

## Supplemental Information

### METHODS

#### CHS Communities

We studied participants in the CHS, a cohort of adolescents who have been followed yearly since enrollment in 2002–2003 from entire classrooms in schools throughout southern California.<sup>17</sup> A total of 12 communities from the CHS are included in the current analysis (Alpine, Anaheim, Glendora, Lake Elsinore, Lake Gregory, Mira Loma, Riverside, San Bernadino, San Dimas, Santa Barbara, Santa Maria, Upland); a 13th community school district in the original cohort (Long

Beach) elected not to participate in this survey.

#### Missing Data

Data were collected from 2097 adolescents in the CHS in 2014. Complete smoking data (on cigarette and e-cigarette use) were available for 2084 (99.3%) participants. Adolescents who reported currently using each product on at least 1 of the past 30 days and who did not report an age at first use were classified as current users (cigarettes:  $n = 3$  students; e-cigarettes:  $n = 7$  students). Adolescents who reported

never having used a product but who did not report whether they had used a product in the past 30 days were classified as never users (cigarettes:  $n = 1$  student; e-cigarettes:  $n = 2$  students). Participants who reported not using in the past 30 days and who did not indicate an age at which they had begun using each product were classified as missing (cigarettes:  $n = 3$  students; e-cigarettes:  $n = 4$  students). Participants were excluded from the current analysis if they were missing data on ever or current cigarette use ( $n = 3$ ), ever or current e-cigarette use ( $n = 4$ ), or both ( $n = 6$ ).

**SUPPLEMENTAL TABLE 5** Significant Interactions Between Ethnicity and Selected Psychosocial Characteristics on Odds of Past or Current E-cigarette Use: Southern California CHS, 2014

	Hispanic										Non-Hispanic									
	OR (95% CI) <sup>a</sup>					OR (95% CI) <sup>a,b</sup>					OR (95% CI) <sup>a,b</sup>					OR (95% CI) <sup>a,b</sup>				
	Never Users, n (%)	Past Users, n (%)	Current Users, n (%)	Past Versus Never E-cigarette Users	Current Versus Never E-cigarette Users	Never Users, n (%)	Past Users, n (%)	Current Users, n (%)	Past Versus Never E-cigarette Users	Current Versus Never E-cigarette Users	Never Users, n (%)	Past Users, n (%)	Current Users, n (%)	Past Versus Never E-cigarette Users	Current Versus Never E-cigarette Users	Never Users, n (%)	Past Users, n (%)	Current Users, n (%)	Past Versus Never E-cigarette Users	Current Versus Never E-cigarette Users
Anyone living at home use cigarettes?																				
No	662 (78.0)	116 (70.1)	71 (69.6)	Ref	Ref	551 (84.1)	90 (73.8)	48 (56.5)	Ref	Ref	427 (2.59–7.02)**	Ref	Ref	Ref	Ref	Ref	Ref	Ref	Ref	Ref
Yes	166 (20.0)	40 (24.8)	31 (30.4)	1.31 (0.87–1.98)	1.74 (1.09–2.76)	100 (15.3)	32 (26.2)	37 (43.5)	1.82 (1.12–2.94)	4.27 (2.59–7.02)**	4	0	0	1.82 (1.12–2.94)	4.27 (2.59–7.02)**	4	0	37 (43.5)	4.27 (2.59–7.02)**	
Missing	3	5	0																	
Number of friends who use e-cigarettes																				
0	657 (79.1)	62 (38.5)	19 (18.6)	Ref	Ref	532 (81.2)	53 (43.4)	4 (4.7)	Ref	Ref	Ref	Ref	Ref	Ref	Ref	Ref	Ref	Ref	Ref	Ref
1 or 2	76 (9.2)	44 (27.3)	25 (24.5)	5.97 (3.71–9.60)	11.6 (5.99–22.6)	71 (10.8)	50 (41.0)	27 (31.8)	6.58 (4.11–10.5)	52.6 (17.7–156)*	18 (2.8)	13 (10.7)	43 (50.6)	6.23 (2.84–13.7)	373 (118–1177)**	18 (2.8)	13 (10.7)	43 (50.6)	6.23 (2.84–13.7)	373 (118–1177)**
3 or 4	29 (3.5)	34 (21.1)	47 (46.1)	12.1 (6.75–21.6)	58.0 (29.6–114)	34	6	11	3.75 (2.67–5.25)	20.6 (12.6–33.6)***	34	6	11	3.75 (2.67–5.25)	20.6 (12.6–33.6)***	34	6	11	3.75 (2.67–5.25)	20.6 (12.6–33.6)***
Missing	69	21	11																	
Trend				3.94 (2.99–5.19)	8.25 (5.92–11.5)															
Number of friends who use cigarettes																				
0	655 (78.8)	82 (50.9)	46 (45.1)	Ref	Ref	541 (82.6)	73 (59.8)	31 (36.5)	Ref	Ref	Ref	Ref	Ref	Ref	Ref	Ref	Ref	Ref	Ref	Ref
1 or 2	85 (10.2)	45 (28.0)	37 (36.3)	4.03 (2.59–6.28)	6.28 (3.80–10.4)	64 (9.8)	29 (23.8)	37 (43.5)	3.05 (1.82–5.12)	10.3 (5.90–17.9)	9 (1.4)	12 (9.8)	13 (15.3)	7.69 (3.03–19.5)	26.4 (10.1–69.1)*	9 (1.4)	12 (9.8)	13 (15.3)	7.69 (3.03–19.5)	26.4 (10.1–69.1)*
3 or 4	20 (2.4)	19 (11.8)	8 (7.8)	6.79 (3.37–13.7)	5.74 (2.35–14.0)	41	8	4	3.11 (2.13–4.53)	6.62 (4.43–9.89)*	41	8	4	3.11 (2.13–4.53)	6.62 (4.43–9.89)*	41	8	4	3.11 (2.13–4.53)	6.62 (4.43–9.89)*
Missing	71	15	11																	
Trend				3.22 (2.37–4.37)	3.52 (2.48–4.99)															
Best friends' reactions to cigarette use																				
Unfriendly <sup>c</sup>	594 (70.5)	82 (50.9)	58 (56.9)	Ref	Ref	490 (74.8)	65 (53.3)	38 (44.7)	Ref	Ref	Ref	Ref	Ref	Ref	Ref	Ref	Ref	Ref	Ref	Ref
Friendly	169 (20.3)	56 (34.8)	34 (33.3)	2.19 (1.48–3.25)	1.92 (1.21–3.06)	122 (18.6)	44 (36.1)	35 (41.2)	2.67 (1.71–4.16)	3.59 (2.16–5.98)	39 (6.0)	12 (9.8)	12 (14.1)	2.04 (0.99–4.20)	3.71 (1.77–7.80)	39 (6.0)	12 (9.8)	12 (14.1)	2.04 (0.99–4.20)	3.71 (1.77–7.80)
Very friendly	61 (7.3)	21 (13.0)	9 (8.8)	2.32 (1.31–4.09)	1.39 (0.65–2.98)	4	1	0	1.78 (1.32–2.40)	2.32 (1.68–3.21)*	4	1	0	1.78 (1.32–2.40)	2.32 (1.68–3.21)*	4	1	0	1.78 (1.32–2.40)	2.32 (1.68–3.21)*
Missing	7	2	1																	
Trend				1.70 (1.32–2.18)	1.39 (1.02–1.90)															

A total of 128 subjects were excluded from analysis due to missing data on ethnicity (Hispanic versus non-Hispanic). Ref, reference.

<sup>a</sup> Adjusted for community and coadjusted for gender, ethnicity, income, and highest parental education, as appropriate.

<sup>b</sup> Superscript letters denote *P* values for interaction between current versus never use and ethnicity: \**P* < .05, \*\**P* < .01, \*\*\**P* < .005.

<sup>c</sup> Very unfriendly or unfriendly.

**SUPPLEMENTAL TABLE 6** Significant interactions Between Ethnicity and Selected Psychosocial Characteristics on Risk of Past or Current Cigarette Use: Southern California CHS, 2014

	Hispanic						Non-Hispanic								
	OR (95% CI) <sup>a</sup>			OR (95% CI) <sup>a,b</sup>			OR (95% CI) <sup>a,b</sup>			OR (95% CI) <sup>a,b</sup>					
	Never Users, n (%)	Past Users, n (%)	Current Users, n (%)	Past Versus Never Cigarette Users	Current Versus Never Cigarette Users	Never Users, n (%)	Past Users, n (%)	Current Users, n (%)	Past Versus Never Cigarette Users	Current Versus Never Cigarette Users	Never Users, n (%)	Past Users, n (%)	Current Users, n (%)	Past Versus Never Cigarette Users	Current Versus Never Cigarette Users
Anyone living at home use cigarettes?															
No	699 (80.1)	108 (68.4)	42 (66.7)	Ref	Ref	609 (84.2)	57 (62.6)	23 (47.9)	Ref	Ref	111 (15.4)	33 (66.3)	25 (52.1)	2.91 (1.78–4.76)*	5.79 (3.11–10.8)*
Yes	171 (19.6)	45 (28.5)	21 (33.3)	1.69 (1.14–2.50)	1.94 (1.11–3.42)	3	1	0	Ref	Ref	3	1	0	—	—
Missing	3	5	0	—	—	3	1	0	—	—	3	1	0	—	—
Number of friends who use cigarettes															
0	688 (78.8)	84 (53.2)	11 (17.5)	Ref	Ref	593 (82)	48 (62.8)	4 (8.3)	Ref	Ref	79 (10.9)	28 (50.8)	23 (47.9)	4.26 (2.50–7.25)	45.1 (15.0–135)
1 or 2	89 (10.2)	50 (31.7)	28 (44.4)	4.91 (3.20–7.54)	21.0 (9.91–44.4)	79 (10.9)	28 (50.8)	23 (47.9)	Ref	Ref	10 (1.4)	7 (7.7)	17 (35.4)	8.06 (2.85–22.7)	265 (72.2–975)*
3 or 4	19 (2.2)	13 (8.2)	15 (23.8)	5.76 (2.69–12.3)	52.3 (20.5–135)	10 (1.4)	7 (7.7)	17 (35.4)	Ref	Ref	41	8	4	3.65 (2.42–5.50)	17.0 (9.63–30.0)
Missing	77	11	9	3.39 (2.47–4.65)	9.07 (5.88–14.0)	41	8	4	Ref	Ref	—	—	—	—	—
Trend															
Best friends' reactions to cigarette use															
Unfriendly <sup>c</sup>	633 (72.5)	81 (51.3)	20 (31.8)	Ref	Ref	543 (75.1)	44 (48.4)	6 (12.5)	Ref	Ref	132 (18.3)	39 (42.9)	30 (62.5)	3.61 (2.23–5.83)	40.5 (8.27–50.6)*
Friendly	163 (18.7)	66 (41.8)	30 (47.6)	3.20 (2.19–4.68)	5.45 (2.98–9.97)	132 (18.3)	39 (42.9)	30 (62.5)	Ref	Ref	45 (6.2)	6 (6.6)	12 (25.0)	1.51 (0.60–3.77)	21.6 (7.63–61.3)*
Very friendly	68 (7.8)	11 (7.0)	12 (19.1)	1.22 (0.61–2.42)	5.49 (2.52–11.9)	45 (6.2)	6 (6.6)	12 (25.0)	Ref	Ref	3	2	0	1.86 (1.34–2.59)	4.72 (3.13–7.11)
Missing	9	0	1	—	—	3	2	0	—	—	—	—	—	—	—
Trend															
Are e-cigarettes bad for your health?															
Strongly agree	576 (66.0)	77 (48.7)	26 (41.3)	Ref	Ref	515 (71.2)	38 (41.8)	13 (27.1)	Ref	Ref	129 (17.8)	29 (31.9)	16 (33.3)	3.12 (1.84–5.28)*	4.81 (2.24–10.3)
Agree	186 (21.3)	41 (26)	18 (28.6)	1.65 (1.08–2.51)	2.12 (1.12–4.00)	129 (17.8)	29 (31.9)	16 (33.3)	Ref	Ref	73 (10.1)	23 (25.3)	19 (39.6)	3.97 (2.22–7.11)	10.0 (4.68–21.4)*
Disagree <sup>d</sup>	105 (12.0)	39 (24.7)	19 (30.2)	2.82 (1.80–4.42)	3.68 (1.94–7.00)	73 (10.1)	23 (25.3)	19 (39.6)	Ref	Ref	6	1	0	2.10 (1.59–2.77)	3.22 (2.23–4.65)*
Missing	6	1	0	—	—	6	1	0	—	—	—	—	—	—	—
Trend															
Are cigarettes bad for your health?															
Strongly agree	742 (85.0)	132 (83.5)	43 (68.3)	Ref	Ref	656 (90.7)	78 (85.7)	30 (62.5)	Ref	Ref	57 (7.9)	12 (13.2)	18 (37.5)	1.62 (0.83–3.18)	6.50 (3.35–12.6)*
Agree	109 (12.5)	23 (14.6)	18 (28.6)	1.06 (0.64–1.73)	2.65 (1.45–4.85)	57 (7.9)	12 (13.2)	18 (37.5)	Ref	Ref	7 (1.0)	0 (0)	0 (0)	—	—
Disagree <sup>d</sup>	17 (2.0)	2 (1.3)	2 (3.2)	—	—	7 (1.0)	0 (0)	0 (0)	—	—	3	1	0	—	—
Missing	5	1	0	—	—	3	1	0	—	—	—	—	—	—	—

A total of 128 subjects were excluded from analysis due to missing data on ethnicity (Hispanic versus non-Hispanic). Ref, reference; —, analysis not possible due to small cell count.

<sup>a</sup> Adjusted for community and coadjusted for gender, ethnicity, income, and highest parental education, as appropriate.

<sup>b</sup> Superscript letters denote *P* values for interaction between past or current use versus never use and ethnicity: \**P* < .05.

<sup>c</sup> Very unfriendly or unfriendly.

<sup>d</sup> Disagree or strongly disagree.