

Supplemental Table 1. Receiver Operating Curve (ROC) characteristics and optimal cut-point to distinguish past 30-day daily and non-daily cigarette users from non-users*, overall and by sex and race/ethnicity.

	Unweighted N	Unweighted Denominator	CPM	ROC Optimal Cut-point					
				Cut-point (ng/mL)	Sensitivity %	Specificity %	AUC	95% CI Lower	95% CI Upper
A. Past 30-Day Daily Exclusive Cigarette Use vs. No Past 30-Day/Non-Daily Cigarette Use									
Overall	2394	4603	299.6	144.0	98.2%	98.9%	0.99	0.99	1.00
Sex									
Male	1113	2016	298.0	230.0	97.1%	99.1%	0.99	0.98	1.00
Female	1281	2587	302.1	88.6	99.0%	99.0%	1.00	1.00	1.00
Race/Ethnicity									
Non-Hispanic white	1630	2742	353.2	170.0	99.0%	99.5%	1.00	0.99	1.00
Non-Hispanic black	340	739	272.2	300.0	97.4%	98.5%	0.99	0.98	1.00
Non-Hispanic other race/multiple race	160	349	242.5	15.2	100.0%	98.9%	1.00	1.00	1.00
Hispanic	264	773	223.2	88.6	93.8%	98.9%	0.97	0.93	1.00
B. Past 30-Day Non-Daily Exclusive Cigarette Use vs. No Past 30-Day Cigarette Use									
Overall	655	2864	53.1	4.8	83.6%	91.6%	0.93	0.91	0.95
Sex									
Male	317	1220	58.3	5.6	85.8%	93.9%	0.94	0.91	0.96
Female	338	1644	47.7	1.3	90.4%	82.4%	0.92	0.88	0.95
Race/Ethnicity									
Non-Hispanic white	288	1400	53.9	1.3	92.9%	83.3%	0.94	0.92	0.96
Non-Hispanic black	116	515	67.7	44.2	90.6%	94.7%	0.97	0.96	0.99
Non-Hispanic other race/multiple race	48	237	31.6	5.2	83.2%	97.6%	0.93	0.86	0.99
Hispanic	203	712	48.0	5.5	78.8%	95.2%	0.88	0.83	0.94
C. Past 30-Day Daily Poly Cigarette Use vs. No Past 30-Day/Non-Daily Cigarette Use									
Overall	2629	4838	265.4	82.6	98.5%	98.7%	1.00	1.00	1.00
Sex									
Male	1575	2478	286.9	259.0	97.7%	99.2%	1.00	0.99	1.00
Female	1054	2360	234.1	82.6	98.8%	99.0%	1.00	1.00	1.00

Race/Ethnicity									
Non-Hispanic white	1706	2818	325.9	192.0	98.7%	99.5%	1.00	1.00	1.00
Non-Hispanic black	384	783	214.4	259.0	96.8%	98.0%	1.00	0.99	1.00
Non-Hispanic other race/multiple race	229	418	128.0	116.0	99.1%	99.9%	1.00	1.00	1.00
Hispanic	310	819	233.7	60.3	97.6%	98.7%	0.99	0.98	1.00
D. Past 30-Day Non-Daily Poly Cigarette Use vs. No Past 30-Day Cigarette Use									
Overall	963	3172	55.0	7.4	85.0%	93.5%	0.95	0.94	0.96
Sex									
Male	609	1512	52.4	7.5	87.4%	94.9%	0.96	0.95	0.97
Female	354	1660	59.8	3.7	86.4%	90.1%	0.95	0.93	0.97
Race/Ethnicity									
Non-Hispanic white	478	1590	59.7	8.6	91.0%	93.8%	0.97	0.96	0.98
Non-Hispanic black	153	552	61.2	39.1	89.9%	94.4%	0.97	0.95	0.99
Non-Hispanic other race/multiple race	84	273	52.2	1.4	93.9%	86.7%	0.95	0.91	0.98
Hispanic	248	757	40.5	3.0	80.7%	89.4%	0.91	0.87	0.94

Notes: CPM= Cigarettes per month; AUC= Area under the curve. CPM values were winsorized at 95% to adjust for outlier values (all values above 95th percentile were recoded as the value at the 95th percentile). Cotinine was log-transformed. Reference group observations with cotinine values that were outside of the range of 2 times the standard deviation of the mean of the reference groups were classified as outliers and removed from analysis. Cut-points based off Youden's J statistic. Analyses are weighted. * When analyses were subset to daily cigarette use, the reference category was defined as those who did not report past 30-day use of any tobacco product other than cigarettes and reported current use of cigarettes on some days or not at all. When analyses were subset to non-daily cigarette use, the reference category was defined as those who did not report past 30-day use of any tobacco product and reported current use of cigarettes as not at all.