Supplementary Tables

Supplementary Table 1: Demographic Factors Associated with the Top 3 Flavor Types Used with Smokeless Tobacco in the Past 30 Days among Past 30-day Users of Flavored Smokeless Tobacco, by Specific Flavor (n=906)

Supplementary Table 2: Demographic Factors Associated with the Top 3 Flavor Types Used with Hookah in the Past 30 Days among Past 30-day Users of Flavored Hookah, by Specific Flavor (n=1,118)
## Supplementary Table 1: Demographic Factors Associated with the Top 3 Flavor Types Used with Smokeless Tobacco in the Past 30 Days among Past 30-day Cigarette Smoking Status

<table>
<thead>
<tr>
<th></th>
<th>Menthol/Mint Flavor**</th>
<th>Clove/Spice/Herb Flavor**</th>
<th>Fruit Flavor**</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>n (%) (95% CI)</td>
<td>p†</td>
<td>n (%) (95% CI)</td>
</tr>
<tr>
<td>Overall</td>
<td>692 (76.9 (73.1-80.3)</td>
<td>114 (12.3 (9.9-15.3)</td>
<td>106 (10.8 (8.5-13.6)</td>
</tr>
<tr>
<td>Gender</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Male</td>
<td>643 (76.6 (72.6-80.1)</td>
<td>109 (12.8 (10.2-15.9)</td>
<td>94 (10.9 (8.5-13.8)</td>
</tr>
<tr>
<td>Female</td>
<td>41 (80.7 (64.7-90.4)</td>
<td>5</td>
<td>12</td>
</tr>
<tr>
<td>Age group (years)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>18-24</td>
<td>193 (80.6 (72.4-86.7)</td>
<td>16 (7.7 (4.3-13.4)</td>
<td>32 (13.9 (9.0-20.8)</td>
</tr>
<tr>
<td>25-29</td>
<td>96 (82.0 (72.8-88.6)</td>
<td>16 (14.4 (8.3-23.9)</td>
<td>18 (12.9 (7.6-21.2)</td>
</tr>
<tr>
<td>30-44</td>
<td>195 (75.2 (68.0-81.3)</td>
<td>35 (13.7 (9.1-20.0)</td>
<td>26 (7.7 (4.8-12.2)</td>
</tr>
<tr>
<td>45-64</td>
<td>161 (73.4 (65.8-79.8)</td>
<td>34 (14.7 (10.1-20.9)</td>
<td>22 (9.4 (5.5-15.6)</td>
</tr>
<tr>
<td>65+</td>
<td>44 (59.5 (44.2-73.2)</td>
<td>12</td>
<td>8</td>
</tr>
<tr>
<td>Race/Ethnicity</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>White, Non-Hispanic</td>
<td>548 (77.1 (73.1-80.7)</td>
<td>97 (12.3 (9.7-15.5)</td>
<td>84 (11.0 (8.5-14.2)</td>
</tr>
<tr>
<td>Black, Non-Hispanic</td>
<td>24 (65.1 (39.9-84.0)</td>
<td>5</td>
<td>3</td>
</tr>
<tr>
<td>Hispanic</td>
<td>61 (81.7 (67.8-90.5)</td>
<td>7</td>
<td>11</td>
</tr>
<tr>
<td>Other, Non-Hispanic*</td>
<td>44 (75.0 (57.3-87.0)</td>
<td>5</td>
<td>7</td>
</tr>
<tr>
<td>Annual Household Income ($)</td>
<td></td>
<td>0.400</td>
<td></td>
</tr>
<tr>
<td>&lt; 20,000</td>
<td>45 (69.5 (53.9-81.7)</td>
<td>5</td>
<td>19 (22.8 (12.9-37.1)</td>
</tr>
<tr>
<td>20,000-49,999</td>
<td>191 (81.9 (75.0-87.2)</td>
<td>28 (11.6 (7.3-17.7)</td>
<td>25 (9.7 (6.0-15.2)</td>
</tr>
<tr>
<td>50,000-99,999</td>
<td>166 (75.3 (67.7-81.6)</td>
<td>27 (11.0 (6.9-17.0)</td>
<td>30 (13.0 (8.3-19.7)</td>
</tr>
<tr>
<td>≥ 100,000</td>
<td>135 (78.4 (68.9-85.6)</td>
<td>21 (13.0 (7.9-20.8)</td>
<td>15</td>
</tr>
<tr>
<td>Unspecified</td>
<td>155 (74.3 (65.3-81.7)</td>
<td>33 (14.5 (9.4-21.6)</td>
<td>17 (6.3 (3.5-11.3)</td>
</tr>
<tr>
<td>Education</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Less than High School</td>
<td>82 (77.1 (65.3-85.7)</td>
<td>14</td>
<td>12</td>
</tr>
<tr>
<td>High School diploma/GED</td>
<td>219 (74.1 (67.4-79.8)</td>
<td>36 (12.0 (8.4-16.9)</td>
<td>38 (13.2 (8.9-18.9)</td>
</tr>
<tr>
<td>Some College</td>
<td>233 (78.8 (72.2-84.1)</td>
<td>42 (13.7 (9.4-19.6)</td>
<td>32 (8.7 (5.6-15.1)</td>
</tr>
<tr>
<td>Bachelor’s degree or higher</td>
<td>149 (79.2 (71.5-85.2)</td>
<td>21 (10.9 (6.8-17.1)</td>
<td>24 (11.1 (6.7-17.9)</td>
</tr>
<tr>
<td>U.S. Census Region</td>
<td></td>
<td>0.006</td>
<td>0.189</td>
</tr>
<tr>
<td>Northeast</td>
<td>90 (78.4 (68.6-85.8)</td>
<td>14 (10.9 (6.0-19.0)</td>
<td>23 (17.8 (10.6-28.4)</td>
</tr>
<tr>
<td>Midwest</td>
<td>178 (80.2 (72.5-86.1)</td>
<td>24 (10.0 (6.2-15.6)</td>
<td>28 (10.8 (6.8-16.7)</td>
</tr>
<tr>
<td>South</td>
<td>249 (71.1 (64.7-76.7)</td>
<td>53 (15.3 (11.2-20.7)</td>
<td>36 (10.3 (6.9-14.9)</td>
</tr>
<tr>
<td>West</td>
<td>175 (86.1 (79.1-91.1)</td>
<td>23 (9.0 (5.1-15.3)</td>
<td>19</td>
</tr>
<tr>
<td>Sexual Orientation</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Heterosexual/Straight</td>
<td>585 (76.4 (72.3-80.1)</td>
<td>96 (12.2 (9.6-15.3)</td>
<td>92 (11.4 (8.9-14.5)</td>
</tr>
<tr>
<td>Lesbian, gay or bisexual</td>
<td>24</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Unspecified</td>
<td>83 (75.8 (63.3-85.0)</td>
<td>15</td>
<td>11</td>
</tr>
<tr>
<td>Cigarette Smoking Status</td>
<td></td>
<td>0.467</td>
<td></td>
</tr>
<tr>
<td>Current Smoker</td>
<td>246 (78.0 (71.7-83.2)</td>
<td>39 (10.7 (7.2-15.6)</td>
<td>43 (12.5 (8.6-17.9)</td>
</tr>
<tr>
<td>Recent Former Smoker</td>
<td>47 (84.5 (68.9-93.1)</td>
<td>3</td>
<td>10</td>
</tr>
<tr>
<td>Long-Term Former Smoker</td>
<td>158 (73.1 (65.4-79.5)</td>
<td>37 (15.5 (10.7-22.0)</td>
<td>23 (9.4 (5.6-15.3)</td>
</tr>
<tr>
<td>Never Smoker</td>
<td>233 (76.7 (69.2-82.8)</td>
<td>34 (12.8 (8.5-18.8)</td>
<td>29 (9.0 (5.7-13.9)</td>
</tr>
</tbody>
</table>
GED=General Education Development Certificate; n=unweighted number of specific flavor users

* Other, Non-Hispanic includes Asian, Non-Hispanic; Native Hawaiian or Other Pacific Islander, Non-Hispanic; American Indian or Alaska Native, Non-Hispanic; Multiracial, Non-Hispanic and Other race, Non-Hispanic

† the relative SE was ≥30% or denominator less than 50

‡ P-value based on Satterthwaite-adjusted Wald chi-square

¶ P-value not presented due to unstable estimates for one or more demographic groups.

**Flavored smokeless tobacco users were allowed to report the use of more than one flavor thus, proportions of specific flavor used may add to more than 100%.
<table>
<thead>
<tr>
<th></th>
<th>Fruit Flavor**</th>
<th></th>
<th>Menthol/Mint Flavor**</th>
<th></th>
<th>Candy, chocolate or other sweet Flavor**</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>n</td>
<td>% (95% CI)</td>
<td>p1</td>
<td>n</td>
<td>% (95% CI)</td>
<td>p1</td>
</tr>
<tr>
<td>Overall</td>
<td>852</td>
<td>74.0 (70.4-77.4)</td>
<td></td>
<td>214</td>
<td>18.9 (15.9-22.2)</td>
<td></td>
</tr>
<tr>
<td>Gender</td>
<td></td>
<td></td>
<td>0.457</td>
<td></td>
<td></td>
<td>0.862</td>
</tr>
<tr>
<td>Male</td>
<td>486</td>
<td>75.4 (70.6-79.7)</td>
<td></td>
<td>124</td>
<td>19.1 (15.2-23.8)</td>
<td></td>
</tr>
<tr>
<td>Female</td>
<td>357</td>
<td>72.7 (66.8-77.9)</td>
<td></td>
<td>87</td>
<td>18.6 (14.3-23.7)</td>
<td></td>
</tr>
<tr>
<td>Age group (years)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>18-24</td>
<td>480</td>
<td>73.5 (68.6-77.9)</td>
<td></td>
<td>120</td>
<td>18.0 (14.3-22.5)</td>
<td></td>
</tr>
<tr>
<td>25-29</td>
<td>195</td>
<td>73.1 (64.8-80.1)</td>
<td></td>
<td>53</td>
<td>22.6 (16.4-30.2)</td>
<td></td>
</tr>
<tr>
<td>30-44</td>
<td>150</td>
<td>78.2 (69.584.9)</td>
<td></td>
<td>34</td>
<td>17.8 (11.7-26.0)</td>
<td></td>
</tr>
<tr>
<td>45-64</td>
<td>25</td>
<td>78.2 (69.584.9)</td>
<td></td>
<td>6</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>65+</td>
<td>1</td>
<td>78.2 (69.584.9)</td>
<td></td>
<td>0</td>
<td>0</td>
<td></td>
</tr>
<tr>
<td>Race/Ethnicity</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>White, Non-Hispanic</td>
<td>500</td>
<td>78.6 (74.2-82.4)</td>
<td></td>
<td>115</td>
<td>17.7 (14.1-21.9)</td>
<td></td>
</tr>
<tr>
<td>Black, Non-Hispanic</td>
<td>104</td>
<td>72.2 (61.5-80.8)</td>
<td></td>
<td>24</td>
<td>13.5 (8.6-20.4)</td>
<td></td>
</tr>
<tr>
<td>Hispanic</td>
<td>95</td>
<td>64.6 (52.8-74.9)</td>
<td></td>
<td>28</td>
<td>24.5 (15.5-36.5)</td>
<td></td>
</tr>
<tr>
<td>Other, Non-Hispanic</td>
<td>144</td>
<td>73.1 (64.2-80.5)</td>
<td></td>
<td>47</td>
<td>22.7 (15.8-31.4)</td>
<td></td>
</tr>
<tr>
<td>Annual Household Income ($)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&lt; 20,000</td>
<td>72</td>
<td>78.0 (61.2-88.8)</td>
<td></td>
<td>16</td>
<td>16.4 (9.2-25.5)</td>
<td></td>
</tr>
<tr>
<td>20,000-49,999</td>
<td>249</td>
<td>73.6 (66.7-79.6)</td>
<td></td>
<td>74</td>
<td>20.5 (15.4-26.7)</td>
<td></td>
</tr>
<tr>
<td>50,000-99,999</td>
<td>219</td>
<td>77.5 (71.2-82.8)</td>
<td></td>
<td>55</td>
<td>18.4 (13.6-24.5)</td>
<td></td>
</tr>
<tr>
<td>≥ 100,000</td>
<td>115</td>
<td>67.1 (56.0-76.5)</td>
<td></td>
<td>24</td>
<td>19.5 (11.9-30.3)</td>
<td></td>
</tr>
<tr>
<td>Unspecified</td>
<td>197</td>
<td>74.0 (66.0-80.6)</td>
<td></td>
<td>45</td>
<td>18.3 (12.3-26.4)</td>
<td></td>
</tr>
<tr>
<td>Education</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Less than High School</td>
<td>47</td>
<td>73.3 (57.3-84.9)</td>
<td></td>
<td>4</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>High School diploma/GED</td>
<td>238</td>
<td>70.6 (63.7-76.6)</td>
<td></td>
<td>69</td>
<td>21.9 (16.5-28.5)</td>
<td></td>
</tr>
<tr>
<td>Some College</td>
<td>296</td>
<td>74.7 (68.7-80.0)</td>
<td></td>
<td>71</td>
<td>17.6 (13.5-22.7)</td>
<td></td>
</tr>
<tr>
<td>Bachelor’s degree or higher</td>
<td>261</td>
<td>79.9 (73.4-85.1)</td>
<td></td>
<td>68</td>
<td>21.1 (15.9-27.3)</td>
<td></td>
</tr>
<tr>
<td>U.S. Census Region</td>
<td></td>
<td></td>
<td>0.687</td>
<td></td>
<td></td>
<td>0.010</td>
</tr>
<tr>
<td>Northeast</td>
<td>178</td>
<td>71.8 (62.8-79.4)</td>
<td></td>
<td>57</td>
<td>31.6 (22.9-41.7)</td>
<td></td>
</tr>
<tr>
<td>Midwest</td>
<td>155</td>
<td>75.2 (66.0-82.6)</td>
<td></td>
<td>34</td>
<td>14.6 (9.4-22.0)</td>
<td></td>
</tr>
<tr>
<td>South</td>
<td>264</td>
<td>72.4 (66.0-78.1)</td>
<td></td>
<td>65</td>
<td>16.1 (12.1-21.0)</td>
<td></td>
</tr>
<tr>
<td>West</td>
<td>255</td>
<td>77.1 (70.3-82.7)</td>
<td></td>
<td>58</td>
<td>15.7 (11.7-20.8)</td>
<td></td>
</tr>
<tr>
<td>Sexual Orientation</td>
<td></td>
<td></td>
<td>0.541</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Heterosexual/Straight</td>
<td>649</td>
<td>73.5 (69.2-77.3)</td>
<td></td>
<td>165</td>
<td>18.9 (15.6-22.6)</td>
<td></td>
</tr>
<tr>
<td>Lesbian, gay or bisexual</td>
<td>94</td>
<td>72.0 (59.5-81.9)</td>
<td></td>
<td>31</td>
<td>22.9 (15.2-33.1)</td>
<td></td>
</tr>
<tr>
<td>Unspecified</td>
<td>109</td>
<td>78.9 (68.7-86.4)</td>
<td></td>
<td>18</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>Cigarette Smoking Status</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Current Smoker</td>
<td>289</td>
<td>75.0 (68.6-80.5)</td>
<td></td>
<td>58</td>
<td>13.5 (9.8-18.4)</td>
<td></td>
</tr>
<tr>
<td>Recent Former Smoker</td>
<td>47</td>
<td>80.9 (67.1-89.7)</td>
<td></td>
<td>16</td>
<td>15.3 (8.4-26.2)</td>
<td></td>
</tr>
<tr>
<td>Long-Term Former Smoker</td>
<td>49</td>
<td>71.4 (52.4-85.0)</td>
<td></td>
<td>12</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>Never Smoker</td>
<td>458</td>
<td>72.6 (67.4-77.2)</td>
<td></td>
<td>127</td>
<td>24.0 (19.5-29.3)</td>
<td></td>
</tr>
</tbody>
</table>
GED=General Education Development Certificate; n=unweighted number of specific flavor users

* Other, Non-Hispanic includes Asian, Non-Hispanic; Native Hawaiian or Other Pacific Islander, Non-Hispanic; American Indian or Alaska Native, Non-Hispanic; Multiracial, Non-Hispanic and Other race, Non-Hispanic

† the relative SE was ≥30% or denominator less than 50

‡ P-value based on Satterthwaite-adjusted Wald chi-square

¶ P-value not presented due to unstable estimates for one or more demographic groups.

**Flavored hookah users were allowed to report the use of more than one flavor thus, proportions of specific flavor used may add to more than 100%.