

## Smoking Cessation and Body Weight: Evidence from the Behavioral Risk Factor Surveillance Survey

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Online Tables (Variable Definitions, Treatment Effects, Marginal Effects) and Figures (Treatment Effects by Gender and Age Groups)

Table A1: Variable Definitions and Sample Statistics: Females

<i>Variable</i>	<i>Definition</i>	<i>Age 18–40</i>		<i>Age 41–55</i>		<i>Age 56–64</i>	
		<i>Smokers</i>	<i>Quitters</i>	<i>Smokers</i>	<i>Quitters</i>	<i>Smokers</i>	<i>Quitters</i>
Endogenous variable							
BMI	Body mass index: (weight in kilogram) ÷ (height in meters) <sup>2</sup> = kg/m <sup>2</sup>	26.82 (6.48) [8.16] {69.20}	26.90 (6.55) [12.83] {67.81}	27.11 (6.41) [7.40] {69.11}	28.03 (6.80) [8.88] {69.88}	26.78 (5.94) [9.90] {67.72}	28.60 (6.65) [11.32] {67.82}
Continuous explanatory variables							
Age	Age in years	31.42 (5.97)	32.86 (5.27)	48.14 (4.19)	48.82 (4.18)	59.65 (2.53)	60.01 (2.55)
Income	Annual household income in \$1,000	40.80 (34.29) [5.00] {124.04}	60.74 (41.36) [5.00] {124.04}	45.65 (38.01) [5.00] {124.04}	67.86 (43.25) [5.00] {124.04}	39.36 (34.14) [5.00] {124.04}	57.68 (41.50) [5.00] {124.04}
Adults	Number of adult(s) in household	1.87 (0.80) [1.00] {14.00}	1.89 (0.65) [1.00] {8.00}	1.87 (0.83) [1.00] {13.00}	1.94 (0.80) [1.00] {8.00}	1.65 (0.73) [1.00] {17.00}	1.74 (0.69) [1.00] {12.00}
Children	Number of child(ren) in household	1.57 (1.30) [0.00] {16.00}	1.61 (1.24) [0.00] {11.00}	0.60 (0.96) [0.00] {14.00}	0.69 (1.00) [0.00] {12.00}	0.14 (0.56) [0.00] {16.00}	0.10 (0.45) [0.00] {9.00}
Tax rate	State cigarette tax rate (in \$) per pack of 20 cigarettes	0.97 (0.69) [0.03] {3.46}	1.10 (0.73) [0.03] {3.46}	1.03 (0.72) [0.03] {3.46}	1.15 (0.76) [0.03] {3.46}	1.05 (0.73) [0.03] {3.46}	1.17 (0.76) [0.03] {3.46}

Binary explanatory variables (yes = 1; no = 0)

Health excellent	Excellent health, self-reported	0.15	0.26	0.11	0.22	0.10	0.18
Health very good	Very good health	0.35	0.40	0.29	0.36	0.26	0.32
Health good	Good health (reference)	0.35	0.25	0.32	0.26	0.31	0.28
Health fair-poor	Fair or poor health	0.16	0.08	0.27	0.16	0.33	0.22
White	Race is white	0.77	0.82	0.79	0.85	0.82	0.86
Other race	Other race	0.14	0.14	0.11	0.09	0.09	0.07
Black	Black (reference)	0.09	0.05	0.10	0.07	0.09	0.07
≤ High school	High school graduate or less	0.49	0.29	0.50	0.32	0.51	0.35
Some college	Some college or technical school (ref.)	0.34	0.34	0.32	0.32	0.30	0.30
College graduate	College graduate or more	0.18	0.38	0.18	0.37	0.18	0.35
Married	Married	0.42	0.63	0.47	0.62	0.40	0.55
Employed	Employed for wages or self-employed	0.64	0.69	0.64	0.75	0.48	0.54
Health coverage	Has health insurance	0.74	0.85	0.78	0.89	0.81	0.90
Diabetes	Diagnosed with diabetes	0.03	0.03	0.08	0.08	0.14	0.15
Year 2004	Survey year 2004 (reference)	0.32	0.28	0.25	0.24	0.21	0.19
Year 2005	Survey year 2005	0.33	0.32	0.30	0.29	0.26	0.26
Year 2009	Survey year 2009	0.23	0.28	0.30	0.32	0.35	0.37
Year 2010	Survey year 2010	0.11	0.13	0.15	0.15	0.18	0.19
South Atlantic	Resides in South Atlantic division	0.17	0.15	0.17	0.16	0.17	0.17
E. So. Central	Resides in East South Central division	0.10	0.06	0.10	0.06	0.10	0.07
W. So. Central	Resides in West South Central division	0.09	0.07	0.09	0.07	0.09	0.07
New England	Resides in New England division	0.10	0.14	0.10	0.15	0.10	0.14
Mid. Atlantic	Resides in Middle Atlantic division	0.08	0.09	0.08	0.09	0.08	0.08
E. No. Central	Resides in East North Central division	0.11	0.09	0.11	0.09	0.10	0.09
W. No. Central	Resides in West North Central division	0.13	0.13	0.13	0.13	0.13	0.12
Mountain	Resides in Mountain division	0.11	0.13	0.12	0.12	0.12	0.12
Pacific	Resides Pacific division (ref.)	0.10	0.14	0.10	0.13	0.11	0.13
Sample size		33,933	21,884	41,597	42,150	18,634	32,851

*Note:* Standard deviations in parentheses, minima in brackets, and maxima in braces. Sample means of state dummy variables available online.

Table A2: Variable Definitions and Sample Statistics: Males

<i>Variable</i>	<i>Definition</i>	<i>Age 18–40</i>		<i>Age 41–55</i>		<i>Age 56–64</i>	
		<i>Smokers</i>	<i>Quitters</i>	<i>Smokers</i>	<i>Quitters</i>	<i>Smokers</i>	<i>Quitters</i>
Endogenous variable							
BMI	Body mass index: (weight in kilogram) ÷ (height in meters) <sup>2</sup> = kg/m <sup>2</sup>	26.99 (5.24) [10.36] {68.52}	28.00 (5.16) [10.52] {69.60}	27.55 (5.17) [11.29] {69.02}	29.05 (5.26) [6.43] {69.88}	27.23 (4.97) (10.65) {66.65}	29.07 (5.08) [11.77] {68.17}
Continuous explanatory variables							
Age	Age in years	30.98 (6.16)	32.82 (5.36)	48.39 (4.19)	49.14 (4.20)	59.63 (2.52)	60.06 (2.54)
Income	Annual household income in \$1,000	47.87 (36.83) [5.00] {124.04}	65.53 (41.55) [5.00] {124.04}	50.15 (39.25) [5.00] {124.04}	71.17 (43.07) [5.00] {124.04}	47.47 (38.21) [5.00] {124.04}	66.69 (42.52) [5.00] {124.04}
Adults	Number of adult(s) in household	2.09 (0.90) [1.00] {13.00}	2.00 (0.70) [1.00] {12.00}	1.86 (0.84) [1.00] {9.00}	1.99 (0.79) [1.00] {16.00}	1.76 (0.76) [1.00] {8.00}	1.90 (0.69) [1.00] {10.00}
Children	Number of child(ren) in household	1.12 (1.29) [0.00] {20.00}	1.31 (1.27) [0.00] {13.00}	0.58 (1.00) [0.00] {13.00}	0.72 (1.06) [0.00] {10.00}	0.14 (0.52) [0.00] {12.00}	0.14 (0.51) [0.00] {18.00}
Tax rate	State cigarette tax rate (in \$) per pack of 20 cigarettes	0.97 (0.68) [0.03] {3.46}	1.06 (0.71) [0.03] {3.46}	1.02 (0.71) [0.03] {3.46}	1.11 (0.74) [0.03] {3.46}	1.06 (0.72) [0.03] {3.46}	1.13 (0.74) [0.03] {3.46}
Binary explanatory variables (yes = 1; no = 0)							
Health excellent	Excellent health, self-reported	0.17	0.25	0.11	0.18	0.09	0.16
Health very good	Very good health	0.35	0.40	0.29	0.35	0.24	0.31
Health good	Good health (reference)	0.35	0.28	0.35	0.31	0.34	0.31
Health fair-poor	Fair or poor health	0.13	0.08	0.25	0.15	0.33	0.22
White	Race is white	0.74	0.79	0.79	0.84	0.82	0.87

Other race	Other race	0.18	0.17	0.13	0.11	0.10	0.08
Black	Black (reference)	0.07	0.03	0.09	0.05	0.08	0.05
≤ High school	High school graduate or less	0.56	0.38	0.53	0.39	0.48	0.35
Some college	Some college or technical school (ref.)	0.27	0.29	0.29	0.28	0.29	0.27
College graduate	College graduate or more	0.17	0.34	0.18	0.33	0.23	0.38
Married	Married	0.43	0.65	0.49	0.68	0.52	0.72
Employed	Employed for wages or self-employed	0.79	0.88	0.72	0.82	0.50	0.57
Health coverage	Has health insurance	0.67	0.82	0.76	0.88	0.82	0.91
Diabetes	Diagnosed with diabetes	0.03	0.03	0.08	0.10	0.15	0.18
Year 2004	Survey year 2004 (reference)	0.34	0.28	0.27	0.25	0.21	0.20
Year 2005	Survey year 2005	0.32	0.31	0.31	0.29	0.27	0.26
Year 2009	Survey year 2009	0.23	0.28	0.29	0.31	0.34	0.36
Year 2010	Survey year 2010	0.11	0.13	0.14	0.15	0.18	0.18
South Atlantic	Resides in South Atlantic division	0.17	0.16	0.17	0.16	0.17	0.16
E. So. Central	Resides in East South Central division	0.08	0.06	0.09	0.07	0.08	0.07
W. So. Central	Resides in West South Central division	0.09	0.08	0.08	0.07	0.09	0.08
New England	Resides in New England division	0.10	0.12	0.10	0.13	0.10	0.12
Mid. Atlantic	Resides in Middle Atlantic division	0.08	0.08	0.08	0.08	0.07	0.07
E. No. Central	Resides in East North Central division	0.11	0.09	0.11	0.09	0.10	0.09
W. No. Central	Resides in West North Central division	0.13	0.13	0.14	0.14	0.15	0.14
Mountain	Resides in Mountain division	0.13	0.15	0.12	0.13	0.13	0.14
Pacific	Resides Pacific division (ref.)	0.12	0.14	0.11	0.13	0.11	0.13
Sample size		25,734	17,713	30,258	35,561	14,770	33,915

*Note:* Standard deviations in parentheses, minima in brackets, and maxima in braces. Sample means of state dummy variables available online.

Table A3: Treatment Effect Estimates of Quitting Smoking on BMI: Females (across BMI Categories and with Observed Differences)

<i>Sample</i>	<i>Sample size</i>	<i>Time since quitting smoking</i>						
		<i>&lt; 1 mo.</i>	<i>1 – 3 mos.</i>	<i>3 – 6 mos.</i>	<i>6 mos. – 1 yr.</i>	<i>1 – 5 yrs.</i>	<i>5 – 10 yrs.</i>	<i>≥ 10 yrs.</i>
Females 18–40	55,817	0.62** (0.28)	0.52** (0.25)	1.40*** (0.27)	1.37*** (0.21)	0.87*** (0.10)	0.80*** (0.12)	0.62*** (0.11)
Obs. diff.		0.61* (0.32)	0.33 (0.29)	1.39*** (0.28)	1.26*** (0.22)	0.48*** (0.11)	0.22* (0.13)	–0.12 (0.11)
Normal	26,312	0.60** (0.27)	0.50** (0.25)	1.37*** (0.26)	1.34*** (0.20)	0.85*** (0.10)	0.78*** (0.11)	0.60*** (0.10)
Obs. diff.		0.30** (0.14)	0.12 (0.14)	0.18 (0.13)	0.25** (0.10)	0.21*** (0.05)	0.22*** (0.06)	0.28*** (0.05)
Overweight	15,058	0.62** (0.28)	0.52** (0.25)	1.40*** (0.27)	1.38*** (0.21)	0.87*** (0.10)	0.80*** (0.12)	0.62*** (0.11)
Obs. diff.		–0.15 (0.14)	–0.01 (0.11)	0.10 (0.12)	–0.02 (0.09)	–0.04 (0.04)	0.02 (0.06)	0.00 (0.05)
Obese I	8,142	0.63** (0.29)	0.53** (0.26)	1.44*** (0.28)	1.41*** (0.21)	0.89*** (0.10)	0.82*** (0.12)	0.63*** (0.11)
Obs. diff.		–0.03 (0.18)	0.19 (0.17)	–0.22 (0.16)	0.14 (0.12)	–0.02 (0.06)	0.09 (0.07)	–0.17 (0.07)
Obese II	6,305	0.66** (0.30)	0.55** (0.27)	1.49*** (0.28)	1.46*** (0.22)	0.93*** (0.10)	0.85*** (0.12)	0.66*** (0.11)
Obs. diff.		1.47** (0.70)	1.00 (0.70)	0.46 (0.53)	0.68 (0.43)	0.22 (0.23)	–0.46 (0.30)	0.90*** (0.28)
Obese I & II	14,447	0.64** (0.29)	0.54** (0.26)	1.46*** (0.28)	1.43*** (0.22)	0.91*** (0.10)	0.84*** (0.12)	0.64*** (0.11)
Obs. diff.		0.78 (0.50)	0.56 (0.49)	0.84** (0.41)	1.08*** (0.32)	0.33** (0.17)	–0.16 (0.21)	0.20 (0.20)
Females 41–55	83,747	1.19*** (0.26)	1.25*** (0.25)	1.32*** (0.24)	1.43*** (0.20)	1.96*** (0.10)	2.21*** (0.10)	1.88*** (0.06)

		Obs. diff.	0.62**	0.81***	0.53**	0.91***	1.24***	1.30***	1.24***
			(0.30)	(0.29)	(0.28)	(0.22)	(0.11)	(0.12)	(0.06)
Normal	34,272		1.16***	1.22***	1.28***	1.39***	1.90***	2.15***	1.83***
			(0.25)	(0.25)	(0.24)	(0.20)	(0.10)	(0.10)	(0.06)
		Obs. diff.	-0.09	0.08	-0.20	-0.01	0.28***	0.59***	0.58***
			(0.15)	(0.14)	(0.14)	(0.11)	(0.05)	(0.06)	(0.03)
Overweight	25,522		1.18***	1.25***	1.31***	1.42***	1.95***	2.20***	1.87***
			(0.26)	(0.25)	(0.24)	(0.20)	(0.10)	(0.10)	(0.06)
		Obs. diff.	0.03	0.05	-0.03	0.08	0.15***	0.14***	0.08*
			(0.11)	(0.11)	(0.11)	(0.08)	(0.04)	(0.04)	(0.02)
Obese I	13,443		1.22***	1.28***	1.35***	1.46***	2.01***	2.27***	1.93***
			(0.27)	(0.26)	(0.25)	(0.21)	(0.10)	(0.11)	(0.06)
		Obs. diff.	-0.10	-0.07	0.12	0.12	0.07	0.01	0.07
			(0.16)	(0.14)	(0.13)	(0.11)	(0.05)	(0.06)	(0.03)
Obese II	10,510		1.27***	1.34***	1.41***	1.52***	2.09***	2.37***	2.01***
			(0.28)	(0.27)	(0.26)	(0.22)	(0.11)	(0.11)	(0.06)
		Obs. diff.	2.51***	0.08	0.49	0.29	-0.07	0.11	0.26
			(0.63)	(0.62)	(0.60)	(0.44)	(0.22)	(0.24)	(0.13)
Obese I & II	23,953		1.24***	1.31***	1.38***	1.49***	2.05***	2.31***	1.97***
			(0.27)	(0.27)	(0.26)	(0.21)	(0.10)	(0.11)	(0.06)
		Obs. diff.	0.61	0.30	-0.29	0.17	0.21	0.43**	0.34**
			(0.45)	(0.43)	(0.40)	(0.32)	(0.16)	(0.17)	(0.09)
Females 56-64	51,485		1.12***	1.04***	1.34***	0.88***	1.80***	2.32***	2.69***
			(0.39)	(0.29)	(0.30)	(0.23)	(0.11)	(0.12)	(0.07)
		Obs. diff.	0.96**	0.54	1.05***	0.65**	1.43***	1.71***	1.34***
			(0.41)	(0.36)	(0.35)	(0.27)	(0.13)	(0.14)	(0.06)
Normal	18,846		1.10***	1.02***	1.31***	0.87***	1.75***	2.26***	2.61***
			(0.37)	(0.28)	(0.29)	(0.22)	(0.11)	(0.12)	(0.06)
		Obs. diff.	0.03	0.07	0.15	-0.04	0.34***	0.42***	0.34***
			(0.20)	(0.20)	(0.20)	(0.14)	(0.07)	(0.08)	(0.03)

Overweight	16,744	1.12*** (0.38)	1.03*** (0.29)	1.33*** (0.29)	0.87*** (0.22)	1.79*** (0.11)	2.31*** (0.12)	2.67*** (0.06)
Obs. diff.		-0.23 (0.17)	-0.01 (0.13)	-0.07 (0.13)	-0.04 (0.10)	0.06 (0.05)	0.08 (0.05)	0.02 (0.02)
Obese I	9,360	1.14*** (0.40)	1.05*** (0.30)	1.36*** (0.30)	0.89*** (0.23)	1.84*** (0.12)	2.38*** (0.13)	2.75*** (0.07)
Obs. diff.		0.68*** (0.22)	-0.16 (0.17)	-0.05 (0.19)	0.29* (0.15)	0.06 (0.06)	0.18*** (0.07)	0.03 (0.03)
Obese II	6,535	1.18*** (0.41)	1.08*** (0.31)	1.41*** (0.32)	0.92*** (0.24)	1.90*** (0.12)	2.47*** (0.13)	2.86*** (0.07)
Obs. diff.		0.68 (0.83)	-1.76 (0.92)	-1.40 (0.75)	0.09 (0.61)	0.20 (0.28)	0.44 (0.29)	0.56*** (0.14)
Obese I & II	15,895	1.16*** (0.40)	1.07*** (0.30)	1.38*** (0.31)	0.90*** (0.24)	1.87*** (0.12)	2.41*** (0.13)	2.80*** (0.07)
Obs. diff.		1.57*** (0.60)	-1.28 (0.53)	-0.11 (0.52)	0.76* (0.42)	0.37** (0.19)	0.57*** (0.20)	0.60*** (0.10)

*Note:* Asymptotic standard errors in parentheses. Asterisks indicate levels of significance:

\*\*\*1%, \*\*5%, \*10%.

ATE, Average Treatment Effect.

Normal, BMI < 25; Overweight,  $25 \leq \text{BMI} < 30$ ; Obese I,  $30 \leq \text{BMI} < 35$ ; Obese II,  $\text{BMI} \geq 35$ ; Obese I & II,  $\text{BMI} \geq 30$ .

Table A4: Treatment Effect Estimates of Quitting Smoking on BMI: Males (across BMI Categories and with Observed Differences)

<i>Sample</i>	<i>Sample size</i>	<i>Time since quitting smoking</i>						
		<i>&lt; 1 mo.</i>	<i>1 – 3 mos.</i>	<i>3 – 6 mos.</i>	<i>6 mos. – 1 yr.</i>	<i>1 – 5 yrs.</i>	<i>5 – 10 yrs.</i>	<i>≥ 10 yrs.</i>
Males 18–40	43,447	0.69*** (0.25)	0.95*** (0.23)	0.54*** (0.21)	0.96*** (0.18)	1.13*** (0.09)	1.02*** (0.11)	0.76*** (0.10)
Obs. diff.		0.62** (0.25)	0.81*** (0.25)	0.53** (0.23)	0.91*** (0.19)	1.24*** (0.09)	1.30*** (0.12)	1.24*** (0.10)
Normal	14,639	0.68*** (0.24)	0.94*** (0.23)	0.54*** (0.21)	0.95*** (0.18)	1.12*** (0.09)	1.01*** (0.11)	0.76*** (0.10)
Obs. diff.		−0.09 (0.15)	0.08 (0.16)	−0.20 (0.15)	−0.01 (0.12)	0.28*** (0.06)	0.59*** (0.08)	0.58*** (0.07)
Overweight	18,049	0.68*** (0.25)	0.95*** (0.23)	0.54** (0.21)	0.96*** (0.18)	1.13*** (0.09)	1.01*** (0.11)	0.76*** (0.10)
Obs. diff.		0.03 (0.11)	0.05 (0.11)	−0.03 (0.10)	0.08 (0.08)	0.15*** (0.04)	0.14*** (0.05)	0.08* (0.04)
Obese I	7,291	0.69*** (0.25)	0.96*** (0.24)	0.55** (0.21)	0.97*** (0.18)	1.15*** (0.09)	1.03*** (0.11)	0.77*** (0.10)
Obs. diff.		−0.10 (0.16)	−0.07 (0.16)	0.12 (0.13)	0.12 (0.11)	0.07 (0.06)	0.01 (0.07)	0.07 (0.06)
Obese II	3,468	0.71*** (0.25)	0.98*** (0.24)	0.56*** (0.22)	0.99*** (0.18)	1.17*** (0.10)	1.05*** (0.11)	0.79*** (0.10)
Obs. diff.		2.51*** (0.81)	0.08 (0.73)	0.49 (0.80)	0.29 (0.57)	−0.07 (0.27)	0.11 (0.33)	0.26 (0.31)
Obese I & II	10,759	0.70*** (0.25)	0.97*** (0.24)	0.55*** (0.21)	0.98*** (0.18)	1.15*** (0.09)	1.04*** (0.11)	0.78*** (0.10)
Obs. diff.		0.61 (0.43)	0.30 (0.42)	−0.29 (0.38)	0.17 (0.31)	0.21 (0.15)	0.43** (0.19)	0.34** (0.17)
Males 41–55	65,819	0.46* (0.24)	1.33*** (0.26)	1.20*** (0.22)	1.37*** (0.18)	1.69*** (0.09)	1.84*** (0.09)	1.64*** (0.05)



		Obs. diff.	0.11 (0.27)	1.41*** (0.26)	1.11*** (0.24)	1.49*** (0.19)	1.55*** (0.09)	1.58*** (0.10)	1.27*** (0.05)
Normal	16,251		0.46* (0.24)	1.31*** (0.26)	1.18*** (0.22)	1.35*** (0.18)	1.67*** (0.09)	1.81*** (0.09)	1.62*** (0.05)
		Obs. diff.	0.06 (0.18)	0.03 (0.20)	0.27 (0.18)	0.15 (0.14)	0.35*** (0.07)	0.48*** (0.08)	0.52*** (0.04)
Overweight	29,701		0.46* (0.24)	1.32*** (0.26)	1.19*** (0.22)	1.37*** (0.18)	1.68*** (0.09)	1.83*** (0.09)	1.64*** (0.05)
		Obs. diff.	0.09 (0.10)	0.27** (0.11)	0.22** (0.10)	0.19** (0.08)	0.19*** (0.04)	0.21*** (0.04)	0.11*** (0.02)
Obese I	13,392		0.47* (0.24)	1.34*** (0.27)	1.21*** (0.23)	1.39*** (0.18)	1.71*** (0.09)	1.86*** (0.09)	1.66*** (0.05)
		Obs. diff.	0.08 (0.18)	0.28** (0.14)	-0.07 (0.14)	-0.01 (0.10)	0.06 (0.05)	-0.01 (0.05)	0.04 (0.03)
Obese II	6,475		0.48* (0.25)	1.38*** (0.27)	1.24*** (0.23)	1.42*** (0.19)	1.75*** (0.09)	1.90*** (0.10)	1.70*** (0.06)
		Obs. diff.	-0.44 (0.86)	0.19 (0.67)	-0.14 (0.63)	0.78 (0.50)	0.32 (0.23)	0.27 (0.26)	0.10 (0.14)
Obese I & II	19,867		0.47* (0.25)	1.35*** (0.27)	1.22*** (0.23)	1.40*** (0.18)	1.72*** (0.09)	1.87*** (0.09)	1.68*** (0.06)
		Obs. diff.	0.10 (0.48)	0.57 (0.38)	0.38 (0.37)	0.29 (0.27)	0.39*** (0.13)	0.24* (0.14)	0.30*** (0.08)
Males 56–64	48,685		0.73** (0.35)	0.81*** (0.28)	0.26 (0.29)	1.00*** (0.21)	1.68*** (0.10)	2.00*** (0.11)	2.03*** (0.06)
		Obs. diff.	0.27 (0.36)	0.45 (0.31)	-0.16 (0.31)	0.66*** (0.23)	1.27*** (0.11)	1.65*** (0.11)	1.36*** (0.05)
Normal	11,149		0.71** (0.34)	0.78*** (0.27)	0.24 (0.28)	0.97*** (0.21)	1.64*** (0.10)	1.95*** (0.11)	1.98*** (0.06)
		Obs. diff.	-0.46 (0.24)	0.00 (0.21)	-0.40 (0.21)	-0.01 (0.16)	0.26*** (0.08)	0.31*** (0.09)	0.51*** (0.04)

Overweight	22,235	0.74** (0.34)	0.81*** (0.28)	0.26 (0.28)	1.00*** (0.21)	1.67*** (0.10)	1.99*** (0.11)	2.03*** (0.06)
Obs. diff.		0.06 (0.15)	-0.15 (0.13)	0.15 (0.13)	0.17* (0.10)	0.23*** (0.04)	0.23*** (0.05)	0.13*** (0.02)
Obese I	10,435	0.75** (0.35)	0.82*** (0.28)	0.27 (0.29)	1.02*** (0.22)	1.71*** (0.11)	2.03*** (0.11)	2.07*** (0.06)
Obs. diff.		0.11 (0.22)	0.18 (0.17)	0.07 (0.20)	0.13 (0.14)	0.12* (0.06)	-0.01 (0.06)	0.03 (0.03)
Obese II	4,866	0.76** (0.36)	0.84*** (0.29)	0.26 (0.30)	1.03*** (0.22)	1.74*** (0.11)	2.07*** (0.11)	2.11*** (0.06)
Obs. diff.		-0.35 (0.95)	-1.05 (0.86)	-1.07 (1.00)	0.15 (0.63)	0.15 (0.27)	0.49* (0.28)	0.22 (0.13)
Obese I & II	15,301	0.75** (0.36)	0.83*** (0.29)	0.26 (0.29)	1.02*** (0.22)	1.72*** (0.11)	2.05*** (0.11)	2.08*** (0.06)
Obs. diff.		0.23 (0.55)	-0.27 (0.45)	-0.37 (0.53)	0.17 (0.35)	0.42*** (0.16)	0.34** (0.16)	0.35*** (0.07)

*Note:* Asymptotic standard errors in parentheses. Asterisks indicate levels of significance:

\*\*\*1%, \*\*5%, \*10%.

ATE, Average Treatment Effect.

Normal, BMI < 25; Overweight, 25 ≤ BMI < 30; Obese I, 30 ≤ BMI < 35; Obese II, BMI ≥ 35; Obese I & II, BMI ≥ 30.

Table A5: Marginal Effects of Explanatory Variables on Probability of Quitting and Conditional Levels of BMI: Females

Variable	Age 18–40			Age 41–55			Age 56–64		
	Prob. of Quitting	BMI cond. on		Prob. of Quitting	BMI cond. on		Prob. of Quitting	BMI cond. on	
		Smoking	Quitting		Smoking	Quitting		Smoking	Quitting
Continuous explanatory variables									
Age / 10	0.038*** (0.004)	0.703*** (0.046)	0.715*** (0.048)	0.114*** (0.004)	-0.128*** (0.049)	-0.136*** (0.053)	0.153*** (0.008)	-0.827*** (0.093)	-0.785*** (0.101)
Income / 10	0.014*** (0.001)	-0.187*** (0.014)	-0.197*** (0.014)	0.017*** (0.001)	-0.082*** (0.010)	-0.093*** (0.010)	0.018*** (0.001)	-0.047*** (0.013)	-0.043*** (0.014)
Adults	-0.020*** (0.003)	0.223*** (0.037)	0.235*** (0.038)	-0.018*** (0.002)	0.289*** (0.028)	0.309*** (0.030)	-0.014*** (0.004)	0.257*** (0.043)	0.270*** (0.047)
Childs	0.002 (0.002)	0.004 (0.021)	0.004 (0.021)	0.027*** (0.002)	-0.010 (0.021)	-0.009 (0.022)	-0.012*** (0.004)	0.316*** (0.052)	0.336*** (0.057)
Binary explanatory variables									
Health	0.133*** (0.006)	-2.716*** (0.063)	-2.819*** (0.066)	0.132*** (0.005)	-3.054*** (0.051)	-3.242*** (0.055)	0.082*** (0.006)	-2.769*** (0.062)	-2.948*** (0.067)
Health very	0.055*** (0.005)	-1.253*** (0.059)	-1.304*** (0.061)	0.052*** (0.004)	-1.339*** (0.047)	-1.429*** (0.051)	0.032*** (0.005)	-1.212*** (0.057)	-1.297*** (0.062)
Health fair-poor	-0.030*** (0.007)	0.755*** (0.096)	0.787*** (0.099)	-0.013** (0.005)	0.745*** (0.065)	0.796*** (0.070)	-0.015*** (0.006)	0.580*** (0.073)	0.621*** (0.079)
White	0.032*** (0.008)	-2.606*** (0.110)	-2.699*** (0.114)	0.005 (0.006)	-2.297*** (0.082)	-2.456*** (0.088)	-0.011 (0.008)	-1.552*** (0.102)	-1.700*** (0.111)
Other race	0.057*** (0.010)	-1.600*** (0.116)	-1.661*** (0.120)	0.005 (0.008)	-1.528*** (0.095)	-1.634*** (0.101)	-0.029*** (0.011)	-1.168*** (0.124)	-1.291*** (0.135)
High school	-0.074*** (0.005)	-0.219*** (0.058)	-0.210*** (0.060)	-0.056*** (0.004)	-0.114** (0.046)	-0.121** (0.050)	-0.044*** (0.005)	0.003 (0.058)	-0.027 (0.063)
College or more	0.115*** (0.006)	-0.877*** (0.062)	-0.922*** (0.064)	0.106*** (0.004)	-0.724*** (0.049)	-0.763*** (0.052)	0.086*** (0.005)	-0.699*** (0.060)	-0.691*** (0.065)
Married	0.125*** (0.005)	0.230*** (0.059)	0.212*** (0.062)	0.089*** (0.004)	-0.231*** (0.050)	-0.248*** (0.053)	0.087*** (0.006)	-0.433*** (0.062)	-0.409*** (0.068)
Employed	-0.023*** (0.004)	0.303*** (0.054)	0.318*** (0.056)	0.025*** (0.004)	0.293*** (0.047)	0.313*** (0.050)	0.003 (0.005)	0.055 (0.050)	0.061 (0.054)

Health	0.040*** (0.005)	0.436*** (0.063)	0.441*** (0.065)	0.058*** (0.005)	0.428*** (0.057)	0.453*** (0.061)	0.085*** (0.007)	0.311*** (0.074)	0.384*** (0.081)
Diabetes	0.048*** (0.012)	4.091*** (0.195)	4.216*** (0.201)	0.082*** (0.006)	4.508*** (0.097)	4.834*** (0.103)	0.087*** (0.006)	4.054*** (0.085)	4.508*** (0.092)
Year 2005	0.015*** (0.005)	0.150** (0.059)	0.152** (0.061)	0.009** (0.004)	0.263*** (0.051)	0.281*** (0.055)	0.015** (0.006)	0.156** (0.068)	0.181** (0.074)
Year 2009	0.047*** (0.006)	0.833*** (0.070)	0.851*** (0.073)	0.017*** (0.005)	0.671*** (0.056)	0.718*** (0.060)	0.015** (0.006)	0.439*** (0.071)	0.490*** (0.078)
Year 2010	0.046*** (0.007)	1.059*** (0.089)	1.086*** (0.092)	0.019*** (0.006)	0.664*** (0.067)	0.710*** (0.072)	0.013* (0.007)	0.376*** (0.082)	0.419*** (0.089)
So. Atlantic	-0.086*** (0.008)	0.070*** (0.009)	0.095*** (0.013)	-0.064*** (0.007)	0.119*** (0.013)	0.132*** (0.015)	-0.040*** (0.009)	0.108*** (0.024)	0.092*** (0.021)
E. So. Central	-0.122*** (0.009)	0.099*** (0.011)	0.142*** (0.017)	-0.103*** (0.008)	0.187*** (0.016)	0.217*** (0.020)	-0.065*** (0.011)	0.172*** (0.028)	0.150*** (0.026)
W. So. Central	-0.099*** (0.009)	0.080*** (0.010)	0.112*** (0.014)	-0.102*** (0.008)	0.186*** (0.015)	0.215*** (0.019)	-0.064*** (0.010)	0.169*** (0.026)	0.148*** (0.024)
New England	-0.034*** (0.008)	0.028*** (0.007)	0.037*** (0.009)	-0.001 (0.007)	0.002 (0.013)	0.002 (0.014)	0.011 (0.008)	-0.031 (0.024)	-0.025 (0.019)
Middle Atlantic	-0.078*** (0.008)	0.063*** (0.009)	0.087*** (0.013)	-0.068*** (0.007)	0.125*** (0.014)	0.141*** (0.017)	-0.050*** (0.010)	0.136*** (0.026)	0.117*** (0.023)
E. No. Central	-0.093*** (0.008)	0.075*** (0.009)	0.105*** (0.013)	-0.075*** (0.007)	0.138*** (0.013)	0.155*** (0.016)	-0.038*** (0.009)	0.102*** (0.025)	0.087*** (0.022)
W. No. Central	-0.077*** (0.008)	0.064*** (0.009)	0.082*** (0.012)	-0.069*** (0.007)	0.130*** (0.014)	0.138*** (0.015)	-0.041*** (0.009)	0.112*** (0.025)	0.093*** (0.020)
Mountain	-0.027*** (0.008)	0.022*** (0.007)	0.029*** (0.009)	-0.040*** (0.007)	0.074*** (0.013)	0.082*** (0.015)	-0.026*** (0.009)	0.072*** (0.024)	0.061*** (0.020)

*Note:* Asymptotic standard errors in parentheses. Marginal effects of the numbers of adults and children are calculated as the effects of an increase of one from the observed value for each sample observation, averaged over the sample. Results are very similar to those obtained with differentiation. Asterisks indicate levels of significance:

\*\*\*1%, \*\*5%, \*10%.

Table A6: Marginal Effects of Explanatory Variables on Probability of Quitting and Conditional Levels of BMI: Males

Variable	Age 18–40			Age 41–55			Age 56–64		
	Prob. of Quitting	BMI cond. on		Prob. of Quitting	BMI cond. on		Prob. of Quitting	BMI cond. on	
		Smoking	Quitting		Smoking	Quitting		Smoking	Quitting
Continuous explanatory variables									
Age / 10	0.044*** (0.004)	0.802*** (0.045)	0.818*** (0.046)	0.103*** (0.005)	-0.362*** (0.048)	-0.363*** (0.050)	0.135*** (0.008)	-0.746*** (0.081)	-0.683*** (0.086)
Income / 10	0.010*** (0.001)	0.078*** (0.011)	0.078*** (0.011)	0.015*** (0.001)	0.099*** (0.008)	0.103*** (0.008)	0.017*** (0.001)	0.095*** (0.009)	0.107*** (0.009)
Adults	-0.019*** (0.003)	0.022 (0.033)	0.026 (0.034)	-0.010*** (0.003)	0.146*** (0.026)	0.153*** (0.028)	-0.014*** (0.004)	0.077** (0.037)	0.071* (0.039)
Childs	0.003 (0.002)	0.114*** (0.021)	0.117*** (0.021)	0.014*** (0.002)	-0.030 (0.019)	-0.030 (0.020)	-0.002 (0.004)	-0.082** (0.042)	-0.088** (0.044)
Binary explanatory variables									
Health	0.091*** (0.006)	-1.718*** (0.059)	-1.779*** (0.061)	0.103*** (0.006)	-1.897*** (0.049)	-1.976*** (0.052)	0.086*** (0.006)	-1.770*** (0.056)	-1.799*** (0.059)
Health very	0.038*** (0.005)	-0.959*** (0.054)	-0.993*** (0.056)	0.041*** (0.005)	-0.957*** (0.042)	-1.003*** (0.044)	0.038*** (0.005)	-0.781*** (0.048)	-0.798*** (0.051)
Health fair-poor	-0.019** (0.008)	0.522*** (0.098)	0.540*** (0.101)	-0.019*** (0.006)	0.509*** (0.064)	0.535*** (0.067)	-0.027*** (0.006)	0.351*** (0.062)	0.352*** (0.066)
White	0.083*** (0.010)	-0.694*** (0.109)	-0.731*** (0.113)	0.040*** (0.008)	-0.302*** (0.082)	-0.314*** (0.087)	0.032*** (0.009)	0.295*** (0.096)	0.336*** (0.102)
Other race	0.093*** (0.012)	-0.070 (0.119)	-0.081 (0.123)	0.038*** (0.009)	-0.263*** (0.097)	-0.270*** (0.102)	0.021** (0.010)	0.208* (0.122)	0.238* (0.130)
High school	-0.066*** (0.006)	-0.142** (0.055)	-0.136** (0.057)	-0.026*** (0.005)	-0.035 (0.044)	-0.040 (0.047)	-0.019*** (0.005)	0.011 (0.052)	-0.002 (0.055)
College or more	0.094*** (0.007)	-0.625*** (0.061)	-0.654*** (0.063)	0.084*** (0.005)	-0.581*** (0.047)	-0.596*** (0.050)	0.059*** (0.005)	-0.528*** (0.052)	-0.512*** (0.055)
Married	0.138*** (0.006)	0.476*** (0.056)	0.469*** (0.057)	0.125*** (0.005)	0.379*** (0.048)	0.412*** (0.050)	0.124*** (0.006)	0.228*** (0.058)	0.322*** (0.061)
Employed	0.031*** (0.007)	-0.200*** (0.071)	-0.212*** (0.073)	0.022*** (0.005)	-0.192*** (0.057)	-0.199*** (0.060)	0.000 (0.005)	-0.202*** (0.045)	-0.214*** (0.048)

Health	0.051*** (0.006)	0.402*** (0.058)	0.405*** (0.060)	0.064*** (0.005)	0.288*** (0.054)	0.308*** (0.057)	0.054*** (0.007)	0.274*** (0.068)	0.326*** (0.072)
Diabetes	0.048*** (0.015)	2.746*** (0.212)	2.822*** (0.218)	0.097*** (0.006)	3.248*** (0.085)	3.455*** (0.090)	0.085*** (0.005)	2.895*** (0.067)	3.154*** (0.070)
Year 2005	0.024*** (0.006)	0.032 (0.056)	0.030 (0.057)	0.002 (0.005)	0.191*** (0.047)	0.202*** (0.050)	-0.007 (0.006)	0.121** (0.058)	0.123** (0.061)
Year 2009	0.061*** (0.007)	0.455*** (0.066)	0.461*** (0.068)	0.025*** (0.005)	0.412*** (0.053)	0.439*** (0.056)	-0.003 (0.006)	0.221*** (0.062)	0.232*** (0.066)
Year 2010	0.052*** (0.008)	0.510*** (0.083)	0.519*** (0.086)	0.032*** (0.006)	0.557*** (0.064)	0.593*** (0.068)	-0.005 (0.007)	0.161** (0.071)	0.167** (0.075)
So. Atlantic	-0.067*** (0.009)	0.052*** (0.008)	0.067*** (0.011)	-0.059*** (0.008)	0.094*** (0.013)	0.094*** (0.013)			
E. So. Central	-0.094*** (0.011)	0.072*** (0.010)	0.096*** (0.015)	-0.067*** (0.010)	0.105*** (0.015)	0.107*** (0.017)			
W. So. Central	-0.077*** (0.010)	0.059*** (0.009)	0.077*** (0.012)	-0.065*** (0.009)	0.102*** (0.014)	0.104*** (0.015)			
New England	-0.042*** (0.009)	0.033*** (0.007)	0.041*** (0.010)	-0.016** (0.008)	0.026** (0.012)	0.025** (0.012)			
Middle Atlantic	-0.081*** (0.010)	0.062*** (0.009)	0.082*** (0.013)	-0.046*** (0.009)	0.073*** (0.014)	0.073*** (0.014)			
E. No. Central	-0.084*** (0.009)	0.065*** (0.009)	0.085*** (0.012)	-0.071*** (0.008)	0.112*** (0.013)	0.114*** (0.014)			
W. No. Central	-0.060*** (0.010)	0.047*** (0.008)	0.057*** (0.010)	-0.056*** (0.008)	0.090*** (0.013)	0.087*** (0.013)			
Mountain	-0.016* (0.009)	0.013* (0.007)	0.016* (0.009)	-0.024*** (0.008)	0.039*** (0.012)	0.038*** (0.013)			

*Note:* Asymptotic standard errors in parentheses. Marginal effects of the numbers of adults and children are calculated as the effects of an increase of one from the observed value for each sample observation, averaged over the sample. Results are very similar to those obtained with differentiation. Asterisks indicate levels of significance:

\*\*\*1%, \*\*5%, \*10%.

Figure A1: Effects of Quitting Smoking on BMI across BMI Categories: Females 18–40

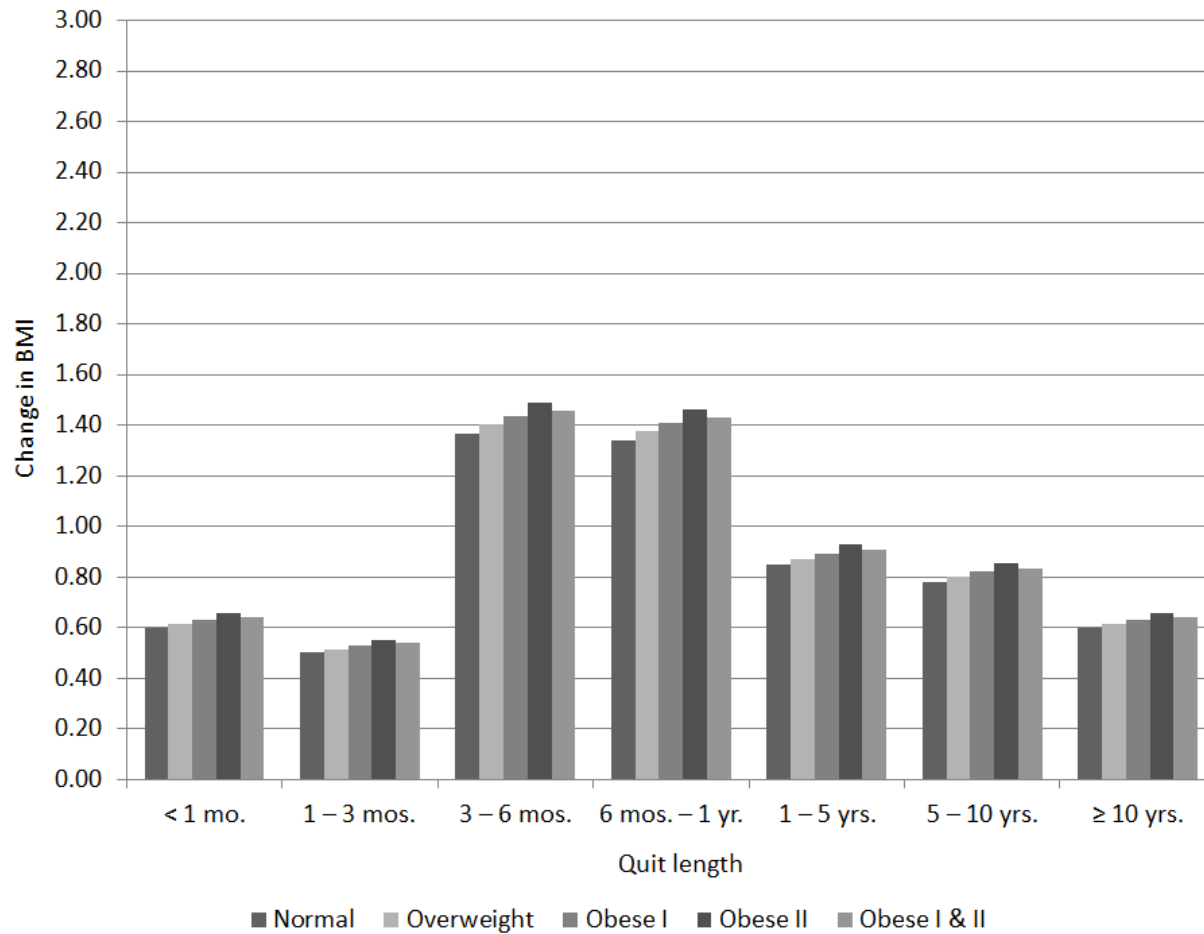


Figure A2: Effects of Quitting Smoking on BMI across BMI Categories: Females 41–55

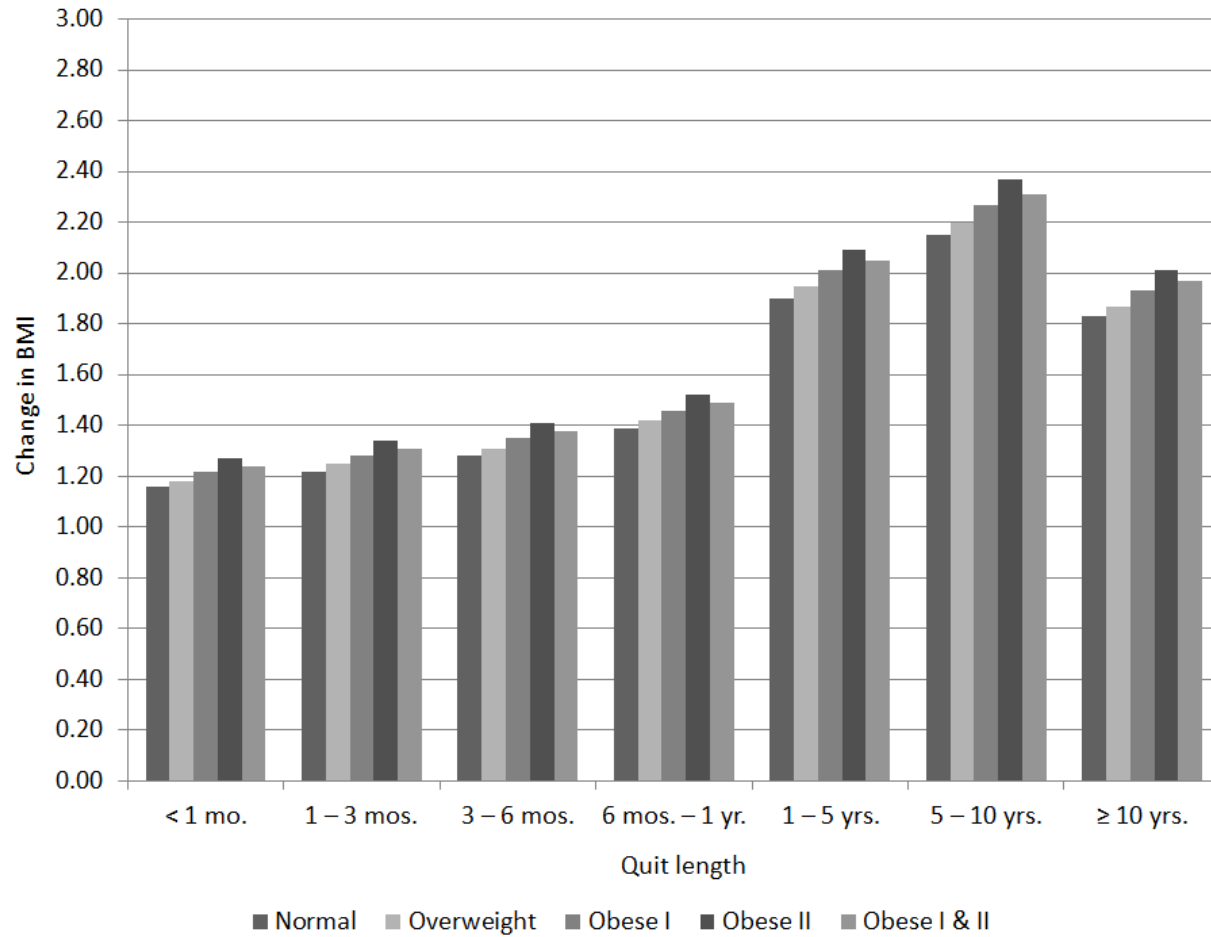




Figure A3: Effects of Quitting Smoking on BMI across BMI Categories: Females 56–64

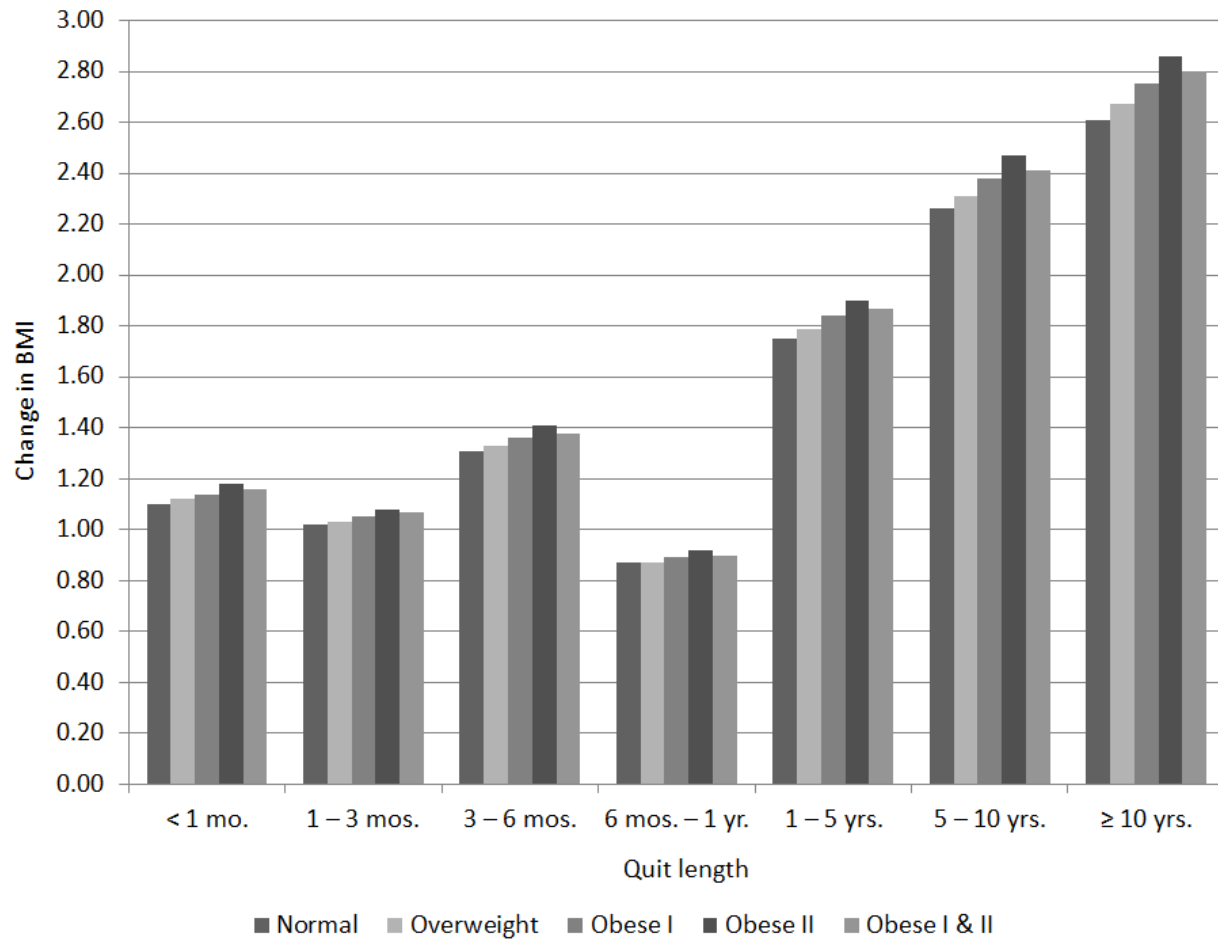


Figure A4: Effects of Quitting Smoking on BMI across BMI Categories: Males 18–40

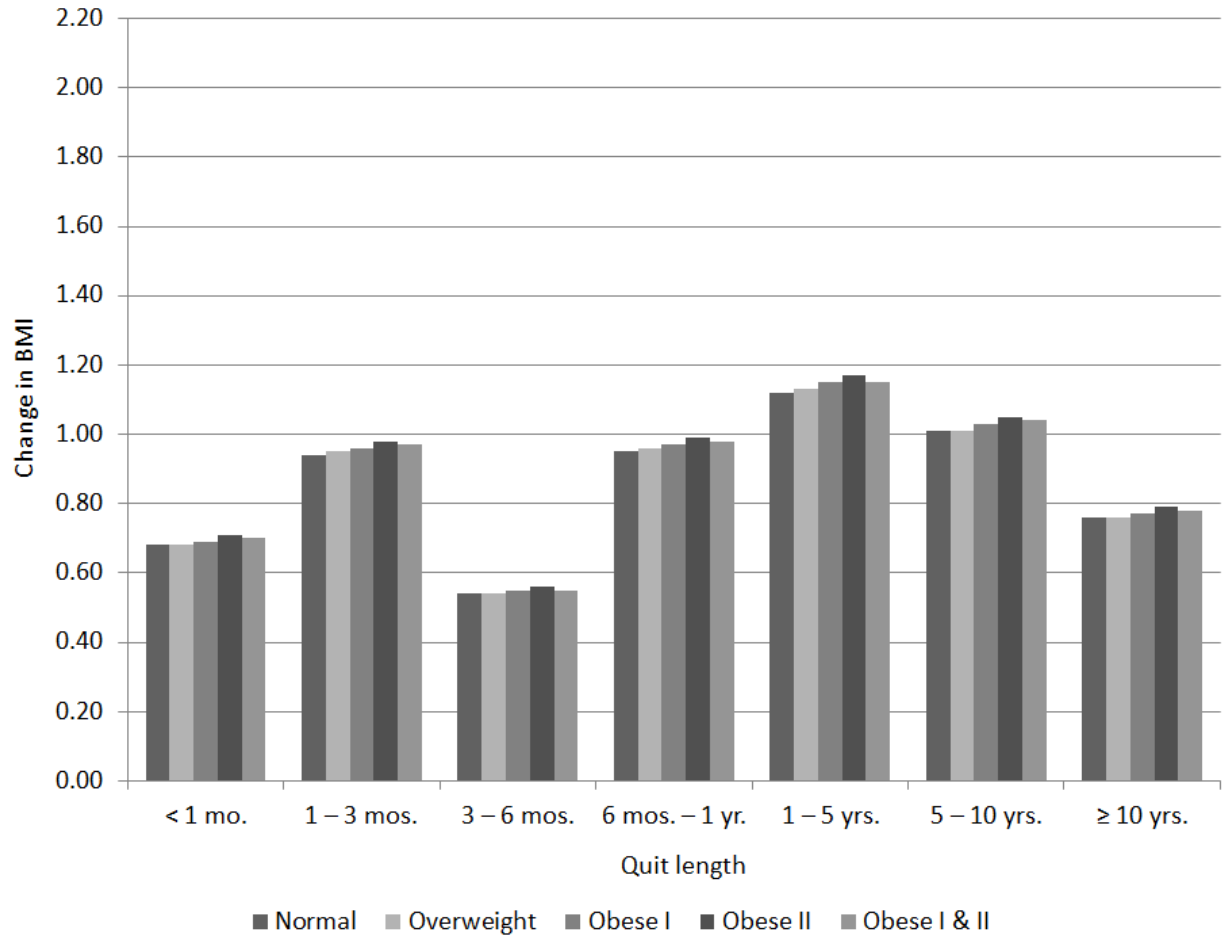


Figure A5: Effects of Quitting Smoking on BMI across BMI Categories: Males 41–55

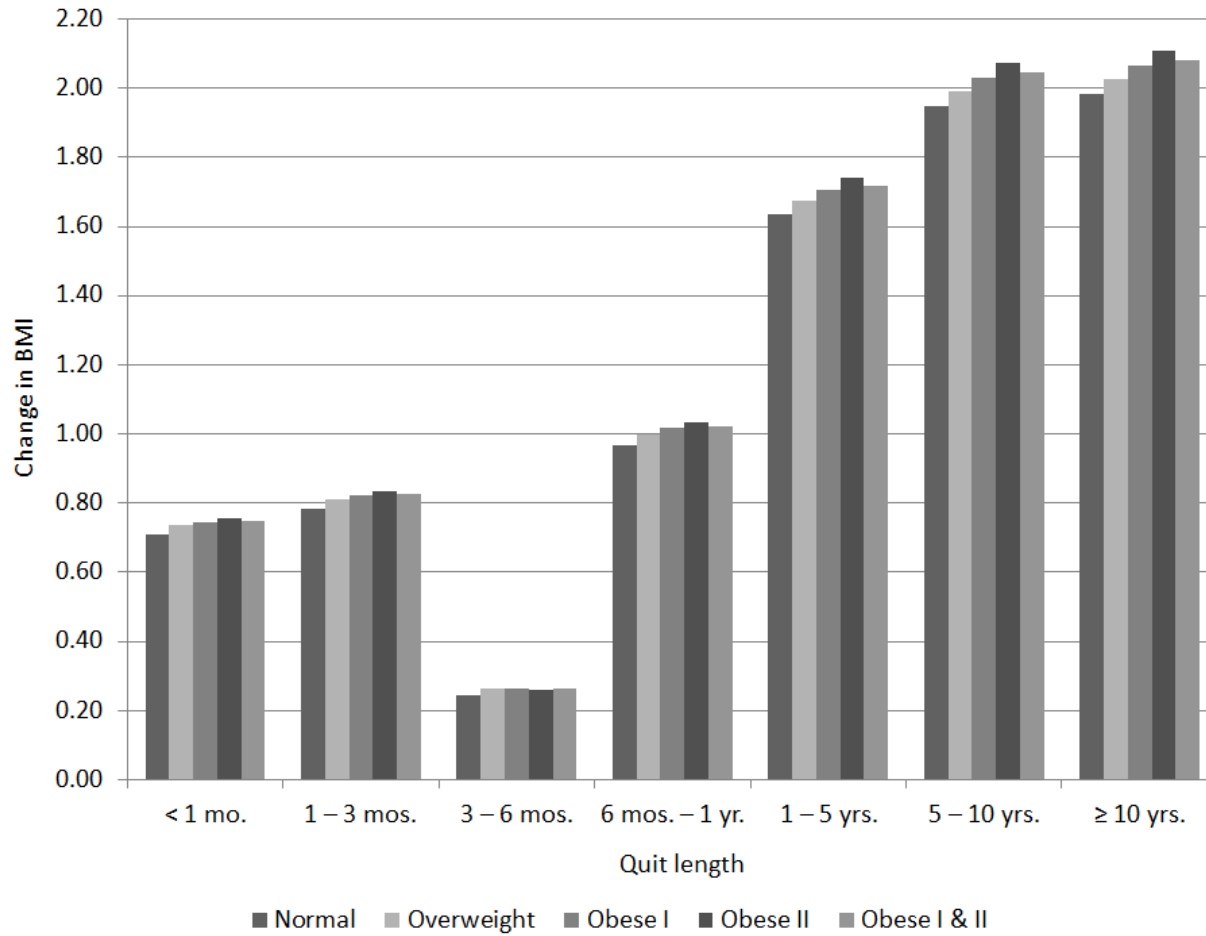


Figure A6: Effects of Quitting Smoking on BMI across BMI Categories: Males 56–64

