

**Differential trends in cigarette smoking in the United States:  
Is menthol slowing progress?**

**SUPPLEMENTARY APPENDIX**

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## **MEASURES**

### **Demographics**

Age, gender and race/ethnicity were collected as part of NSDUH's core demographics. To assess age, respondents provided their date of birth, which they are asked to confirm prior to confirming the age on the date of the interview calculated by the computer program.

Respondents aged 12 and older are eligible to respond to the remainder of the survey. In line with the categories used by NSDUH to weight the data, we refer to persons aged 12-17 years old as adolescents, 18-25 years old as young adults, and 26 years and older as adults. NSDUH interviewers record the respondent's gender as male or female. To assess ethnicity, respondents were asked whether they were of "Hispanic, Latino or Spanish origin of descent." To assess race, respondents were asked to identify "Which of these groups describes you?" with the opportunity to select more than one of the following response choices "White," "Black/African American," "American Indian or Alaska Native (American Indian includes North American, Central American, And South American Indians)," "Native Hawaiian," "Other Pacific Islander," "Asian (for example, Asian Indian, Chinese, Filipino, Japanese, Korean, Vietnamese)" and "Other (specify)." We coded race/ethnicity categories as "Non-Hispanic Caucasian," "Non-Hispanic Black," "Non-Hispanic Other," "Non-Hispanic Asian," "Non-Hispanic more than one race," and "Hispanic." These categories are mutually exclusive. The "Non-Hispanic Other" group included respondents identifying as "American Indian or Alaska Native," "Native Hawaiian," "Other Pacific Islander," and "Other." Due to small cell sizes, we restrict some of our analyses to the three largest racial/ethnic groups: Non-Hispanic Caucasians, Non-Hispanic Blacks, and Hispanics.

Household income was assessed as part of NSDUH's back-end demographics. Respondents were asked whether the total combined family income in the previous year was "\$20,000 or more" or "less than \$20,000." For those answering "less than \$20,000," respondents were then asked to enter the number that best represented the total combined family income as "less than \$1,000 (including loss)," followed by \$1,000 increments from "\$1,000-\$1,999," to "\$19,000 - \$19,999." Respondents reporting a total combined family income of "\$20,000 or more" were asked to enter the number that best represented the income in \$5,000 increments from "\$20,000-\$24,999" to "40,000-\$49,999," then "\$50,000-\$74,999," "75,000-\$99,999," and "\$100,000 or more." Based on responses to these three questions, we categorized household income according to tertiles (lower, middle, and higher). Cutoffs for the tertiles were less than \$10,000 (including loss) to \$19,999 (lower), \$20,000 - \$49,999 (middle) and \$50,000 and more (higher).

### **Assessment of smoking and menthol cigarette use**

Current cigarette smoking in the NSDUH was assessed by asking respondents who had ever smoked whether they smoked part or all of a cigarette in the previous 30 days.<sup>1</sup> Those who responded affirmatively were subsequently asked to estimate the number of days they smoked part or all of a cigarette in the past 30 days. Respondents who did not provide a number between 1 and 30 were then asked to provide their best estimate of the number of days they smoked part or all of a cigarette in the past 30 days with response choices "1 or 2 days," "3 to 5 days," "6 to 9 days," "10 to 19 days," "20 to 29 days," and "all 30 days." Using these two variables, we classified number of days smoked per month as "1-5 days," "6-29 days," and "30 days."

Current cigarette smokers were also asked to report the brand of cigarettes they smoked most often and presented with a screen with 25 (26 in 2004 only) of the leading selling brands (e.g., Camel, Kool, Marlboro, Newport, Salem), as well as a category of “A brand not on this list.” If the respondent answered “A brand not on this list” then s/he was presented with another screen showing 32 (34 in 2004 only) less commonly sold brands (e.g., Lucky Strike, Old Gold), as well as the category “A brand not on this list”.

If the respondent once again responded “A brand not on this list,” then s/he was asked to type in the name of the brand of cigarettes smoked most often. Brands that were typed in included 305s, Bronco, Gold Coast, and Seneca. Smokers who provided a brand name during either of the first two brand-related questions (i.e., on the first or second screen), were asked to verify the name of the cigarette brand they smoked most often during the previous 30 days. If the brand initially recorded was not verified, then the respondent was cycled through the brand questions again. In each year of the study period, the percentage of NSDUH smokers who selected and verified a brand from those listed on one of the two screens ranged from 94.6% to 96.4%.

Smokers who usually smoked a brand from either of the first two screens were also asked, “Were the [CIGFILL] cigarettes you smoked during the past 30 days menthol?” (Note: “[CIGFILL]” is replaced by the computer with the name of the brand the respondent previously reported and verified as having smoked most often). Response categories included “Yes” and “No.” If the respondent was one of the <5% of smokers who did not usually smoke one of the 57 brands (60 in 2004) listed on the two screens, then that respondent was asked, “Were the cigarettes you smoked during the past 30 days menthol?”

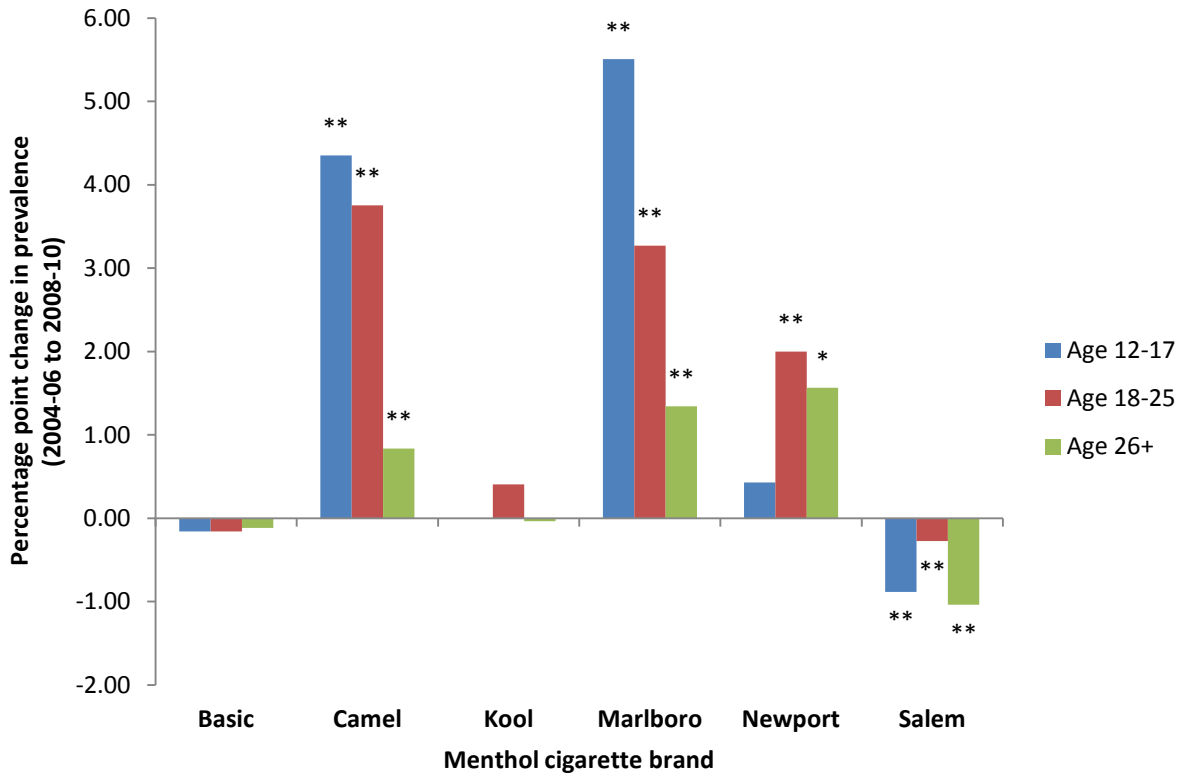
Initially in our analyses and in previous work,<sup>2</sup> menthol use was classified based exclusively on self-reported responses to the menthol-related questions. However, we observed that some respondents who smoked brands that were sold exclusively (at least 99%, including Newport and Salem) as mentholated varieties in many cases (see Tables S1 and S2) reported smoking non-mentholated varieties. Similarly, some smokers of exclusively non-mentholated brands (e.g., Lucky Strike, Old Gold, Winston) listed their brand as menthol. We used sales data<sup>3</sup> to classify brands. Sales data were obtained for 2008 for grocery, drug, and merchandize stores and for 2009 for those types of stores and convenience stores as well.

If a respondent reported usually smoking Newport and also reported on the menthol question that the usual brand was non-menthol, the respondent’s response to the menthol variable question was recoded as menthol. Similar adjustment was made for exclusively non-mentholated brands Lorillard introduced Newport Regular (i.e., non-menthol) in November 2010.<sup>4</sup> According to 2010 A.C. Nielsen data from grocery, drug, and merchandize stores and from convenience stores, we estimated that about 1% of Newport sales were for Newport Regular in 2010 (Cristine Delnevo, personal communication, March 17, 2013 and Jidong Huang, personal communication, March 18, 2013). As a result, we continued to re-classify Newport as menthol in 2010.

Brands with fewer than 30 observations were not reclassified. These included menthol brands Alpine, Sampoerna, and Signature and non-menthol brands Cherokee, Du Maurier, Echo and Zig Zag.

## SUPPLEMENTARY FIGURES

**Figure S1. Percentage point change in prevalence of smoking various mentholated cigarette brands among past 30-day smokers by age -- United States, 2004-2006 to 2008-2010.**



\*  $p < 0.05$ , \*\* $p < 0.001$  for difference in prevalence between 2004-2006 and 2008-2010

Source: National Survey on Drug Use and Health. Self-reported menthol status for Kool, Newport, and Salem was adjusted if necessary using retail checkout scanner data. NOTE: Age 12-17 years are represented by blue bars; age 18-25 years are represented by red bars; age 26+ years are represented by green bars. Sample size = 84,457; 43,616 for 2004-2006 and 40,841 for 2008-2010.

## SUPPLEMENTARY TABLES

**Table S1. Percentage of respondents reporting that their usual brand was mentholated for brands that were re-classified as 100% menthol based on AC Nielsen data, by brand and age -- United States, 2004-2006 and 2008-2010.**

Usual brand/age	2004-2006			2008-2010		
	Unweighted n	% Menthol (Unweighted)	% Menthol (Weighted)	Unweighted n	% Menthol (Unweighted)	% Menthol (Weighted)
<b>Kool</b>	1181	94.75	96.38	1078	96.20	97.88
12-17 yrs	171	88.30	89.89	142	85.92	79.43
18-25 yrs	501	95.01	94.64	514	97.67	97.47
26+ yrs	509	96.66	97.03	422	97.87	98.71
<b>Newport</b>	7022	93.93	95.84	7359	93.56	96.11
12-17 yrs	1425	86.95	86.37	1215	83.79	84.74
18-25 yrs	3941	94.82	94.91	4132	93.97	93.14
26+ yrs	1656	97.83	97.80	2012	98.61	98.68
<b>Salem</b>	486	93.62	95.56	233	95.28	96.40
12-17 yrs	67	89.55	88.11	7	71.43	54.64
18-25 yrs	93	87.10	88.04	48	87.50	91.76
26+ yrs	326	96.32	96.12	178	98.31	96.82

Source: National Survey on Drug Use and Health

**Table S2. Percentage of respondents reporting that their usual brand was not mentholated for brands that were reclassified as 100% non-menthol based on AC Nielsen data, by brand and age -- United States, 2004-2006 and 2008-2010.**

Usual brand/age	2004-2006			2008-2010		
	Unweighted n	% Non-Menthol (Unweighted)	% Non-Menthol (Weighted)	Unweighted n	% Non-Menthol (Unweighted)	% Non-Menthol (Weighted)
<b>Kent</b>	30	80.00	82.22	26	84.62	92.04
12-17 yrs	2	50.00	56.26	0	0.00	0.00
18-25 yrs	5	100.00	100.00	4	75.00	80.23
26+ yrs	23	78.26	81.71	22	86.36	92.36
<b>Lucky Strike</b>	41	95.12	95.53	26	96.15	95.13
12-17 yrs	8	87.50	96.88	1	100.00	100.00
18-25 yrs	25	100.00	100.00	13	100.00	100.00
26+ yrs	8	87.50	92.62	12	91.67	94.16
<b>Old Gold</b>	72	95.83	98.79	59	89.83	94.41
12-17 yrs	8	87.50	72.80	2	100.00	100.00
18-25 yrs	19	89.47	94.59	29	79.31	62.19
26+ yrs	45	100.00	100.00	28	100.00	100.00
<b>Viceroy</b>	50	100.00	100.00	6	83.33	92.07
12-17 yrs	3	100.00	100.00	1	0.00	0.00
18-25 yrs	6	100.00	100.00	0	0.00	0.00
26+ yrs	41	100.00	100.00	5	100.00	100.00
<b>Winston</b>	542	95.57	95.62	371	94.88	97.53
12-17 yrs	30	70.00	68.34	22	72.73	79.40
18-25 yrs	103	96.12	97.25	56	91.07	89.46
26+ yrs	409	97.31	95.78	293	97.27	97.94

Source: National Survey on Drug Use and Health

**Table S3. Prevalence of cigarette smoking (%) by type of cigarette smoked, age, gender, and race/ethnicity -- United States, 2004-2010.**

	Type of cigarette smoked	2004		2005		2006		2007		2008		2009		2010	
		%	95% CI	%	95% CI	%	95% CI	%	95% CI	%	95% CI	%	95% CI	%	95% CI
<b>12-17 years</b>															
<i>Overall</i>	Menthol	5.3	4.82,5.75	4.8	4.25,5.32	4.8	4.43,5.19	4.9	4.45,5.4	4.6	4.14,5.00	5.0	4.51,5.42	4.5	4.13,4.96
	Non-menthol	6.0	5.52,6.49	5.5	4.96,5.95	5.3	4.81,5.71	4.5	4.20,4.89	3.9	3.53,4.23	3.5	3.10,3.80	3.4	3.01,3.81
<i>Gender</i>															
Male	Menthol	4.6	4.09,5.18	4.3	3.71,4.92	4.3	3.69,4.96	4.8	4.24,5.42	4.4	3.80,4.94	4.8	4.19,5.40	4.4	3.92,4.92
	Non-menthol	6.2	5.48,6.85	5.7	4.98,6.47	5.4	4.63,6.10	4.9	4.33,5.42	4.0	3.47,4.44	3.9	3.38,4.44	3.8	3.23,4.38
Female	Menthol	6.0	5.32,6.62	5.3	4.50,6.06	5.3	4.85,5.78	5.0	4.45,5.60	4.8	4.25,5.30	5.1	4.43,5.86	4.7	3.97,5.38
	Non-menthol	5.8	5.26,6.41	5.2	4.53,5.80	5.1	4.58,5.72	4.2	3.76,4.66	3.8	3.24,4.37	3.0	2.61,3.36	3.0	2.53,3.46
<i>Race/Ethnicity</i>															
Non Hispanic Caucasian	Menthol	5.8	5.20,6.44	4.8	4.23,5.28	4.9	4.36,5.38	5.5	4.93,6.09	4.8	4.19,5.36	5.2	4.68,5.69	5.1	4.60,5.70
	Non-menthol	8.1	7.29,8.88	7.5	6.86,8.24	7.2	6.58,7.84	6.3	5.79,6.90	5.2	4.65,5.65	5.0	4.41,5.51	4.2	3.64,4.78
Non Hispanic Black	Menthol	5.3	4.20,6.34	6.1	4.69,7.53	5.7	4.39,6.97	5.8	4.44,7.11	4.9	3.80,5.92	4.8	3.67,5.95	4.2	3.12,5.18
	Non-menthol	0.5	0.14,0.79	0.5	0.05,0.93	0.1	0.00,0.13	0.3	0.03,0.65	0.2	0.02,0.48	0.2	0.03,0.34	0.3	0.05,0.58
Hispanic	Menthol	3.7	2.77,4.65	4.3	3.27,5.37	4.2	3.55,4.77	3.1	2.34,3.89	3.8	2.91,4.75	4.6	3.40,5.77	3.8	2.92,4.63
	Non-menthol	4.4	3.07,5.64	3.4	2.56,4.21	3.5	2.78,4.32	2.8	1.95,3.73	3.1	1.99,4.23	2.2	1.47,2.95	3.4	2.56,4.31
<b>18-25 years</b>															
<i>Overall</i>	Menthol	14.0	13.18,14.76	13.7	12.97,14.36	14.1	13.43,14.76	14.2	13.45,14.97	14.6	13.79,15.48	15.9	15.10,16.65	16.3	15.62,17.01
	Non-menthol	25.7	24.70,26.73	25.3	24.54,26.02	24.2	23.30,25.14	21.6	20.81,22.48	20.4	19.52,21.25	19.6	18.74,20.50	17.3	16.55,18.05
<i>Gender</i>															
Male	Menthol	14.4	13.17,15.57	14.0	13.09,14.92	14.4	13.37,15.47	14.9	13.76,15.99	15.4	14.34,16.42	16.3	15.13,17.37	17.0	16.03,18.03
	Non-menthol	29.5	27.98,31.11	28.9	27.60,30.18	27.3	26.07,28.51	25.2	23.85,26.59	23.7	22.34,25.01	23.6	22.16,24.98	20.2	19.15,21.33



Female	Menthol	13.6	12.80,14.36	13.3	12.36,14.29	13.8	13.00,14.51	13.5	12.51,14.57	13.9	12.92,14.87	15.5	14.49,16.50	15.6	14.62,16.56
	Non-menthol	21.9	20.90,22.81	21.6	20.47,22.79	21.1	19.76,22.46	18.0	17.04,19.02	17.1	16.08,18.05	15.6	14.59,16.65	14.3	13.51,15.05
<i>Race/Ethnicity</i>															
Non Hispanic Caucasian	Menthol	12.3	11.50,13.06	11.8	10.88,12.71	12.7	11.79,13.62	12.5	11.76,13.34	13.1	12.21,13.97	14.5	13.71,15.39	15.6	14.82,16.42
	Non-menthol	33.0	31.96,34.10	32.5	31.43,33.55	31.5	30.41,32.52	28.1	27.07,29.09	26.8	25.58,28.06	26.0	24.72,27.35	22.8	21.78,23.75
Non Hispanic Black	Menthol	27.5	25.08,29.90	26.0	23.45,28.53	25.0	23.02,26.97	24.0	21.63,26.29	24.5	22.08,26.86	24.2	21.89,26.53	24.6	22.22,27.02
	Non-menthol	2.0	1.24,2.77	2.3	1.37,3.31	1.7	1.08,2.41	1.8	1.02,2.64	1.2	0.76,1.69	1.9	1.22,2.65	1.5	0.91,2.15
Hispanic	Menthol	11.2	9.05,13.35	11.4	10.16,12.68	11.4	9.55,13.31	12.9	11.18,14.56	13.1	11.62,14.67	14.1	12.36,15.75	12.7	11.13,14.23
	Non-menthol	20.6	17.92,23.19	20.5	18.39,22.62	17.5	15.76,19.30	15.9	13.69,18.19	16.0	14.23,17.76	14.6	12.69,16.55	13.9	12.48,15.23
<b>26+ years</b>															
<i>Overall</i>	Menthol	7.0	6.65,7.42	7.2	6.73,7.71	7.6	7.03,8.08	7.4	6.87,7.92	7.6	7.04,8.20	7.0	6.49,7.48	7.4	6.95,7.91
	Non-menthol	16.9	16.31,17.59	17.2	16.46,18.04	16.8	16.20,17.50	16.4	15.74,17.12	15.9	15.06,16.83	16.1	15.37,16.86	15.3	14.65,16.03
<i>Gender</i>															
Male	Menthol	6.8	6.11,7.42	6.7	5.91,7.43	7.5	6.77,8.21	7.4	6.71,8.19	7.4	6.53,8.27	6.5	5.83,7.25	7.1	6.47,7.82
	Non-menthol	20.3	19.35,21.30	20.7	19.37,22.10	19.9	18.87,21.00	19.4	18.42,20.48	18.8	17.61,19.98	18.5	17.42,19.65	18.2	17.22,19.27
Female	Menthol	7.3	6.68,7.88	7.7	7.18,8.26	7.6	6.94,8.29	7.4	6.74,7.96	7.8	7.14,8.51	7.4	6.79,7.99	7.7	6.99,8.40
	Non-menthol	13.9	13.00,14.74	14.1	13.08,15.04	14.0	13.19,14.86	13.7	12.93,14.41	13.3	12.34,14.34	13.9	12.97,14.82	12.7	11.78,13.54
<i>Race/Ethnicity</i>															
Non Hispanic Caucasian	Menthol	5.3	4.84,5.80	5.2	4.70,5.62	5.5	4.98,6.01	5.4	4.81,6.03	5.5	5.00,6.10	4.8	4.43,5.21	5.3	4.79,5.73
	Non-menthol	19.7	18.81,20.6	19.8	18.72,20.86	19.0	18.24,19.82	19.1	18.20,19.95	18.6	17.66,19.64	18.9	17.97,19.87	18.1	17.19,19.09
Non Hispanic Black	Menthol	21.7	19.10,24.22	21.9	19.55,24.20	21.7	18.83,24.49	21.4	19.44,23.36	24.0	21.49,26.47	21.1	18.80,23.37	22.0	19.66,24.36
	Non-menthol	3.6	2.43,4.76	4.7	3.21,6.26	5.2	3.76,6.68	4.5	2.81,6.15	3.3	2.32,4.20	3.7	2.21,5.24	3.0	1.66,4.36
Hispanic	Menthol	5.3	4.06,6.54	6.6	5.28,7.96	7.0	5.46,8.54	6.9	5.51,8.27	6.0	4.76,7.19	7.3	5.90,8.74	7.7	6.28,9.03
	Non-menthol	15.2	13.29,17.17	15.7	13.91,17.54	16.6	14.22,18.97	13.7	11.52,15.9	13.3	11.60,15.03	14.4	12.76,16.10	13.6	10.97,16.14

Source: National Survey on Drug Use and Health, 2004-2010. Respondents aged 12 years and older. Self-reported menthol status was adjusted if necessary using retail checkout scanner data. Sample size = 389,698

**Table S4. Prevalence of smoking various mentholated cigarette brands among past 30-day smokers by age -- United States, 2004-2006 and 2008-2010.**

		2004-2006			2008-2010			
		Number of smokers (1,000s)	%	95% CI	Number of smokers (1,000s)	%	95% CI	p-value
Age 12+	Basic-menthol	646	1.07	0.88,1.27	561	0.96	0.73,1.20	0.47
	Camel-menthol	412	0.69	0.59,0.78	1,278	2.19	1.99,2.39	<0.001
	Kool	1,701	2.83	2.54,3.12	1,687	2.90	2.59,3.20	0.75
	Marlboro-menthol	3,727	6.20	5.82,6.57	4,613	7.91	7.45,8.38	<0.001
	Newport	7,107	11.82	11.34,12.29	7,687	13.19	12.53,13.85	<0.001
	Salem	1,246	2.07	1.78,2.36	715	1.23	0.91,1.55	<0.001
Age 12-17	Basic-menthol	20	0.76	0.45,1.07	12	0.60	0.31,0.90	0.47
	Camel-menthol	60	2.28	1.75,2.81	134	6.63	5.74,7.52	<0.001
	Kool	71	2.66	2.21,3.11	54	2.67	2.06,3.27	0.99
	Marlboro-menthol	349	13.18	12.00,14.36	379	18.69	17.23,20.16	<0.001
	Newport	658	24.85	23.30,26.40	512	25.28	23.66,26.89	0.70
	Salem	29	1.11	0.80,1.42	5	0.23	0.03,0.42	<0.001
Age 18-25	Basic-menthol	50	0.40	0.22,0.58	28	0.24	0.16,0.32	0.11
	Camel-menthol	187	1.49	1.30,1.67	605	5.24	4.81,5.67	<0.001
	Kool	261	2.08	1.81,2.35	287	2.48	2.12,2.85	0.07
	Marlboro-menthol	1,379	10.96	10.45,11.49	1,645	14.24	13.45,15.03	<0.001
	Newport	2,274	18.09	17.30,18.87	2,320	20.09	19.27,20.90	<0.001
	Salem	58	0.46	0.34,0.58	21	0.19	0.13,0.24	<0.001
Age 26+	Basic-menthol	575	1.28	1.02,1.54	521	1.16	0.86,1.47	0.56
	Camel-menthol	165	0.37	0.26,0.48	538	1.20	0.97,1.44	<0.001
	Kool	1,369	3.05	2.67,3.42	1,347	3.01	2.60,3.43	0.90
	Marlboro-menthol	1,998	4.45	4.00,4.90	2,589	5.79	5.31,6.27	<0.001
	Newport	4,174	9.29	8.70,9.89	4,854	10.86	10.06,11.66	0.002
	Salem	1,158	2.58	2.20,2.96	689	1.54	1.13,1.96	<0.001

Source: National Survey on Drug Use and Health. Self-reported menthol status for Kool, Newport, and Salem was adjusted if necessary using retail checkout scanner data. Sample size = 84,457; 43,616 for 2004-2006 and 40,841 for 2008-2010

**Table S5. Prevalence (%) of smoking various mentholated cigarette brands among past 30-day smokers aged 12+, by age and race/ethnicity -- United States, 2004-2006 and 2008-2010.**

	Basic		Camel		Kool		Marlboro		Newport		Salem					
	%	95% CI	%	95% CI	%	95% CI	%	95% CI	%	95% CI	%	95% CI				
<b>Age 12 - 17</b>																
<b>Non Hispanic Caucasian</b>																
2004-2006	0.96	0.55,1.37	2.35	1.75,2.95	2.12	1.59,2.64	13.59	12.18,15	17.72	16.11,19.34	1.30	0.9,1.7				
2008-2010	0.80	0.38,1.22	7.15	6.18,8.12	**	1.85	1.37,2.34	20.21	18.48,21.94	**	18.29	16.75,19.82	0.31	0.03,0.59	**	
<b>Non Hispanic black</b>																
2004-2006	0.35	0,1.03	0.26	0,0.76		5.58	2.89,8.27	2.36	0.9,3.83		83.82	79.09,88.56	1.11	0.04,2.18		
2008-2010	-	-	4.29	0.24,8.34	*	6.03	2.56,9.49	4.09	1.01,7.18		77.73	72.03,83.44	-	-	*	
<b>Hispanic</b>																
2004-2006	0.15	0,0.37	3.72	1.4,6.05		2.87	1.15,4.58	15.68	12.91,18.46		26.63	22.26,31	0.41	0,0.91		
2008-2010	0.31	0,0.67	6.38	3.85,8.92		3.21	1.01,5.41	17.86	13.97,21.76		28.04	22.52,33.55	0.09	0,0.27		
<b>Age 18-25</b>																
<b>Non Hispanic Caucasian</b>																
2004-2006	0.45	0.21,0.68	1.76	1.51,2.01		1.26	1.02,1.51	11.49	10.88,12.1		9.95	9.28,10.61	0.50	0.35,0.64		
2008-2010	0.28	0.17,0.39	5.63	5.13,6.13	**	1.74	1.38,2.11	*	15.10	14.08,16.12	**	10.80	10.11,11.49	0.17	0.1,0.25	**
<b>Non Hispanic black</b>																
2004-2006	0.44	0.04,0.83	0.39	0.06,0.72		8.18	6.61,9.74	2.63	1.69,3.58		79.15	76.94,81.37	0.47	0.07,0.88		
2008-2010	0.11	0,0.25	0.96	0.33,1.59		5.38	3.86,6.9	*	4.20	2.92,5.48	*	81.25	79.24,83.26	0.49	0.18,0.8	
<b>Hispanic</b>																
2004-2006	0.24	0.01,0.47	1.24	0.81,1.67		1.29	0.84,1.73	12.14	10.51,13.77		18.46	15.96,20.96	0.39	0.07,0.71		
2008-2010	0.17	0,0.37	6.07	4.78,7.36	**	2.99	2.07,3.91	**	15.94	13.75,18.13	*	19.80	17.73,21.87	0.10	0,0.25	
<b>Age 26+</b>																
<b>Non Hispanic Caucasian</b>																
2004-2006	1.27	0.97,1.57	0.44	0.3,0.59		1.83	1.5,2.16	3.91	3.38,4.43		3.52	3.07,3.97	2.17	1.75,2.58		
2008-2010	0.95	0.67,1.24	1.26	0.98,1.55	**	1.84	1.51,2.18	5.70	5.17,6.23	**	3.65	3.21,4.09	1.26	0.83,1.68	*	
<b>Non Hispanic black</b>																
2004-2006	2.36	1.42,3.31	0.03	0,0.08		12.06	9.94,14.18	2.34	1.33,3.34		44.37	41.15,47.58	6.96	5.21,8.71		
2008-2010	3.07	1.85,4.3	0.26	0,0.52		11.32	8.68,13.97	1.86	1.17,2.56		52.61	49.07,56.14	**	3.74	2.19,5.28	*
<b>Hispanic</b>																
2004-2006	0.55	0.03,1.06	0.18	0,0.48		1.35	0.64,2.05	8.12	6.25,9.99		11.79	9.68,13.9	0.89	0.29,1.49		
2008-2010	0.78	0.27,1.28	1.69	0.81,2.56	*	1.79	0.81,2.78	9.00	7.27,10.72		13.07	10.58,15.57	1.11	0.32,1.91		

\* p < 0.05, \*\*p<0.001 for difference in prevalence between 2004-2006 and 2008-2010. Source: National Survey on Drug Use and Health. Self-reported menthol status for Kool, Newport, and Salem was adjusted if necessary using retail checkout scanner data. Sample size = 84,457; 43,616 for 2004-2006 and 40,841 for 2008-2010.

## REFERENCES

1. National Survey on Drug Use & Health: Methodology Reports and Questionnaires. Substance Abuse and Mental Health Services Administration, Office of Applied Studies, 2009. (Accessed August 15, 2011, at <http://oas.samhsa.gov/nsduh/methods.cfm>.)
2. Giovino G, Sidney S, Gfroerer J, et al. Epidemiology of menthol cigarette use. *Nicotine Tob Res* 2004;6 Suppl 1:S67-81.
3. A.C. Nielsen. Sales data from the 2006 and 2009 Food/Drug/Mass cigarette data base and the 2009 C-Store data Obtained September 2010.
4. Newport Non Menthol Cigarettes Hit Market. 2010. (Accessed April 8, 2013, at [http://www.csnews.com/top-story-tobacco-newport\\_non\\_menthol\\_cigarettes\\_hit\\_market-57446.html](http://www.csnews.com/top-story-tobacco-newport_non_menthol_cigarettes_hit_market-57446.html).)