Appendix Softening Among U.S. Smokers With Psychological Distress: More Quit Attempts and Lower Consumption as Smoking Drops Kulik and Glantz

Year	Adult	AdultTotal sample (574,690)			Current smokers (118,604)			
	sample,	No	Moderate	Serious	No	Moderate	Serious	
	n	psychological	distress	distress	psychological	distress	distress	
		distress			distress			
1997	36,116	28,054	6,159	1,409	6,267	1,948	591	
1998	32,440	25,552	5,229	1,130	5,466	1,700	463	
1999	30,801	25,193	4,244	867	5,399	1,334	367	
2000	32,374	26,141	4,666	991	5,407	1,519	395	
2001	33,326	25,357	5,861	1,179	5,174	1,847	467	
2002	31,044	24,980	4,357	1,024	4,995	1,360	460	
2003	30,852	24,350	4,703	1,101	4,630	1,433	465	
2004	31,326	24,744	4,842	1,112	4,566	1,396	469	
2005	31,428	24,943	4,852	1,084	4,608	1,372	451	
2006	24,275	19,426	3,572	781	3,426	1,045	324	
2007	23,393	19,101	3,205	671	3,129	936	258	
2008	21,781	17,214	3,528	752	2,962	1,058	320	
2009	27,731	21,932	4,554	956	3,747	1,357	423	
2010	27,157	21,274	4,610	1,023	3,463	1,259	394	
2011	33,014	26,183	5,300	1,252	4,168	1,510	519	
2012	34,525	28,101	5,024	1,181	4,479	1,450	475	
2013	34,557	25,947	5,927	1,406	3,965	1,470	552	
2014	36,697	28,275	5,866	1,249	4,243	1,480	464	
2015	33,672	25,266	5,772	1,218	3,360	1,334	485	
Total	586,509	462,033	92,271	20,386	83,454	26,808	8,342	

Appendix Table 1. Data Characteristics: NHIS 1997–2015

NHIS, National Health Interview Survey

Appendix Softening Among U.S. Smokers With Psychological Distress: More Quit Attempts and Lower Consumption as Smoking Drops Kulik and Glantz

Covariates and model fit	No psychological distress		Moderate psychological distress		Serious psychological distress	
_	Unadjusted	Adjusted	Unadjusted	Adjusted	Unadjusted	Adjusted
Time (per 10 years) ^a	0.72 (0.71, 0.74)**	0.80 (0.78, 0.82)**	0.81 (0.78, 0.84)**	0.90 (0.87, 0.94)**	0.92 (0.86, 0.98)**	0.97 (0.90, 1.04)
Gender						
Male		1		1		1
Female		0.77 (0.75, 0.79)**		0.85 (0.81, 0.88)**		0.82 (0.75, 0.89)**
Age		0.98 (0.98, 0.99)**		0.98 (0.97, 0.98)**		0.97 (0.97, 0.97)**
Marital status						
Married/Living with partner		1		1		1
Never married		0.96 (0.93, 0.99)**		0.92 (0.87, 0.97)**		0.86 (0.76, 0.96)**
Widowed/Divorced/ Separated		1.72 (1.68, 1.76)**		1.57 (1.50, 1.65)**		1.55 (1.41, 1.70)**
Alcohol use						
Current drinker		1		1		1
Former drinker		0.76 (0.74, 0.79)**		0.79 (0.74, 0.83)**		0.78 (0.71, 0.86)**
Lifetime abstainer		0.25 (0.24, 0.26)**		0.24 (0.23, 0.26)**		0.29 (0.26, 0.33)**
Educational level						
0–11 years/12 years without diploma		1		1		1
HS diploma/GED or equivalent		0.74 (0.72, 0.76)**		0.75 (0.71, 0.80)**		0.82 (0.74, 0.91)*
Some college/AA degree		0.45 (0.44, 0.47)**		0.49 (0.46, 0.52)**		0.52 (0.47, 0.58)*
BA degree and higher		0.17 (0.17, 0.18)**		0.20 (0.19, 0.22)**		0.26 (0.22, 0.30)**
Race/Ethnicity						
Non-Hispanic white		1		1		1
Non-Hispanic black		0.86 (0.83, 0.89)**		0.77 (0.73, 0.82)**		0.77 (0.69, 0.86)*
Hispanic		0.43 (0.42, 0.45)**		0.38 (0.35, 0.40)**		0.37 (0.33, 0.42)*
Non-Hispanic all other race groups		0.86 (0.81, 0.91)**		0.76 (0.68, 0.86)**		0.63 (0.49, 0.79)*
Constant	0.22 (0.22, 0.22)	1.96 (1.87, 2.06)**	0.42 (0.41, 0.43)	3.32 (3.03, 3.64)**	0.73 (0.70, 0.76)	7.24 (6.01, 8.72)**
Model fit <i>p</i> -value	<i>p</i> <0.01	<i>p</i> <0.01	<i>p</i> <0.01	<i>p</i> <0.01	<i>p</i> <0.01	<i>p</i> <0.01

Notes: Boldface indicates statistical significance (**p*<0.05; ***p*<0.01).

^a Year centered on 2006 (-9 to 9), and divided by 10.

HS, High School; GED, General Educational Development (High School Equivalency); AA, Associate; BA, Bachelor

Appendix Softening Among U.S. Smokers With Psychological Distress: More Quit Attempts and Lower Consumption as Smoking Drops Kulik and Glantz

Covariates and model fit	Smoking prevalence/Current smoker	Proportion with at least one quit	Consumption cigarettes/day (Linear regression)	
	(Logistic regression)	attempt in past 12 months		
		(Logistic regression)		
Time (per 10 years) ^a	0.80 (0.78, 0.82)**	1.13 (1.09, 1.17)**	-2.78 (-2.93, -2.63)**	
Psychological distress status: Kessler 6 scale				
No distress (0–4 points)	1	1	1	
Moderate psychological distress (5-12 points)	1.65 (1.61, 1.69)**	1.39 (1.34, 1.44)**	1.36 (1.19, 1.54)**	
Serious psychological distress (13-24 points)	2.78 (2.67, 2.90)**	1.44 (1.35, 1.53)**	3.71 (3.38, 4.04)**	
Interaction of K-6 level and time				
No distress * time	1	1	1	
Moderate psychological distress * time	1.12 (1.08, 1.17)**	1.01 (0.95, 1.08)	-0.37 (-0.67, -0.07)*	
Serious psychological distress * time	1.20 (1.12, 1.28)**	0.99 (0.90, 1.10)	-0.54 (-1.14, 0.06)	
Gender				
Male	1	1	1	
Female	0.78 (0.77, 0.80)**	1.08 (1.05, 1.12)**	-2.96 (-3.10, -2.82)**	
Age	0.98 (0.98, 0.98)**	0.99 (0.99, 0.99)**	0.09 (0.08, 0.10)**	
Marital status				
Married/Living with partner	1	1	1	
Never married	0.94 (0.92, 0.97)**	0.93 (0.89, 0.97)**	-1.34 (-1.50, -1.17)**	
Widowed/Divorced/Separated	1.68 (1.64, 1.71)**	1.01 (0.97, 1.05)	0.16 (-0.01, 0.34)	
Alcohol use				
Current drinker	1	1	1	
Former drinker	0.77 (0.75, 0.79)**	1.00 (0.96, 1.04)	1.10 (0.89, 1.31)**	
Lifetime abstainer	0.25 (0.24, 0.26)**	0.86 (0.81, 0.91)**	-0.13 (-0.38, 0.12)	
Educational level				
0-11 years/12 years without diploma	1	1	1	
HS diploma/GED or equivalent	0.75 (0.73, -0.77)**	1.05 (1.01, 1.10)*	-0.87 (-1.07, -0.67)**	
Some college/AA degree	0.46 (0.45, 0.48)**	1.30 (1.24, 1.36)**	-2.11 (-2.32, -1.91)**	
BA degree and higher	0.18 (0.18, 0.19)**	1.29 (1.22, 1.36)**	-4.86 (-5.11, -4.62)**	
Race/Ethnicity				
Non-Hispanic white	1	1	1	
Non-Hispanic black	0.84 (0.81, 0.86)**	1.33 (1.27, 1.40)**	-5.36 (-5.54, -5.11)**	
Hispanic	0.42 (0.41, 0.43)**	1.16 (1.10, 1.22)**	-7.82 (-8.03, -7.61)**	
Non-Hispanic all other race groups	0.83 (0.79, 0.87)**	1.16 (1.06, 1.26)**	-4.39 (-4.74, -4.03)**	
Constant	1.99 (1.91, 2.07)**	1.09 (1.02, 1.17)*	14.36 (14.04, 14.68)**	
Model fit R ²			0.17	
Model fit <i>p</i> -value	<i>p</i> <0.01	<i>p</i> <0.01	p<0.01	

Notes: Boldface indicates statistical significance (**p*<0.05; ***p*<0.01).

^a Year centered on 2006 (–9 to 9), and divided by 10.

HS, High School; GED, General Educational Development (High School Equivalency); AA, Associate; BA, Bachelor