## **Supplemental Online Content**

Braymiller JL, Barrington-Trimis JL, Leventhal AM, et al. Assessment of nicotine and cannabis vaping and respiratory symptoms in young adults. *JAMA Netw Open*. 2020;3(12):e2030189. doi:10.1001/jamanetworkopen.2020.30189

**eTable 1.** Sample characteristics for participants in the analytic sample compared to non-participants **eTable 2.** Co-occurrence of nicotine vaping, cannabis vaping, cigarette smoking, and combustible cannabis use in the past 6 months **eAppendix.** 

This supplemental material has been provided by the authors to give readers additional information about their work.

	Analytic Sample N=2,553	Completed Wave 9, but NO resp. data N=148	p-value	Did NOT Complete Wave 9 N= 654	p-value
Sex			0.00		<.0001
Female	57.9%	46.0%		39.9%	
Male	42.2%	54.1%		60.1%	
Race/Ethnicity			0.61		0.01
Hispanic	47.3%	48.3%		49.3%	
NH Asian	18.1%	12.6%		12.1%	
NH White	16.5%	14.0%		15.8%	
NH Multiracial	6.6%	5.6%		6.9%	
NH Black	4.8%	5.6%		5.7%	
NH Native Hawaiian or Pacific Islander	4.3%	4.9%		3.2%	
NH Another racial/ethnic category	2.4%	5.6%		5.7%	
Nicotine Vaping at Wave 9			0.01		
Never used	57.1%	45.2%			
Lifetime, but not past 6 months	10.5%	19.9%			
Past 6 months, but not P30D	8.9%	8.9%			
1-2 days in the P30D	7.8%	6.2%			
3+ days in the P30D	15.7%	19.9%			
Cannabis Vaping at Wave 9			0.13		
Never used	61.6%	55.6%			
Lifetime, but not past 6 months	8.4%	13.3%			
Past 6 months, but not P30D	20.1%	17.8%			
1-2 days in the P30D	3.7%	4.4%			
3+ days in the P30D	6.3%	8.9%			
Combustible Cigarette Use at Wave 9			0.01		
Never used	76.9%	63.0%			
Lifetime, but not past 6 months	10.6%	17.1%			
Past 6 months, but not P30D	4.0%	4.1%			
1-2 days in the P30D	4.8%	8.9%			
3+ days in the P30D	3.8%	6.9%			
Combustible Cannabis Use			0.40		
Never used	51.3%	44.8%			
Lifetime, but not past 6 months	12.7%	16.6%			
Past 6 months, but not P30D	7.1%	6.2%			
1-2 days in the P30D	8.6%	9.0%			
3+ days in the P30D	20.3%	23.5%			

eTable 2. Co-occurrence of nicotine vaping, cannabis vaping, cigarette smoking, and combustible cannabis use in the past 6 months.					
	Nicotine Vaping	Cannabis Vaping	Cigarette Smoking	Combustible Cannabis Use	
Nicotine Vaping					
Cannabis Vaping	510 (67.4%)				
Cigarette Smoking	266 (32.2%)	197 (26.8%)			
G 1 (911 G 11 II	500 (51 00/)	(45 (00 00))	250 (55 00/)		

 Combustible Cannabis Use
 588 (71.2%)
 645 (88.0%)
 250 (77.9%)

 Note. Frequencies and column percentages for a 'yes' response are reported for each substance use behavior.

## eAppendix QUESTIONNAIRE

## **Respiratory Outcomes.**

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Bronc	hitic	<b>Symptoms</b>

<ol> <li>During the last 12 months, have you had a cough first thing in the morning, that lasted for as much as 3 months in a row?</li> <li>No</li> <li>Yes</li> <li>Don't know</li> </ol>
2. During the last 12 months, have you had a cough at any other times of the day that lasted for as much as 3 months in a row?  ☐ No ☐ Yes ☐ Don't know
<ul> <li>3. Other than with colds, do you usually seem congested in the chest or bring up phlegm?</li> <li>□ No</li> <li>□ Yes</li> <li>□ Don't know</li> </ul>
4. During the past 12 months, have you had bronchitis?  □ No □ Yes □ Don't know
Wheeze Have you had wheezing or whistling in the chest in the last 12 months?  □ No □ Yes
Shortness of Breath Are you troubled by shortness of breath when hurrying on level ground or walking up a slight hill?  ☐ No ☐ Yes

## **Substance Use Information.**

1. Have you ever used the following substances in your life?

	No	Yes, but not in the last 6 months	Yes, in the last 6 months
Any electronic cigarette <u>with nicotine</u> (e-cigs, personal vaporizer, PV)			
Juul or similar device			
Other electronic vaping device			
Electronic device to vape <u>THC or hash oil</u> (liquid pot, cannabis oil, weed pen, PAX Era)			
Dabbing marijuana concentrates (Wax, shatter, budder, butane hash oil, BHO, concentrates)			
Cigarettes (Marlboro, Camel, Newport, etc.)			
Smoking marijuana (joints, marijuana cigarettes)			
Blunts (marijuana rolled in tobacco leaf or cigar casing)			

2. In the last 30 days, how many total days have you used...?

	0 days	1 or 2 days	3 to 5 days	6 to 9 days	10 to 19 days	20-29 days	All 30 days
Any electronic cigarette with nicotine (e-cigs, personal vaporizer, PV)							
Juul or similar device							
Other electronic vaping device							
Electronic device to vape THC or hash oil (liquid pot, cannabis oil, weed pen, PAX Era)							
Dabbing marijuana concentrates (Wax, shatter, budder, butane hash oil, BHO, concentrates)							
Cigarettes (Marlboro, Camel, Newport, etc.)							
Smoking marijuana (joints, marijuana cigarettes)							
Blunts (marijuana rolled in tobacco leaf or cigar casing)							

Demographics.
What is your sex assigned at birth?
□ Male
☐ Female
Are you Hispanic or Latino?
□ Yes
□ No
Which of the following races do you identify with? (Check all that apply)
☐ American Indian or Alaska Native
□ Asian
☐ Black or African American
☐ Native Hawaiian or Pacific Islander
□ White
☐ Multi-ethnic or Multi-racial
☐ Other (please specify)
Please specify the race(s) with which you identify:
Considering your own income and the income from any other people who help you, how would you describ your overall personal financial situation?
☐ Live comfortably
☐ Meet needs with a little left
☐ Just meet basic expenses
☐ Don't meet basic expenses
How tall are you?
Feet
Inches
How much do you weigh?
pounds