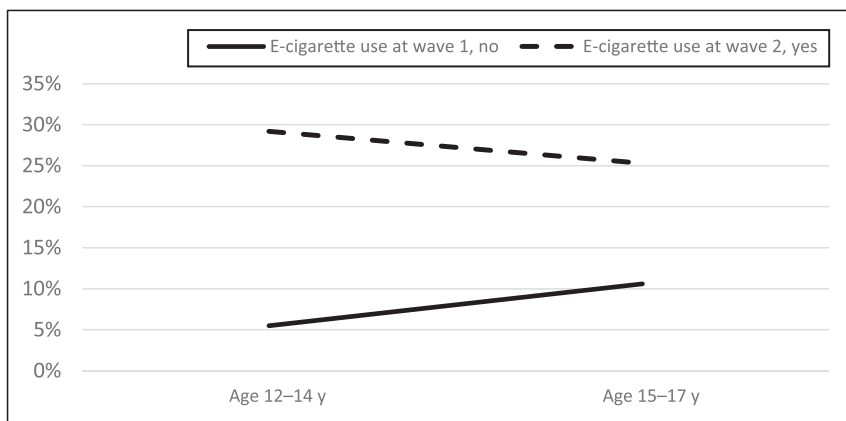


## Supplemental Information



### SUPPLEMENTAL FIGURE 2

Interaction between age group and prevalence of marijuana P12M use at wave 2.

**SUPPLEMENTAL TABLE 5** Sample Characteristics of the PATH Wave 1 and Wave 2 Participants

Characteristics	Participants in Wave 1				<i>P</i> <sup>a</sup>	Participants in Both Wave 1 and Wave 2, <i>n</i> = 11 996				<i>P</i> <sup>a</sup>
	Attrition at Wave 2		Follow-up at Wave 2			Wave 1 Marijuana Ever Use				
	<i>n</i> = 1654		<i>n</i> = 11 996			No, <i>n</i> = 10 364		Yes, <i>n</i> = 1605		
	<i>n</i>	Weighted % (95% CI) <sup>b</sup>	<i>n</i>	Weighted % (95% CI) <sup>b</sup>		<i>n</i>	Weighted % (95% CI) <sup>b</sup>	<i>n</i>	Weighted % (95% CI) <sup>b</sup>	
Age, y										
12–14	780	46.7 (44.3–49.1)	6217	50.5 (49.6–51.4)	.0005	5901	55.6 (54.7–56.6)	297	16.9 (15.0–18.9)	<.0001
15–17	874	53.3 (50.9–55.7)	5779	49.5 (48.6–50.4)		4463	44.4 (43.4–45.3)	1308	83.1 (81.1–85.0)	
Male	855	51.6 (49.2–54.0)	6138	51.3 (50.4–52.2)	.7984	5298	51.2 (50.2–52.1)	823	51.8 (49.4–54.2)	.5640
Female	799	48.4 (46.0–50.8)	5858	48.7 (47.8–49.6)		5066	48.8 (47.9–49.8)	782	48.2 (45.8–50.6)	
Race and/or ethnicity										
NH white	808	54.2 (51.1–57.3)	5806	54.6 (53.7–55.5)	.5909	5079	55.1 (54.1–56.0)	716	52.0 (49.5–54.4)	.0037
NH African American	227	14.0 (12.1–16.2)	1632	13.9 (13.3–14.5)		1418	13.9 (13.2–14.5)	208	13.9 (12.3–15.8)	
Hispanic	467	21.4 (19.4–23.5)	3453	22.3 (21.5–23.0)		2932	21.7 (20.9–22.5)	514	25.8 (23.7–28.0)	
NH others	152	10.4 (8.6–12.4)	1105	9.2 (8.7–9.8)		935	9.4 (8.8–9.9)	167	8.3 (7.0–9.7)	
Grade performance										
A	350	22.6 (20.5–24.7)	3009	27.0 (26.1–28.1)	.0004	2807	29.2 (28.1–30.4)	199	13.3 (11.6–15.1)	<.0001
B	701	43.3 (40.7–45.9)	5126	42.5 (41.5–43.6)		4528	43.4 (42.2–44.5)	587	37.1 (34.4–39.8)	
C or below	589	34.2 (31.4–37.0)	3808	30.4 (29.4–31.5)		2986	27.4 (26.3–28.6)	810	49.7 (46.9–52.5)	
Parental education					<.0001					<.0001
Less than high school	363	19.1 (16.9–21.4)	2471	17.9 (16.6–19.2)		2097	17.5 (16.3–18.8)	371	20.5 (17.7–23.5)	
High school graduate	353	20.5 (18.1–23.1)	2217	17.8 (16.7–19.0)		1874	17.4 (16.3–18.6)	339	20.4 (18.0–23.0)	
Some college	561	34.9 (32.0–37.9)	3794	31.8 (30.3–33.3)		3256	31.5 (30.0–33.0)	527	33.4 (30.2–36.8)	
Bachelor’s degree or greater	361	25.5 (22.8–28.4)	3431	32.6 (30.4–34.8)		3068	33.6 (31.4–35.9)	356	25.8 (22.9–28.9)	
Region										
Northeast	300	20.0 (17.6–22.7)	1744	16.8 (16.2–17.5)	<.0001	1482	16.5 (15.8–17.2)	254	18.5 (16.6–20.5)	.0214
South	295	17.5 (15.7–19.4)	2662	21.6 (20.9–22.4)		2314	21.8 (21.1–22.7)	345	20.4 (18.2–22.7)	
Midwest	683	41.0 (38.0–44.0)	4486	37.6 (36.7–38.4)		3932	38.1 (37.2–39.0)	545	34.3 (31.4–37.2)	
West	376	21.5 (19.3–23.9)	3104	24.0 (23.2–24.8)		2636	23.6 (22.8–24.4)	461	26.9 (23.8–30.1)	
E-cigarette ever use										
No	1457	88.1 (86.4–89.6)	10 699	89.4 (88.8–89.9)	.0754	9820	94.9 (94.5–95.4)	860	53.6 (51.1–56)	<.0001
Yes	194	11.9 (10.4–13.6)	1257	10.6 (10.1–11.2)		511	5.1 (4.6–5.5)	741	46.4 (44–48.9)	
Cigarette ever use										
No	1399	85.3 (83.5–86.9)	10 393	86.7 (86.0–87.3)	.0577	9732	94.0 (93.3–94.6)	638	39.7 (37.1–42.3)	<.0001
Yes	249	14.7 (13.1–16.5)	1589	13.3 (12.7–14.0)		619	6.0 (5.4–6.7)	966	60.3 (57.7–62.9)	
Alcohol ever use										
No	1049	63.7 (61.1–66.4)	7514	61.9 (60.4–63.4)	.2400	7226	69.0 (67.6–70.4)	275	16.1 (14.4–18.0)	<.0001
Yes	593	36.3 (33.6–38.9)	4423	38.1 (36.6–39.6)		3088	31.0 (29.6–32.4)	1326	83.9 (82.0–85.6)	
Nonmedical use of prescription drugs <sup>c</sup>										
No	1458	90.3 (88.8–91.7)	10 710	90.5 (89.9–91.0)	.8009	9467	92.7 (92.1–93.3)	1224	76.3 (73.9–78.5)	<.0001
Yes	161	9.7 (8.3–11.2)	1114	9.5 (9.0–10.1)		743	7.3 (6.7–7.9)	369	23.7 (21.5–26.1)	
Other illicit drug ever use <sup>d</sup>										
No	1608	98.3 (97.5–98.9)	11 704	98.4 (98.1–98.7)	.8132	10 255	99.8 (99.7–99.8)	1429	89.6 (87.8–91.2)	<.0001
Yes	27	1.7 (1.1–2.5)	193	1.6 (1.3–1.9)		29	0.2 (0.2–0.3)	164	10.4 (8.8–12.2)	
Sensation seeking (mean and SE) <sup>e</sup>	1607	2.57 ± 0.03	11 778	2.62 ± 0.01	.0957	10 164	2.54 ± 0.01	1591	3.16 ± 0.02	<.0001

<sup>a</sup> Rao-Scott  $\chi^2$  test was performed to compare the distribution of sample characteristics and substance use by e-cigarette use status at wave 1.

<sup>b</sup> Researchers of the PATH study oversampled adult tobacco users, young adults aged 18–24 y, and African Americans, so weighted estimates were calculated to reflect the prevalence in population.

<sup>c</sup> Prescription drugs include Ritalin, Adderall, painkillers, sedatives, or tranquilizers.

<sup>d</sup> Other illicit drugs include cocaine or crack, stimulants like methamphetamine or speed, heroin, inhalants, solvents, or hallucinogens.

<sup>e</sup> Sensation seeking was based on 5-point scales, labeled “strongly disagree,” “disagree,” “neither agree nor disagree,” “agree,” and “strongly agree.”

**SUPPLEMENTAL TABLE 6** Crude and aORs  
Between E-cigarette  
Use at Wave 1 and  
Marijuana P12M  
Use at Wave 2

Covariate	OR (95% CI)
None	4.3 (3.4–5.7)
Cigarette ever use	2.6 (2.0–3.4)
Alcohol ever use	3.1 (2.4–3.9)
Nonmedical use of prescription drugs	4.2 (3.3–5.4)
Other illicit drug ever use	4.3 (3.4–5.5)
Sensation seeking	3.2 (2.5–4.2)
Age	3.8 (3.0–4.8)
Sex	4.4 (3.5–5.6)
Race and/or ethnicity	4.4 (3.5–5.5)
Grade performance	3.9 (3.1–5.0)
Parental education	4.3 (3.4–5.4)
Region	4.4 (3.5–5.5)