

Alzahrani T, Pena I, Temesgen N, Glantz SA. Association between electronic cigarette use and myocardial infarction. Am J Prev Med. 2018;55(4):455–461.



The editorial office has been notified of the following corrections.

The title of [Table 1](#), as well as those of [Appendix Tables 1](#) and [2](#), should have specified “unweighted analysis.” Likewise, the title of [Table 2](#), as well as those of [Appendix Tables 3](#) and [4](#), should have specified “weighted analysis.”

All main and appendix tables have revised mean BMIs, odd ratios, CIs, and *p*-values in the BMI row, to account for treating BMI=99.99 as missing. The majority of odds ratios, confidence intervals, *p*-values, and sample sizes have been revised in [Table 2](#), as well as [Appendix Tables 3](#) and [4](#) to account for treating BMI=99.99 as missing. Population sizes were added as a final row in [Table 2](#) and [Appendix Tables 3](#) and [4](#).

There were several more specific revised results. In [Table 1](#) and [Appendix Table 1](#), in the Former E-cigarette use column, the sample size, Never Cigarette smoker percentage, and *n* values in the Daily Cigarette smoker, Woman, and White rows were revised to exclude one subject who reported history of e-cig use but did not specify the current status of e-cig use.

[Table 1](#), as well as [Appendix Tables 1](#) and [2](#), should have specified that the data are presented at mean (\pm SD) in the rows for Age and BMI.

The changes are small and do not affect the overall conclusions of the paper.

Revised Tables are displayed below.

Table 1. Sample Characteristics of NHIS 2014 and 2016 Combined (Unweighted Analysis)

Variable	E-cigarette use				<i>p</i> -value
	Never, % (<i>n</i>)	Former, % (<i>n</i>)	Some days, % (<i>n</i>)	Daily, % (<i>n</i>)	
<i>n</i>	60,100	7,092	1,483	776	
Myocardial infarction	3.9 (2,309)	3.2 (225)	4.1 (61)	6.1 (47)	0.015
Cigarette smoking					<0.001
Never	66.0 (39,649)	20.0 (1,413)	9.2 (136)	5.3 (41)	
Former	23.9 (14,358)	21.0 (1,486)	12.4 (184)	51.5 (399)	
Some days	2.6 (1,581)	11.5 (816)	17.5 (260)	11.1 (86)	
Daily	7.4 (4,437)	47.6 (3,369)	60.9 (902)	32.1 (249)	
Health status					
Hypertension	35.6 (21,387)	26.6 (1,887)	28.7 (426)	33.4 (259)	<0.001
Diabetes mellitus	11.1 (6,642)	6.8 (485)	8.3 (123)	9.2 (71)	<0.001
High cholesterol	31.1 (18,655)	22.8 (1,612)	23.7 (350)	31.1 (240)	<0.001
Demographics					
Woman	56.1 (33,698)	48.2 (3,421)	48.7 (722)	47.3 (367)	<0.001
Age, year, mean (\pm SD)	51.5 (\pm 18.5)	39.9 (\pm 15.1)	41.4 (\pm 15.2)	44.2 (\pm 15.3)	<0.001
BMI, kg/m ² , mean (\pm SD)	28.0 (\pm 6.3)	27.9 (\pm 6.7)	27.7 (\pm 6.3)	28.1 (\pm 6.9)	0.219
Race/Ethnicity					<0.001
Hispanic	14.9 (8,935)	10.0 (709)	9.4 (139)	5.5 (43)	
White	65.0 (39,071)	75.9 (5,386)	76.7 (1,138)	83.3 (646)	
Black	13.1 (7,871)	8.9 (631)	8.4 (125)	5.2 (40)	
Asian	5.8 (3,481)	3.1 (222)	2.7 (40)	3.4 (26)	
Other	1.23 (742)	2.0 (144)	2.8 (41)	2.7 (21)	

Note: Boldface indicates statistical significance ($p < 0.005$). *p*-values test the null hypothesis that there are no differences across the groups using analysis of variance or chi-square, as appropriate.

NHIS, National Health Interview Survey.

Table 2. Univariate and Multivariable Associations Between E-cigarette Use and Myocardial Infarction of NHIS 2014 and 2016 Combined (Weighted Analysis)

Characteristics	Unadjusted model		Adjusted model	
	OR (95% CI)	p-value	OR (95% CI)	p-value
E-cigarette use				
Never	ref		ref	
Former	0.83 (0.68-1.00)	0.055	1.07 (0.85-1.34)	0.591
Some days	1.21 (0.84-1.75)	0.299	1.31 (0.87-1.96)	0.192
Daily	2.08 (1.34-3.23)	0.001	2.11 (1.24-3.58)	0.006
Cigarette smoking				
Never			ref	
Former			1.73 (1.52-1.97)	<0.001
Some days			2.18 (1.60-2.98)	<0.001
Daily			2.93 (2.40-3.58)	<0.001
Hypertension			2.39 (2.05-2.79)	<0.001
Diabetes mellitus			1.85 (1.60-2.15)	<0.001
High cholesterol			2.36 (2.06-2.71)	<0.001
Woman			0.49 (0.43-0.55)	<0.001
Age (per 10 years)			1.65 (1.57-1.75)	<0.001
BMI			1.00 (0.99-1.01)	0.987
Race/ethnicity				
White			ref	
Hispanic			0.79 (0.62-1.00)	0.054
Black			0.88 (0.73-1.06)	0.176
Asian			0.51 (0.34-0.75)	0.001
Other race			1.43 (0.83-2.46)	0.192
<i>n</i>	69,394		66,900	
Population size	241,201,560		232,573,994	

Note: Boldface indicates statistical significance ($p < 0.05$).
NHIS, National Health Interview Survey.

Appendix Table 1. Sample Characteristics of NHIS 2014 (Unweighted Analysis)

Characteristics	E-cigarette use				p-value
	Never % (n)	Former % (n)	Some days % (n)	Daily % (n)	
<i>n</i>	32,069	3,175	892	384	
Myocardial infarction	3.7% (1,197)	3.1% (99)	4.4% (39)	6.0% (23)	0.02
Cigarette Smoking					<0.001
Never	66.2% (21,196)	17.3% (547)	7.6% (68)	3.4% (13)	
Former	23.0% (7,375)	20.2% (639)	10.0% (89)	44.4% (170)	
Some days	2.9% (911)	12.6% (399)	18.7% (167)	10.2% (39)	
Daily	7.9% (2,535)	50.0% (1,586)	63.7% (568)	42.0% (161)	
Health Status					
Hypertension	34.7% (11,108)	25.9% (821)	28.3% (252)	36.5% (140)	<0.001
Diabetes Mellitus	10.9% (3,504)	6.3% (199)	7.6% (68)	9.9% (38)	<0.001
High Cholesterol	30.9% (9,863)	22.1% (699)	21.4% (190)	31.2% (119)	<0.001
Demographics					
Woman	56.3% (18,061)	48.1% (1,526)	50.1% (447)	47.9% (184)	<0.001
Age, year, mean (\pm SD)	50.6 (\pm 18.3)	39.0 (\pm 14.8)	40.9 (\pm 15.2)	44.3 (\pm 15.1)	<0.001
BMI, kg/m ² , mean (\pm SD)	28.0 (\pm 6.3)	27.8 (\pm 6.6)	27.6 (\pm 6.4)	27.9 (\pm 6.5)	0.248
Race/Ethnicity					<0.001
Hispanic	17.3% (5,531)	11.8% (374)	9.8% (96)	7.6% (29)	
White	61.2% (19,614)	73.4% (2,331)	77.5% (678)	81.0% (311)	
Black	14.5% (4,638)	9.1% (290)	8.0% (77)	6.5% (25)	
Asian	6.1% (1,944)	3.5% (112)	2.6% (22)	2.9% (11)	
Other	1.1% (342)	2.1% (68)	2.1% (19)	2.1% (8)	

Note: Boldface indicates statistical significance ($p < 0.05$). *p*-values test the null hypothesis that there are no differences across the groups using analysis of variance or chi-square, as appropriate.

NHIS, National Health Interview Survey.

Appendix Table 2. Sample Characteristics of NHIS 2016 (Unweighted Analysis)

Characteristics	E-cigarette use				p-value
	Never % (n)	Former % (n)	Some days % (n)	Daily % (n)	
<i>n</i>	28,031	3,917	591	392	
Myocardial infarction	4.0% (1,112)	3.2% (126)	3.7% (22)	6.1% (24)	0.015
Cigarette Smoking					<0.001
Never	65.9% (18,453)	22.1% (866)	11.5% (68)	7.1% (28)	
Former	24.9% (6,983)	21.7% (847)	16.1% (95)	58.4% (229)	
Some days	2.4% (670)	10.7% (417)	15.8% (93)	12.0% (47)	
Daily	6.8% (1,902)	45.6% (1,783)	56.6% (334)	22.5% (88)	
Health Status					
Hypertension	36.7% (10,279)	27.2% (1,066)	29.4% (174)	30.4% (119)	<0.001
Diabetes Mellitus	11.2% (3,138)	7.3% (286)	9.3% (55)	8.4% (33)	<0.001
High Cholesterol	31.5% (8,792)	23.4% (913)	27.2% (160)	31.0% (121)	<0.001
Demographics					
Woman	55.8% (15,637)	48.4% (1,895)	46.5% (275)	46.7% (183)	<0.001
Age, year, mean (±SD)	52.5 (±18.62)	40.7 (±15.34)	42.3 (±15.24)	44.0 (±15.54)	<0.001
BMI, kg/m ² , mean (±SD)	28.0 (±6.3)	27.9 (±6.7)	27.8 (±6.1)	28.3 (±7.2)	0.712
Race/Ethnicity					<0.001
Hispanic	12.1% (3,404)	8.6% (335)	7.3% (43)	3.6% (14)	
White	69.4% (19,457)	78.0% (3,055)	77.8% (460)	85.5% (335)	
Black	11.5% (3,233)	8.7% (341)	8.1% (48)	3.8% (15)	
Asian	5.5% (1,537)	2.8% (110)	3.1% (18)	3.8% (15)	
Other	1.4% (400)	1.9% (76)	3.7% (22)	3.3% (13)	

Note: Boldface indicates statistical significance ($p < 0.05$). *p*-values test the null hypothesis that there are no differences across the groups using analysis of variance or chi-square, as appropriate.

NHIS, National Health Interview Survey.

Appendix Table 3. Univariate and Multivariate Associations Between E-cigarette Use and Myocardial Infarction of NHIS 2014 (Weighted Analysis)

Characteristics	Unadjusted Model		Adjusted Model	
	OR (95% CI)	p-value	OR (95% CI)	p-value
E-cigarette use				
Never	Reference		Reference	
Former	0.92 (0.69-1.23)	0.555	1.17 (0.84-1.61)	0.355
Some days	1.64 (1.03-2.61)	0.037	1.72 (1.03-2.87)	0.037
Daily	2.49 (1.29-4.78)	0.006	2.06 (0.90-4.68)	0.086
Cigarette Smoking				
Never	Reference		Reference	
Former			1.83 (1.51-2.21)	<0.001
Some days			2.45 (1.56-3.85)	<0.001
Daily			3.01 (2.23-4.06)	<0.001
Hypertension			2.86 (2.28-3.59)	<0.001
Diabetes Mellitus			1.77 (1.44-2.17)	<0.001
High Cholesterol			2.16 (1.77-2.63)	<0.001
Woman			0.52 (0.43-0.62)	<0.001
Age (per 10 years)			1.61 (1.51-1.73)	<0.001
BMI			1.01 (0.99-1.02)	0.444
Race/ethnicity				
White	Reference		Reference	
Hispanic			0.68 (0.53-0.88)	0.003
Black			0.95 (0.72-1.24)	0.684
Asian			0.68 (0.43-1.10)	0.114
Other race			1.44 (0.73-2.82)	0.294
<i>n</i>	36,494		35,156	
Population size	238,321,083		229,754,972	

Note: Boldface indicates statistical significance ($p < 0.05$).
 NHIS, National Health Interview Survey.

Appendix Table 4. Univariate and Multivariate Associations Between E-cigarette Use and Myocardial Infarction of NHIS 2016 (Weighted Analysis)

Characteristics	Unadjusted Model		Adjusted Model	
	OR (95% CI)	p-value	OR (95% CI)	p-value
E-cigarette use				
Never	Reference		Reference	
Former	0.76 (0.59-0.99)	0.042	1.02 (0.74-1.41)	0.901
Some days	0.68 (0.40-1.14)	0.145	0.76 (0.42-1.39)	0.371
Daily	1.73 (0.97-3.06)	0.060	2.20 (1.16-4.17)	0.016
Cigarette Smoking				
Never	Reference		Reference	
Former			1.64 (1.38-1.95)	<0.001
Some days			1.93 (1.27-2.93)	0.002
Daily			2.81 (2.15-3.69)	<0.001
Hypertension			1.99 (1.62-2.46)	<0.001
Diabetes Mellitus			1.94 (1.57-2.40)	<0.001
High Cholesterol			2.65 (2.20-3.20)	<0.001
Woman			0.46 (0.38-0.55)	<0.001
Age (per 10 years)			1.70 (1.56-1.86)	<0.001
BMI			0.99 (0.98-1.01)	0.402
Race/ethnicity				
White	Reference		Reference	
Hispanic			0.90 (0.62-1.29)	0.553
Black			0.81 (0.62-1.06)	0.123
Asian			0.38 (0.20-0.72)	0.003
Other race			1.45 (0.64-3.26)	0.370
<i>n</i>	32,900		31,744	
Population size	244,082,037		235,393,015	

Note: Boldface indicates statistical significance ($p < 0.05$).
 NHIS, National Health Interview Survey.