Supplemental Table S1: Adjusted odds ratios of self-reported difficulty concentrating, remembering, or making decisions because of a physical, mental, or emotional condition in youth.

<table>
<thead>
<tr>
<th>Variables</th>
<th>Adjusted Odds Ratio (95% CI)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Smoking and Vaping Status</td>
<td></td>
</tr>
<tr>
<td>Ever dual users</td>
<td>4.19(2.97,5.92)</td>
</tr>
<tr>
<td>Exclusive ever cigarette smokers</td>
<td>1.50(1.18,1.91)</td>
</tr>
<tr>
<td>Exclusive ever e-cigarette users</td>
<td>3.13(2.25,4.34)</td>
</tr>
<tr>
<td>Never users</td>
<td>Reference</td>
</tr>
<tr>
<td>Age of participant</td>
<td></td>
</tr>
<tr>
<td>Male</td>
<td>1.40(1.27,1.54)</td>
</tr>
<tr>
<td>Female</td>
<td>Reference</td>
</tr>
<tr>
<td>Sex</td>
<td></td>
</tr>
<tr>
<td>Non-Hispanic Black</td>
<td>1.19(1.00,1.42)</td>
</tr>
<tr>
<td>Hispanic</td>
<td>1.29(1.12,1.48)</td>
</tr>
<tr>
<td>Non-Hispanic Asian</td>
<td>0.70(0.50,0.98)</td>
</tr>
<tr>
<td>Non-Hispanic Al/AN</td>
<td>1.93(1.36,2.73)</td>
</tr>
<tr>
<td>Non-Hispanic NHOPI</td>
<td>1.44(0.79,2.62)</td>
</tr>
<tr>
<td>Multiple races</td>
<td>1.26(0.99,1.61)</td>
</tr>
<tr>
<td>Non-Hispanic White</td>
<td>Reference</td>
</tr>
<tr>
<td>Other tobacco use</td>
<td></td>
</tr>
<tr>
<td>Yes</td>
<td>1.07(0.91,1.27)</td>
</tr>
<tr>
<td>No</td>
<td>Reference</td>
</tr>
<tr>
<td>During the past 30 days, have you had a strong craving or felt like you really needed to use a tobacco product of any kind?</td>
<td></td>
</tr>
<tr>
<td>Yes</td>
<td>2.64(2.14,3.24)</td>
</tr>
<tr>
<td>No</td>
<td>Reference</td>
</tr>
<tr>
<td>During the past 30 days, on how many days did you use any tobacco product(s)?</td>
<td></td>
</tr>
<tr>
<td>1 or 2 days</td>
<td>1.01(0.75,1.37)</td>
</tr>
<tr>
<td>3 to 5 days</td>
<td>1.07(0.74,1.55)</td>
</tr>
<tr>
<td>6 to 9 days</td>
<td>0.50(0.34,0.74)</td>
</tr>
<tr>
<td>10 to 19 days</td>
<td>1.13(0.74,1.73)</td>
</tr>
<tr>
<td>20 to 29 days</td>
<td>0.45(0.26,0.79)</td>
</tr>
<tr>
<td>All 30 days</td>
<td>0.64(0.44,0.93)</td>
</tr>
<tr>
<td>0 days</td>
<td>Reference</td>
</tr>
<tr>
<td>Reported you smoked cigarettes on &gt;= 1 of the past 30 days</td>
<td></td>
</tr>
<tr>
<td>Yes</td>
<td>1.52(1.17,1.98)</td>
</tr>
<tr>
<td>No</td>
<td>Reference</td>
</tr>
<tr>
<td>How old were you when you first tried using an e-cigarette, even once or twice?</td>
<td>0.89(0.85,0.93)</td>
</tr>
</tbody>
</table>