

**Supplementary table-1:** Results of a multivariate logistic regression model for exploring predictors of smoking relapse among the US adult smokers using 1-month as a cut-off point for stratifying the smoking cessation period.

Independent Variables	Adjusted OR <sup>1</sup>	Lower and upper limits of 95% CI <sup>2</sup>	
		Lower	Upper
<b>Age group (years)</b>			
65+ (ref) <sup>3</sup>	1	-	-
40-64	4.55	2.39	8.68
25-39	9.32	4.47	19.43
18-24	22.82	7.45	69.90
<b>Sex/Gender</b>			
Female (ref) <sup>3</sup>	1	-	-
Male	0.89	0.60	1.31
<b>Smoking cessation Period*</b>			
< 1 Month (ref) <sup>3</sup>	1	-	-
≥ 1 Month	<b>0.08</b>	<b>0.03</b>	<b>0.17</b>
<b>Living in SFH<sup>4</sup></b>			
Non-SFH <sup>4</sup>	1	-	-
SFH <sup>4</sup>	0.44	0.28	0.69
<b>Marital status</b>			
Married (ref) <sup>3</sup>	1	-	-
Widowed	2.79	1.35	5.77
Divorced	2.34	1.45	3.78
Separated	3.89	1.49	10.16
Never married	1.62	0.96	2.74
<b>Race/Ethnicity</b>			
White (non-Hispanics) (ref) <sup>3</sup>	1	-	-
Black (non-Hispanics)	1.01	0.46	2.23
Other (non-Hispanics)	0.74	0.25	2.18
Hispanics	2.20	1.15	4.21

<sup>1</sup>: Odds ratio. <sup>2</sup>: Confidence interval. <sup>3</sup>: Reference group. <sup>4</sup>: Smoke-Free Home. \*: the variable of interest in the sensitivity analysis.

- Smoking relapse is the only outcome.
- Total number of observations considered in the model was 3,182.
- The odds ratios in this table are all weighted and adjusted to all included variables
- All the values in the table are rounded to two decimal places, except for the p-values.

**Supplementary table-2:** Results of a multivariate logistic regression model for exploring predictors of smoking relapse among the US adult smokers using 3-months as a cut-off point for stratifying the smoking cessation period.

Independent Variables	Adjusted OR <sup>1</sup>	Lower and upper limits of 95% CI <sup>2</sup>	
		Lower	Upper
<b>Age group (years)</b>			
65+ (ref) <sup>3</sup>	1.00	-	-
40-64	4.53	2.33	8.81
25-39	8.45	3.91	18.29
18-24	19.58	5.61	68.31
<b>Sex/Gender</b>			
Female (ref) <sup>3</sup>	1.00	-	-
Male	0.94	0.63	1.40
<b>Smoking cessation Period*</b>			
< 3 Months (ref) <sup>3</sup>	<b>1.00</b>	-	-
≥ 3 Months	<b>0.09</b>	<b>0.04</b>	<b>0.17</b>
<b>Living in SFH<sup>4</sup></b>			
Non-SFH <sup>4</sup> (ref) <sup>3</sup>	1.00	-	-
SFH <sup>4</sup>	0.41	0.26	0.65
<b>Marital status</b>			
Married (ref) <sup>3</sup>	1.00	-	-
Widowed	2.77	1.32	5.79
Divorced	2.20	1.33	3.64
Separated	3.92	1.53	10.02
Never married	1.51	0.85	2.67
<b>Race/Ethnicity</b>			
White (non-Hispanics) (ref) <sup>3</sup>	1.00	-	-
Black (non-Hispanics)	0.87	0.37	2.07
Other (non-Hispanics)	0.83	0.29	2.39
Hispanics	2.06	1.06	4.01

<sup>1</sup>: Odds ratio. <sup>2</sup>: Confidence interval. <sup>3</sup>: Reference group. <sup>4</sup>: Smoke-Free Home. \*: the variable of interest in the sensitivity analysis.

- Smoking relapse is the only outcome.
- Total number of observations considered in the model was 3,182.
- The odds ratios in this table are all weighted and adjusted to all included variables
- All the values in the table are rounded to two decimal places, except for the p-values.

**Supplementary table-3:** Results of a multivariate logistic regression model for exploring predictors of smoking relapse among the US adult smokers using 1, 3 and 6-months as cut-off points for stratifying the smoking cessation period.

Independent Variables	Adjusted OR <sup>1</sup>	Lower and upper limits of 95% CI <sup>2</sup>	
		Lower	Upper
<b>Age group (years)</b>			
65+ (ref) <sup>3</sup>	1.00	-	-
40-64	4.40	2.25	8.61
25-39	8.20	3.76	17.89
18-24	16.96	4.64	62.01
<b>Sex/Gender</b>			
Female (ref) <sup>3</sup>	1.00	-	-
Male	0.94	0.62	1.41
<b>Smoking cessation Period*</b>			
< 1 Month (ref) <sup>3</sup>	<b>1.00</b>	-	-
<b>1 - 3 Months</b>	<b>0.61</b>	<b>0.18</b>	<b>2.03</b>
<b>3 - 6 Months</b>	<b>0.21</b>	<b>0.06</b>	<b>0.74</b>
<b>≥ 6 Months</b>	<b>0.06</b>	<b>0.03</b>	<b>0.14</b>
<b>Living in SFH<sup>4</sup></b>			
Non-SFH <sup>4</sup> (ref) <sup>3</sup>	1.00	-	-
SFH <sup>4</sup>	0.41	0.26	0.65
<b>Marital status</b>			
Married (ref) <sup>3</sup>	1.00	-	-
Widowed	2.80	1.33	5.91
Divorced	2.29	1.38	3.79
Separated	3.94	1.52	10.21
Never married	1.47	0.81	2.65
<b>Race/Ethnicity</b>			
White (non-Hispanics) (ref) <sup>3</sup>	1.00	-	-
Black (non-Hispanics)	0.88	0.38	2.06
Other (non-Hispanics)	0.84	0.30	2.37
Hispanics	2.02	1.02	3.99

<sup>1</sup>: Odds ratio. <sup>2</sup>: Confidence interval. <sup>3</sup>: Reference group. <sup>4</sup>: Smoke-Free Home. \*: the variable of interest in the sensitivity analysis.

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