Supplementary Table 1. Prevalence of and Characteristics Associated with Sometimes Waking up at Night in Order to Have a Cigarette or Other Tobacco Product: Multivariable Logistic Regression Analysis

| Among current cigarette smokers (N=15,495) | Among current cigar smokers (N=4,276) | Among current pipe smokers (N=765) |
|-------------------------------------------|---------------------------------------|----------------------------------|
| N | Prev% | AOR (95% CI) | N | Prev% | AOR (95% CI) | N | Prev% | AOR (95% CI) |
|---|-------|-------------|---|-------|-------------|---|-------|-------------|
| Overall | 15,495 | 20.6 | | 4,276 | 18.1 | | 765 | 22.9 | |
| Polytobacco use status | | | | | | | | | |
| Sole use | 9,983 | 18.9 | REF | 1,576 | 4.3 | REF | 181 | 1.4 | REF |
| Poly use | 5,512 | 23.2 | 1.52 (1.34-1.72) | 2,700 | 24.3 | 7.04 (4.70-10.56) | 584 | 26.3 | 15.53 (3.64-66.31) |
| Frequency of use | | | | | | | | | |
| Nondaily* | 3,799 | 10.8 | REF | 3,710 | 17.1 | REF | 633 | 22.0 | 2.69 (0.89-8.09) |
| Daily | 11,696 | 23.7 | 2.63 (2.24-3.09) | 566 | 25.3 | 1.44 (1.02-2.04) | 132 | 28.8 | |
| Gender | | | | | | | | | |
| Male | 7,650 | 20.7 | 1.00 (0.89-1.13) | 3,621 | 16.1 | 0.72 (0.53-0.97) | 686 | 21.2 | 0.65 (0.31-1.37) |
| Female | 7,845 | 20.4 | REF | 655 | 29.1 | REF | 79 | 36.1 | REF |
| Age | | | | | | | | | |
| 18-24 | 1,348 | 18.0 | REF | 661 | 19.0 | REF | 119 | 30.9 | REF |
| 25-29 | 1,213 | 18.5 | 1.13 (0.85-1.51) | 441 | 19.4 | 1.13 (0.70-1.81) | 59 | 22.5 | 0.72 (0.26-1.94) |
| 30-44 | 3,613 | 20.8 | 1.38 (1.10-1.73) | 1,047 | 18.0 | 1.15 (0.77-1.74) | 149 | 22.5 | 0.75 (0.32-1.73) |
| 45-64 | 6,702 | 23.3 | 1.56 (1.24-1.94) | 1,572 | 19.3 | 1.59 (1.05-2.40) | 251 | 24.3 | 0.54 (0.24-1.22) |
| 65+ | 2,619 | 13.9 | 0.83 (0.63-1.09) | 555 | 7.5 | 0.57 (0.32-1.02) | 187 | 5.8 | 0.12 (0.04-0.39) |
| Race/ethnicity | | | | | | | | | |
| Non-Hispanic White | 10,888 | 18.2 | REF | 3,052 | 14.2 | REF | 546 | 19.6 | REF |
| Hispanic | 1,230 | 20.1 | 1.20 (0.97-1.48) | 370 | 23.3 | 1.83 (1.22-2.72) | 57 | 24.3 | 0.88 (0.36-2.13) |
| Non-Hispanic Black | 1,663 | 32.5 | 2.16 (1.83-2.55) | 415 | 30.2 | 2.41 (1.70-3.42) | 40 | 36.5 | 2.39 (0.84-6.78) |
| Non-Hispanic Asian | 188 | 16.7 | 0.64 (0.54-0.76) | 119 | 16.3 | 0.91 (0.73-1.02) | 274 | 16.1 | 0.49 (0.21-0.78) |
| Non-Hispanic Other | 1,526 | 21.2 | 0.47 (0.39-0.58) | 406 | 22.5 | 1.27 (0.82-1.97) | 114 | 29.4 | 0.96 (0.43-2.18) |
| Education | | | | | | | | | |
| Less than HS | 2,094 | 28.5 | REF | 423 | 30.7 | REF | 96 | 38.5 | REF |
| HS graduate | 5,195 | 21.0 | 0.71 (0.60-0.83) | 1,221 | 20.3 | 0.79 (0.55-1.14) | 205 | 25.1 | 0.63 (0.29-1.35) |
| Some college | 4,537 | 18.6 | 0.64 (0.54-0.76) | 1,197 | 16.3 | 0.96 (0.63-1.49) | 190 | 14.0 | 0.30 (0.14-0.67) |
| College graduate | 3,669 | 13.0 | 0.47 (0.39-0.58) | 1,435 | 8.6 | 0.45 (0.29-0.71) | 274 | 16.1 | 0.49 (0.21-0.78) |
| Household income | | | | | | | | | |
| <$30,000 | 4,407 | 28.0 | REF | 890 | 31.3 | REF | 188 | 37.1 | REF |
| $30,000-49,999 | 3,514 | 20.6 | 0.76 (0.65-0.90) | 839 | 19.2 | 0.62 (0.43-0.89) | 154 | 20.2 | 0.45 (0.20-1.03) |
| $50,000-99,999 | 3,410 | 15.2 | 0.57 (0.48-0.68) | 1,044 | 13.0 | 0.56 (0.38-0.83) | 208 | 15.2 | 0.35 (0.17-0.75) |
| ≥$100,000 | 1,354 | 12.1 | 0.52 (0.40-0.68) | 820 | 6.0 | 0.31 (0.19-0.53) | 95 | 8.5 | 0.18 (0.05-0.64) |
| Unknown | 2,810 | 19.9 | 0.70 (0.59-0.83) | 683 | 19.2 | 0.64 (0.43-0.94) | 120 | 27.7 | 0.72 (0.33-1.57) |
| Marital status | | | | | | | | | |
| Married | 7,091 | 17.6 | REF | 2,181 | 13.7 | REF | 359 | 16.8 | REF |
| W/D/S | 4,757 | 23.5 | 1.27 (1.10-1.46) | 857 | 23.3 | 1.14 (0.81-1.59) | 204 | 28.2 | 1.25 (0.59-2.63) |
| Single | 3,647 | 23.2 | 1.37 (1.17-1.59) | 1,238 | 21.7 | 1.15 (0.83-1.61) | 202 | 28.5 | 0.99 (0.49-2.00) |
| Year | | | | | | | | | |
| 2012-2013 | 6,649 | 20.6 | REF | 1759 | 18.5 | REF | 328 | 26.9 | REF |
| 2013-2014 | 8,846 | 20.5 | 0.93 (0.82-1.05) | 2,517 | 17.8 | 0.91 (0.70-1.19) | 437 | 18.7 | 0.53 (0.31-0.92) |

Note. AOR = adjusted odds ratio; CI = confidence interval; HS = high school; N = unweighted sample size for the denominator; W/D/S = widowed/divorced/separated; %Poly = prevalence of dependence symptom. Ellipsis indicates not included in the model. Statistically significant AOR results are noted in bold.

*For non-cigarette tobacco users, this category includes some-day and rare users.

[a]Not included in the model as a covariate because of small sample size.
## Supplementary Table 1
(continued)

|                                   | Among current hookah users (N=2,349) | Among current e-cigarette users (N=4,583) | Among current smokeless tobacco users (N=3,097) |
|-----------------------------------|--------------------------------------|-------------------------------------------|-----------------------------------------------|
|                                   | N  | Prev% | AOR (95% CI) | N  | Prev% | AOR (95% CI) | N  | Prev% | AOR (95% CI) |
| Overall                           | 2,349 | 10.0  | …           | 4,583 | 16.7  | …           | 3,097 | 12.3  | …           |
| Polytobacco use status            |     |       |             |     |       |             |     |       |             |
| Sole use                          | 969 | 0.8   | REF         | 923 | 3.2   | REF         | 1,691 | 4.8   | REF         |
| Poly use                          | 1,380 | 16.3  | 20.79 (8.63-50.08) | 3,660 | 19.9  | 7.04 (4.41-11.24) | 1,046 | 19.0  | 4.92 (3.32-7.30) |
| Frequency of use                  |     |       |             |     |       |             |     |       |             |
| Nondaily*                         | 2,308 | 9.3   | REF         | 3,593 | 17.9  | REF         | 1,534 | 14.8  | REF         |
| Daily                             | 41 | 44.5  | a           | 990 | 11.9  | 0.87 (0.64-1.17) | 1,563 | 9.4   | 1.03 (0.73-1.44) |
| Gender                            |     |       |             |     |       |             |     |       |             |
| Male                              | 1,442 | 11.1  | 1.10 (0.73-1.67) | 2,323 | 16.7  | 1.19 (0.94-1.51) | 2,879 | 11.6  | 0.52 (0.29-0.92) |
| Female                            | 907 | 8.1   | REF         | 2,260 | 16.7  | REF         | 218 | 22.3  | REF         |
| Age                               |     |       |             |     |       |             |     |       |             |
| 18-24                             | 1,326 | 7.6   | REF         | 863 | 12.0  | REF         | 549 | 12.3  | REF         |
| 25-29                             | 524 | 10.9  | 1.46 (0.88-2.41) | 518 | 15.3  | 1.52 (0.94-2.47) | 341 | 13.5  | 1.58 (0.86-2.87) |
| 30-44                             | 373 | 15.4  | 1.65 (0.95-2.87) | 1,180 | 17.7  | 2.00 (1.37-2.92) | 889 | 12.6  | 1.79 (1.10-2.91) |
| 45-64                             | 110 | 23.1  | 2.13 (0.91-4.95) | 1,589 | 22.0  | 2.56 (1.74-3.79) | 954 | 12.4  | 2.16 (1.27-3.68) |
| 65+                               | 16  | 41.3  | 2.01 (0.29-13.94) | 433 | 10.0  | 0.88 (0.46-1.68) | 364 | 7.2   | 1.13 (0.54-2.38) |
| Race/ethnicity                    |     |       |             |     |       |             |     |       |             |
| Non-Hispanic White                | 1,410 | 8.6   | REF         | 3,394 | 15.3  | REF         | 2,461 | 11.6  | REF         |
| Hispanic                          | 410 | 11.6  | 1.43 (0.84-2.42) | 420 | 17.7  | 1.20 (0.79-1.83) | 160 | 11.6  | 0.74 (0.36-1.49) |
| Non-Hispanic Black                | 222 | 15.2  | 2.73 (1.50-4.96) | 250 | 25.1  | 1.65 (1.07-2.53) | 132 | 16.0  | 1.22 (0.59-2.53) |
| Non-Hispanic Asian                | 105 | 6.3   | 1.68 (0.55-5.12) | 82 | 13.5  | 1.19 (0.41-3.43) | 18 | 16.6  | 1.34 (0.31-5.90) |
| Non-Hispanic Other                | 202 | 10.6  | 1.18 (0.63-2.21) | 437 | 21.2  | 1.39 (0.94-2.05) | 326 | 16.2  | 1.10 (0.66-1.82) |
| Education                         |     |       |             |     |       |             |     |       |             |
| Less than HS                      | 134 | 22.3  | REF         | 418 | 30.9  | REF         | 369 | 19.3  | REF         |
| HS graduate                       | 706 | 11.0  | 0.55 (0.31-0.99) | 1,477 | 17.3  | 0.52 (0.36-0.74) | 1,060 | 13.7  | 0.74 (0.47-1.17) |
| Some college                      | 745 | 8.5   | 0.43 (0.23-0.80) | 1,565 | 13.9  | 0.41 (0.28-0.58) | 798 | 10.5  | 0.53 (0.32-0.90) |
| College graduate                  | 764 | 5.3   | 0.30 (0.15-0.62) | 1,123 | 9.6   | 0.25 (0.17-0.39) | 870 | 6.8   | 0.36 (0.20-0.64) |
| Household income                  |     |       |             |     |       |             |     |       |             |
| <$30,000                          | 374 | 16.9  | REF         | 1,028 | 25.9  | REF         | 499 | 21.5  | REF         |
| $30,000-49,999                     | 521 | 10.2  | 0.54 (0.31-0.95) | 1,039 | 15.5  | 0.64 (0.46-0.90) | 626 | 12.0  | 0.56 (0.35-0.90) |
| $50,000-99,999                     | 632 | 7.7   | 0.45 (0.26-0.79) | 1,161 | 12.7  | 0.52 (0.37-0.74) | 901 | 9.9   | 0.52 (0.32-0.85) |
| ≥$100,000                         | 374 | 6.0   | 0.40 (0.18-0.90) | 557 | 10.5  | 0.50 (0.32-0.80) | 568 | 7.6   | 0.49 (0.26-0.93) |
| Unknown                           | 448 | 10.2  | 0.69 (0.37-1.27) | 798 | 17.3  | 0.80 (0.56-1.15) | 503 | 13.2  | 0.67 (0.40-1.12) |
| Marital status                    |     |       |             |     |       |             |     |       |             |
| Married                           | 663 | 15.1  | REF         | 2,160 | 15.5  | REF         | 1,733 | 8.6   | REF         |
| W/D/S                             | 152 | 17.0  | 0.73 (0.35-1.50) | 1,090 | 22.2  | 1.36 (1.01-1.83) | 572 | 18.3  | 1.74 (1.16-2.61) |
| Single                            | 1,534 | 7.2   | 0.49 (0.32-0.76) | 1,333 | 15.2  | 1.12 (0.82-1.51) | 792 | 15.5  | 1.75 (1.15-2.65) |
| Year                              |     |       |             |     |       |             |     |       |             |
| 2012-2013                         | 832 | 10.3  | REF         | 1,451 | 19.2  | REF         | 1,317 | 10.7  | REF         |
| 2013-2014                         | 1,517 | 9.7   | 0.70 (0.46-1.06) | 3,132 | 15.1  | 0.71 (0.55-0.92) | 1,780 | 89.3  | 0.82 (0.58-1.16) |
### Supplementary Table 2. Prevalence of and Characteristics Associated with Having a Strong Craving to Use Tobacco Product of Any Kind during the Past 30 Days: Multivariable Logistic Regression Analysis

|                        | Among current cigarette smokers (N=15,495) | Among current cigar smokers (N=4,276) | Among current pipe smokers (N=765) |
|------------------------|---------------------------------------------|--------------------------------------|-----------------------------------|
|                        | N   | Prev% | AOR (95% CI) | N   | Prev% | AOR (95% CI) | N   | Prev% | AOR (95% CI) |
| Overall                | 15,495 | 62.2 | … | 4,276 | 47.5 | … | 765 | 50.8 | … |
| Polytobacco use status | Sole use | 9,983 | 61.0 | REF | 1,576 | 15.0 | REF | 181 | 13.2 | REF |
|                        | Poly use | 5,512 | 39.0 | 1.72 (1.55-1.91) | 2,700 | 61.9 | 9.04 (7.06-11.56) | 584 | 56.7 | 10.20 (5.40-19.30) |
| Frequency of use       | Nondaily* | 3,799 | 24.5 | REF | 3,710 | 45.8 | REF | 633 | 49.7 | REF |
|                        | Daily | 11,696 | 75.5 | 2.34 (2.10-2.61) | 566 | 58.6 | 2.23 (1.60-3.12) | 132 | 58.0 | 2.35 (1.22-4.53) |
| Gender                 | Male | 7,650 | 55.3 | 0.77 (0.70-0.85) | 3,621 | 45.0 | 0.67 (0.52-0.88) | 686 | 50.3 | 1.09 (0.56-2.11) |
|                        | Female | 7,845 | 44.7 | REF | 655 | 60.6 | REF | 79 | 54.4 | REF |
| Age                    | 18-24 | 1,348 | 13.0 | REF | 661 | 49.8 | REF | 119 | 52.7 | REF |
|                        | 25-29 | 1,213 | 11.3 | 0.98 (0.79-1.22) | 441 | 51.3 | 1.13 (0.80-1.60) | 59 | 45.9 | 0.85 (0.35-2.08) |
|                        | 30-44 | 3,613 | 31.9 | 2.34 (2.10-2.61) | 1,047 | 53.0 | 1.43 (1.05-1.95) | 149 | 62.2 | 1.62 (0.80-3.30) |
|                        | 45-64 | 6,702 | 36.0 | 1.92 (1.70-2.16) | 1,572 | 40.5 | 0.94 (0.68-1.28) | 251 | 48.3 | 0.77 (0.38-1.56) |
|                        | 65+ | 2,619 | 79.0 | 0.62 (0.50-0.76) | 555 | 32.6 | 0.72 (0.47-1.11) | 187 | 33.3 | 0.56 (0.24-1.31) |
| Race/ethnicity         | Non-Hispanic White | 10,888 | 64.3 | REF | 3,052 | 47.7 | REF | 546 | 51.0 | REF |
|                        | Hispanic | 1,230 | 12.4 | 0.52 (0.45-0.62) | 370 | 44.4 | 0.73 (0.53-1.02) | 57 | 41.1 | 0.42 (0.20-0.90) |
|                        | Non-Hispanic Black | 1,663 | 13.1 | 0.63 (0.45-0.73) | 415 | 46.8 | 0.78 (0.57-1.07) | 40 | 49.8 | 0.74 (0.29-1.86) |
|                        | Non-Hispanic Asian | 188 | 1.3 | 0.33 (0.22-0.50) | 33 | 34.1 | 0.39 (0.11-1.35) | 8 | 65.9 | 1.11 (0.23-5.30) |
|                        | Non-Hispanic Other | 1,526 | 8.9 | 0.92 (0.78-1.09) | 406 | 52.9 | 0.79 (0.58-1.09) | 114 | 55.9 | 0.85 (0.41-1.76) |
| Education              | Less than HS | 2,094 | 20.6 | REF | 423 | 59.7 | REF | 96 | 58.8 | REF |
|                        | HS graduate | 5,195 | 36.5 | 1.34 (1.16-1.55) | 1,221 | 50.3 | 0.87 (0.62-1.22) | 205 | 56.8 | 1.11 (0.55-2.26) |
|                        | Some college | 4,537 | 26.1 | 1.63 (1.41-1.90) | 1,197 | 47.8 | 0.77 (0.55-1.08) | 190 | 46.2 | 0.73 (0.34-1.53) |
|                        | College graduate | 3,669 | 16.9 | 1.55 (1.32-1.83) | 1,435 | 34.4 | 0.67 (0.47-0.95) | 274 | 41.2 | 0.78 (0.37-1.64) |
| Household income       | <$30,000 | 4,407 | 27.3 | REF | 890 | 61.6 | REF | 188 | 63.4 | REF |
|                        | $30,000-49,999 | 3,514 | 23.4 | 1.07 (0.93-1.23) | 839 | 53.4 | 0.83 (0.61-1.12) | 154 | 45.4 | 0.44 (0.22-0.86) |
|                        | $50,000-99,999 | 3,410 | 22.3 | 1.13 (0.98-1.29) | 1,044 | 45.2 | 0.75 (0.56-1.01) | 208 | 48.1 | 0.43 (0.22-0.84) |
|                        | ≥$100,000 | 1,354 | 8.6 | 1.16 (0.95-1.41) | 820 | 29.7 | 0.44 (0.31-0.62) | 95 | 33.7 | 0.26 (0.11-0.58) |
|                        | Unknown | 2,810 | 18.5 | 0.79 (0.69-0.91) | 683 | 43.3 | 0.55 (0.40-0.76) | 120 | 54.5 | 0.87 (0.44-1.70) |
| Marital status         | Married | 7,091 | 48.2 | REF | 2,181 | 42.9 | REF | 359 | 47.8 | REF |
|                        | W/D/S | 4,757 | 24.9 | 1.04 (0.92-1.17) | 857 | 54.4 | 0.99 (0.76-1.31) | 204 | 55.7 | 0.96 (0.53-1.72) |
|                        | Single | 3,647 | 26.9 | 0.95 (0.84-1.07) | 1,238 | 50.2 | 0.90 (0.70-1.15) | 202 | 51.6 | 0.70 (0.39-1.24) |
| Year                   | 2012-2013 | 6,649 | 50.7 | REF | 1,759 | 48.1 | REF | 328 | 53.1 | REF |
|                        | 2013-2014 | 8,846 | 49.4 | 0.91 (0.82-0.99) | 2,517 | 46.7 | 0.95 (0.78-1.15) | 437 | 48.3 | 0.91 (0.59-1.41) |

Note. AOR = adjusted odds ratio; CI = confidence interval; HS = high school; N = unweighted sample size for the denominator; W/D/S = widowed/divorced/separated; %Poly = prevalence of dependence symptom. Ellipsis indicates not included in the model. Statistically significant AOR results are noted in bold.

*For non-cigarette tobacco users, this category includes some-day and rare users.

*aNot included in the model as a covariate because of small sample size.
## Supplementary Table 2 (continued)

|                                | Among current hookah users (N=2,349) | Among current e-cigarette users (N=4,583) | Among current smokeless tobacco users (N=3,097) |
|--------------------------------|--------------------------------------|--------------------------------------------|-------------------------------------------------|
|                                | N  | Prev% | AOR (95% CI) | N  | Prev% | AOR (95% CI) | N  | Prev% | AOR (95% CI) |
| Overall                        | 2,349 | 34.0 | … | 4,583 | 59.7 | … | 3,097 | 56.2 | … |
| Polytobacco use status         |     |       |             |     |       |             |     |       |             |
| Sole use                       | 969 | 6.0 | REF | 923 | 22.9 | REF | 1,691 | 46.9 | REF |
| Poly use                       | 1,380 | 53.3 | 15.64 (10.43-23.47) | 3,660 | 66.9 | 5.69 (4.56-7.10) | 1,046 | 64.6 | 3.14 (2.46-4.00) |
| Frequency of use               |     |       |             |     |       |             |     |       |             |
| Nondaily*                      | 2,308 | 33.5 | 0.91 (0.69-1.21) | 3,593 | 60.7 | REF | 1,534 | 51.0 | REF |
| Daily                          | 41 | 60.3 | a | 990 | 55.3 | 1.23 (0.99-1.53) | 1,563 | 61.9 | 2.48 (1.96-3.14) |
| Gender                         |     |       |             |     |       |             |     |       |             |
| Male                           | 1,442 | 36.8 | 0.91 (0.69-1.21) | 2,323 | 57.7 | 0.91 (0.76-1.08) | 2,879 | 56.4 | 0.98 (0.65-1.49) |
| Female                         | 907 | 29.6 | REF | 2,260 | 62.2 | REF | 218 | 52.6 | REF |
| Age                            |     |       |             |     |       |             |     |       |             |
| 18-24                          | 1,326 | 29.5 | REF | 863 | 48.5 | REF | 549 | 57.1 | REF |
| 25-29                          | 524 | 37.1 | 1.38 (0.98-1.95) | 518 | 61.2 | 1.51 (1.11-2.07) | 341 | 57.5 | 1.09 (0.75-1.59) |
| 30-44                          | 373 | 43.4 | 1.54 (1.04-2.27) | 1,180 | 64.3 | 1.80 (1.38-2.36) | 889 | 58.4 | 1.07 (0.77-1.49) |
| 45-64                          | 110 | 55.7 | 1.98 (1.10-3.55) | 1,589 | 64.4 | 1.63 (1.23-2.14) | 954 | 54.1 | 0.99 (0.70-1.39) |
| 65+                            | 16 | 75.7 | 2.76 (0.57-13.42) | 433 | 56.8 | 1.15 (0.78-1.70) | 364 | 46.1 | 0.74 (0.49-1.12) |
| Race/ethnicity                 |     |       |             |     |       |             |     |       |             |
| Non-Hispanic White             | 1,410 | 38.7 | REF | 3,394 | 62.9 | REF | 2,461 | 57.6 | REF |
| Hispanic                       | 410 | 25.7 | 0.49 (0.34-0.71) | 420 | 45.0 | 0.51 (0.39-0.68) | 160 | 47.1 | 0.68 (0.45-1.02) |
| Non-Hispanic Black             | 222 | 30.0 | 0.85 (0.50-1.42) | 250 | 56.1 | 0.76 (0.54-1.07) | 132 | 49.6 | 0.92 (0.56-1.50) |
| Non-Hispanic Asian             | 105 | 17.3 | 0.76 (0.33-1.76) | 82 | 36.4 | 0.37 (0.20-0.72) | 18 | 32.7 | 0.40 (0.12-1.33) |
| Non-Hispanic Other             | 202 | 39.5 | 0.91 (0.58-1.41) | 437 | 64.5 | 0.98 (0.71-1.35) | 326 | 55.9 | 0.86 (0.59-1.24) |
| Education                      |     |       |             |     |       |             |     |       |             |
| Less than HS                   | 134 | 46.4 | REF | 418 | 61.9 | REF | 369 | 59.6 | REF |
| HS graduate                    | 706 | 39.5 | 1.00 (0.60-1.68) | 1,477 | 59.0 | 0.90 (0.66-1.22) | 1,060 | 56.4 | 0.79 (0.56-1.12) |
| Some college                   | 745 | 32.0 | 0.74 (0.44-1.24) | 1,565 | 58.8 | 0.87 (0.64-1.19) | 798 | 59.9 | 0.99 (0.69-1.42) |
| College graduate               | 764 | 23.2 | 0.53 (0.31-0.91) | 1,123 | 60.9 | 0.85 (0.61-1.08) | 870 | 49.3 | 0.69 (0.47-0.99) |
| Household income               |     |       |             |     |       |             |     |       |             |
| <$30,000                       | 374 | 40.7 | REF | 1,028 | 61.8 | 0.90 (0.66-1.22) | 499 | 54.5 | REF |
| $30,000-49,999                 | 521 | 39.2 | 1.00 (0.66-1.52) | 1,477 | 59.0 | 1.11 (0.86-1.45) | 626 | 59.6 | 1.22 (0.86-1.72) |
| $50,000-99,999                 | 632 | 34.6 | 0.91 (0.61-1.37) | 1,161 | 64.0 | 1.15 (0.89-1.49) | 901 | 56.9 | 1.08 (0.78-1.50) |
| ≥$100,000                     | 374 | 23.1 | 0.53 (0.33-0.86) | 557 | 55.7 | 0.96 (0.70-1.33) | 568 | 54.2 | 1.07 (0.74-1.55) |
| Unknown                        | 448 | 30.9 | 0.82 (0.52-1.29) | 798 | 50.9 | 0.82 (0.61-1.09) | 503 | 54.0 | 0.98 (0.69-1.40) |
| Marital status                 |     |       |             |     |       |             |     |       |             |
| Married                        | 663 | 40.4 | REF | 2,160 | 62.1 | REF | 1,733 | 56.7 | REF |
| W/D/S                          | 152 | 53.9 | 1.30 (0.69-2.44) | 1,090 | 65.6 | 1.16 (0.91-1.49) | 572 | 57.3 | 0.95 (0.72-1.27) |
| Single                         | 1,534 | 29.5 | 0.77 (0.57-1.03) | 1,333 | 52.4 | 0.84 (0.67-1.05) | 792 | 54.5 | 0.81 (0.61-1.06) |
| Year                           |     |       |             |     |       |             |     |       |             |
| 2012-2013                      | 832 | 35.0 | REF | 1,451 | 66.4 | REF | 1,317 | 56.1 | REF |
| 2013-2014                      | 1,517 | 33.2 | 0.82 (0.63-1.07) | 3,132 | 55.5 | 0.68 (0.56-0.82) | 1,780 | 56.2 | 1.03 (0.84-1.26) |
### Supplementary Table 3. Prevalence of and Characteristics Associated with Feeling Really Needed to Use a Tobacco Product during the Past 30 Days: Multivariable Logistic Regression Analysis

Among current cigarette smokers (N=15,495)

|          | N  | Prev% | AOR (95% CI) |          | N  | Prev% | AOR (95% CI) |          | N  | Prev% | AOR (95% CI) |
|----------|----|-------|--------------|----------|----|-------|--------------|----------|----|-------|--------------|
| Overall  | 15,495 | 65.1   | ...          | 4,276   | 46.8 | ... | ...            | 765 | 49.5 | ... | ... |
| Polytobacco use status | | | | | | | | | | | |
| Sole use | 9,983 | 61.4 | REF | 1,576 | 13.8 | REF | 181 | 11.7 | REF | ... |
| Poly use | 5,512 | 71.0 | 1.59 (1.43-1.77) | 2,700 | 61.5 | 10.21 (7.94-13.11) | 584 | 55.5 | 10.05 (5.34-18.91) | ... |
| Frequency of use | | | | | | | | | | |
| Nondaily* | 3,799 | 46.7 | REF | 3,710 | 44.8 | REF | 633 | 48.2 | REF | ... |
| Daily | 11,696 | 71.1 | 2.66 (2.38-2.96) | 566 | 60.7 | 2.53 (1.80-3.56) | 132 | 58.1 | 2.71 (1.34-5.46) | ... |
| Gender | | | | | | | | | | |
| Male | 7,650 | 60.4 | 0.60 (0.55-0.67) | 3,621 | 43.5 | 0.53 (0.40-0.69) | 686 | 47.6 | 0.70 (0.35-1.38) | ... |
| Female | 7,845 | 70.9 | REF | 655 | 64.5 | REF | 79 | 64.2 | REF | ... |
| Age | | | | | | | | | | |
| 18-24 | 1,348 | 65.5 | REF | 661 | 48.9 | REF | 119 | 55.2 | REF | ... |
| 25-29 | 1,213 | 62.5 | 0.89 (0.71-1.11) | 441 | 52.2 | 1.31 (0.92-1.86) | 59 | 40.4 | 0.69 (0.30-1.55) | ... |
| 30-44 | 3,613 | 67.8 | 1.11 (0.92-1.35) | 1,047 | 51.5 | 1.44 (1.06-1.96) | 149 | 59.9 | 1.66 (0.79-3.51) | ... |
| 45-64 | 6,702 | 59.6 | 0.96 (0.79-1.16) | 1,572 | 40.2 | 1.02 (0.74-1.39) | 251 | 45.5 | 0.70 (0.33-1.45) | ... |
| 65+ | 2,619 | 54.0 | 0.57 (0.46-0.71) | 555 | 32.4 | 0.81 (0.53-1.36) | 187 | 34.7 | 0.70 (0.30-1.63) | ... |
| Race/ethnicity | | | | | | | | | | |
| Non-Hispanic White | 10,888 | 70.0 | REF | 3,052 | 46.1 | REF | 546 | 47.0 | REF | ... |
| Hispanic | 1,230 | 49.3 | 0.52 (0.45-0.62) | 370 | 42.7 | 0.72 (0.32-0.99) | 57 | 42.5 | 0.50 (0.22-1.13) | ... |
| Non-Hispanic Black | 1,663 | 56.7 | 0.66 (0.57-0.77) | 415 | 51.3 | 1.02 (0.74-1.41) | 40 | 55.3 | 0.96 (0.38-2.42) | ... |
| Non-Hispanic Asian | 188 | 43.2 | 0.40 (0.26-0.60) | 33 | 49.3 | 0.88 (0.23-3.37) | 8 | 62.8 | 1.10 (0.23-5.24) | ... |
| Non-Hispanic Other | 1,526 | 67.3 | 0.88 (0.74-1.04) | 406 | 51.0 | 0.75 (0.54-1.03) | 114 | 62.4 | 1.35 (0.63-2.93) | ... |
| Education | | | | | | | | | | |
| Less than HS | 2,094 | 59.6 | REF | 423 | 58.8 | REF | 96 | 65.8 | REF | ... |
| HS graduate | 5,195 | 66.9 | 1.23 (1.06-1.43) | 1221 | 42.7 | 0.72 (0.32-0.99) | 205 | 54.1 | 0.67 (0.32-1.38) | ... |
| Some college | 4,537 | 68.2 | 1.31 (1.13-1.53) | 1,197 | 47.7 | 0.85 (0.61-1.18) | 190 | 44.2 | 0.50 (0.23-1.08) | ... |
| College graduate | 3,669 | 63.3 | 1.14 (0.96-1.35) | 1,435 | 30.4 | 0.59 (0.41-0.84) | 274 | 35.7 | 0.47 (0.22-0.99) | ... |
| Household income | | | | | | | | | | |
| <$30,000 | 4,407 | 66.7 | REF | 890 | 63.1 | REF | 188 | 60.9 | REF | ... |
| $30,000-49,999 | 3,514 | 66.4 | 0.98 (0.85-1.23) | 839 | 50.3 | 0.69 (0.51-0.93) | 154 | 47.8 | 0.61 (0.32-1.18) | ... |
| $50,000-99,999 | 3,410 | 67.8 | 0.97 (0.84-1.13) | 1,044 | 42.2 | 0.67 (0.49-0.90) | 208 | 43.2 | 0.52 (0.27-1.02) | ... |
| ≥$100,000 | 1,354 | 63.9 | 0.91 (0.75-1.10) | 820 | 30.0 | 0.49 (0.35-0.69) | 95 | 34.2 | 0.39 (0.17-0.87) | ... |
| Unknown | 2,810 | 58.5 | 0.74 (0.64-0.85) | 683 | 45.2 | 0.58 (0.42-0.80) | 120 | 55.7 | 0.98 (0.50-1.90) | ... |
| Marital status | | | | | | | | | | |
| Married | 7,091 | 66.1 | REF | 2,181 | 41.0 | REF | 359 | 42.6 | REF | ... |
| W/D/S | 4,757 | 66.2 | 1.01 (0.89-1.14) | 857 | 55.4 | 1.11 (0.84-1.47) | 204 | 57.0 | 1.28 (0.73-2.28) | ... |
| Single | 3,647 | 62.4 | 0.97 (0.86-1.10) | 1,238 | 50.4 | 0.94 (0.73-1.19) | 202 | 54.7 | 1.17 (0.65-2.13) | ... |
| Year | | | | | | | | | | |
| 2012-2013 | 6,649 | 65.5 | REF | 1759 | 46.9 | REF | 328 | 48.7 | REF | ... |
| 2013-2014 | 8,846 | 64.7 | 0.94 (0.85-1.04) | 2,517 | 46.7 | 0.97 (0.80-1.18) | 437 | 50.4 | 1.27 (0.82-1.97) | ... |

Note. AOR = adjusted odds ratio; CI = confidence interval; HS = high school; N = unweighted sample size for the denominator; W/D/S = widowed/divorced/separated; %Poly = prevalence of dependence symptom. Ellipsis indicates not included in the model. Statistically significant AOR results are noted in bold.

*For non-cigarette tobacco users, this category includes some-day and rare users.

aNot included in the model as a covariate because of small sample size.
### Supplementary Table 3 (continued)

| Among current hookah users (N=2,349) | Among current e-cigarette users (N=4,583) | Among current smokeless tobacco users (N=3,097) |
|----------------------------------|----------------------------------|----------------------------------|
| N Prev% AOR (95% CI) | N Prev% AOR (95% CI) | N Prev% AOR (95% CI) |
|---|---|---|
| **Overall** | 2,349 32.6... | 4,583 60.7... | 3,097 54.1... |
| **Polytobacco use status** | | | |
| Sole use | 969 4.8 REF | 923 29.9 REF | 1,691 42.6 REF |
| Poly use | 1,380 51.6 | **19.30 (12.84-29.02)** | 3,660 67.9 | **6.15 (4.87-7.75)** | 1,046 64.5 | **3.57 (2.81-4.54)** |
| **Frequency of use** | | | |
| Nondaily* | 2,308 32.3 REF | 3,593 61.2 REF | 1,534 50.5 REF |
| Daily | 41 48.0 a | **1.42 (1.13-1.79)** | 990 58.6 | **2.23 (1.77-2.82)** | 1,563 58.0 |
| **Gender** | | | |
| Male | 1,442 34.1 | **0.73 (0.55-0.97)** | 2,323 55.9 | **0.66 (0.55-0.80)** | 2,879 53.9 | **0.75 (0.49-1.14)** |
| Female | 907 30.1 REF | 2,260 66.8 REF | 218 57.3 REF |
| **Age** | | | |
| 18-24 | 1,326 28.7 REF | 863 47.0 REF | 549 54.0 REF |
| 25-29 | 524 32.8 | **1.18 (0.83-1.68)** | 518 62.1 | **1.71 (1.24-2.36)** | 341 56.3 | **1.19 (0.82-1.72)** |
| 30-44 | 373 43.8 | **1.71 (1.15-2.53)** | 1,180 66.7 | **2.20 (1.68-2.89)** | 889 58.5 | **1.25 (0.90-1.75)** |
| 45-64 | 110 49.7 | **1.56 (0.82-1.97)** | 1,589 66.3 | **1.89 (1.43-2.49)** | 954 48.7 | **0.94 (0.67-1.33)** |
| 65+ | 16 75.7 | **3.60 (0.71-18.21)** | 433 58.0 | **1.25 (0.85-1.84)** | 364 47.3 | **0.93 (0.61-1.42)** |
| **Race/ethnicity** | | | |
| Non-Hispanic White | 1,410 37.0 REF | 3,394 64.2 REF | 2,461 55.7 REF |
| Hispanic | 410 25.8 | **0.53 (0.37-0.77)** | 420 44.5 | **0.48 (0.35-0.64)** | 160 41.2 | **0.54 (0.36-0.82)** |
| Non-Hispanic Black | 222 27.5 | **0.81 (0.52-1.26)** | 250 55.9 | **0.69 (0.49-0.97)** | 132 50.2 | **0.97 (0.57-1.63)** |
| Non-Hispanic Asian | 105 13.0 | **0.59 (0.25-1.38)** | 82 48.2 | **0.67 (0.39-1.17)** | 18 36.0 | **0.48 (0.15-1.55)** |
| Non-Hispanic Other | 202 38.0 | **0.92 (0.59-1.45)** | 437 64.2 | **0.91 (0.61-1.24)** | 326 53.1 | **0.79 (0.55-1.15)** |
| **Education** | | | |
| Less than HS | 134 42.6 REF | 418 63.4 REF | 369 54.8 REF |
| HS graduate | 706 38.4 | **1.12 (0.67-1.89)** | 1,477 61.0 | **0.95 (0.69-1.29)** | 1,060 57.2 | **1.04 (0.73-1.47)** |
| Some college | 745 32.6 | **0.93 (0.55-1.57)** | 1,565 60.4 | **0.88 (0.64-1.20)** | 798 55.7 | **1.04 (0.73-1.50)** |
| College graduate | 764 19.4 | **0.49 (0.28-0.85)** | 1,123 58.3 | **0.71 (0.50-0.99)** | 870 45.9 | **0.74 (0.51-1.07)** |
| **Household income** | | | |
| <$30,000 | 374 40.1 REF | 1,028 65.6 REF | 499 57.1 REF |
| $30,000-49,999 | 521 38.1 | **1.01 (0.66-1.54)** | 1,039 64.5 | **1.10 (0.84-1.44)** | 626 55.7 | **0.92 (0.65-1.29)** |
| $50,000-99,999 | 632 30.9 | **0.77 (0.51-1.15)** | 1,161 62.4 | **0.92 (0.71-1.20)** | 901 56.5 | **0.96 (0.69-1.33)** |
| ≥$100,000 | 374 32.6 | **0.59 (0.36-0.94)** | 557 52.4 | **0.74 (0.54-1.01)** | 568 49.7 | **0.83 (0.57-1.19)** |
| Unknown | 448 30.0 | **0.82 (0.53-1.27)** | 798 53.0 | **0.77 (0.58-1.03)** | 503 49.1 | **0.73 (0.51-1.04)** |
| **Marital status** | | | |
| Married | 663 40.6 REF | 2,160 64.0 REF | 1,733 53.9 REF |
| W/D/S | 152 48.7 | **0.90 (0.49-1.63)** | 1,090 67.0 | **1.06 (0.83-1.35)** | 572 57.7 | **1.03 (0.77-1.37)** |
| Single | 1,534 27.7 | **0.66 (0.48-0.90)** | 1,333 52.0 | **0.82 (0.65-1.02)** | 792 52.1 | **0.81 (0.61-1.06)** |
| **Year** | | | |
| 2012-2013 | 832 33.8 REF | 1,451 66.2 REF | 1,317 55.1 REF |
| 2013-2014 | 1,517 31.5 | **0.75 (0.57-0.98)** | 3,132 57.2 | **0.71 (0.58-0.86)** | 1,780 53.0 | **0.97 (0.80-1.20)** |
Supplementary Table 4. Prevalence of and Characteristics Associated with Wanting to Use a Tobacco Product So Much That It Was Difficult to Think of Anything Else during the Past 30 Days: Multivariable Logistic Regression Analysis

|                      | Among current cigarette smokers (N=15,495) | Among current cigar smokers (N=4,276) | Among current pipe smokers (N=765) |
|----------------------|-------------------------------------------|--------------------------------------|-----------------------------------|
| Overall              | 15,495 20.5                              | 4,276 16.4                           | 765 23.0                          |
| Polytobacco use status |                                           |                                      |                                   |
| Sole use             | 9,983 18.0 REF                           | 1,576 4.1 REF                       | 181 0.8 REF                       |
| Poly use             | 5,512 24.4 [1.49 (1.32-1.68)]            | 2,700 21.9 [5.36 (3.38-8.51)]       | 584 26.5 [33.37 (6.88-161.80)]    |
| Frequency of use     |                                           |                                      |                                   |
| Nondaily*            | 3,799 12.2 REF                           | 3,710 15.7 REF                      | 633 23.0 REF                      |
| Daily                | 11,696 23.2 [2.06 (1.77-2.40)]           | 566 21.5 [1.39 (0.97-1.99)]         | 132 22.6 [1.70 (0.83-3.50)]       |
| Gender               |                                           |                                      |                                   |
| Male                 | 7,650 19.4 [0.85 (0.75-0.95)]            | 3,621 14.6 [0.71 (0.52-0.97)]       | 686 21.2 [0.64 (0.32-1.28)]       |
| Female               | 7,845 21.9 REF                           | 655 25.8 REF                        | 79 36.8 REF                       |
| Age                  |                                           |                                      |                                   |
| 18-24                | 1,348 20.5 REF                           | 661 16.0 REF                        | 119 26.0 REF                      |
| 25-29                | 1,213 20.4 [1.05 (0.81-1.37)]            | 441 19.0 [1.36 (0.85-2.17)]         | 59 21.4 [0.71 (0.23-2.21)]        |
| 30-44                | 3,613 23.2 [1.24 (0.99-1.53)]            | 1,047 19.2 [1.57 (1.05-2.34)]       | 149 28.1 [1.35 (0.57-3.19)]       |
| 45-64                | 6,702 19.7 [0.95 (0.77-1.18)]            | 1,572 14.2 [1.17 (0.77-1.78)]       | 251 22.5 [0.55 (0.23-1.35)]       |
| 65+                  | 2,619 13.2 [0.59 (0.45-0.76)]            | 555 7.4 [0.62 (0.35-1.08)]          | 187 9.0 [0.28 (0.09-0.86)]        |
| Race/ethnicity       |                                           |                                      |                                   |
| Non-Hispanic White   | 10,888 21.0 REF                          | 3,052 14.5 REF                      | 546 20.7 REF                      |
| Hispanic             | 1,230 16.4 [0.76 (0.61-0.95)]            | 370 16.7 [1.05 (0.69-1.60)]         | 57 19.7 [0.71 (0.26-1.92)]        |
| Non-Hispanic Black   | 1,663 19.1 [0.93 (0.77-1.12)]            | 415 21.5 [1.23 (0.86-1.77)]         | 40 28.1 [1.68 (0.65-4.36)]        |
| Non-Hispanic Asian   | 188 15.7 [0.82 (0.47-1.42)]              | 33 8.0 [0.49 (0.12-1.94)]           | 8 23.3 [0.55 (0.04-7.40)]         |
| Non-Hispanic Other   | 1,526 25.8 [1.22 (1.01-1.48)]            | 406 23.0 [1.25 (0.83-1.89)]         | 114 33.6 [1.16 (0.54-2.50)]       |
| Education            |                                           |                                      |                                   |
| Less than HS         | 2,094 25.7 REF                           | 423 26.8 REF                        | 96 43.3 REF                       |
| HS graduate          | 5,195 20.5 [0.74 (0.62-0.87)]            | 1221 17.6 [0.76 (0.52-1.09)]        | 205 21.3 [0.41 (0.19-0.88)]       |
| Some college         | 4,537 17.8 [0.75 (0.63-0.90)]            | 1,197 15.8 [0.66 (0.45-0.97)]       | 190 9.7 [0.15 (0.06-0.38)]        |
| College graduate     | 3,669 18.7 [0.61 (0.50-0.74)]            | 1,435 8.2 [0.46 (0.30-0.71)]        | 274 21.6 [0.64 (0.29-1.40)]       |
| Household income     |                                           |                                      |                                   |
| <$30,000             | 4,407 25.7 REF                           | 890 29.0 REF                        | 188 39.2 REF                      |
| $30,000-49,999       | 3,514 20.5 [0.79 (0.67-0.93)]            | 839 18.2 [0.65 (0.46-0.93)]         | 154 19.9 [0.40 (0.18-0.90)]       |
| $50,000-99,999       | 3,410 17.8 [0.68 (0.57-0.81)]            | 1,044 11.8 [0.50 (0.33-0.74)]       | 208 16.4 [0.31 (0.14-0.67)]       |
| ≥$100,000            | 1,354 18.7 [0.80 (0.63-1.02)]            | 820 6.5 [0.32 (0.20-0.52)]          | 95 15.1 [0.28 (0.10-0.75)]        |
| Unknown              | 2,810 16.9 [0.63 (0.53-0.75)]            | 683 14.5 [0.50 (0.34-0.74)]         | 120 18.4 [0.37 (0.16-0.84)]       |
| Marital status       |                                           |                                      |                                   |
| Married              | 7,091 19.0 REF                           | 2,181 12.9 REF                      | 359 18.4 REF                      |
| W/D/S                | 4,757 23.2 [1.27 (1.11-1.47)]            | 857 20.4 [1.12 (0.80-1.56)]         | 204 28.9 [1.11 (0.53-2.35)]       |
| Single               | 3,647 20.7 [1.13 (0.97-1.31)]            | 1,238 19.2 [1.18 (0.85-1.62)]       | 202 25.7 [0.96 (0.45-2.02)]       |
| Year                 |                                           |                                      |                                   |
| 2012-2013            | 6,649 20.9 REF                           | 1759 16.9 REF                       | 328 25.9 REF                      |
| 2013-2014            | 8,846 20.1 [0.92 (0.82-1.04)]            | 2,517 15.9 [0.92 (0.71-1.18)]       | 437 19.9 [0.85 (0.50-1.45)]       |

Note. AOR = adjusted odds ratio; CI = confidence interval; HS = high school; N = unweighted sample size for the denominator; W/D/S = widowed/divorced/separated; %Poly = prevalence of dependence symptom. Ellipsis indicates not included in the model. Statistically significant AOR results are noted in bold.
*For non-cigarette tobacco users, this category includes some-day and rare users.
*aNot included in the model as a covariate because of small sample size.
### Supplementary Table 4 (continued)

| Among current hookah users (N=2,349) | Among current e-cigarette users (N=4,583) | Among current smokeless tobacco users (N=3,097) |
|--------------------------------------|-------------------------------------------|-----------------------------------------------|
| N          | Prev% | AOR (95% CI) | N          | Prev% | AOR (95% CI) | N          | Prev% | AOR (95% CI) |
| Overall    | 2,349 | 11.0        | 4,583     | 19.5  |            | 3,097     | 15.7  |            |
| Polytobacco use status               |                                            |                                            |
| Sole use                              | 969  | 1.2        | REF       | 923  | 5.6        | REF       | 1,691 | 7.7        | REF |
| Poly use                              | 1,380 | 17.7       | 13.79 (5.69-33.42) | 3,660 | 22.8       | 4.83 (3.35-6.96) | 1,046 | 22.9       | 4.16 (3.05-5.67) |
| Frequency of use                       |                                            |                                            |
| Nondaily*                             | 2,308 | 10.5       | REF       | 3,593 | 20.3       | REF       | 1,534 | 16.9       | REF |
| Daily                                 | 41    | 39.6       | a         | 990   | 16.2       | 1.03 (0.79-1.34) | 1,563 | 14.3       | 1.46 (1.10-1.94) |
| Gender                                |                                            |                                            |
| Male                                  | 1,442 | 11.9       | 0.94 (0.63-1.41) | 2,323 | 17.8       | 0.88 (0.71-1.09) | 2,879 | 14.8       | 0.43 (0.25-0.71) |
| Female                                | 907   | 9.6        | REF       | 2,260 | 21.6       | REF       | 218   | 29.7       | REF |
| Age                                   |                                            |                                            |
| 18-24                                 | 1,326 | 8.8        | REF       | 863   | 14.8       | REF       | 549   | 18.0       | REF |
| 25-29                                 | 524   | 11.9       | 1.43 (0.87-2.38) | 518   | 20.1       | 1.34 (0.89-2.03) | 341   | 18.1       | 1.40 (0.82-2.38) |
| 30-44                                 | 373   | 18.1       | 2.06 (1.21-3.51) | 1,180 | 21.4       | 1.47 (1.05-2.06) | 889   | 15.0       | 1.11 (0.71-1.72) |
| 45-64                                 | 110   | 11.0       | 0.74 (0.31-1.79) | 1,589 | 22.0       | 1.36 (0.96-1.94) | 954   | 14.5       | 1.29 (0.79-2.11) |
| 65+                                   | 16    | 46.7       | 3.24 (0.51-20.85) | 433   | 16.4       | 0.90 (0.54-1.49) | 364   | 9.7        | 0.75 (0.38-1.46) |
| Race/ethnicity                        |                                            |                                            |
| Non-Hispanic White                    | 1,410 | 11.7       | REF       | 3,394 | 19.9       | REF       | 2,461 | 14.8       | REF |
| Hispanic                              | 410   | 8.9        | 0.68 (0.40-1.18) | 420   | 12.4       | 0.57 (0.37-0.87) | 160   | 20.4       | 1.23 (0.71-2.13) |
| Non-Hispanic Black                    | 222   | 10.3       | 0.98 (0.54-1.76) | 250   | 22.1       | 1.10 (0.75-1.60) | 132   | 17.2       | 1.11 (0.55-2.23) |
| Non-Hispanic Asian                    | 105   | 4.7        | 0.80 (0.27-2.32) | 82    | 19.1       | 1.26 (0.56-2.84) | 18    | 4.3        | 0.21 (0.03-1.82) |
| Non-Hispanic Other                    | 202   | 15.8       | 1.36 (0.77-2.38) | 437   | 25.2       | 1.27 (0.89-1.80) | 326   | 19.8       | 1.15 (0.75-1.77) |
| Education                             |                                            |                                            |
| Less than HS                          | 134   | 17.0       | REF       | 418   | 28.3       | REF       | 369   | 23.7       | REF |
| HS graduate                           | 706   | 13.4       | 0.87 (0.49-1.53) | 1,477 | 19.5       | 0.65 (0.46-0.92) | 1,060 | 16.3       | 0.68 (0.45-1.01) |
| Some college                          | 745   | 9.5        | 0.62 (0.33-1.16) | 1,565 | 17.7       | 0.58 (0.41-0.82) | 798   | 15.8       | 0.65 (0.41-1.01) |
| College graduate                      | 764   | 6.8        | 0.48 (0.24-0.98) | 1,123 | 16.1       | 0.50 (0.34-0.73) | 870   | 8.9        | 0.38 (0.23-0.63) |
| Household income                      |                                            |                                            |
| <$30,000                               | 374   | 18.1       | REF       | 1,028 | 26.4       | REF       | 499   | 21.2       | REF |
| $30,000-49,999                         | 521   | 11.0       | 0.55 (0.32-0.95) | 1,093 | 19.6       | 0.78 (0.57-1.06) | 626   | 17.3       | 0.91 (0.59-1.42) |
| $50,000-99,999                         | 632   | 9.2        | 0.48 (0.28-0.81) | 1,161 | 18.8       | 0.74 (0.54-0.99) | 901   | 13.1       | 0.75 (0.49-1.15) |
| ≥$100,000                              | 374   | 8.6        | 0.56 (0.29-1.08) | 557   | 12.6       | 0.53 (0.36-0.77) | 568   | 12.5       | 0.87 (0.52-1.47) |
| Unknown                                | 448   | 9.3        | 0.57 (0.32-1.02) | 798   | 16.7       | 0.70 (0.50-0.98) | 503   | 16.5       | 0.82 (0.51-1.32) |
| Marital status                         |                                            |                                            |
| Married                                | 663   | 14.0       | REF       | 2,160 | 19.3       | REF       | 1,733 | 12.7       | REF |
| W/D/S                                  | 152   | 18.8       | 1.05 (0.53-2.09) | 1,090 | 25.0       | 1.29 (1.00-1.67) | 572   | 21.8       | 1.60 (1.12-2.28) |
| Single                                 | 1,534 | 9.0        | 0.75 (0.48-1.56) | 1,333 | 16.4       | 0.91 (0.68-1.21) | 792   | 17.6       | 1.17 (0.79-1.75) |
| Year                                   |                                            |                                            |
| 2012-2013                              | 832   | 11.4       | REF       | 1,451 | 22.0       | REF       | 1,317 | 15.4       | REF |
| 2013-2014                              | 1,517 | 10.7       | 0.84 (0.58-1.22) | 3,132 | 17.9       | 0.81 (0.65-1.01) | 1,780 | 16.0       | 1.15 (0.86-1.54) |
### Supplementary Table 5. Prevalence of and Characteristics Associated with Often/Always Feeling Irritable or Restless When Not Using Tobacco for a While: Multivariable Logistic Regression Analysis

|                        | Among current cigarette smokers (N=15,495) | Among current cigar smokers (N=4,276) | Among current pipe smokers (N=765) |
|------------------------|-------------------------------------------|--------------------------------------|-----------------------------------|
|                        | Overall                                   |                                      |                                   |
|                        | N                          | Prev% | AOR (95% CI) | N                          | Prev% | AOR (95% CI) | N                          | Prev% | AOR (95% CI) |
|                        | 15,495                         | 38.2  | ...         | 4,276                        | 28.3  | ...         | 765                         | 35.4  | ...         |
| Polytobacco use status |                              |       |             |                              |       |             |                              |       |             |
| Sole use               | 9,983                         | 35.4  | REF         | 1,576                        | 5.9   | REF         | 181                         | 8.14  | REF         |
| Poly use               | 5,512                         | 42.5  | 1.37 (1.24-1.52) | 2,700                        | 38.3  | 9.00 (6.51-12.44) | 584                         | 39.7  | 6.35 (2.85-14.16) |
| Frequency of use       |                              |       |             |                              |       |             |                              |       |             |
| Nondaily*              | 3,799                         | 16.8  | REF         | 3,710                        | 27.2  | REF         | 633                         | 34.8  | REF         |
| Daily                  | 11,696                        | 45.1  | 3.72 (3.25-4.25) | 566                          | 36.3  | 1.80 (1.28-2.53) | 132                         | 39.3  | 2.12 (0.99-4.53) |
| Gender                 |                              |       |             |                              |       |             |                              |       |             |
| Male                   | 7,650                         | 36.6  | 0.88 (0.80-0.97) | 3,621                        | 26.1  | 0.70 (0.53-0.92) | 686                         | 33.4  | 0.67 (0.34-1.31) |
| Female                 | 7,845                         | 40.1  | REF         | 655                          | 40.2  | REF         | 79                          | 50.4  | REF         |
| Age                    |                              |       |             |                              |       |             |                              |       |             |
| 18-24                  | 1,348                         | 36.0  | REF         | 661                          | 29.0  | REF         | 119                         | 37.7  | REF         |
| 25-29                  | 1,213                         | 33.9  | 0.94 (0.75-1.17) | 441                          | 27.4  | 0.95 (0.65-1.39) | 59                          | 31.5  | 0.82 (0.35-1.95) |
| 30-44                  | 3,613                         | 42.5  | 1.32 (1.09-1.60) | 1,047                        | 32.8  | 1.31 (0.95-1.81) | 149                         | 43.9  | 1.46 (0.69-3.08) |
| 45-64                  | 6,702                         | 39.2  | 0.54 (0.43-0.67) | 1,572                        | 25.6  | 0.94 (0.67-1.31) | 251                         | 34.8  | 0.72 (0.34-1.52) |
| Education              |                              |       |             |                              |       |             |                              |       |             |
| Less than HS           | 2,094                         | 42.1  | REF         | 423                          | 42.3  | REF         | 96                          | 53.3  | REF         |
| HS graduate            | 5,195                         | 39.0  | 0.79 (0.68-0.92) | 1,221                        | 31.1  | 0.77 (0.55-1.07) | 205                         | 39.1  | 0.63 (0.30-1.32) |
| Some college           | 4,537                         | 37.5  | 0.77 (0.66-0.90) | 1,197                        | 28.2  | 0.65 (0.46-0.91) | 190                         | 23.7  | 0.28 (0.13-0.61) |
| College graduate       | 3,669                         | 31.9  | 0.65 (0.55-0.77) | 1,435                        | 14.8  | 0.40 (0.28-0.59) | 274                         | 47.7  | 1.07 (0.50-2.31) |
| Household income       |                              |       |             |                              |       |             |                              |       |             |
| <$30,000               | 4,407                         | 43.1  | REF         | 890                          | 43.4  | REF         | 188                         | 52.5  | REF         |
| $30,000-$49,999        | 3,514                         | 39.1  | 0.86 (0.75-0.98) | 839                          | 31.5  | 0.68 (0.50-0.92) | 154                         | 35.1  | 0.48 (0.24-0.94) |
| $50,000-$99,999        | 3,410                         | 36.5  | 0.73 (0.64-0.85) | 1,044                        | 23.7  | 0.55 (0.40-0.76) | 208                         | 31.1  | 0.38 (0.19-0.76) |
| ≥$100,000             | 1,354                         | 33.4  | 0.73 (0.60-0.88) | 820                          | 14.4  | 0.38 (0.26-0.56) | 95                          | 14.5  | 0.14 (0.05-0.39) |
| Unknown                | 2,810                         | 34.0  | 0.72 (0.62-0.84) | 683                          | 25.7  | 0.53 (0.37-0.74) | 120                         | 30.9  | 0.52 (0.27-1.00) |
| Marital status         |                              |       |             |                              |       |             |                              |       |             |
| Married                | 7,091                         | 39.0  | REF         | 2,181                        | 26.1  | REF         | 359                         | 32.4  | REF         |
| W/D/S                 | 4,757                         | 40.3  | 1.04 (0.92-1.17) | 857                          | 36.4  | 1.01 (0.76-1.33) | 204                         | 41.6  | 0.91 (0.50-1.68) |
| Single                 | 3,647                         | 34.7  | 0.94 (0.83-1.08) | 1,238                        | 27.3  | 0.70 (0.54-0.92) | 202                         | 35.3  | 0.70 (0.37-1.32) |
| Year                   |                              |       |             |                              |       |             |                              |       |             |
| 2012-2013             | 6,649                         | 39.1  | REF         | 1759                         | 28.0  | REF         | 328                         | 39.4  | REF         |
| 2013-2014             | 8,846                         | 37.3  | 0.89 (0.81-0.99) | 2,517                        | 28.7  | 1.01 (0.81-1.25) | 437                         | 31.1  | 0.80 (0.51-1.26) |

Note. AOR = adjusted odds ratio; CI = confidence interval; HS = high school; N = unweighted sample size for the denominator; W/D/S = widowed/divorced/separated; %Poly = prevalence of dependence symptom. Ellipsis indicates not included in the model. Statistically significant AOR results are noted in bold.

*For non-cigarette tobacco users, this category includes some-day and rare users.

*Not included in the model as a covariate because of small sample size.
## Supplementary Table 5
(continued)

|                          | Among current hookah users (N=2,349) | Among current e-cigarette users (N=4,583) | Among current smokeless tobacco users (N=3,097) |
|--------------------------|--------------------------------------|--------------------------------------------|-----------------------------------------------|
|                          | N          | Prev%| AOR (95% CI) | N          | Prev%| AOR (95% CI) | N          | Prev%| AOR (95% CI) |
| Overall                  | 2,349     | 16.5 | …           | 4,583     | 33.7 | …           | 3,097     | 32.9 | …           |
| Polytobacco use status   |           |      |             |           |      |             |           |      |             |
| Sole use                 | 969       | 1.3  | REF         | 923       | 12.6 | REF         | 1,691     | 24.6 | REF         |
| Poly use                 | 1,380     | 26.9 | 20.49 (10.28-40.86) | 3,660     | 38.7 | 4.76 (3.56-6.36) | 1,046     | 40.5 | 2.86 (2.29-3.57) |
| Frequency of use         |           |      |             |           |      |             |           |      |             |
| Nondaily*                | 2,308     | 16.1 | REF         | 3,593     | 34.1 | REF         | 1,534     | 36.3 | REF         |
| Daily                    | 41        | 34.3 | a           | 990       | 32.1 | 1.24 (0.99-1.56) | 1,563     | 35.6 | 1.86 (1.49-2.32) |
| Gender                   |           |      |             |           |      |             |           |      |             |
| Male                     | 1,442     | 18.7 | 1.17 (0.84-1.63) | 2,323     | 31.7 | 0.92 (0.77-1.10) | 2,879     | 32.6 | 0.76 (0.49-2.32) |
| Female                   | 907       | 12.9 | REF         | 2,260     | 36.3 | REF         | 218       | 37.6 | REF         |
| Age                      |           |      |             |           |      |             |           |      |             |
| 18-24                    | 1,326     | 13.7 | REF         | 863       | 24.7 | REF         | 549       | 31.3 | REF         |
| 25-29                    | 524       | 17.2 | 1.32 (0.87-2.01) | 518       | 30.6 | 1.26 (0.90-1.78) | 341       | 28.2 | 1.02 (0.68-1.54) |
| 30-44                    | 373       | 23.6 | 1.74 (1.11-2.73) | 1,180     | 38.8 | 1.92 (1.44-2.55) | 889       | 38.6 | 1.65 (1.17-2.33) |
| 45-64                    | 110       | 28.2 | 1.50 (0.74-3.05) | 1,589     | 38.7 | 1.71 (1.28-2.30) | 954       | 30.5 | 1.25 (0.87-1.81) |
| 65+                      | 16        | 52.8 | 2.86 (0.43-19.20) | 433       | 29.2 | 1.03 (0.68-1.57) | 364       | 28.5 | 1.10 (0.69-1.74) |
| Race/ethnicity           |           |      |             |           |      |             |           |      |             |
| Non-Hispanic White       | 1,410     | 19.3 | REF         | 3,394     | 35.5 | REF         | 2,461     | 33.4 | REF         |
| Hispanic                 | 410       | 11.8 | 0.51 (0.32-0.80) | 420       | 24.4 | 0.62 (0.45-0.86) | 160       | 30.2 | 0.82 (0.53-1.28) |
| Non-Hispanic Black       | 222       | 10.7 | 0.53 (0.30-0.96) | 250       | 27.8 | 0.66 (0.44-0.99) | 132       | 35.4 | 1.12 (0.66-1.91) |
| Non-Hispanic Asian       | 105       | 7.1  | 0.76 (0.27-2.13) | 82        | 26.6 | 0.80 (0.41-1.57) | 18        | 16.1 | 0.44 (0.11-1.79) |
| Non-Hispanic Other       | 202       | 22.4 | 1.13 (0.70-1.84) | 437       | 39.5 | 1.10 (0.82-1.48) | 326       | 31.3 | 0.81 (0.56-1.17) |
| Education                |           |      |             |           |      |             |           |      |             |
| Less than HS             | 134       | 31.5 | REF         | 418       | 41.9 | REF         | 369       | 42.4 | REF         |
| HS graduate              | 706       | 18.9 | 0.58 (0.34-1.01) | 1,477     | 33.2 | 0.72 (0.53-0.97) | 1,060     | 32.5 | 0.64 (0.45-0.90) |
| Some college             | 745       | 15.0 | 0.46 (0.26-0.82) | 1,565     | 33.1 | 0.70 (0.52-0.95) | 798       | 34.2 | 0.73 (0.51-1.05) |
| College graduate         | 764       | 8.4  | 0.25 (0.14-0.48) | 1,123     | 29.7 | 0.55 (0.39-0.76) | 870       | 25.8 | 0.52 (0.36-0.77) |
| Household income         |           |      |             |           |      |             |           |      |             |
| <$30,000                 | 374       | 22.5 | REF         | 1,028     | 39.6 | REF         | 499       | 35.0 | REF         |
| $30,000-49,999           | 521       | 19.8 | 0.86 (0.54-1.37) | 1,039     | 34.2 | 0.91 (0.70-1.18) | 626       | 37.5 | 1.17 (0.82-1.67) |
| $50,000-99,999           | 632       | 17.0 | 0.73 (0.46-1.18) | 1,161     | 33.0 | 0.80 (0.62-1.03) | 901       | 31.8 | 0.92 (0.65-1.31) |
| ≥$100,000               | 374       | 9.8  | 0.46 (0.26-0.83) | 557       | 26.9 | 0.70 (0.51-0.96) | 568       | 28.3 | 0.86 (0.58-1.27) |
| Unknown                  | 448       | 12.5 | 0.57 (0.35-0.92) | 798       | 31.8 | 0.92 (0.70-1.21) | 503       | 32.0 | 0.89 (0.61-1.30) |
| Marital status           |           |      |             |           |      |             |           |      |             |
| Married                  | 663       | 22.0 | REF         | 2,160     | 35.4 | REF         | 1,733     | 32.2 | REF         |
| W/D/S                    | 152       | 27.5 | 0.94 (0.53-1.68) | 1,090     | 40.3 | 1.15 (0.92-1.44) | 572       | 37.1 | 1.04 (0.78-1.39) |
| Single                   | 1,534     | 13.2 | 0.66 (0.46-0.96) | 1,333     | 27.2 | 0.83 (0.66-1.05) | 792       | 31.8 | 0.98 (0.61-1.30) |
| Year                     |           |      |             |           |      |             |           |      |             |
| 2012-2013                | 832       | 17.3 | REF         | 1,451     | 38.3 | REF         | 1,317     | 32.5 | REF         |
| 2013-2014                | 1,517     | 15.7 | 0.84 (0.61-1.15) | 3,132     | 30.9 | 0.73 (0.60-0.88) | 1,780     | 33.4 | 1.09 (0.88-1.34) |