

Supplemental Table 1. Quit attempts among smokers in the Ontario Tobacco Survey (n=2414)

	Proximity model		Density model		Threshold model	
	Relative Risk	Confidence interval	Relative Risk	Confidence interval	Relative Risk	Confidence interval
Male	1.21	[0.93,1.57]	1.2	[0.93,1.56]	1.2	[0.92,1.55]
Age	0.82***	[0.74,0.91]	0.82***	[0.74,0.91]	0.82***	[0.74,0.91]
Single	0.91	[0.69,1.19]	0.92	[0.70,1.20]	0.93	[0.71,1.23]
Less than high school education	1.06	[0.92,1.21]	1.06	[0.93,1.22]	1.06	[0.93,1.22]
Neighbourhood income quintile						
Highest	0.95	[0.67,1.35]	0.95	[0.67,1.35]	0.96	[0.68,1.35]
Second	0.72	[0.48,1.06]	0.72	[0.48,1.07]	0.72	[0.48,1.06]
Third	1.01	[0.66,1.54]	1	[0.65,1.53]	0.99	[0.65,1.51]
Fourth	1.13	[0.70,1.83]	1.15	[0.71,1.85]	1.13	[0.70,1.83]
Lowest	1	[1.00,1.00]	1	[1.00,1.00]	1	[1.00,1.00]
Immigrant percentage tertile						
Highest tertile	0.96	[0.68,1.35]	0.96	[0.68,1.35]	1.01	[0.71,1.43]
Middle	0.67	[0.40,1.12]	0.67	[0.40,1.13]	0.72	[0.43,1.21]
Lowest	1	[1.00,1.00]	1	[1.00,1.00]	1	[1.00,1.00]
Community size						
1,500,000+	1.38	[0.81,2.34]	1.39	[0.82,2.35]	1.3	[0.77,2.21]
500,000-1,499,000	1.28	[0.78,2.12]	1.27	[0.77,2.11]	1.19	[0.72,1.97]
100,000-499,000	1.48	[0.83,2.65]	1.49	[0.83,2.67]	1.39	[0.77,2.50]
10,000-99,999	2.28*	[1.15,4.53]	2.33*	[1.18,4.61]	2.16*	[1.09,4.29]
Less than 10,000	1	[1.00,1.00]	1	[1.00,1.00]	1	[1.00,1.00]
No Children in the home	0.94	[0.71,1.24]	0.94	[0.71,1.25]	0.92	[0.69,1.21]
Use of pharmaceutical quit aids	1.17	[0.88,1.55]	1.16	[0.88,1.55]	1.17	[0.88,1.55]
Use of Behavioural quit aids	1.36*	[1.01,1.83]	1.34	[0.99,1.80]	1.35*	[1.00,1.81]
Number of previous quit attempts	1.49***	[1.30,1.71]	1.50***	[1.31,1.72]	1.50***	[1.31,1.72]
Lagged Heaviness of smoking Index	0.46***	[0.34,0.61]	0.45***	[0.34,0.60]	0.44***	[0.33,0.59]
Lagged Perceived addiction	1.15	[0.88,1.50]	1.16	[0.89,1.52]	1.17	[0.90,1.53]
Time in study (days)	1.00***	[1.00,1.00]	1.00***	[1.00,1.00]	1.00***	[1.00,1.00]
Region						
Toronto	0.92	[0.68,1.26]	0.92	[0.68,1.26]	0.88	[0.65,1.21]

East	0.82	[0.58,1.15]	0.83	[0.59,1.16]	0.8	[0.57,1.13]
South	0.93	[0.65,1.33]	0.95	[0.67,1.36]	0.92	[0.65,1.32]
North	1	[1.00,1.00]	1	[1.00,1.00]	1	[1.00,1.00]
Distance to outlet from home	0.98	[0.84,1.14]	0.92	[0.77,1.09]	1.07	[0.85,1.35]
Male	NA		0.97	[0.93,1.01]	0.96	[0.93,1.01]
Age	NA		NA		1.45	[0.96,2.18]

Supplemental Table 2. Quit attempts among smokers in the Ontario Tobacco Survey (n=2414)

Highest neighbourhood income quintile

	Proximity model		Density model		Threshold model	
	Relative Risk	Confidence interval	Relative Risk	Confidence interval	Relative Risk	Confidence interval
Male	0.86	[0.39,1.86]	0.86	[0.39,1.87]	0.72	[0.33,1.56]
Age	0.88	[0.68,1.15]	0.88	[0.67,1.14]	0.95	[0.72,1.27]
Single	0.64	[0.30,1.39]	0.63	[0.29,1.37]	0.71	[0.31,1.60]
Less than high school education	0.9	[0.62,1.32]	0.9	[0.61,1.32]	0.94	[0.62,1.43]
Neighbourhood income quintile						
Highest	NA		NA		NA	
Second	NA		NA		NA	
Third	NA		NA		NA	
Fourth	NA		NA		NA	
Lowest	NA		NA		NA	
Immigrant percentage tertile						
Highest tertile	2.86*	[1.06,7.71]	3.01*	[1.13,8.03]	3.83**	[1.41,10.41]
Middle	1	[1.00,1.00]	1	[1.00,1.00]	1	[1.00,1.00]
Lowest	1	[1.00,1.00]	1	[1.00,1.00]	1	[1.00,1.00]
Community size						
1,500,000+	4.33	[0.98,19.13]	4.60*	[1.04,20.33]	3.99	[0.86,18.51]
500,000-1,499,000	3.23	[0.68,15.44]	3.34	[0.71,15.74]	3.29	[0.71,15.33]
100,000-499,000	4.06	[0.75,22.09]	4.3	[0.81,22.94]	4.2	[0.78,22.59]
10,000-99,999	1.98*	[1.82,40.59]	1.70*	[1.07,19.3]	2.76**	[1.33,32.8]
Less than 10,000	1	[1.00,1.00]	1	[1.00,1.00]	1	[1.00,1.00]
No Children in the home	0.59	[0.26,1.35]	0.58	[0.25,1.33]	0.57	[0.25,1.32]
Use of pharmaceutical quit aids	1.39	[0.62,3.09]	1.38	[0.62,3.07]	1.31	[0.57,3.02]
Use of Behavioural quit aids	0.62	[0.25,1.52]	0.59	[0.25,1.43]	0.54	[0.23,1.28]
Number of previous quit attempts	1.90***	[1.31,2.77]	1.93***	[1.31,2.83]	2.05***	[1.38,3.04]
Lagged Heaviness of smoking Index	0.74	[0.34,1.63]	0.74	[0.34,1.61]	0.7	[0.31,1.55]
Lagged Perceived addiction	1.13	[0.56,2.28]	1.15	[0.57,2.33]	1.17	[0.58,2.37]
Time in study (days)	1	[1.00,1.00]	1	[1.00,1.00]	1	[1.00,1.00]
Region						
Toronto	0.48	[0.13,1.78]	0.49	[0.13,1.83]	0.41	[0.11,1.56]

East	0.13**	[0.03,0.54]	0.12**	[0.03,0.50]	0.12**	[0.03,0.52]
South	0.27	[0.07,1.02]	0.27	[0.07,1.00]	0.26	[0.07,1.00]
North	1	[1.00,1.00]	1	[1.00,1.00]	1	[1.00,1.00]
Distance to outlet from home	1.26	[0.81,1.96]	0.94	[0.74,1.21]	1.03	[0.73,1.44]
Male			0.54*	[0.35,0.85]	0.74*	[0.58,0.94]
Age					1.17	[0.45,3.05]

Lower neighbourhood income quintiles

	Proximity model		Density model		Threshold model	
	Relative Risk	Confidence interval	Relative Risk	Confidence interval	Relative Risk	Confidence interval
Male	1.25	[0.95,1.65]	1.24	[0.94,1.64]	1.23	[0.93,1.62]
Age	0.82**		0.82***		0.81***	
Single	0.94	[0.70,1.26]	0.96	[0.72,1.29]	0.98	[0.73,1.31]
Less than high school education	1.1	[0.95,1.28]	1.11	[0.96,1.29]	1.11	[0.96,1.29]
Neighbourhood income quintile						
Highest	NA		NA		NA	
Second	NA		NA		NA	
Third	NA		NA		NA	
Fourth	NA		NA		NA	
Lowest	NA		NA		NA	
Immigrant percentage tertile						
Highest tertile	0.88	[0.60,1.29]	0.88	[0.60,1.29]	0.9	[0.61,1.32]
Middle	0.75	[0.40,1.37]	0.75	[0.41,1.38]	0.75	[0.41,1.38]
Lowest	1	[1.00,1.00]	1	[1.00,1.00]	1	[1.00,1.00]
Community size						
1,500,000+	1.19	[0.67,2.12]	1.19	[0.67,2.11]	1.09	[0.61,1.94]
500,000-1,499,000	1.07	[0.62,1.85]	1.04	[0.60,1.81]	0.95	[0.55,1.64]
100,000-499,000	1.17	[0.63,2.17]	1.16	[0.63,2.15]	1.05	[0.57,1.96]
10,000-99,999	1.76	[0.82,3.76]	1.78	[0.84,3.78]	1.61	[0.76,3.43]
Less than 10,000	1	[1.00,1.00]	1	[1.00,1.00]	1	[1.00,1.00]
No Children in the home	1	[0.74,1.35]	1.01	[0.75,1.36]	0.97	[0.72,1.31]
Use of pharmaceutical quit aids	1.14	[0.84,1.54]	1.13	[0.83,1.53]	1.13	[0.84,1.54]
Use of Behavioural quit aids	1.41*	[1.02,1.94]	1.38*	[1.00,1.91]	1.40*	[1.02,1.92]
Number of previous quit attempts	1.49**		1.50***		1.50***	
Lagged Heaviness of smoking Index	0.41**		0.40***		0.40***	
Lagged Perceived addiction	1.2	[0.90,1.59]	1.22	[0.92,1.62]	1.23	[0.92,1.64]
Time in study (days)	1.00**		1.00***		1.00***	
Region						
Toronto	0.89	[0.58,1.36]	0.9	[0.59,1.38]	0.89	[0.59,1.37]

East	0.8	[0.51,1.25]	0.81	[0.52,1.26]	0.81	[0.52,1.26]
South	0.92	[0.59,1.44]	0.95	[0.60,1.48]	0.95	[0.61,1.49]
North	1	[1.00,1.00]	1	[1.00,1.00]	1	[1.00,1.00]
Distance to outlet from home	0.91	[0.91,1.12]	0.85	[0.73,1.00]	0.95	[0.84,1.07]
Male			0.97	[0.95,1.02]	0.97	[0.93,1.00]
Age					1.37	[0.97,1.95]

Supplemental Table 3. Risk of relapse among smokers making a quit attempt in the Ontario Tobacco Survey (n=921)

	Proximity model		Density model		Threshold model	
	Hazard Ratio	Confidence interval	Hazard Ratio	Confidence interval	Hazard Ratio	Confidence interval
Male	0.94	[0.80,1.10]	0.94	[0.80,1.10]	0.94	[0.80,1.10]
Age	0.92*	[0.87,0.98]	0.92*	[0.87,0.98]	0.93*	[0.87,0.98]
Single	1.05	[0.87,1.26]	1.05	[0.88,1.27]	1.04	[0.86,1.25]
Less than high school education	1.02	[0.92,1.12]	1.02	[0.93,1.12]	1.03	[0.93,1.14]
Neighbourhood income quintile						
Highest	0.8	[0.63,1.01]	0.8	[0.64,1.01]	0.81	[0.64,1.02]
Second	1.08	[0.84,1.38]	1.09	[0.85,1.40]	1.08	[0.84,1.39]
Third	0.81	[0.61,1.07]	0.81	[0.61,1.08]	0.79	[0.59,1.06]
Fourth	0.98	[0.72,1.33]	0.99	[0.73,1.35]	0.99	[0.73,1.35]
Lowest	1	[1.00,1.00]	1	[1.00,1.00]	1	[1.00,1.00]
Immigrant percentage tertile						
Highest tertile	0.91	[0.72,1.14]	0.9	[0.71,1.13]	0.9	[0.71,1.13]
Middle	1.18	[0.76,1.83]	1.17	[0.75,1.81]	1.15	[0.74,1.81]
Lowest	1	[1.00,1.00]	1	[1.00,1.00]	1	[1.00,1.00]
Community size						
1,500,000+	0.88	[0.59,1.32]	0.9	[0.60,1.34]	0.91	[0.60,1.36]
500,000-1,499,000	0.91	[0.63,1.31]	0.92	[0.64,1.33]	0.9	[0.62,1.32]
100,000-499,000	0.8	[0.53,1.20]	0.81	[0.54,1.23]	0.82	[0.54,1.26]
10,000-99,999	0.85	[0.53,1.37]	0.87	[0.54,1.40]	0.87	[0.54,1.40]
Less than 10,000	1	[1.00,1.00]	1	[1.00,1.00]	1	[1.00,1.00]
No Children in the home	0.89	[0.74,1.08]	0.9	[0.74,1.08]	0.89	[0.73,1.07]
Use of pharmaceutical quit aids	0.92	[0.76,1.10]	0.91	[0.76,1.10]	0.91	[0.75,1.09]
Use of Behavioural quit aids	1.08	[0.86,1.37]	1.08	[0.85,1.38]	1.1	[0.87,1.39]
Number of previous quit attempts	1.04	[0.96,1.14]	1.04	[0.95,1.13]	1.04	[0.95,1.13]
Lagged Heaviness of smoking Index	0.87***	[0.82,0.93]	0.87***	[0.82,0.93]	0.87***	[0.82,0.93]
Lagged Perceived addiction	0.97	[0.79,1.19]	0.97	[0.79,1.19]	0.95	[0.77,1.18]
Time in study (days)	1	[1.00,1.00]	1	[1.00,1.00]	1	[1.00,1.00]
Region	0.92	[0.68,1.25]	0.92	[0.68,1.25]	0.93	[0.68,1.27]

Toronto						
East	1.03	[0.73,1.45]	1.02	[0.73,1.44]	1.03	[0.73,1.45]
South	0.94	[0.69,1.30]	0.94	[0.68,1.29]	0.94	[0.68,1.30]
North	1	[1.00,1.00]	1	[1.00,1.00]	1	[1.00,1.00]
Distance to outlet from home	1	[0.99,1.01]	1	[0.99,1.02]	1.01	[1.00,1.03]
Count of outlets within 500m of home			1.11	[1.00,1.23]	1.01	[0.99,1.03]
At least one outlet within 500m of home			*		1.41*	[1.06,1.88]