

Supplementary table 2. Sensitivity analyses for smoking topography and subjective measures by sample size

Study outcomes	N=112*		P-value	N=144		P-value
	Flavored tobacco	Non-flavored tobacco		Flavored tobacco	Non-flavored tobacco	
	Mean	Mean		Mean	Mean	
<b>Smoking topography</b>						
<i>Smoking time, min</i>	42:29	40:06	<.05	42:23	40:32	<.05
<i>Cumulative puffing time, min</i>	5:26	4:38	<.05	5:37	4:48	<.01
<i>Puff duration, s</i>	3.4	3.3	.36	3.4	3.2	.32
<i>Inter puff interval, s</i>	28.5	31.1	.13	27	29.7	.06
<i>Number of puffs</i>	102	94.9	.20	109.1	101	.09
<i>Total volume, L</i>	63.3	62.2	.80	66.8	66.7	.97
<i>Puff volume, L</i>	0.68	0.75	.06	0.68	.79	<.01
<i>Maximum puff volume, L</i>	1.64	2.05	<.001	1.64	2.05	<.001
<b>Waterpipe Evaluation Scale</b>						
<i>Satisfying</i>	4.3	3.3	<.001	4.39	3.24	<.001
<i>Taste</i>	4.6	2.4	<.001	4.67	2.38	<.001
<i>Dizzy</i>	3.0	3.3	<.05	2.94	3.34	<.05
<i>Calm</i>	3.7	3.2	<.001	3.67	3.08	<.001
<i>Concentrate</i>	2.5	2.0	<.001	2.43	2.01	<.001
<i>Awake</i>	2.3	1.8	<.01	2.29	1.89	<.05
<i>Reduced hunger</i>	2.2	1.8	<.05	2.14	1.83	<.05
<i>Nauseous</i>	1.9	2.4	<.001	1.91	2.41	<.001
<i>Less irritable</i>	2.4	2.0	<.001	2.41	1.98	<.05
<i>Enjoy sensation in throat</i>	3.	2.7	<.001	3.63	2.69	<.001
<i>Reduce craving</i>	3.9	4.0	.80	4.09	3.90	.32
<b>Duke Sensory Questionnaire</b>						
<i>Puff liking</i>	4.3	3.3	<.001	4.38	3.27	<.001
<i>Puff satisfaction</i>	4.2	3.2	<.001	4.34	3.11	<.001
<i>Puffs high in nicotine</i>	3.6	3.9	.11	3.63	3.91	<.05
<i>Similar to own brand</i>	4.5	2.4	<.001	4.65	2.30	<.001
<i>Strength of puffs on tongue</i>	3.7	3.5	.25	3.68	3.48	.17
<i>Strength of puffs on nose</i>	3.1	2.9	.48	3.08	2.97	.43
<i>Strength of puffs on mouth and throat</i>	3.9	3.7	.42	3.87	3.69	.25
<i>Strength of puffs on windpipe</i>	3.9	3.5	<.05	3.87	3.40	<.05
<i>Strength of puffs on chest</i>	3.6	3.5	.39	3.61	3.43	.22
<b>Harm perception</b>						
<i>How harmful is this hookah compared with your usual flavor?</i>	3.7	4.0	<.001	3.76	4.08	<.05
<i>How harmful is hookah smoking to health?</i>	4.4	4.5	.63	4.52	4.6	.43
<i>How harmful is cigarette smoking to health?</i>	6.3	6.2	.15	6.42	6.28	.05

\* Partial sample was calculated by excluding pilot data from the complete data set (n=144-32)