

Electronic Nicotine Delivery Systems Part I: Regulation to Prevent Youth Initiation and Use

Clive Bates, Director, Counterfactual Consulting Limited Aruni Bhatangar, Professor of Medicine and Distinguished University Scholar, University of Louisville and Fellow, American Heart Association Tevi D. Troy, Vice President of Public Policy, JUUL Labs Moderated by Stacy L. Ehrlich, Partner, Kleinfeld, Kaplan & Becker, LLP and Member, FDLI Board of Directors





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Stacy L. Ehrlich, Partner, Kleinfeld, Kaplan & Becker, LLP and Member, FDLI Board of Directors





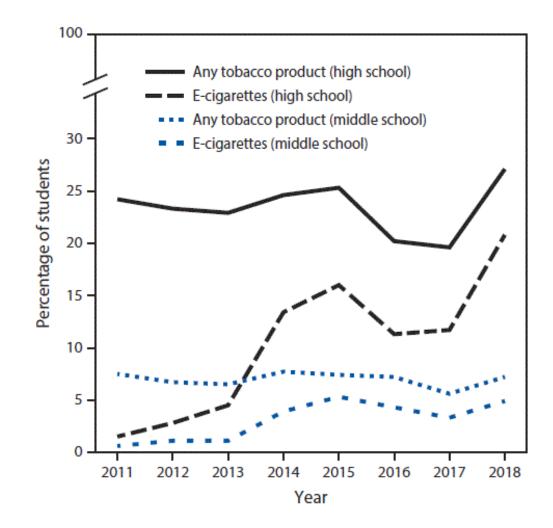
E-cigarettes: Youth initiation and Use

Aruni Bhatnagar, PhD, FAHA Director, American Heart Association Tobacco Regulation Center Department of Medicine University of Louisville, Louisville, KY



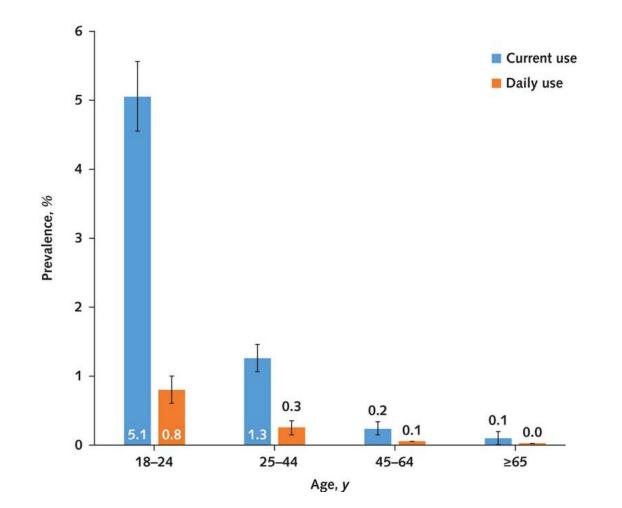
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Current E-Cigarette Use in Youth



National Youth Tobacco Survey 20111-2018

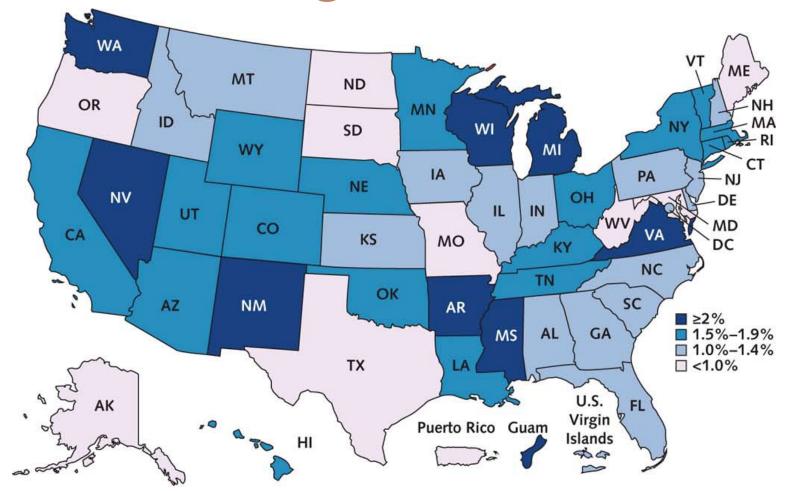
Prevalence among individuals who have never smoked combustible cigarettes



BRFSS (n=261,541). Ann Intern Med 2018: doi: 10.7326/M18-1826

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State-Specific, age-standardized prevalence of sole e-cigarette use



BRFSS (n=261,541). Ann Intern Med 2018: doi: 10.7326/M18-1826

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Association of E-cigarette use with subsequent initiation of tobacco cigarettes in US youths

Prior e-cigarette users had 4.09 times the odds of ever combustible cigarette use compared with youth with no prior tobacco use

Odds of current cigarette use were higher among prior e-cigarette users – OR 2.75 and prior other product use OR 3.43 compared with youths with no prior tobacco use.

At the population level, about 180,000 new never smokers and 45,000 current smokers in the US may have started smoking combustible cigarettes after initiating e-cigarette use

PATH (n=6123). JAMA Netw Open 2019: 2: e187794.

Normalization of Smoking



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Tevi D. Troy, Vice President of Public Policy, JUUL Labs



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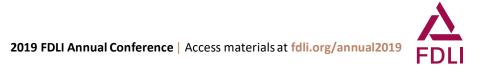


Youth vaping epidemic Three points to consider

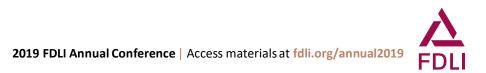
FDLI meeting 3rd May 2019 Washington DC

Clive Bates

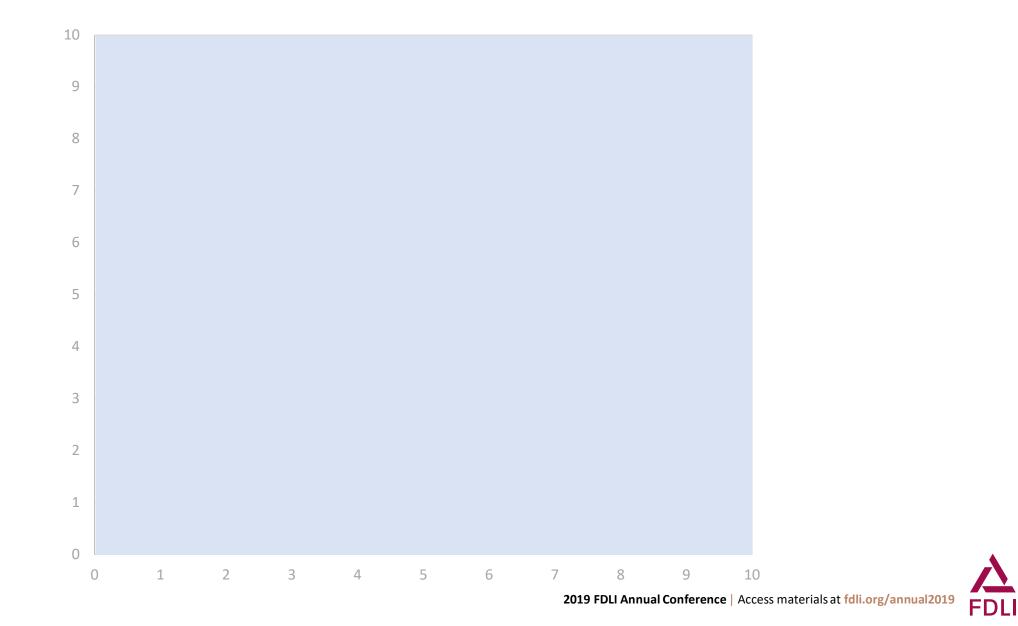
Counterfactual



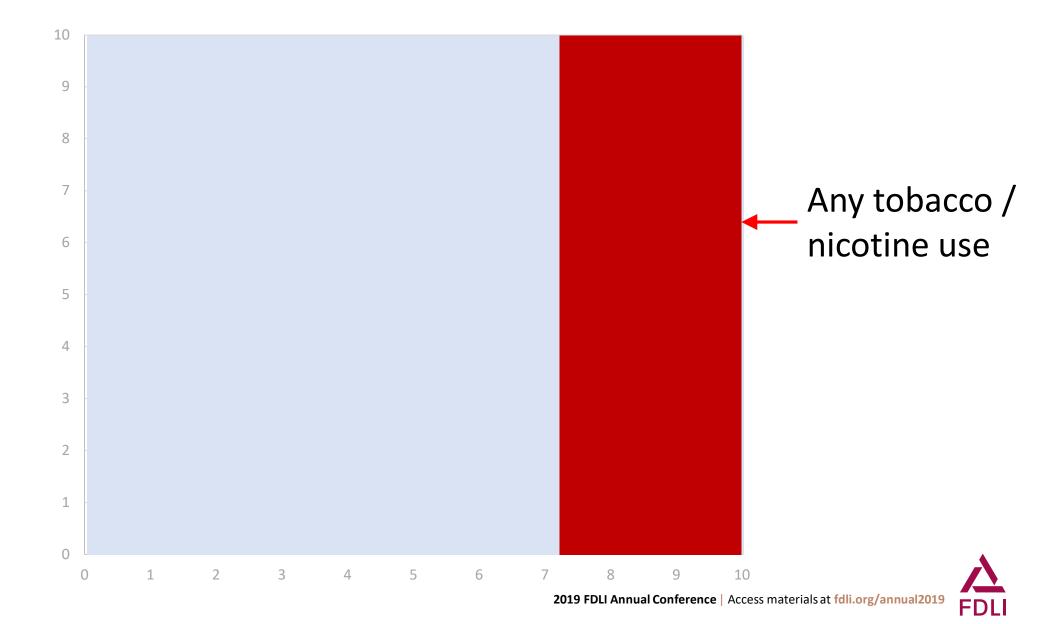
1. An epidemic of what?



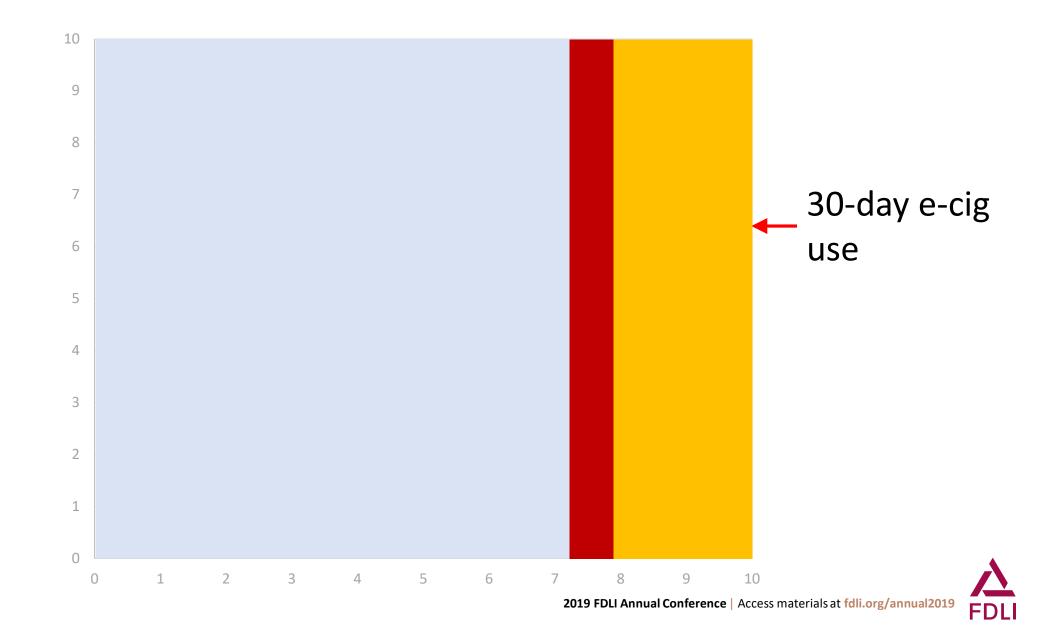
15 million high school age adolescents (100%)



5.2 million high school users of tobacco or e-cigarettes (27.1%)

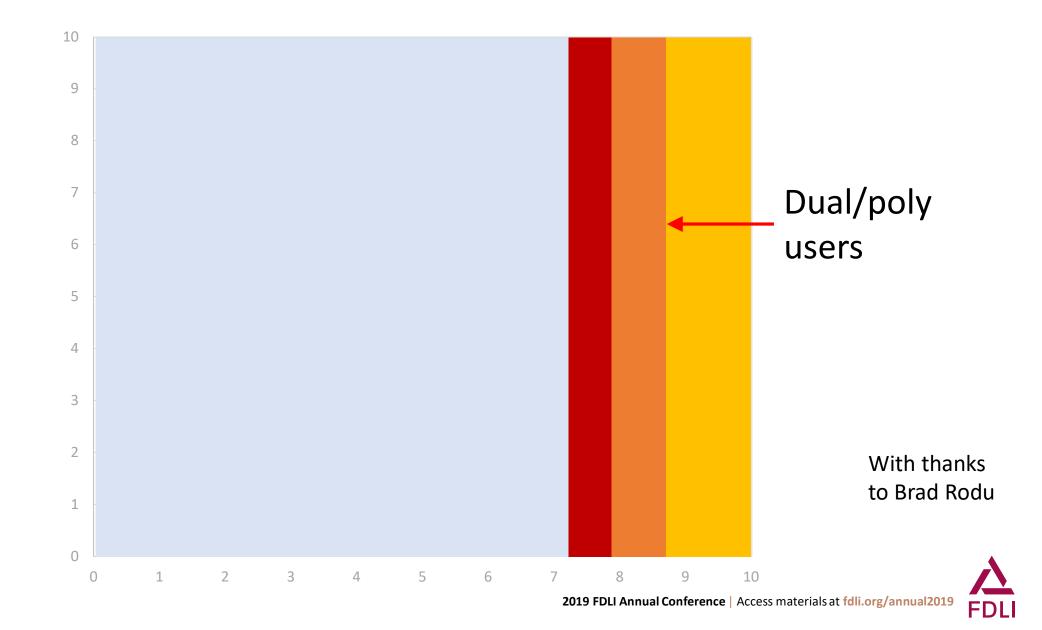


4 million high school students use e-cigarettes (20.8%)



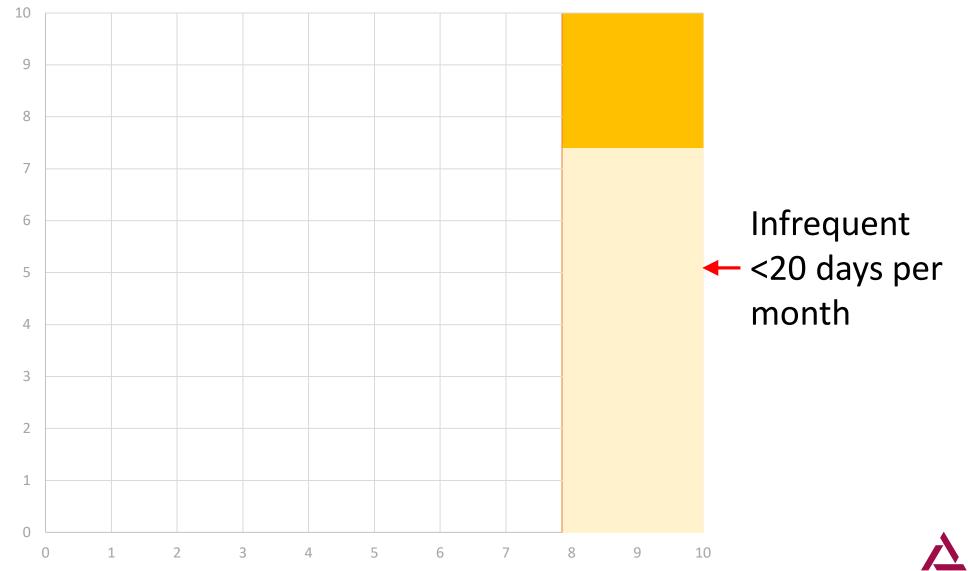
With thanks to Brad Rodu

1.2 million e-cig users also smoke cigarettes or cigars (8.3%)

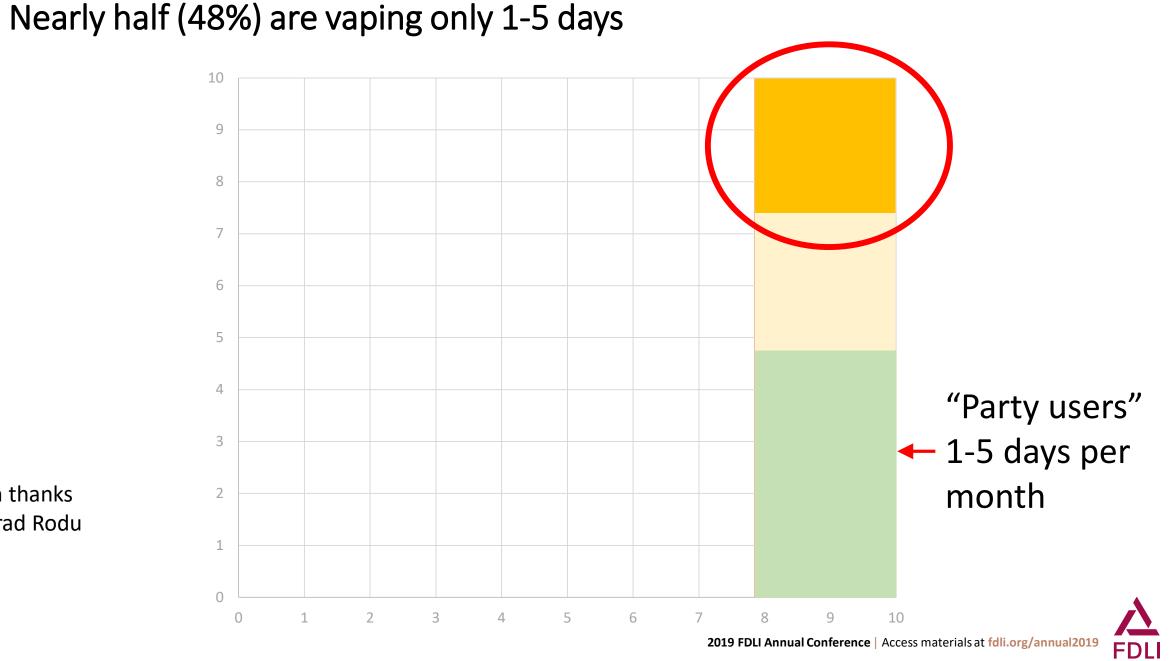


With thanks to Brad Rodu

Most high school e-cig users (~72%) are infrequent users



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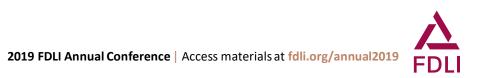
With thanks to Brad Rodu

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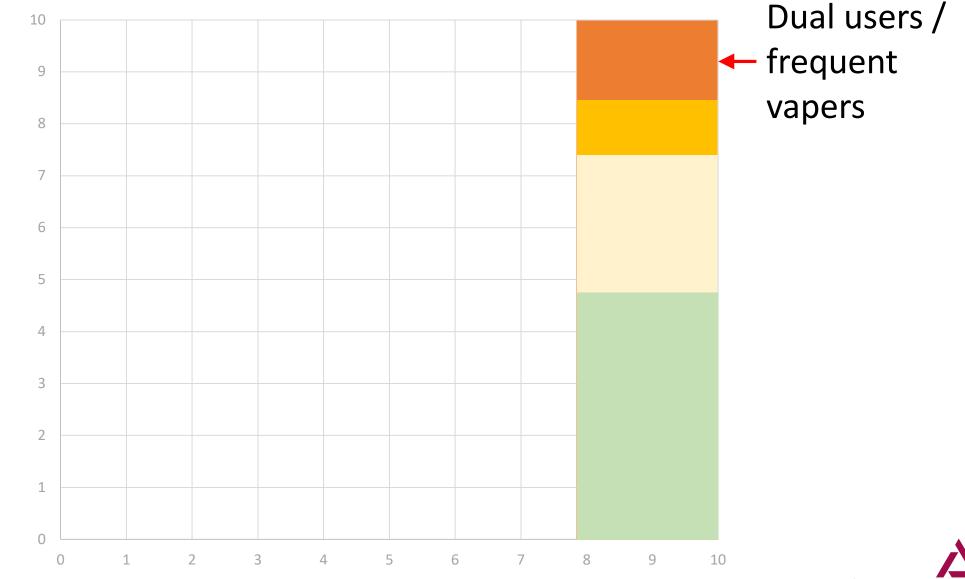
Prior to 2018 regular vapers were rarely tobacco-naïve

It remained rare in 2015 for tobacco naïve youth to have reported using ecigarettes on 10 or more days in the past month (less than 0.1%).

Collins LK et al 2017, Villanti AC et al 2015



Of the frequent vapers, most (58%) are also cigarette or cigar smokers



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Of the frequent vapers, most (58%) are also cigarette or cigar smokers

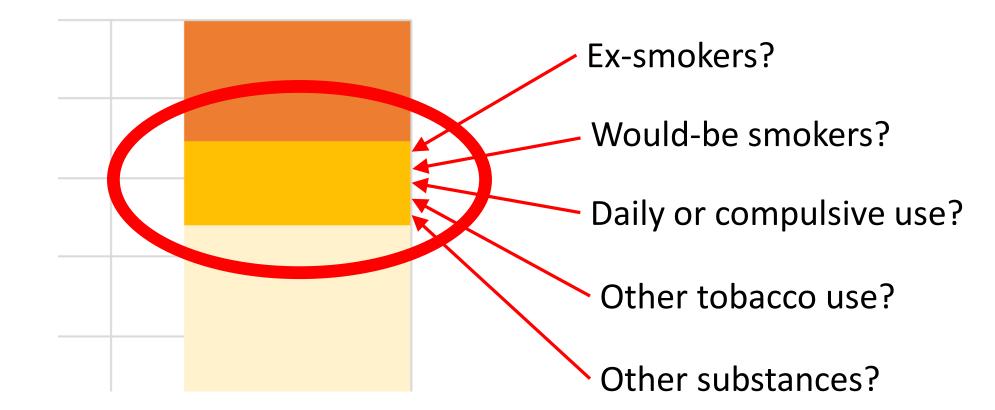


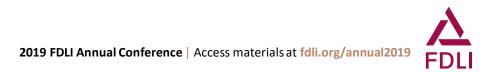
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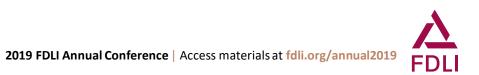
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Drill deeper?





2. Tobacco control as if harm matters



In public health, we focus on harm

While e-cigarettes are not without health risks, they are likely to be far less harmful than combustible tobacco cigarettes. [...] the available data suggest that they are unlikely to exceed 5% of those associated with smoked tobacco products and may well be substantially lower than this figure.

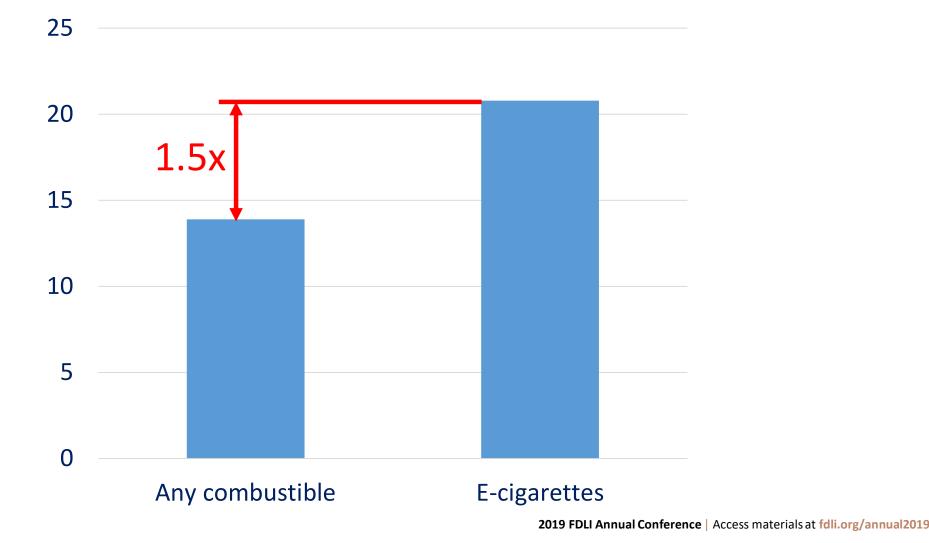
Royal College of Physicians

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NASEM

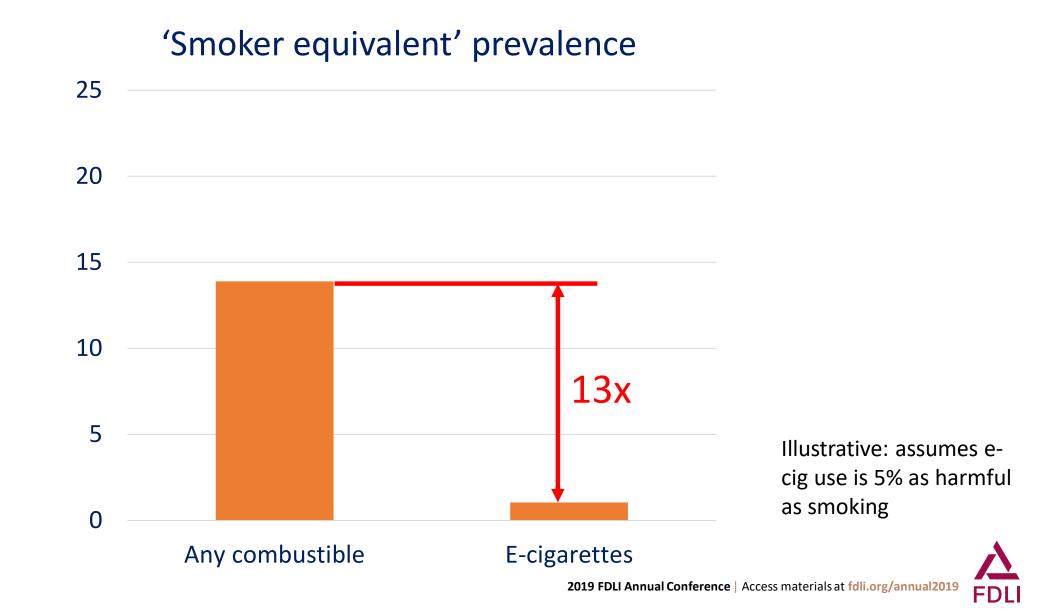
There is now more teen vaping than smoking

Past 30-day Prevalence



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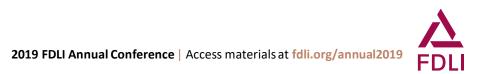
But harm-weighting prevalence radically reverses the basis for concern



Having lost sight of our goal, we must redouble our efforts!

Saul Gorn 🛃

3. Intervention and unintended consequences



Royal College of Physicians – unintended consequences



Nicotine without smoke Tobacco harm reduction

A report by the Tobacco Advisory Group of the Royal College of Physicians

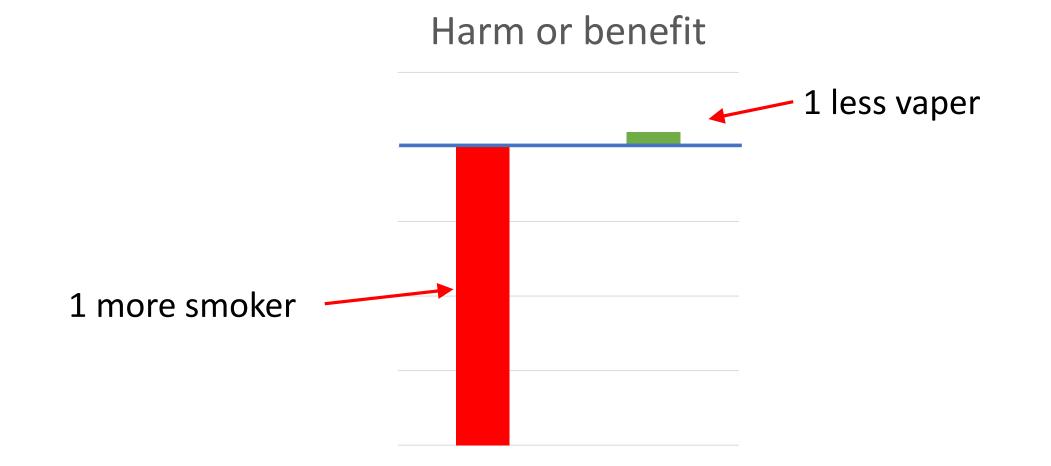
April 2016

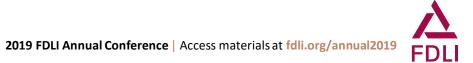
...if [a risk-averse, precautionary] approach also makes e-cigarettes:

- less easily accessible
- less palatable or acceptable
- more expensive
- less consumer friendly
- pharmacologically less effective
- inhibits innovation [...]

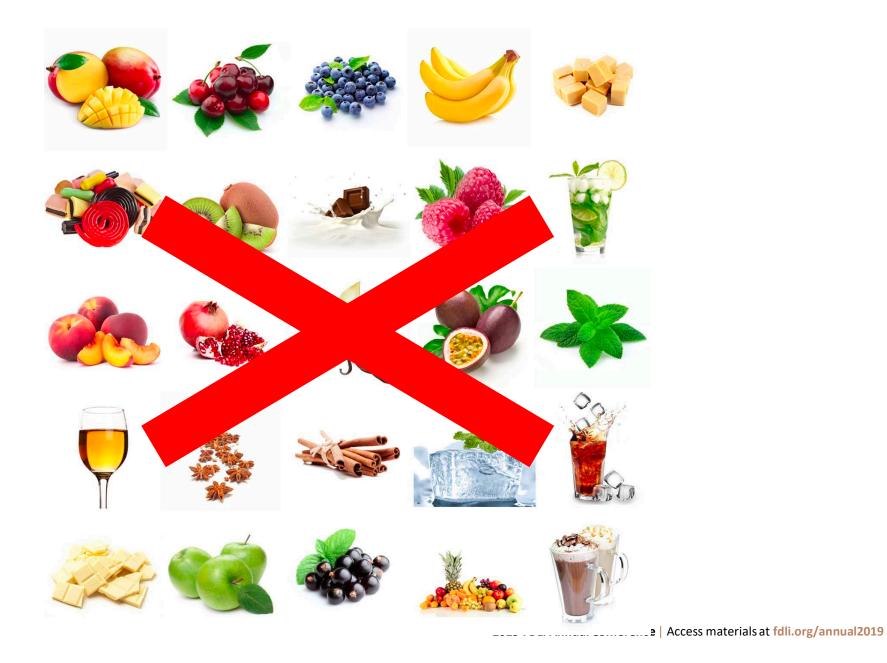
...then it causes harm by perpetuating smoking.

Unintended consequences really matter because of relative harm / benefit





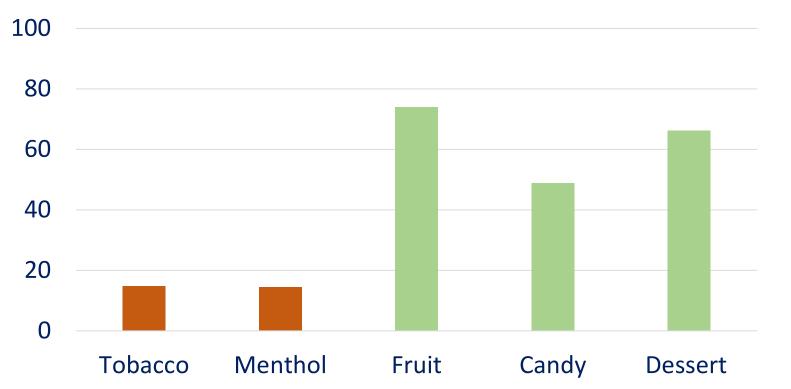
"Ban flavours"



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People who have switched strongly prefer non-traditional flavours

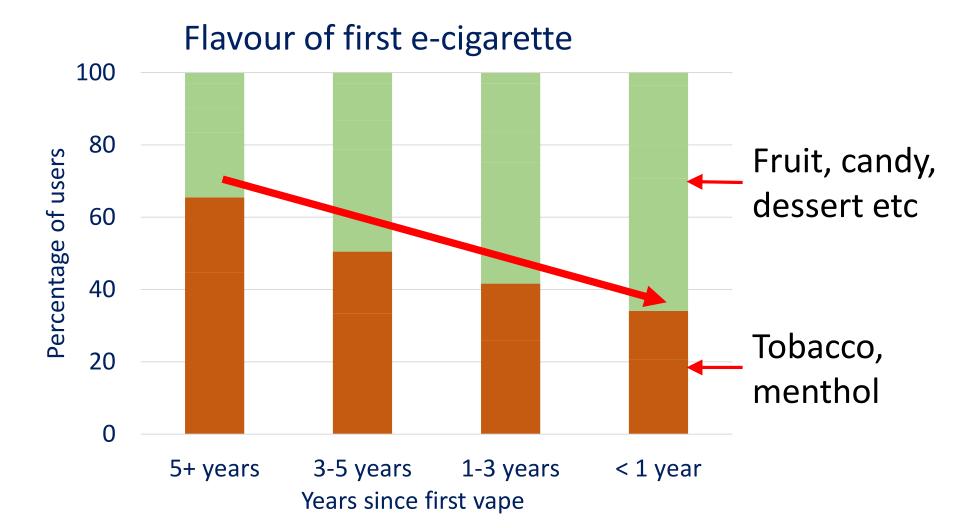
Current use of flavours by 15,807 switchers



Source: adapted from Figure 4 in Russell C et al (2018) Changing patterns of first e-cigarette flavor used and current flavors used by 20,836 adult frequent e-cigarette users in the USA, 2019

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Non-tobacco/menthol flavors are becoming more important to adult vapers



Source: adapted from Figure 1 in Russell C et al (2018) Changing patterns of first e-cigarette flavor used and current flavors used by 20,836 adult frequent e-cigarette users in the USA, 2019

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What youth measures do you propose?

- 1. Above all, keep a sense of proportion and focus on harm
- 2. Implement measures that work
- 3. Do not implement measures that cause more harm than good

Thank you...



The counterfactual

What's the right thing to do? Analytical advocacy - getting beyond the rhetoric of campaigners

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