Supplementary material for *Patterns of poly tobacco use in the Population Assessment of Tobacco and Health (PATH) study, 2013-2017: a multistate Markov transition analysis*

Suplemental Figure 1. The reduced Q matrix used for multistate modeling. Zero cells mean that the one-step instantaneous transition is not allowed, and that it goes through a latent unobserved state. Cigs = cigarettes, E-Cigs = e-cigarettes, OC = other combustibles, SLT = smokeless tobacco, Polyuse + Cigs is any product combination of three or more products that includes cigarettes, Polyuse no Cigs is any product combination of two or more products that does not include cigarettes.

Transition State

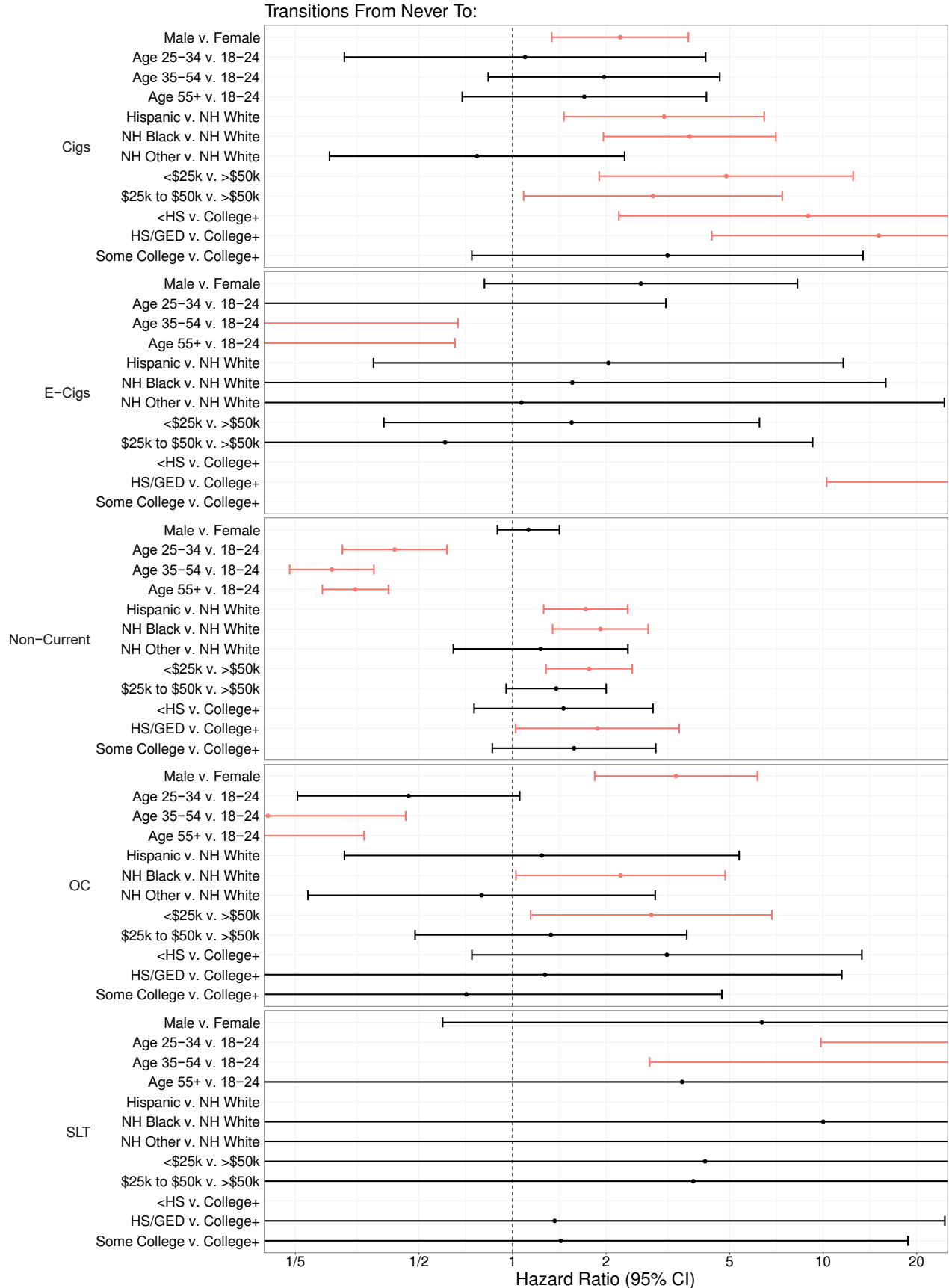| Initial State \ Transition State	Never	Former	Cigs	E-Cigs	Other Combustible	SLT	Cigs + E-Cigs	Cigs + Combust	Cigs + SLT	Poly use w/ Cigs	Poly use w/out Cigs
Never	1	1	1	1	1	1	0	0	0	0	0
Former	0	1	1	1	1	1	0	0	0	0	0
Cigs	0	1	1	0	0	0	1	1	1	0	0
E-Cigs	0	1	0	1	0	0	1	0	0	0	1
Other Combustible	0	1	0	0	1	0	0	1	0	0	1
SLT	0	1	0	0	0	1	0	0	1	0	1
Cigs + E-Cigs	0	1	1	1	0	0	1	0	0	1	0
Cigs + Combust	0	1	1	0	1	0	0	1	0	1	0
Cigs + SLT	0	1	1	0	0	1	0	0	1	1	0
Poly use w/ Cigs	0	1	1	0	0	0	1	1	1	1	1
Poly use w/out Cigs	0	1	0	1	1	1	0	0	0	1	1

Supplemental Table 1. Confidence intervals for modeled cumulative 1-wave transition probabilities with no covariate adjustment. Cigs = cigarettes, E-Cigs = e-cigarettes, OC = other combustibles, SLT = smokeless tobacco, Polyuse + Cigs is any product combination of three or more products that includes cigarettes, Polyuse no Cigs is any product combination of two or more products that does not include cigarettes.
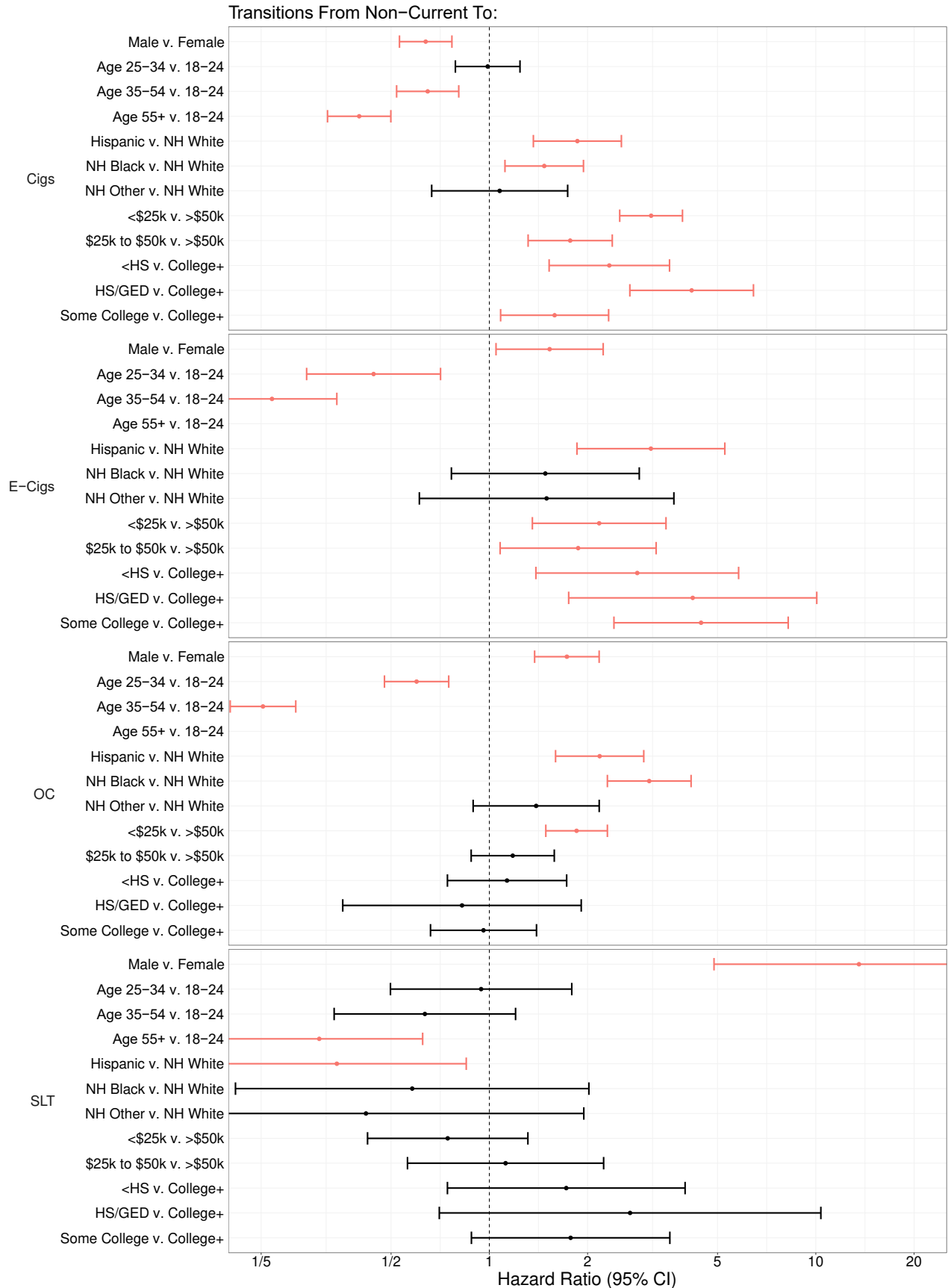
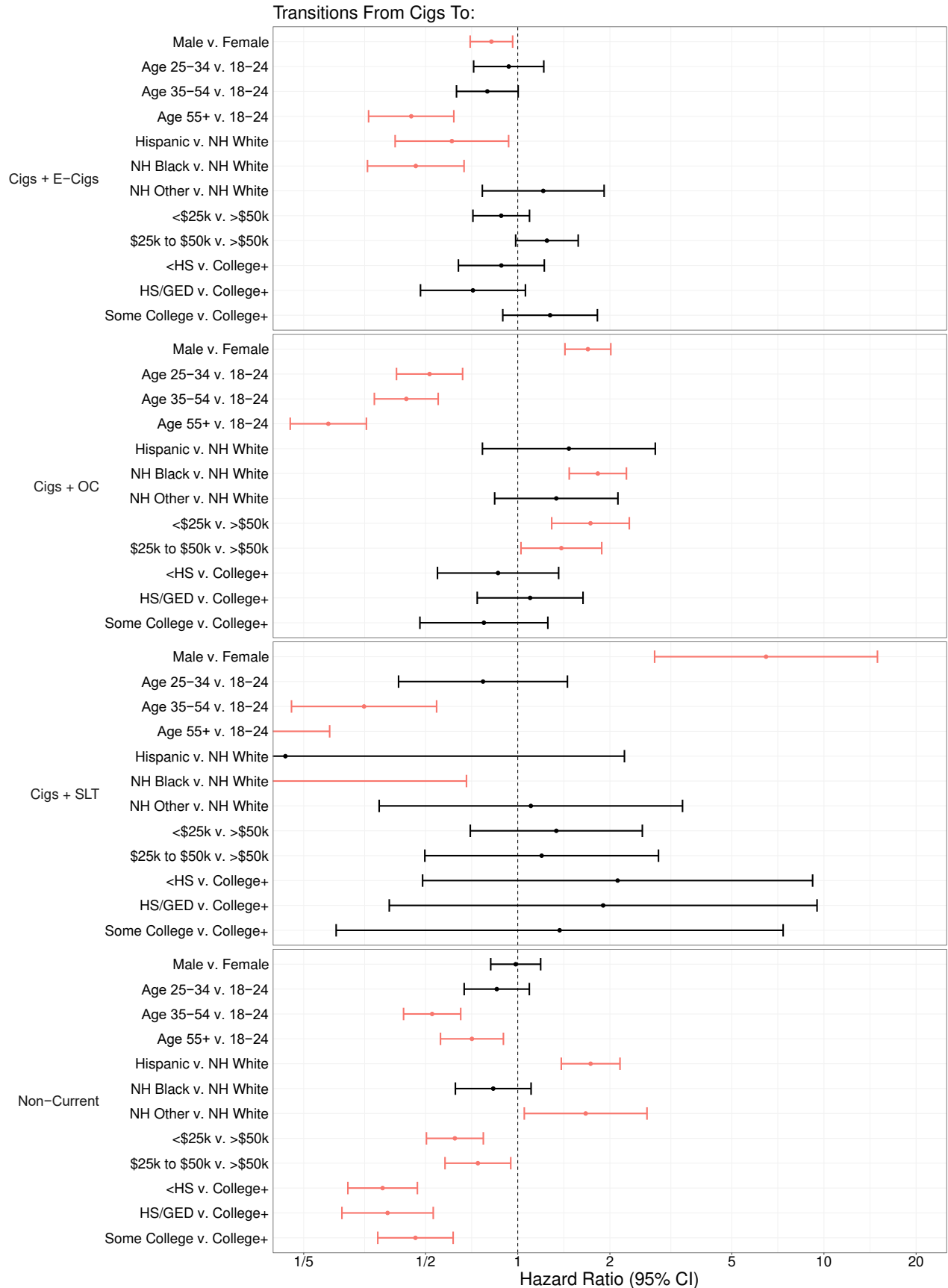|		Transition State			
		Never	Non-Current	Cigs	E-Cigs
Initial State	Never	95.5 (95.1,95.9)	3.2 (2.9,3.6)	0.5 (0.4,0.5)	0.1 (0.1,0.2)
	Non-Current	0 (0,0)	92.8 (92.4,93.2)	2.7 (2.4,2.9)	0.8 (0.6,0.9)
	Cigs	0 (0,0)	8.2 (7.6,8.8)	76.8 (75.9,77.7)	0.7 (0.6,0.8)
	E-Cigs	0 (0,0)	26.8 (24.0,29.6)	7.1 (6.2,8.1)	45.7 (42.6,48.9)
	OC	0 (0,0)	37.9 (36.0,39.9)	2.4 (2.1,2.7)	1.0 (0.8,1.2)
	SLT	0 (0,0)	12.9 (10.7,15.1)	1.0 (0.7,1.2)	0.5 (0.4,0.6)
	Cigs + E-Cigs	0 (0,0)	5.9 (4.9,6.9)	46.2 (43.9,48.5)	7.6 (6.6,8.6)
	Cigs + OC	0 (0,0)	7.6 (6.2,9.0)	37.7 (35.4,39.9)	0.4 (0.3,0.4)
	Cigs + SLT	0 (0,0)	4.2 (2.4,6.0)	25.9 (22.3,29.4)	0.4 (0.3,0.4)
	Poly use w/ Cigs	0 (0,0)	4.7 (3.7,5.7)	21.0 (19.3,22.7)	1.9 (1.6,2.2)
	Poly use w/out Cigs	0 (0,0)	19.2 (16.7,21.6)	2.7 (2.3,3.1)	10.0 (8.2,11.8)

		Transition State			
		SLT	Cigs + E-Cigs	Cigs + OC	OC
Initial State	Never	0.06 (0.02,0.1)	0.03 (0.03,0.04)	0.04 (0.03,0.04)	0.5 (0.4,0.6)
	Non-Current	0.5 (0.3,0.6)	0.2 (0.2,0.2)	0.2 (0.2,0.2)	2.6 (2.4,2.8)
	Cigs	0.09 (0.06,0.1)	6.5 (6.1,6.9)	5.3 (4.8,5.7)	0.4 (0.3,0.4)
	E-Cigs	0.7 (0.5,0.9)	10.7 (9.3,12.1)	0.5 (0.4,0.6)	1.7 (1.3,2.1)
	OC	0.8 (0.6,0.9)	0.3 (0.3,0.4)	4.0 (3.4,4.7)	46.6 (44.5,48.7)
	SLT	77.2 (74.5,79.9)	0.2 (0.1,0.2)	0.2 (0.1,0.2)	1.0 (0.8,1.2)
	Cigs + E-Cigs	0.12 (0.09,0.14)	29.7 (27.7,31.8)	3.3 (3.0,3.6)	0.3 (0.3,0.3)
	Cigs + OC	0.1 (0.1,0.2)	3.9 (3.5,4.3)	35.5 (33.4,37.6)	3.7 (2.8,4.6)
	Cigs + SLT	9.7 (6.6,12.8)	3.7 (3.1,4.2)	3.9 (3.3,4.6)	0.3 (0.2,0.3)
	Poly use w/ Cigs	1.0 (0.7,1.2)	13.1 (11.7,14.4)	16.2 (14.6,17.8)	1.4 (1.2,1.7)
	Poly use w/out Cigs	8.6 (6.8,10.5)	2.9 (2.5,3.3)	2.7 (2.3,3.1)	16.4 (14.2,18.6)

		Transition State		
		Cigs + SLT	Poly use w/ Cigs	Poly use w/out Cigs
Initial State	Never	0 (0,0)	0.01 (0.01,0.01)	0.03 (0.03,0.04)
	Non-Current	0.02 (0.02,0.03)	0.04 (0.04,0.05)	0.2 (0.2,0.2)
	Cigs	0.8 (0.6,0.9)	1.2 (1.1,1.3)	0.07 (0.06,0.09)
	E-Cigs	0.1 (0.1,0.2)	1.5 (1.3,1.7)	5.2 (3.9,6.5)
	OC	0.1 (0.1,0.1)	1.2 (1.0,1.4)	5.6 (4.9,6.3)
	SLT	2.9 (1.9,3.9)	0.8 (0.6,1.0)	3.5 (2.6,4.3)
	Cigs + E-Cigs	0.8 (0.6,0.9)	5.3 (4.5,6.2)	0.7 (0.6,0.9)
	Cigs + OC	1.1 (0.9,1.3)	9.5 (8.5,10.5)	0.6 (0.5,0.7)
	Cigs + SLT	39.3 (34.5,44.0)	12.0 (9.7,14.3)	0.7 (0.6,0.9)
	Poly use w/ Cigs	6.0 (5.0,7.1)	32.3 (30.1,34.5)	2.4 (1.6,3.1)
	Poly use w/out Cigs	0.9 (0.7,1.1)	7.5 (6.3,8.8)	29.1 (26.0,32.1)

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Tob Control

Supplemental Figure 2. Forest plots of HRs by selected sociodemographic groups for each allowed transition (from univariable models). Red HRs are significantly different from 1, and black HRs are not significantly different from 1 at a 0.05 significance level. NH: Non-Hispanic, HS: high school, OC: other combustibles, SLT: smokeless tobacco**.** Cigs = cigarettes, E-Cigs = e-cigarettes, OC = other combustibles, SLT = smokeless tobacco, Polyuse + Cigs is any product combination of three or more products that includes cigarettes, Polyuse no Cigs is any product combination of two or more products that does not include cigarettes.

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Transitions From Polyuse no Cigs To:

E-Cigs

- Male v. Female
- Age 25–34 v. 18–24
- Age 35–54 v. 18–24
- Age 55+ v. 18–24
- Hispanic v. NH White
- NH Black v. NH White
- NH Other v. NH White
- <$25k v. >$50k
- $25k to $50k v. >$50k
- <HS v. College+
- HS/GED v. College+
- Some College v. College+

Non-Current

- Male v. Female
- Age 25–34 v. 18–24
- Age 35–54 v. 18–24
- Age 55+ v. 18–24
- Hispanic v. NH White
- NH Black v. NH White
- NH Other v. NH White
- <$25k v. >$50k
- $25k to $50k v. >$50k
- <HS v. College+
- HS/GED v. College+
- Some College v. College+

OC

- Male v. Female
- Age 25–34 v. 18–24
- Age 35–54 v. 18–24
- Age 55+ v. 18–24
- Hispanic v. NH White
- NH Black v. NH White
- NH Other v. NH White
- <$25k v. >$50k
- $25k to $50k v. >$50k
- <HS v. College+
- HS/GED v. College+
- Some College v. College+

Polyuse + Cigs

- Male v. Female
- Age 25–34 v. 18–24
- Age 35–54 v. 18–24
- Age 55+ v. 18–24
- Hispanic v. NH White
- NH Black v. NH White
- NH Other v. NH White
- <$25k v. >$50k
- $25k to $50k v. >$50k
- <HS v. College+
- HS/GED v. College+
- Some College v. College+

SLT

- Male v. Female
- Age 25–34 v. 18–24
- Age 35–54 v. 18–24
- Age 55+ v. 18–24
- Hispanic v. NH White
- NH Black v. NH White
- NH Other v. NH White
- <$25k v. >$50k
- $25k to $50k v. >$50k
- <HS v. College+
- HS/GED v. College+
- Some College v. College+

Hazard Ratio (95% CI)

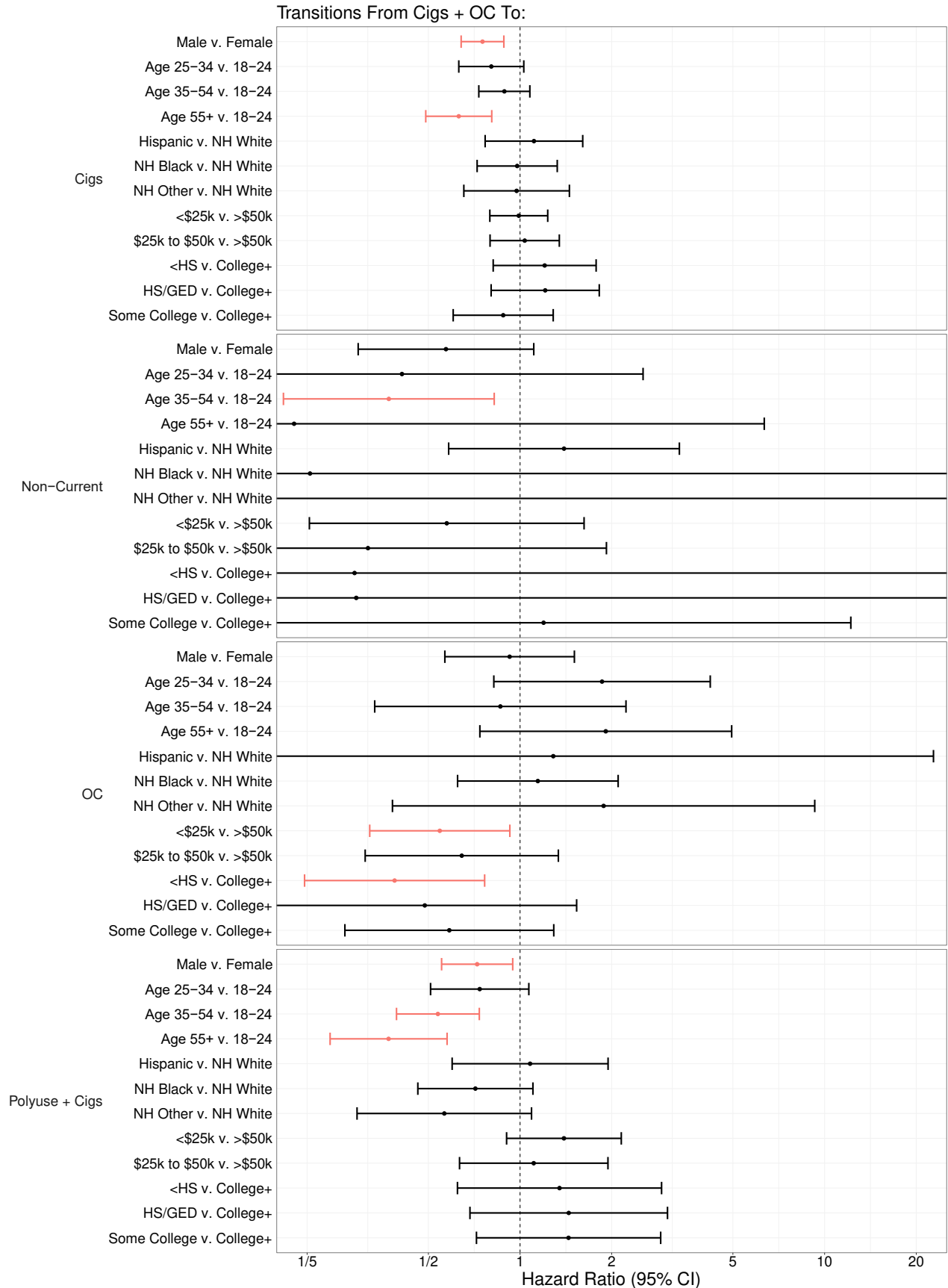1/5   1/2   1   2   5   10   20

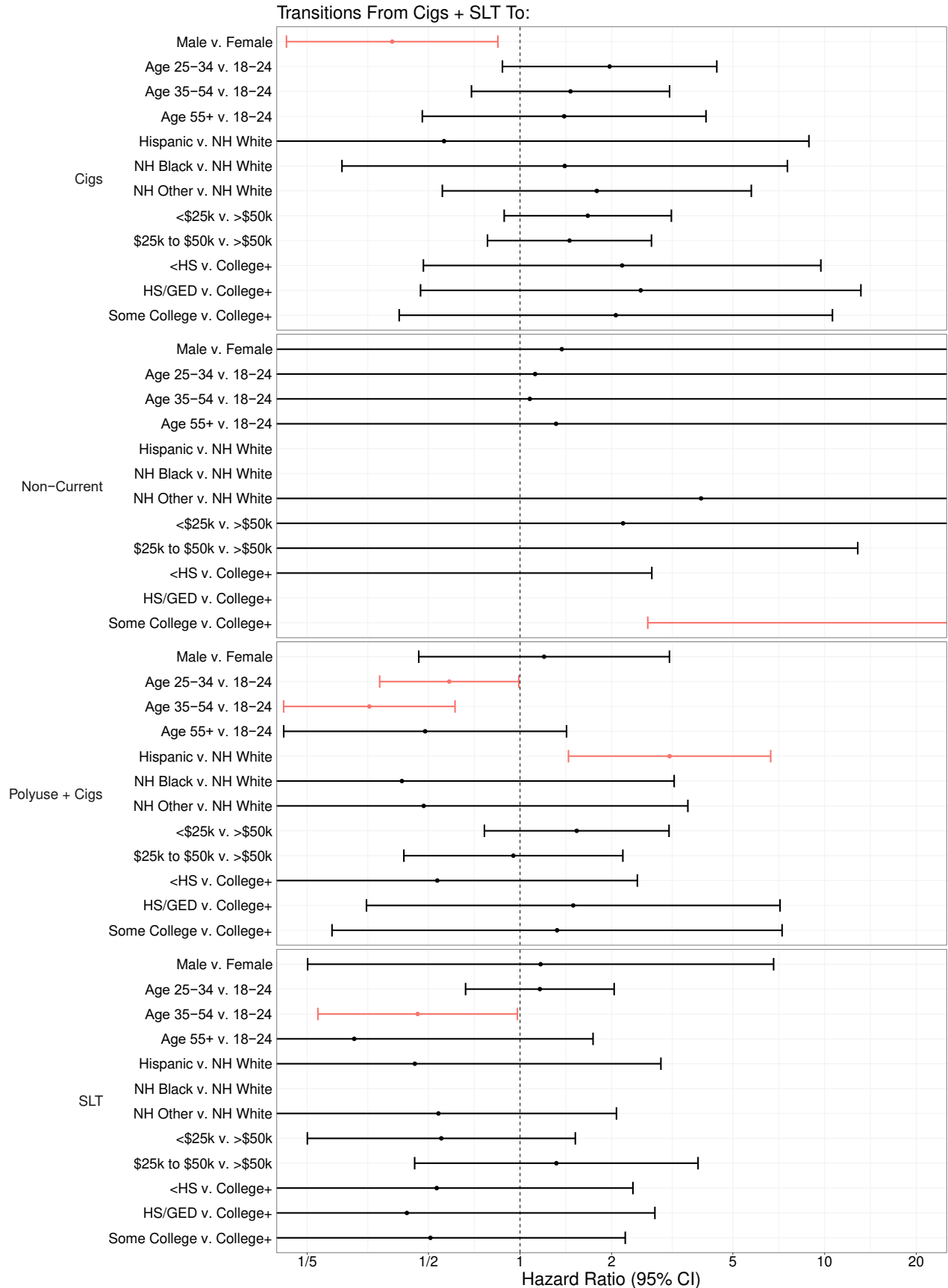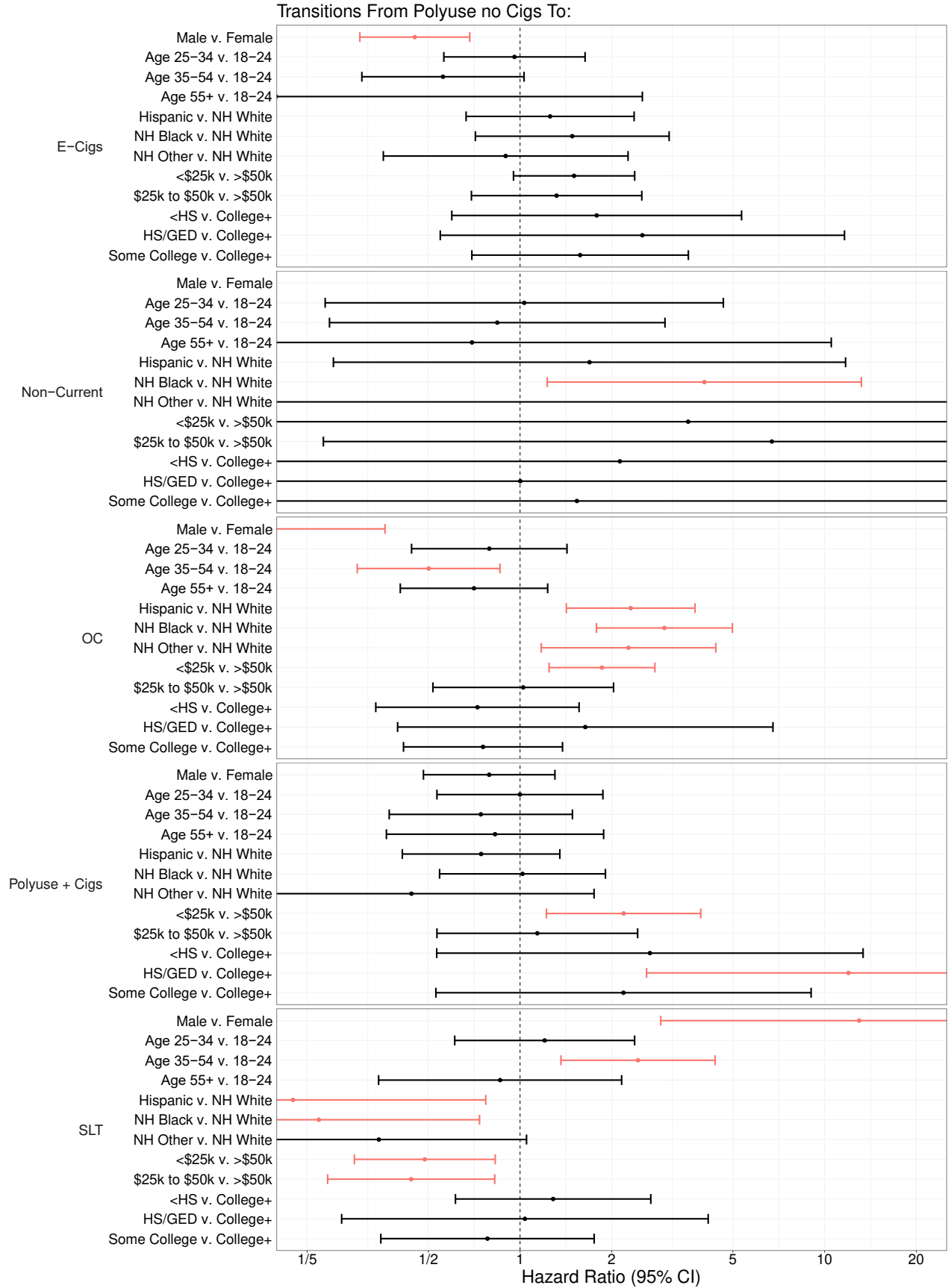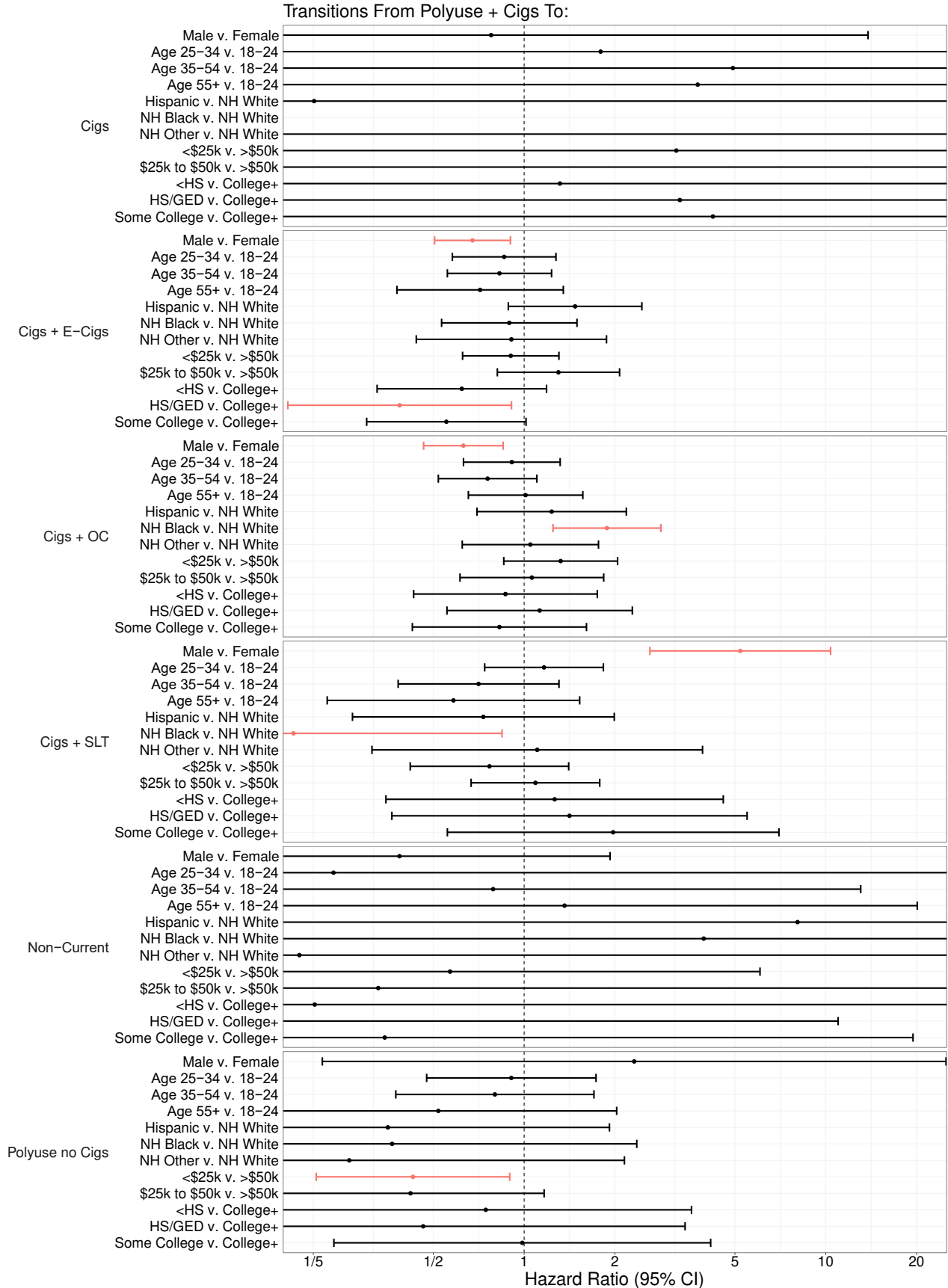Transitions From Polyuse + Cigs To:

Supplemental Table 2. HR estimates and confidence intervals for all sociodemographic groups for each allowed transition (from univariable models). NH: Non-Hispanic, HS: high school, OC: other combustibles, SLT: smokeless tobacco. Cigs = cigarettes, E-Cigs = e-cigarettes, OC = other combustibles, SLT = smokeless tobacco, Polyuse + Cigs is any product combination of three or more products that includes cigarettes, Polyuse no Cigs is any product combination of two or more products that does not include cigarettes Sig represents significance at the $\alpha=0.05$ level.

Variable	Comparison	From	To	HR (95% CI)	Sig
Sex	Male v. Female	Never	Non-Current	1.1 (0.9, 1.4)	
Sex	Male v. Female	Never	Cigs	2.2 (1.3, 3.7)	p < 0.05
Sex	Male v. Female	Never	E-Cigs	2.6 (0.8, 8.3)	
Sex	Male v. Female	Never	OC	3.4 (1.8, 6.2)	p < 0.05
Sex	Male v. Female	Never	SLT	6.4 (0.6, 67.7)	
Sex	Male v. Female	Non-Current	Cigs	0.6 (0.5, 0.8)	p < 0.05
Sex	Male v. Female	Non-Current	E-Cigs	1.5 (1.1, 2.2)	p < 0.05
Sex	Male v. Female	Non-Current	OC	1.7 (1.4, 2.2)	p < 0.05
Sex	Male v. Female	Non-Current	SLT	13.6 (4.9, 37.7)	p < 0.05
Sex	Male v. Female	Cigs	Non-Current	1 (0.8, 1.2)	
Sex	Male v. Female	Cigs	Cigs + E-Cigs	0.8 (0.7, 1)	p < 0.05
Sex	Male v. Female	Cigs	Cigs + OC	1.7 (1.4, 2)	p < 0.05
Sex	Male v. Female	Cigs	Cigs + SLT	6.5 (2.8, 15)	p < 0.05
Sex	Male v. Female	E-Cigs	Non-Current	1 (0.8, 1.4)	
Sex	Male v. Female	E-Cigs	Cigs + E-Cigs	1.3 (0.9, 1.9)	
Sex	Male v. Female	E-Cigs	Polyuse no Cigs	1.7 (0.9, 3.3)	
Sex	Male v. Female	OC	Non-Current	877.1 (11.4, 67747.3)	p < 0.05
Sex	Male v. Female	OC	Cigs + OC	0.6 (0.4, 0.8)	p < 0.05
Sex	Male v. Female	OC	Polyuse no Cigs	0 (0, 0.4)	p < 0.05
Sex	Male v. Female	SLT	Non-Current	0.6 (0.3, 1.2)	
Sex	Male v. Female	SLT	Cigs + SLT	0.8 (0.2, 3.1)	
Sex	Male v. Female	SLT	Polyuse no Cigs	1.7 (0.3, 9.4)	
Sex	Male v. Female	Cigs + E-Cigs	Non-Current	0.8 (0, 149.7)	
Sex	Male v. Female	Cigs + E-Cigs	Cigs	1.1 (0.9, 1.2)	
Sex	Male v. Female	Cigs + E-Cigs	E-Cigs	1.7 (1.3, 2.2)	p < 0.05
Sex	Male v. Female	Cigs + E-Cigs	Polyuse + Cigs	1.9 (1.3, 2.9)	p < 0.05
Sex	Male v. Female	Cigs + OC	Non-Current	0.6 (0.3, 1.1)	
Sex	Male v. Female	Cigs + OC	Cigs	0.8 (0.6, 0.9)	p < 0.05
Sex	Male v. Female	Cigs + OC	OC	0.9 (0.6, 1.5)	
Sex	Male v. Female	Cigs + OC	Polyuse + Cigs	0.7 (0.6, 1)	p < 0.05
Sex	Male v. Female	Cigs + SLT	Non-Current	1.4 (0, 194.4)	
Sex	Male v. Female	Cigs + SLT	Cigs	0.4 (0.2, 0.9)	p < 0.05
Sex	Male v. Female	Cigs + SLT	SLT	1.2 (0.2, 6.8)	
Sex	Male v. Female	Cigs + SLT	Polyuse + Cigs	1.2 (0.5, 3.1)	

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Sex	Male v. Female	Polyuse + Cigs	Non-Current	0.4 (0.1, 1.9)	
Sex	Male v. Female	Polyuse + Cigs	Cigs	0.8 (0, 13.8)	
Sex	Male v. Female	Polyuse + Cigs	Cigs + E-Cigs	0.7 (0.5, 0.9)	p < 0.05
Sex	Male v. Female	Polyuse + Cigs	Cigs + OC	0.6 (0.5, 0.9)	p < 0.05
Sex	Male v. Female	Polyuse + Cigs	Cigs + SLT	5.2 (2.6, 10.4)	p < 0.05
Sex	Male v. Female	Polyuse + Cigs	Polyuse no Cigs	2.3 (0.2, 25.1)	
Sex	Male v. Female	Polyuse no Cigs	Non-Current	0 (0, 0.2)	p < 0.05
Sex	Male v. Female	Polyuse no Cigs	E-Cigs	0.5 (0.3, 0.7)	p < 0.05
Sex	Male v. Female	Polyuse no Cigs	OC	0 (0, 0.4)	p < 0.05
Sex	Male v. Female	Polyuse no Cigs	SLT	13 (2.9, 58.2)	p < 0.05
Sex	Male v. Female	Polyuse no Cigs	Polyuse + Cigs	0.8 (0.5, 1.3)	
Age	Age 25-34 v. 18-24	Never	Non-Current	0.4 (0.3, 0.6)	p < 0.05
Age	Age 25-34 v. 18-24	Never	Cigs	1.1 (0.3, 4.2)	
Age	Age 25-34 v. 18-24	Never	E-Cigs	0.2 (0, 3.1)	
Age	Age 25-34 v. 18-24	Never	OC	0.5 (0.2, 1.1)	
Age	Age 25-34 v. 18-24	Never	SLT	254.6 (9.8, 6589.1)	p < 0.05
Age	Age 25-34 v. 18-24	Non-Current	Cigs	1 (0.8, 1.2)	
Age	Age 25-34 v. 18-24	Non-Current	E-Cigs	0.4 (0.3, 0.7)	p < 0.05
Age	Age 25-34 v. 18-24	Non-Current	OC	0.6 (0.5, 0.8)	p < 0.05
Age	Age 25-34 v. 18-24	Non-Current	SLT	0.9 (0.5, 1.8)	
Age	Age 25-34 v. 18-24	Cigs	Non-Current	0.9 (0.7, 1.1)	
Age	Age 25-34 v. 18-24	Cigs	Cigs + E-Cigs	0.9 (0.7, 1.2)	
Age	Age 25-34 v. 18-24	Cigs	Cigs + OC	0.5 (0.4, 0.7)	p < 0.05
Age	Age 25-34 v. 18-24	Cigs	Cigs + SLT	0.8 (0.4, 1.5)	
Age	Age 25-34 v. 18-24	E-Cigs	Non-Current	0.6 (0.4, 0.9)	p < 0.05
Age	Age 25-34 v. 18-24	E-Cigs	Cigs + E-Cigs	1 (0.6, 1.7)	
Age	Age 25-34 v. 18-24	E-Cigs	Polyuse no Cigs	0.3 (0.1, 0.6)	p < 0.05
Age	Age 25-34 v. 18-24	OC	Non-Current	1 (0.8, 1.2)	
Age	Age 25-34 v. 18-24	OC	Cigs + OC	1.6 (1, 2.4)	p < 0.05
Age	Age 25-34 v. 18-24	OC	Polyuse no Cigs	0.7 (0.4, 1)	p < 0.05
Age	Age 25-34 v. 18-24	SLT	Non-Current	0.9 (0.5, 1.6)	
Age	Age 25-34 v. 18-24	SLT	Cigs + SLT	1 (0.4, 2.9)	
Age	Age 25-34 v. 18-24	SLT	Polyuse no Cigs	0.4 (0.2, 0.8)	p < 0.05
Age	Age 25-34 v. 18-24	Cigs + E-Cigs	Non-Current	0.1 (0, 6.6)	
Age	Age 25-34 v. 18-24	Cigs + E-Cigs	Cigs	1 (0.7, 1.3)	
Age	Age 25-34 v. 18-24	Cigs + E-Cigs	E-Cigs	0.7 (0.5, 1.2)	
Age	Age 25-34 v. 18-24	Cigs + E-Cigs	Polyuse + Cigs	0.7 (0.4, 1.1)	
Age	Age 25-34 v. 18-24	Cigs + OC	Non-Current	0.4 (0.1, 2.5)	
Age	Age 25-34 v. 18-24	Cigs + OC	Cigs	0.8 (0.6, 1)	
Age	Age 25-34 v. 18-24	Cigs + OC	OC	1.9 (0.8, 4.2)	
Age	Age 25-34 v. 18-24	Cigs + OC	Polyuse + Cigs	0.7 (0.5, 1.1)	
Age	Age 25-34 v. 18-24	Cigs + SLT	Non-Current	1.1 (0, 626.5)	

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Age	Age 25-34 v. 18-24	Cigs + SLT	Cigs	2 (0.9, 4.4)	
Age	Age 25-34 v. 18-24	Cigs + SLT	SLT	1.2 (0.7, 2)	
Age	Age 25-34 v. 18-24	Cigs + SLT	Polyuse + Cigs	0.6 (0.4, 1)	p < 0.05
Age	Age 25-34 v. 18-24	Polyuse + Cigs	Non-Current	0.2 (0, 70.5)	
Age	Age 25-34 v. 18-24	Polyuse + Cigs	Cigs	1.8 (0, 226.3)	
Age	Age 25-34 v. 18-24	Polyuse + Cigs	Cigs + E-Cigs	0.9 (0.6, 1.3)	
Age	Age 25-34 v. 18-24	Polyuse + Cigs	Cigs + OC	0.9 (0.6, 1.3)	
Age	Age 25-34 v. 18-24	Polyuse + Cigs	Cigs + SLT	1.2 (0.7, 1.8)	
Age	Age 25-34 v. 18-24	Polyuse + Cigs	Polyuse no Cigs	0.9 (0.5, 1.7)	
Age	Age 25-34 v. 18-24	Polyuse no Cigs	Non-Current	1 (0.2, 4.7)	
Age	Age 25-34 v. 18-24	Polyuse no Cigs	E-Cigs	1 (0.6, 1.6)	
Age	Age 25-34 v. 18-24	Polyuse no Cigs	OC	0.8 (0.4, 1.4)	
Age	Age 25-34 v. 18-24	Polyuse no Cigs	SLT	1.2 (0.6, 2.4)	
Age	Age 25-34 v. 18-24	Polyuse no Cigs	Polyuse + Cigs	1 (0.5, 1.9)	
Age	Age 35-54 v. 18-24	Never	Non-Current	0.3 (0.2, 0.4)	p < 0.05
Age	Age 35-54 v. 18-24	Never	Cigs	2 (0.8, 4.7)	
Age	Age 35-54 v. 18-24	Never	E-Cigs	0.1 (0, 0.7)	p < 0.05
Age	Age 35-54 v. 18-24	Never	OC	0.2 (0.1, 0.5)	p < 0.05
Age	Age 35-54 v. 18-24	Never	SLT	75.8 (2.8, 2081.7)	p < 0.05
Age	Age 35-54 v. 18-24	Non-Current	Cigs	0.7 (0.5, 0.8)	p < 0.05
Age	Age 35-54 v. 18-24	Non-Current	E-Cigs	0.2 (0.1, 0.3)	p < 0.05
Age	Age 35-54 v. 18-24	Non-Current	OC	0.2 (0.2, 0.3)	p < 0.05
Age	Age 35-54 v. 18-24	Non-Current	SLT	0.6 (0.3, 1.2)	
Age	Age 35-54 v. 18-24	Cigs	Non-Current	0.5 (0.4, 0.7)	p < 0.05
Age	Age 35-54 v. 18-24	Cigs	Cigs + E-Cigs	0.8 (0.6, 1)	p < 0.05
Age	Age 35-54 v. 18-24	Cigs	Cigs + OC	0.4 (0.3, 0.6)	p < 0.05
Age	Age 35-54 v. 18-24	Cigs	Cigs + SLT	0.3 (0.2, 0.5)	p < 0.05
Age	Age 35-54 v. 18-24	E-Cigs	Non-Current	0.5 (0.3, 0.7)	p < 0.05
Age	Age 35-54 v. 18-24	E-Cigs	Cigs + E-Cigs	0.8 (0.5, 1.3)	
Age	Age 35-54 v. 18-24	E-Cigs	Polyuse no Cigs	0.1 (0, 0.3)	p < 0.05
Age	Age 35-54 v. 18-24	OC	Non-Current	0.6 (0.5, 0.8)	p < 0.05
Age	Age 35-54 v. 18-24	OC	Cigs + OC	1 (0.6, 1.5)	
Age	Age 35-54 v. 18-24	OC	Polyuse no Cigs	0.3 (0.2, 0.4)	p < 0.05
Age	Age 35-54 v. 18-24	SLT	Non-Current	0.4 (0.3, 0.7)	p < 0.05
Age	Age 35-54 v. 18-24	SLT	Cigs + SLT	0.2 (0.1, 0.6)	p < 0.05
Age	Age 35-54 v. 18-24	SLT	Polyuse no Cigs	0.2 (0.1, 0.4)	p < 0.05
Age	Age 35-54 v. 18-24	Cigs + E-Cigs	Non-Current	33.8 (1.7, 668.8)	p < 0.05
Age	Age 35-54 v. 18-24	Cigs + E-Cigs	Cigs	1 (0.8, 1.2)	
Age	Age 35-54 v. 18-24	Cigs + E-Cigs	E-Cigs	0.4 (0.3, 0.6)	p < 0.05
Age	Age 35-54 v. 18-24	Cigs + E-Cigs	Polyuse + Cigs	0.3 (0.2, 0.6)	p < 0.05
Age	Age 35-54 v. 18-24	Cigs + OC	Non-Current	0.4 (0.2, 0.8)	p < 0.05
Age	Age 35-54 v. 18-24	Cigs + OC	Cigs	0.9 (0.7, 1.1)	

Age	Age 35-54 v. 18-24	Cigs + OC	OC	0.9 (0.3, 2.2)	
Age	Age 35-54 v. 18-24	Cigs + OC	Polyuse + Cigs	0.5 (0.4, 0.7)	p < 0.05
Age	Age 35-54 v. 18-24	Cigs + SLT	Non-Current	1.1 (0, 211.1)	
Age	Age 35-54 v. 18-24	Cigs + SLT	Cigs	1.5 (0.7, 3.1)	
Age	Age 35-54 v. 18-24	Cigs + SLT	SLT	0.5 (0.2, 1)	p < 0.05
Age	Age 35-54 v. 18-24	Cigs + SLT	Polyuse + Cigs	0.3 (0.2, 0.6)	p < 0.05
Age	Age 35-54 v. 18-24	Polyuse + Cigs	Non-Current	0.8 (0.1, 13.1)	
Age	Age 35-54 v. 18-24	Polyuse + Cigs	Cigs	4.9 (0.1, 177)	
Age	Age 35-54 v. 18-24	Polyuse + Cigs	Cigs + E-Cigs	0.8 (0.6, 1.2)	
Age	Age 35-54 v. 18-24	Polyuse + Cigs	Cigs + OC	0.8 (0.5, 1.1)	
Age	Age 35-54 v. 18-24	Polyuse + Cigs	Cigs + SLT	0.7 (0.4, 1.3)	
Age	Age 35-54 v. 18-24	Polyuse + Cigs	Polyuse no Cigs	0.8 (0.4, 1.7)	
Age	Age 35-54 v. 18-24	Polyuse no Cigs	Non-Current	0.8 (0.2, 3)	
Age	Age 35-54 v. 18-24	Polyuse no Cigs	E-Cigs	0.6 (0.3, 1)	
Age	Age 35-54 v. 18-24	Polyuse no Cigs	OC	0.5 (0.3, 0.9)	p < 0.05
Age	Age 35-54 v. 18-24	Polyuse no Cigs	SLT	2.4 (1.4, 4.4)	p < 0.05
Age	Age 35-54 v. 18-24	Polyuse no Cigs	Polyuse + Cigs	0.7 (0.4, 1.5)	
Age	Age 55+ v. 18-24	Never	Non-Current	0.3 (0.2, 0.4)	p < 0.05
Age	Age 55+ v. 18-24	Never	Cigs	1.7 (0.7, 4.2)	
Age	Age 55+ v. 18-24	Never	E-Cigs	0 (0, 0.7)	p < 0.05
Age	Age 55+ v. 18-24	Never	OC	0.1 (0, 0.3)	p < 0.05
Age	Age 55+ v. 18-24	Never	SLT	3.5 (0, 1519.6)	
Age	Age 55+ v. 18-24	Non-Current	Cigs	0.4 (0.3, 0.5)	p < 0.05
Age	Age 55+ v. 18-24	Non-Current	E-Cigs	0.1 (0.1, 0.2)	p < 0.05
Age	Age 55+ v. 18-24	Non-Current	OC	0.1 (0, 0.1)	p < 0.05
Age	Age 55+ v. 18-24	Non-Current	SLT	0.3 (0.2, 0.6)	p < 0.05
Age	Age 55+ v. 18-24	Cigs	Non-Current	0.7 (0.6, 0.9)	p < 0.05
Age	Age 55+ v. 18-24	Cigs	Cigs + E-Cigs	0.5 (0.3, 0.6)	p < 0.05
Age	Age 55+ v. 18-24	Cigs	Cigs + OC	0.2 (0.2, 0.3)	p < 0.05
Age	Age 55+ v. 18-24	Cigs	Cigs + SLT	0.1 (0, 0.2)	p < 0.05
Age	Age 55+ v. 18-24	E-Cigs	Non-Current	0.3 (0.2, 0.5)	p < 0.05
Age	Age 55+ v. 18-24	E-Cigs	Cigs + E-Cigs	0.5 (0.3, 0.9)	p < 0.05
Age	Age 55+ v. 18-24	E-Cigs	Polyuse no Cigs	0.1 (0, 0.3)	p < 0.05
Age	Age 55+ v. 18-24	OC	Non-Current	0.4 (0.3, 0.5)	p < 0.05
Age	Age 55+ v. 18-24	OC	Cigs + OC	1.1 (0.7, 1.7)	
Age	Age 55+ v. 18-24	OC	Polyuse no Cigs	0.1 (0.1, 0.2)	p < 0.05
Age	Age 55+ v. 18-24	SLT	Non-Current	0.6 (0.4, 1)	p < 0.05
Age	Age 55+ v. 18-24	SLT	Cigs + SLT	0.1 (0, 0.3)	p < 0.05
Age	Age 55+ v. 18-24	SLT	Polyuse no Cigs	0.1 (0, 0.2)	p < 0.05
Age	Age 55+ v. 18-24	Cigs + E-Cigs	Non-Current	11.4 (0.1, 1129)	
Age	Age 55+ v. 18-24	Cigs + E-Cigs	Cigs	0.9 (0.7, 1.2)	
Age	Age 55+ v. 18-24	Cigs + E-Cigs	E-Cigs	0.5 (0.3, 0.8)	p < 0.05

Age	Age 55+ v. 18-24	Cigs + E-Cigs	Polyuse + Cigs	0.2 (0.1, 0.4)	p < 0.05
Age	Age 55+ v. 18-24	Cigs + OC	Non-Current	0.2 (0, 6.3)	
Age	Age 55+ v. 18-24	Cigs + OC	Cigs	0.6 (0.5, 0.8)	p < 0.05
Age	Age 55+ v. 18-24	Cigs + OC	OC	1.9 (0.7, 5)	
Age	Age 55+ v. 18-24	Cigs + OC	Polyuse + Cigs	0.4 (0.2, 0.6)	p < 0.05
Age	Age 55+ v. 18-24	Cigs + SLT	Non-Current	1.3 (0, 5881.6)	
Age	Age 55+ v. 18-24	Cigs + SLT	Cigs	1.4 (0.5, 4.1)	
Age	Age 55+ v. 18-24	Cigs + SLT	SLT	0.3 (0.1, 1.7)	
Age	Age 55+ v. 18-24	Cigs + SLT	Polyuse + Cigs	0.5 (0.2, 1.4)	
Age	Age 55+ v. 18-24	Polyuse + Cigs	Non-Current	1.4 (0.1, 20.1)	
Age	Age 55+ v. 18-24	Polyuse + Cigs	Cigs	3.8 (0.1, 286.4)	
Age	Age 55+ v. 18-24	Polyuse + Cigs	Cigs + E-Cigs	0.7 (0.4, 1.4)	
Age	Age 55+ v. 18-24	Polyuse + Cigs	Cigs + OC	1 (0.7, 1.6)	
Age	Age 55+ v. 18-24	Polyuse + Cigs	Cigs + SLT	0.6 (0.2, 1.5)	
Age	Age 55+ v. 18-24	Polyuse + Cigs	Polyuse no Cigs	0.5 (0.1, 2)	
Age	Age 55+ v. 18-24	Polyuse no Cigs	Non-Current	0.7 (0.1, 10.5)	
Age	Age 55+ v. 18-24	Polyuse no Cigs	E-Cigs	0.2 (0, 2.5)	
Age	Age 55+ v. 18-24	Polyuse no Cigs	OC	0.7 (0.4, 1.2)	
Age	Age 55+ v. 18-24	Polyuse no Cigs	SLT	0.9 (0.3, 2.2)	
Age	Age 55+ v. 18-24	Polyuse no Cigs	Polyuse + Cigs	0.8 (0.4, 1.9)	
Race/Ethnicity	Hispanic v. NH White	Never	Non-Current	1.7 (1.3, 2.4)	p < 0.05
Race/Ethnicity	Hispanic v. NH White	Never	Cigs	3.1 (1.5, 6.5)	p < 0.05
Race/Ethnicity	Hispanic v. NH White	Never	E-Cigs	2 (0.4, 11.6)	
Race/Ethnicity	Hispanic v. NH White	Never	OC	1.2 (0.3, 5.4)	
Race/Ethnicity	Hispanic v. NH White	Never	SLT	0 (0, 0)	p < 0.05
Race/Ethnicity	Hispanic v. NH White	Non-Current	Cigs	1.9 (1.4, 2.5)	p < 0.05
Race/Ethnicity	Hispanic v. NH White	Non-Current	E-Cigs	3.1 (1.9, 5.3)	p < 0.05
Race/Ethnicity	Hispanic v. NH White	Non-Current	OC	2.2 (1.6, 3)	p < 0.05
Race/Ethnicity	Hispanic v. NH White	Non-Current	SLT	0.3 (0.1, 0.9)	p < 0.05
Race/Ethnicity	Hispanic v. NH White	Cigs	Non-Current	1.7 (1.4, 2.2)	p < 0.05
Race/Ethnicity	Hispanic v. NH White	Cigs	Cigs + E-Cigs	0.6 (0.4, 0.9)	p < 0.05
Race/Ethnicity	Hispanic v. NH White	Cigs	Cigs + OC	1.5 (0.8, 2.8)	
Race/Ethnicity	Hispanic v. NH White	Cigs	Cigs + SLT	0.2 (0, 2.2)	
Race/Ethnicity	Hispanic v. NH White	E-Cigs	Non-Current	2.8 (1.9, 4.2)	p < 0.05
Race/Ethnicity	Hispanic v. NH White	E-Cigs	Cigs + E-Cigs	1.5 (0.9, 2.4)	
Race/Ethnicity	Hispanic v. NH White	E-Cigs	Polyuse no Cigs	3 (1.5, 5.8)	p < 0.05
Race/Ethnicity	Hispanic v. NH White	OC	Non-Current	1.6 (1.3, 2)	p < 0.05
Race/Ethnicity	Hispanic v. NH White	OC	Cigs + OC	2 (0.9, 4.2)	
Race/Ethnicity	Hispanic v. NH White	OC	Polyuse no Cigs	2.5 (1.8, 3.6)	p < 0.05
Race/Ethnicity	Hispanic v. NH White	SLT	Non-Current	3.2 (1.6, 6.5)	p < 0.05
Race/Ethnicity	Hispanic v. NH White	SLT	Cigs + SLT	0.5 (0, 1958.1)	
Race/Ethnicity	Hispanic v. NH White	SLT	Polyuse no Cigs	1.9 (0.3, 11.8)	

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Race/Ethnicity	Hispanic v. NH White	Cigs + E-Cigs	Non-Current	0.1 (0, 589.3)	
Race/Ethnicity	Hispanic v. NH White	Cigs + E-Cigs	Cigs	1.4 (1.1, 1.7)	$p < 0.05$
Race/Ethnicity	Hispanic v. NH White	Cigs + E-Cigs	E-Cigs	1.6 (1, 2.4)	$p < 0.05$
Race/Ethnicity	Hispanic v. NH White	Cigs + E-Cigs	Polyuse + Cigs	2.4 (1.1, 5.1)	$p < 0.05$
Race/Ethnicity	Hispanic v. NH White	Cigs + OC	Non-Current	1.4 (0.6, 3.3)	
Race/Ethnicity	Hispanic v. NH White	Cigs + OC	Cigs	1.1 (0.8, 1.6)	
Race/Ethnicity	Hispanic v. NH White	Cigs + OC	OC	1.3 (0.1, 22.8)	
Race/Ethnicity	Hispanic v. NH White	Cigs + OC	Polyuse + Cigs	1.1 (0.6, 2)	
Race/Ethnicity	Hispanic v. NH White	Cigs + SLT	Non-Current	0 (0, 0)	$p < 0.05$
Race/Ethnicity	Hispanic v. NH White	Cigs + SLT	Cigs	0.6 (0, 8.9)	
Race/Ethnicity	Hispanic v. NH White	Cigs + SLT	SLT	0.5 (0.1, 2.9)	
Race/Ethnicity	Hispanic v. NH White	Cigs + SLT	Polyuse + Cigs	3.1 (1.4, 6.7)	$p < 0.05$
Race/Ethnicity	Hispanic v. NH White	Polyuse + Cigs	Non-Current	8.1 (0.1, 519.8)	
Race/Ethnicity	Hispanic v. NH White	Polyuse + Cigs	Cigs	0.2 (0, 112.2)	
Race/Ethnicity	Hispanic v. NH White	Polyuse + Cigs	Cigs + E-Cigs	1.5 (0.9, 2.5)	
Race/Ethnicity	Hispanic v. NH White	Polyuse + Cigs	Cigs + OC	1.2 (0.7, 2.2)	
Race/Ethnicity	Hispanic v. NH White	Polyuse + Cigs	Cigs + SLT	0.7 (0.3, 2)	
Race/Ethnicity	Hispanic v. NH White	Polyuse + Cigs	Polyuse no Cigs	0.4 (0.1, 1.9)	
Race/Ethnicity	Hispanic v. NH White	Polyuse no Cigs	Non-Current	1.7 (0.2, 11.7)	
Race/Ethnicity	Hispanic v. NH White	Polyuse no Cigs	E-Cigs	1.3 (0.7, 2.4)	
Race/Ethnicity	Hispanic v. NH White	Polyuse no Cigs	OC	2.3 (1.4, 3.8)	$p < 0.05$
Race/Ethnicity	Hispanic v. NH White	Polyuse no Cigs	SLT	0.2 (0, 0.8)	$p < 0.05$
Race/Ethnicity	Hispanic v. NH White	Polyuse no Cigs	Polyuse + Cigs	0.7 (0.4, 1.4)	
Race/Ethnicity	NH Black v. NH White	Never	Non-Current	1.9 (1.4, 2.7)	$p < 0.05$
Race/Ethnicity	NH Black v. NH White	Never	Cigs	3.7 (2, 7)	$p < 0.05$
Race/Ethnicity	NH Black v. NH White	Never	E-Cigs	1.6 (0.2, 15.9)	
Race/Ethnicity	NH Black v. NH White	Never	OC	2.2 (1, 4.8)	$p < 0.05$
Race/Ethnicity	NH Black v. NH White	Never	SLT	10 (0, 3062)	
Race/Ethnicity	NH Black v. NH White	Non-Current	Cigs	1.5 (1.1, 1.9)	$p < 0.05$
Race/Ethnicity	NH Black v. NH White	Non-Current	E-Cigs	1.5 (0.8, 2.9)	
Race/Ethnicity	NH Black v. NH White	Non-Current	OC	3.1 (2.3, 4.2)	$p < 0.05$
Race/Ethnicity	NH Black v. NH White	Non-Current	SLT	0.6 (0.2, 2)	
Race/Ethnicity	NH Black v. NH White	Cigs	Non-Current	0.8 (0.6, 1.1)	
Race/Ethnicity	NH Black v. NH White	Cigs	Cigs + E-Cigs	0.5 (0.3, 0.7)	$p < 0.05$
Race/Ethnicity	NH Black v. NH White	Cigs	Cigs + OC	1.8 (1.5, 2.3)	$p < 0.05$
Race/Ethnicity	NH Black v. NH White	Cigs	Cigs + SLT	0.1 (0, 0.7)	$p < 0.05$
Race/Ethnicity	NH Black v. NH White	E-Cigs	Non-Current	2.3 (1.5, 3.6)	$p < 0.05$
Race/Ethnicity	NH Black v. NH White	E-Cigs	Cigs + E-Cigs	0.7 (0.3, 1.9)	
Race/Ethnicity	NH Black v. NH White	E-Cigs	Polyuse no Cigs	1.8 (0.5, 6.8)	
Race/Ethnicity	NH Black v. NH White	OC	Non-Current	1.1 (0.8, 1.4)	
Race/Ethnicity	NH Black v. NH White	OC	Cigs + OC	1.7 (1.1, 2.7)	$p < 0.05$
Race/Ethnicity	NH Black v. NH White	OC	Polyuse no Cigs	2.7 (1.8, 4)	$p < 0.05$

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Race/Ethnicity	NH Black v. NH White	SLT	Non-Current	2.6 (0.9, 7.8)	
Race/Ethnicity	NH Black v. NH White	SLT	Cigs + SLT	0.2 (0, 2.3)	
Race/Ethnicity	NH Black v. NH White	SLT	Polyuse no Cigs	1.4 (0.3, 7.6)	
Race/Ethnicity	NH Black v. NH White	Cigs + E-Cigs	Non-Current	0 (0, 0)	$p < 0.05$
Race/Ethnicity	NH Black v. NH White	Cigs + E-Cigs	Cigs	1.1 (0.8, 1.4)	
Race/Ethnicity	NH Black v. NH White	Cigs + E-Cigs	E-Cigs	1.1 (0.6, 2.1)	
Race/Ethnicity	NH Black v. NH White	Cigs + E-Cigs	Polyuse + Cigs	2.1 (1.1, 4)	$p < 0.05$
Race/Ethnicity	NH Black v. NH White	Cigs + OC	Non-Current	0.2 (0, 124.7)	
Race/Ethnicity	NH Black v. NH White	Cigs + OC	Cigs	1 (0.7, 1.3)	
Race/Ethnicity	NH Black v. NH White	Cigs + OC	OC	1.1 (0.6, 2.1)	
Race/Ethnicity	NH Black v. NH White	Cigs + OC	Polyuse + Cigs	0.7 (0.5, 1.1)	
Race/Ethnicity	NH Black v. NH White	Cigs + SLT	Non-Current	0 (0, 0)	$p < 0.05$
Race/Ethnicity	NH Black v. NH White	Cigs + SLT	Cigs	1.4 (0.3, 7.6)	
Race/Ethnicity	NH Black v. NH White	Cigs + SLT	SLT	0 (0, 0)	$p < 0.05$
Race/Ethnicity	NH Black v. NH White	Cigs + SLT	Polyuse + Cigs	0.4 (0.1, 3.2)	
Race/Ethnicity	NH Black v. NH White	Polyuse + Cigs	Non-Current	3.9 (0.1, 325.8)	
Race/Ethnicity	NH Black v. NH White	Polyuse + Cigs	Cigs	0 (0, 0)	$p < 0.05$
Race/Ethnicity	NH Black v. NH White	Polyuse + Cigs	Cigs + E-Cigs	0.9 (0.5, 1.5)	
Race/Ethnicity	NH Black v. NH White	Polyuse + Cigs	Cigs + OC	1.9 (1.3, 2.8)	$p < 0.05$
Race/Ethnicity	NH Black v. NH White	Polyuse + Cigs	Cigs + SLT	0.2 (0, 0.8)	$p < 0.05$
Race/Ethnicity	NH Black v. NH White	Polyuse + Cigs	Polyuse no Cigs	0.4 (0.1, 2.4)	
Race/Ethnicity	NH Black v. NH White	Polyuse no Cigs	Non-Current	4 (1.2, 13.2)	$p < 0.05$
Race/Ethnicity	NH Black v. NH White	Polyuse no Cigs	E-Cigs	1.5 (0.7, 3.1)	
Race/Ethnicity	NH Black v. NH White	Polyuse no Cigs	OC	3 (1.8, 5)	$p < 0.05$
Race/Ethnicity	NH Black v. NH White	Polyuse no Cigs	SLT	0.2 (0.1, 0.7)	$p < 0.05$
Race/Ethnicity	NH Black v. NH White	Polyuse no Cigs	Polyuse + Cigs	1 (0.5, 1.9)	
Race/Ethnicity	NH Other v. NH White	Never	Non-Current	1.2 (0.7, 2.4)	
Race/Ethnicity	NH Other v. NH White	Never	Cigs	0.8 (0.3, 2.3)	
Race/Ethnicity	NH Other v. NH White	Never	E-Cigs	1.1 (0.1, 24.6)	
Race/Ethnicity	NH Other v. NH White	Never	OC	0.8 (0.2, 2.9)	
Race/Ethnicity	NH Other v. NH White	Never	SLT	37.7 (0.2, 9242.7)	
Race/Ethnicity	NH Other v. NH White	Non-Current	Cigs	1.1 (0.7, 1.7)	
Race/Ethnicity	NH Other v. NH White	Non-Current	E-Cigs	1.5 (0.6, 3.7)	
Race/Ethnicity	NH Other v. NH White	Non-Current	OC	1.4 (0.9, 2.2)	
Race/Ethnicity	NH Other v. NH White	Non-Current	SLT	0.4 (0.1, 2)	
Race/Ethnicity	NH Other v. NH White	Cigs	Non-Current	1.7 (1.1, 2.6)	$p < 0.05$
Race/Ethnicity	NH Other v. NH White	Cigs	Cigs + E-Cigs	1.2 (0.8, 1.9)	
Race/Ethnicity	NH Other v. NH White	Cigs	Cigs + OC	1.3 (0.8, 2.1)	
Race/Ethnicity	NH Other v. NH White	Cigs	Cigs + SLT	1.1 (0.4, 3.5)	
Race/Ethnicity	NH Other v. NH White	E-Cigs	Non-Current	1.3 (0.6, 2.6)	
Race/Ethnicity	NH Other v. NH White	E-Cigs	Cigs + E-Cigs	1.5 (0.6, 3.9)	
Race/Ethnicity	NH Other v. NH White	E-Cigs	Polyuse no Cigs	1.6 (0.4, 6)	

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Race/Ethnicity	NH Other v. NH White	OC	Non-Current	1.4 (1.1, 1.7)	p < 0.05
Race/Ethnicity	NH Other v. NH White	OC	Cigs + OC	1.2 (0.5, 2.9)	
Race/Ethnicity	NH Other v. NH White	OC	Polyuse no Cigs	2.2 (1.2, 4.1)	p < 0.05
Race/Ethnicity	NH Other v. NH White	SLT	Non-Current	1.8 (0.8, 4.2)	
Race/Ethnicity	NH Other v. NH White	SLT	Cigs + SLT	0.4 (0.1, 4.2)	
Race/Ethnicity	NH Other v. NH White	SLT	Polyuse no Cigs	1.1 (0.2, 4.7)	
Race/Ethnicity	NH Other v. NH White	Cigs + E-Cigs	Non-Current	10.9 (0.4, 270.7)	
Race/Ethnicity	NH Other v. NH White	Cigs + E-Cigs	Cigs	1.1 (0.6, 2)	
Race/Ethnicity	NH Other v. NH White	Cigs + E-Cigs	E-Cigs	0.9 (0.4, 2.1)	
Race/Ethnicity	NH Other v. NH White	Cigs + E-Cigs	Polyuse + Cigs	1.8 (0.8, 3.8)	
Race/Ethnicity	NH Other v. NH White	Cigs + OC	Non-Current	0.2 (0, 72.2)	
Race/Ethnicity	NH Other v. NH White	Cigs + OC	Cigs	1 (0.7, 1.5)	
Race/Ethnicity	NH Other v. NH White	Cigs + OC	OC	1.9 (0.4, 9.3)	
Race/Ethnicity	NH Other v. NH White	Cigs + OC	Polyuse + Cigs	0.6 (0.3, 1.1)	
Race/Ethnicity	NH Other v. NH White	Cigs + SLT	Non-Current	3.9 (0, 7718.3)	
Race/Ethnicity	NH Other v. NH White	Cigs + SLT	Cigs	1.8 (0.6, 5.8)	
Race/Ethnicity	NH Other v. NH White	Cigs + SLT	SLT	0.5 (0.1, 2.1)	
Race/Ethnicity	NH Other v. NH White	Cigs + SLT	Polyuse + Cigs	0.5 (0.1, 3.6)	
Race/Ethnicity	NH Other v. NH White	Polyuse + Cigs	Non-Current	0.2 (0, 209.8)	
Race/Ethnicity	NH Other v. NH White	Polyuse + Cigs	Cigs	0.1 (0, 50.7)	
Race/Ethnicity	NH Other v. NH White	Polyuse + Cigs	Cigs + E-Cigs	0.9 (0.4, 1.9)	
Race/Ethnicity	NH Other v. NH White	Polyuse + Cigs	Cigs + OC	1.1 (0.6, 1.8)	
Race/Ethnicity	NH Other v. NH White	Polyuse + Cigs	Cigs + SLT	1.1 (0.3, 3.9)	
Race/Ethnicity	NH Other v. NH White	Polyuse + Cigs	Polyuse no Cigs	0.3 (0, 2.2)	
Race/Ethnicity	NH Other v. NH White	Polyuse no Cigs	Non-Current	0.1 (0, 74.5)	
Race/Ethnicity	NH Other v. NH White	Polyuse no Cigs	E-Cigs	0.9 (0.4, 2.3)	
Race/Ethnicity	NH Other v. NH White	Polyuse no Cigs	OC	2.3 (1.2, 4.4)	p < 0.05
Race/Ethnicity	NH Other v. NH White	Polyuse no Cigs	SLT	0.3 (0.1, 1.1)	
Race/Ethnicity	NH Other v. NH White	Polyuse no Cigs	Polyuse + Cigs	0.4 (0.1, 1.8)	
Income	<$25k v. >$50k	Never	Non-Current	1.8 (1.3, 2.4)	p < 0.05
Income	<$25k v. >$50k	Never	Cigs	4.9 (1.9, 12.5)	p < 0.05
Income	<$25k v. >$50k	Never	E-Cigs	1.6 (0.4, 6.2)	
Income	<$25k v. >$50k	Never	OC	2.8 (1.1, 6.8)	p < 0.05
Income	<$25k v. >$50k	Never	SLT	4.2 (0.1, 206.9)	
Income	<$25k v. >$50k	Non-Current	Cigs	3.1 (2.5, 3.9)	p < 0.05
Income	<$25k v. >$50k	Non-Current	E-Cigs	2.2 (1.4, 3.5)	p < 0.05
Income	<$25k v. >$50k	Non-Current	OC	1.9 (1.5, 2.3)	p < 0.05
Income	<$25k v. >$50k	Non-Current	SLT	0.8 (0.4, 1.3)	
Income	<$25k v. >$50k	Cigs	Non-Current	0.6 (0.5, 0.8)	p < 0.05
Income	<$25k v. >$50k	Cigs	Cigs + E-Cigs	0.9 (0.7, 1.1)	
Income	<$25k v. >$50k	Cigs	Cigs + OC	1.7 (1.3, 2.3)	p < 0.05
Income	<$25k v. >$50k	Cigs	Cigs + SLT	1.3 (0.7, 2.6)	

Income	<$25k v. >$50k	E-Cigs	Non-Current	1.5 (1, 2.1)	p < 0.05
Income	<$25k v. >$50k	E-Cigs	Cigs + E-Cigs	1.2 (0.8, 1.7)	
Income	<$25k v. >$50k	E-Cigs	Polyuse no Cigs	2 (0.9, 4.1)	
Income	<$25k v. >$50k	OC	Non-Current	1.4 (1.2, 1.7)	p < 0.05
Income	<$25k v. >$50k	OC	Cigs + OC	3.6 (2.5, 5.1)	p < 0.05
Income	<$25k v. >$50k	OC	Polyuse no Cigs	3.8 (2.7, 5.3)	p < 0.05
Income	<$25k v. >$50k	SLT	Non-Current	1.1 (0.7, 1.8)	
Income	<$25k v. >$50k	SLT	Cigs + SLT	1.3 (0.4, 4.2)	
Income	<$25k v. >$50k	SLT	Polyuse no Cigs	1.4 (0.7, 2.6)	
Income	<$25k v. >$50k	Cigs + E-Cigs	Non-Current	1 (0, 137.8)	
Income	<$25k v. >$50k	Cigs + E-Cigs	Cigs	1 (0.9, 1.3)	
Income	<$25k v. >$50k	Cigs + E-Cigs	E-Cigs	0.6 (0.5, 0.9)	p < 0.05
Income	<$25k v. >$50k	Cigs + E-Cigs	Polyuse + Cigs	1.5 (0.8, 2.6)	
Income	<$25k v. >$50k	Cigs + OC	Non-Current	0.6 (0.2, 1.6)	
Income	<$25k v. >$50k	Cigs + OC	Cigs	1 (0.8, 1.2)	
Income	<$25k v. >$50k	Cigs + OC	OC	0.6 (0.3, 0.9)	p < 0.05
Income	<$25k v. >$50k	Cigs + OC	Polyuse + Cigs	1.4 (0.9, 2.2)	
Income	<$25k v. >$50k	Cigs + SLT	Non-Current	2.2 (0, 184.5)	
Income	<$25k v. >$50k	Cigs + SLT	Cigs	1.7 (0.9, 3.1)	
Income	<$25k v. >$50k	Cigs + SLT	SLT	0.6 (0.2, 1.5)	
Income	<$25k v. >$50k	Cigs + SLT	Polyuse + Cigs	1.5 (0.8, 3.1)	
Income	<$25k v. >$50k	Polyuse + Cigs	Non-Current	0.6 (0.1, 6.1)	
Income	<$25k v. >$50k	Polyuse + Cigs	Cigs	3.2 (0, 354.7)	
Income	<$25k v. >$50k	Polyuse + Cigs	Cigs + E-Cigs	0.9 (0.6, 1.3)	
Income	<$25k v. >$50k	Polyuse + Cigs	Cigs + OC	1.3 (0.9, 2)	
Income	<$25k v. >$50k	Polyuse + Cigs	Cigs + SLT	0.8 (0.4, 1.4)	
Income	<$25k v. >$50k	Polyuse + Cigs	Polyuse no Cigs	0.4 (0.2, 0.9)	p < 0.05
Income	<$25k v. >$50k	Polyuse no Cigs	Non-Current	3.6 (0.1, 129.8)	
Income	<$25k v. >$50k	Polyuse no Cigs	E-Cigs	1.5 (1, 2.4)	
Income	<$25k v. >$50k	Polyuse no Cigs	OC	1.9 (1.3, 2.8)	p < 0.05
Income	<$25k v. >$50k	Polyuse no Cigs	SLT	0.5 (0.3, 0.8)	p < 0.05
Income	<$25k v. >$50k	Polyuse no Cigs	Polyuse + Cigs	2.2 (1.2, 3.9)	p < 0.05
Income	$25k to $50k v. >$50k	Never	Non-Current	1.4 (1, 2)	
Income	$25k to $50k v. >$50k	Never	Cigs	2.8 (1.1, 7.4)	p < 0.05
Income	$25k to $50k v. >$50k	Never	E-Cigs	0.6 (0, 9.3)	
Income	$25k to $50k v. >$50k	Never	OC	1.3 (0.5, 3.6)	
Income	$25k to $50k v. >$50k	Never	SLT	3.8 (0.1, 239.4)	
Income	$25k to $50k v. >$50k	Non-Current	Cigs	1.8 (1.3, 2.4)	p < 0.05
Income	$25k to $50k v. >$50k	Non-Current	E-Cigs	1.9 (1.1, 3.2)	p < 0.05
Income	$25k to $50k v. >$50k	Non-Current	OC	1.2 (0.9, 1.6)	
Income	$25k to $50k v. >$50k	Non-Current	SLT	1.1 (0.6, 2.2)	
Income	$25k to $50k v. >$50k	Cigs	Non-Current	0.7 (0.6, 1)	p < 0.05

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Income	$25k to $50k v. >$50k	Cigs	Cigs + E-Cigs	1.3 (1, 1.6)	
Income	$25k to $50k v. >$50k	Cigs	Cigs + OC	1.4 (1, 1.9)	p < 0.05
Income	$25k to $50k v. >$50k	Cigs	Cigs + SLT	1.2 (0.5, 2.9)	
Income	$25k to $50k v. >$50k	E-Cigs	Non-Current	1.7 (1.1, 2.6)	p < 0.05
Income	$25k to $50k v. >$50k	E-Cigs	Cigs + E-Cigs	1.2 (0.7, 2)	
Income	$25k to $50k v. >$50k	E-Cigs	Polyuse no Cigs	0.7 (0.3, 1.7)	
Income	$25k to $50k v. >$50k	OC	Non-Current	1.2 (0.9, 1.5)	
Income	$25k to $50k v. >$50k	OC	Cigs + OC	2.6 (1.7, 3.9)	p < 0.05
Income	$25k to $50k v. >$50k	OC	Polyuse no Cigs	1.9 (1.2, 3)	p < 0.05
Income	$25k to $50k v. >$50k	SLT	Non-Current	0.7 (0.5, 1.2)	
Income	$25k to $50k v. >$50k	SLT	Cigs + SLT	1.9 (0.6, 6)	
Income	$25k to $50k v. >$50k	SLT	Polyuse no Cigs	0.7 (0.4, 1.3)	
Income	$25k to $50k v. >$50k	Cigs + E-Cigs	Non-Current	0.9 (0, 507.5)	
Income	$25k to $50k v. >$50k	Cigs + E-Cigs	Cigs	1.3 (1, 1.7)	p < 0.05
Income	$25k to $50k v. >$50k	Cigs + E-Cigs	E-Cigs	0.9 (0.6, 1.3)	
Income	$25k to $50k v. >$50k	Cigs + E-Cigs	Polyuse + Cigs	1.2 (0.6, 2.3)	
Income	$25k to $50k v. >$50k	Cigs + OC	Non-Current	0.3 (0.1, 1.9)	
Income	$25k to $50k v. >$50k	Cigs + OC	Cigs	1 (0.8, 1.4)	
Income	$25k to $50k v. >$50k	Cigs + OC	OC	0.6 (0.3, 1.3)	
Income	$25k to $50k v. >$50k	Cigs + OC	Polyuse + Cigs	1.1 (0.6, 1.9)	
Income	$25k to $50k v. >$50k	Cigs + SLT	Non-Current	0 (0, 12.9)	
Income	$25k to $50k v. >$50k	Cigs + SLT	Cigs	1.5 (0.8, 2.7)	
Income	$25k to $50k v. >$50k	Cigs + SLT	SLT	1.3 (0.5, 3.8)	
Income	$25k to $50k v. >$50k	Cigs + SLT	Polyuse + Cigs	1 (0.4, 2.2)	
Income	$25k to $50k v. >$50k	Polyuse + Cigs	Non-Current	0.3 (0, 218.2)	
Income	$25k to $50k v. >$50k	Polyuse + Cigs	Cigs	0.1 (0, 149.3)	
Income	$25k to $50k v. >$50k	Polyuse + Cigs	Cigs + E-Cigs	1.3 (0.8, 2.1)	
Income	$25k to $50k v. >$50k	Polyuse + Cigs	Cigs + OC	1.1 (0.6, 1.8)	
Income	$25k to $50k v. >$50k	Polyuse + Cigs	Cigs + SLT	1.1 (0.7, 1.8)	
Income	$25k to $50k v. >$50k	Polyuse + Cigs	Polyuse no Cigs	0.4 (0.2, 1.2)	
Income	$25k to $50k v. >$50k	Polyuse no Cigs	Non-Current	6.7 (0.2, 199.2)	
Income	$25k to $50k v. >$50k	Polyuse no Cigs	E-Cigs	1.3 (0.7, 2.5)	
Income	$25k to $50k v. >$50k	Polyuse no Cigs	OC	1 (0.5, 2)	
Income	$25k to $50k v. >$50k	Polyuse no Cigs	SLT	0.4 (0.2, 0.8)	p < 0.05
Income	$25k to $50k v. >$50k	Polyuse no Cigs	Polyuse + Cigs	1.1 (0.5, 2.4)	
Education	<HS v. College+	Never	Non-Current	1.5 (0.8, 2.8)	
Education	<HS v. College+	Never	Cigs	8.9 (2.2, 36.3)	p < 0.05
Education	<HS v. College+	Never	E-Cigs	1283 (82.7, 19898.3)	p < 0.05
Education	<HS v. College+	Never	OC	3.1 (0.7, 13.3)	
Education	<HS v. College+	Never	SLT	0 (0, 0)	p < 0.05
Education	<HS v. College+	Non-Current	Cigs	2.3 (1.5, 3.6)	p < 0.05
Education	<HS v. College+	Non-Current	E-Cigs	2.8 (1.4, 5.8)	p < 0.05

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Education	<HS v. College+	Non-Current	OC	1.1 (0.7, 1.7)	
Education	<HS v. College+	Non-Current	SLT	1.7 (0.7, 4)	
Education	<HS v. College+	Cigs	Non-Current	0.4 (0.3, 0.5)	$p < 0.05$
Education	<HS v. College+	Cigs	Cigs + E-Cigs	0.9 (0.6, 1.2)	
Education	<HS v. College+	Cigs	Cigs + OC	0.9 (0.6, 1.4)	
Education	<HS v. College+	Cigs	Cigs + SLT	2.1 (0.5, 9.2)	
Education	<HS v. College+	E-Cigs	Non-Current	0.8 (0.5, 1.4)	
Education	<HS v. College+	E-Cigs	Cigs + E-Cigs	1 (0.6, 1.7)	
Education	<HS v. College+	E-Cigs	Polyuse no Cigs	367.5 (37.9, 3559.9)	$p < 0.05$
Education	<HS v. College+	OC	Non-Current	1.4 (1.1, 1.8)	$p < 0.05$
Education	<HS v. College+	OC	Cigs + OC	5.3 (2.6, 11)	$p < 0.05$
Education	<HS v. College+	OC	Polyuse no Cigs	3.3 (1.7, 6.2)	$p < 0.05$
Education	<HS v. College+	SLT	Non-Current	0.4 (0.3, 0.7)	$p < 0.05$
Education	<HS v. College+	SLT	Cigs + SLT	2.7 (0.1, 65)	
Education	<HS v. College+	SLT	Polyuse no Cigs	0.6 (0.2, 1.5)	
Education	<HS v. College+	Cigs + E-Cigs	Non-Current	0 (0, 0.5)	$p < 0.05$
Education	<HS v. College+	Cigs + E-Cigs	Cigs	1.3 (0.9, 1.8)	
Education	<HS v. College+	Cigs + E-Cigs	E-Cigs	0.6 (0.3, 1.1)	
Education	<HS v. College+	Cigs + E-Cigs	Polyuse + Cigs	1.2 (0.5, 2.8)	
Education	<HS v. College+	Cigs + OC	Non-Current	0.3 (0, 389.5)	
Education	<HS v. College+	Cigs + OC	Cigs	1.2 (0.8, 1.8)	
Education	<HS v. College+	Cigs + OC	OC	0.4 (0.2, 0.8)	$p < 0.05$
Education	<HS v. College+	Cigs + OC	Polyuse + Cigs	1.4 (0.6, 2.9)	
Education	<HS v. College+	Cigs + SLT	Non-Current	0 (0, 2.7)	
Education	<HS v. College+	Cigs + SLT	Cigs	2.2 (0.5, 9.7)	
Education	<HS v. College+	Cigs + SLT	SLT	0.5 (0.1, 2.4)	
Education	<HS v. College+	Cigs + SLT	Polyuse + Cigs	0.5 (0.1, 2.4)	
Education	<HS v. College+	Polyuse + Cigs	Non-Current	0.2 (0, 69.4)	
Education	<HS v. College+	Polyuse + Cigs	Cigs	1.3 (0, 2345.8)	
Education	<HS v. College+	Polyuse + Cigs	Cigs + E-Cigs	0.6 (0.3, 1.2)	
Education	<HS v. College+	Polyuse + Cigs	Cigs + OC	0.9 (0.4, 1.8)	
Education	<HS v. College+	Polyuse + Cigs	Cigs + SLT	1.3 (0.4, 4.6)	
Education	<HS v. College+	Polyuse + Cigs	Polyuse no Cigs	0.8 (0.2, 3.6)	
Education	<HS v. College+	Polyuse no Cigs	Non-Current	2.1 (0.1, 57.7)	
Education	<HS v. College+	Polyuse no Cigs	E-Cigs	1.8 (0.6, 5.3)	
Education	<HS v. College+	Polyuse no Cigs	OC	0.7 (0.3, 1.6)	
Education	<HS v. College+	Polyuse no Cigs	SLT	1.3 (0.6, 2.7)	
Education	<HS v. College+	Polyuse no Cigs	Polyuse + Cigs	2.7 (0.5, 13.4)	
Education	HS/GED v. College+	Never	Non-Current	1.9 (1, 3.4)	$p < 0.05$
Education	HS/GED v. College+	Never	Cigs	15.1 (4.4, 52.1)	$p < 0.05$
Education	HS/GED v. College+	Never	E-Cigs	334.2 (10.3, 10879.6)	$p < 0.05$
Education	HS/GED v. College+	Never	OC	1.3 (0.1, 11.5)	

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Education	HS/GED v. College+	Never	SLT	1.4 (0.1, 24.6)	
Education	HS/GED v. College+	Non-Current	Cigs	4.2 (2.7, 6.4)	p < 0.05
Education	HS/GED v. College+	Non-Current	E-Cigs	4.2 (1.8, 10.1)	p < 0.05
Education	HS/GED v. College+	Non-Current	OC	0.8 (0.4, 1.9)	
Education	HS/GED v. College+	Non-Current	SLT	2.7 (0.7, 10.4)	
Education	HS/GED v. College+	Cigs	Non-Current	0.4 (0.3, 0.5)	p < 0.05
Education	HS/GED v. College+	Cigs	Cigs + E-Cigs	0.7 (0.5, 1.1)	
Education	HS/GED v. College+	Cigs	Cigs + OC	1.1 (0.7, 1.6)	
Education	HS/GED v. College+	Cigs	Cigs + SLT	1.9 (0.4, 9.5)	
Education	HS/GED v. College+	E-Cigs	Non-Current	0.8 (0.4, 1.5)	
Education	HS/GED v. College+	E-Cigs	Cigs + E-Cigs	1.1 (0.5, 2.4)	
Education	HS/GED v. College+	E-Cigs	Polyuse no Cigs	678 (67.4, 6824.4)	p < 0.05
Education	HS/GED v. College+	OC	Non-Current	1.3 (0.6, 2.6)	
Education	HS/GED v. College+	OC	Cigs + OC	6.7 (2.9, 15.6)	p < 0.05
Education	HS/GED v. College+	OC	Polyuse no Cigs	4.4 (1.7, 11.2)	p < 0.05
Education	HS/GED v. College+	SLT	Non-Current	0.7 (0.2, 1.9)	
Education	HS/GED v. College+	SLT	Cigs + SLT	0.6 (0, 22.8)	
Education	HS/GED v. College+	SLT	Polyuse no Cigs	0.4 (0.1, 2.4)	
Education	HS/GED v. College+	Cigs + E-Cigs	Non-Current	0.7 (0, 3512.6)	
Education	HS/GED v. College+	Cigs + E-Cigs	Cigs	1.4 (1, 2)	p < 0.05
Education	HS/GED v. College+	Cigs + E-Cigs	E-Cigs	0.6 (0.3, 1.3)	
Education	HS/GED v. College+	Cigs + E-Cigs	Polyuse + Cigs	0.9 (0.3, 3)	
Education	HS/GED v. College+	Cigs + OC	Non-Current	0.3 (0, 36.8)	
Education	HS/GED v. College+	Cigs + OC	Cigs	1.2 (0.8, 1.8)	
Education	HS/GED v. College+	Cigs + OC	OC	0.5 (0.2, 1.5)	
Education	HS/GED v. College+	Cigs + OC	Polyuse + Cigs	1.4 (0.7, 3.1)	
Education	HS/GED v. College+	Cigs + SLT	Non-Current	0 (0, 0.1)	p < 0.05
Education	HS/GED v. College+	Cigs + SLT	Cigs	2.5 (0.5, 13.2)	
Education	HS/GED v. College+	Cigs + SLT	SLT	0.4 (0.1, 2.8)	
Education	HS/GED v. College+	Cigs + SLT	Polyuse + Cigs	1.5 (0.3, 7.1)	
Education	HS/GED v. College+	Polyuse + Cigs	Non-Current	0 (0, 11)	
Education	HS/GED v. College+	Polyuse + Cigs	Cigs	3.3 (0, 2605.6)	
Education	HS/GED v. College+	Polyuse + Cigs	Cigs + E-Cigs	0.4 (0.2, 0.9)	p < 0.05
Education	HS/GED v. College+	Polyuse + Cigs	Cigs + OC	1.1 (0.6, 2.3)	
Education	HS/GED v. College+	Polyuse + Cigs	Cigs + SLT	1.4 (0.4, 5.5)	
Education	HS/GED v. College+	Polyuse + Cigs	Polyuse no Cigs	0.5 (0.1, 3.4)	
Education	HS/GED v. College+	Polyuse no Cigs	Non-Current	1 (0, 651.6)	
Education	HS/GED v. College+	Polyuse no Cigs	E-Cigs	2.5 (0.6, 11.6)	
Education	HS/GED v. College+	Polyuse no Cigs	OC	1.6 (0.4, 6.8)	
Education	HS/GED v. College+	Polyuse no Cigs	SLT	1 (0.3, 4.2)	
Education	HS/GED v. College+	Polyuse no Cigs	Polyuse + Cigs	12 (2.6, 55.1)	p < 0.05
Education	Some College v. College+	Never	Non-Current	1.6 (0.9, 2.9)	

Education	Some College v. College+	Never	Cigs	3.2 (0.7, 13.4)	
Education	Some College v. College+	Never	E-Cigs	0 (0, 0)	$p < 0.05$
Education	Some College v. College+	Never	OC	0.7 (0.1, 4.7)	
Education	Some College v. College+	Never	SLT	1.4 (0.1, 18.8)	
Education	Some College v. College+	Non-Current	Cigs	1.6 (1.1, 2.3)	$p < 0.05$
Education	Some College v. College+	Non-Current	E-Cigs	4.5 (2.4, 8.2)	$p < 0.05$
Education	Some College v. College+	Non-Current	OC	1 (0.7, 1.4)	
Education	Some College v. College+	Non-Current	SLT	1.8 (0.9, 3.6)	
Education	Some College v. College+	Cigs	Non-Current	0.5 (0.4, 0.6)	$p < 0.05$
Education	Some College v. College+	Cigs	Cigs + E-Cigs	1.3 (0.9, 1.8)	
Education	Some College v. College+	Cigs	Cigs + OC	0.8 (0.5, 1.3)	
Education	Some College v. College+	Cigs	Cigs + SLT	1.4 (0.3, 7.4)	
Education	Some College v. College+	E-Cigs	Non-Current	0.9 (0.5, 1.4)	
Education	Some College v. College+	E-Cigs	Cigs + E-Cigs	1.3 (0.8, 2.2)	
Education	Some College v. College+	E-Cigs	Polyuse no Cigs	380.7 (37.8, 3834)	$p < 0.05$
Education	Some College v. College+	OC	Non-Current	0.9 (0.7, 1.1)	
Education	Some College v. College+	OC	Cigs + OC	3 (1.5, 6.2)	$p < 0.05$
Education	Some College v. College+	OC	Polyuse no Cigs	2.3 (1.2, 4.6)	$p < 0.05$
Education	Some College v. College+	SLT	Non-Current	0.6 (0.3, 1.2)	
Education	Some College v. College+	SLT	Cigs + SLT	3.2 (0.2, 62.9)	
Education	Some College v. College+	SLT	Polyuse no Cigs	0.5 (0.2, 1.4)	
Education	Some College v. College+	Cigs + E-Cigs	Non-Current	2 (0, 174.6)	
Education	Some College v. College+	Cigs + E-Cigs	Cigs	1.2 (0.9, 1.7)	
Education	Some College v. College+	Cigs + E-Cigs	E-Cigs	0.9 (0.5, 1.7)	
Education	Some College v. College+	Cigs + E-Cigs	Polyuse + Cigs	0.9 (0.4, 1.9)	
Education	Some College v. College+	Cigs + OC	Non-Current	1.2 (0.1, 12.2)	
Education	Some College v. College+	Cigs + OC	Cigs	0.9 (0.6, 1.3)	
Education	Some College v. College+	Cigs + OC	OC	0.6 (0.3, 1.3)	
Education	Some College v. College+	Cigs + OC	Polyuse + Cigs	1.4 (0.7, 2.9)	
Education	Some College v. College+	Cigs + SLT	Non-Current	60.7 (2.6, 1401.1)	$p < 0.05$
Education	Some College v. College+	Cigs + SLT	Cigs	2.1 (0.4, 10.6)	
Education	Some College v. College+	Cigs + SLT	SLT	0.5 (0.1, 2.2)	
Education	Some College v. College+	Cigs + SLT	Polyuse + Cigs	1.3 (0.2, 7.3)	
Education	Some College v. College+	Polyuse + Cigs	Non-Current	0.3 (0, 19.5)	
Education	Some College v. College+	Polyuse + Cigs	Cigs	4.2 (0, 611.4)	
Education	Some College v. College+	Polyuse + Cigs	Cigs + E-Cigs	0.6 (0.3, 1)	
Education	Some College v. College+	Polyuse + Cigs	Cigs + OC	0.8 (0.4, 1.6)	
Education	Some College v. College+	Polyuse + Cigs	Cigs + SLT	2 (0.6, 7)	
Education	Some College v. College+	Polyuse + Cigs	Polyuse no Cigs	1 (0.2, 4.2)	
Education	Some College v. College+	Polyuse no Cigs	Non-Current	1.5 (0.1, 42)	
Education	Some College v. College+	Polyuse no Cigs	E-Cigs	1.6 (0.7, 3.6)	
Education	Some College v. College+	Polyuse no Cigs	OC	0.8 (0.4, 1.4)	

Supplemental material

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Tob Control

| Education | Some College v. College+ | Polyuse no Cigs | SLT | 0.8 (0.4, 1.8) | |
| Education | Some College v. College+ | Polyuse no Cigs | Polyuse + Cigs | 2.2 (0.5, 9) | |