin E acetate results from VALI patient samples to controls is underway
  - Animal studies could provide further evidence
- Vitamin E acetate findings do not rule out that other substances may be contributing to these injuries
- The diversity of patients, patterns of product use and products used may indicate multiple causes of these injuries



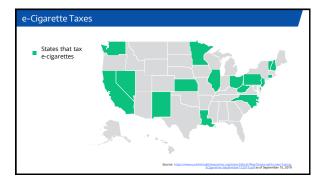
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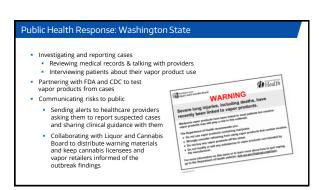
| Question for the Viewers   |  |  |  |  |
|--|--|--|--|--|
| How would you rate your state's response to the vaping epidemic? |  |  |  |  |
| A. Exceptional   |  |  |  |  |
| B. Sufficient  |  |  |  |  |
| C. Insufficient  |  |  |  |  |
| D. I'm not sure  |  |  |  |  |
|  |  |  |  |  |
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| Washington ESSHB 1873: Vapor Product Tax |  |  |
|--|--|--|
| Тах                                      | Revenue                                    |  |
| Accessible containers >5mL = \$0.09/mL   | Cancer research                            |  |
| • All other products = \$0.27/mL         | <ul> <li>Public Health services</li> </ul> |  |
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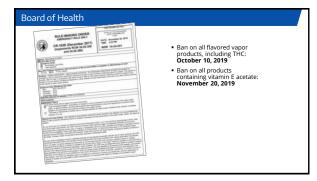






# Governor's Executive Order 19-03

- State Board of Health
  - Emergency rule to ban flavored products
- Department of Health
  - Ban cause of outbreak (in collaboration with LCB)
  - Consumer warnings
  - Ingredient disclosure
  - Provider reporting
  - Education campaign
- Legislation
  - Two bills; one for nicotine and one for marijuana







# Proposed Washington State Legislation

### Non-Cannabis Vapor Products

Some items policy makers are considering:

- Flavored vapor product ban
- Nicotine limits for vapor products
- Vapor product container size restrictions
- Ingredient disclosure
- Authority to ban product/require warning
- New DOH authority on vapor product labels
- New limits on marketing vapor products to youth
- Cessation support

# Proposed Washington State Legislation

### Cannabis Vapor Products

Some items policy makers are considering:

- Flavored vapor product ban
- Ingredient disclosure/lab testing of vapor products
- · Authority to ban product/require warning

# Federal Considerations

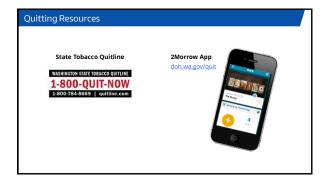


- Tobacco/Vape 21
- Flavor ba
- Preventing Online Sales of E-Cigarettes to Children

# Taking Action

What **you** can do:

- Support those who are trying to quit tobacco or vapor products
- Learn what is happening locally to address youth vaping and VALI
- Engage with your local, tribal, state or federal policymakers



### Resources

- Lewis N, McCaffrey K, Sage K, et al. E-cigarette Use, or Vaping, Practices and Characteristics Among Persons
  with Associated Lung injury Utah, April-October 2019, MMWR Morb Mortal Wkly Rep 2019; 68:953–956.
   DOI: http://dx.doi.org/10.1585/mmwr.mm8842e1
- CDC Website https://www.cdc.gov/tobacco/basic\_information/e-cigarettes/severe-lung-disease.html
- $\bullet \quad Public \, Health \, Law \, Center \, \underline{https://www.publichealthlawcenter.org/topics/commercial-tobacco-control and the public public properties of the public public public properties of the public public$
- National Campaign for Tobacco Free Kids <a href="https://www.tobaccofreekids.org/us-resources">https://www.tobaccofreekids.org/us-resources</a>
- Truth Initiative <a href="https://truthinitiative.org/">https://truthinitiative.org/</a>
- YouthNow <a href="https://www.youthnow.me/">https://www.youthnow.me/</a>

