Youth Tobacco Use Falls

Results From the
2003 Youth Risk Behavior Survey
Smoking among Alaskan high school students has been cut in half since 1995, according to results of the 2003 Youth Risk Behavior Survey (YRBS).

Only 19 percent of the state’s high school students say they have smoked at least one cigarette in the past month, down from 37 percent in 1995 (Figure 1). Frequent smoking, in which students report using cigarettes on at least 20 days in the previous month, fell from 21 percent in 1995 to just 8 percent. Just 56 percent of high school youth say they have even taken a single puff on a cigarette, down from 72 percent in 1995.

The YRBS, conducted jointly in Alaska by the Department of Health and Social Services and the Department of Education and Early Development, was administered to 1,500 Alaskan high school students who were randomly chosen from nearly every school district in the state. The 2003 YRBS is the first statistically valid statewide health survey of Alaskan youth since 1995.

While smoking rates have declined overall, the YRBS shows that smoking among Alaska Native youth far exceeds that seen in all other races. Approximately 49 percent of Alaska Native females and 40 percent of Alaska Native males say they have smoked at least once during the previous month (Figure 2). About one in five Alaska Native students of both sexes report smoking at least 20 days per month.
Smoking among Alaska Native youth surpasses that of non-native youth at every grade level (Figure 3). While the likelihood of smoking increases among non-native youths as they progress through high school, it is already near maximum levels by the 9th grade among Alaska Natives.

<table>
<thead>
<tr>
<th>Race</th>
<th>9th</th>
<th>10th</th>
<th>11th</th>
<th>12th</th>
</tr>
</thead>
<tbody>
<tr>
<td>Native</td>
<td>42%</td>
<td>50%</td>
<td>42%</td>
<td>42%</td>
</tr>
<tr>
<td>Non-Native</td>
<td>7%</td>
<td>12%</td>
<td>13%</td>
<td>20%</td>
</tr>
</tbody>
</table>
The YRBS also shows that about 11 percent of Alaskan youth have used smokeless tobacco in the previous month. Smokeless tobacco use is especially high among Alaska Natives, where rates among boys are double the national average and rates among girls are nine times higher than the national norm (Figure 4).

![Figure 4. Percentage of High School Youth Who Use Smokeless Tobacco, By Sex and Race Alaska YRBS (2003), US YRBS (2001)](image)

<table>
<thead>
<tr>
<th>Race</th>
<th>Male</th>
<th>Female</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>Alaska Native</td>
<td>32%</td>
<td>11%</td>
<td>12%</td>
</tr>
<tr>
<td>White</td>
<td>18%</td>
<td>3%</td>
<td>2%</td>
</tr>
</tbody>
</table>

US YRBS, 2001 (all races)  
males = 15%, females = 2%

The YRBS confirms that youth exposure to environmental tobacco smoke in Alaska remains high, despite increased restrictions on smoking in public places. Nearly 50 percent of Alaskan youth who do not smoke say they have been exposed in the past week to secondhand smoke inside of buildings or cars (Figure 5). More than 95 percent of youth say they believe that secondhand smoke is harmful. This view was even expressed by 89 percent of those who smoke.

![Figure 5. Percentage of High School Smokers and Non-Smokers Exposed to Secondhand Smoke in Past Week Alaska YRBS, 2003](image)

<table>
<thead>
<tr>
<th>Category</th>
<th>Non-Smokers</th>
<th>Smokers</th>
</tr>
</thead>
<tbody>
<tr>
<td>Secondhand Smoke in Car</td>
<td>24%</td>
<td>59%</td>
</tr>
<tr>
<td>Secondhand Smoke Indoors</td>
<td>43%</td>
<td>70%</td>
</tr>
<tr>
<td>Secondhand Smoke Either Place</td>
<td>47%</td>
<td>78%</td>
</tr>
<tr>
<td>Believe Secondhand Smoke is Harmful</td>
<td>98%</td>
<td>89%</td>
</tr>
</tbody>
</table>

“Use Smokeless Tobacco” = used any smokeless tobacco product on at least 1 of the last 30 days
Other findings from the 2003 YRBS bring to light important social and behavioral risk factors associated with youth smoking:

- Students who report that their parents never talk to them about school are almost twice as likely to smoke as students whose parents do talk with them about school (32 percent vs. 18 percent).
- Students who get mostly C’s or worse in school are four times as likely to smoke as those who get mostly A’s (32 percent vs. 8 percent).
- Students who do not participate in after-school activities are almost twice as likely to smoke as students who participate in one or more such activities per week (26 percent vs. 14 percent).
- Students older than 16 years of age who smoke are twice as likely to have used alcohol in the past month, and are four times as likely to have used marijuana during that time, compared to those who do not smoke (70 percent vs. 36 percent, and 62 percent vs. 16 percent, respectively.)
- Students older than 16 years of age who smoke are three times as likely to have ever used inhalants, and four times as likely to have ever tried cocaine, heroin, methamphetamine or ecstasy, compared to those who do not smoke (24 percent vs. 8 percent, and 43 percent vs. 11 percent, respectively.)
- Students older than 16 years of age who smoke are almost twice as likely to have had sex in the previous three months, compared to those who do not smoke (55 percent vs. 29 percent).
- Students who smoke are twice as likely to have been in a physical fight in the past year, and four times as likely to have been driving while intoxicated during the past 30 days, compared to those who do not smoke (46 percent vs. 22 percent, and 28 percent vs. 7 percent, respectively).

The steep drop in youth smoking was achieved after Alaska invested heavily in a comprehensive tobacco prevention and control program. This program thrives on the strong partnership between state government and the Alaska Tobacco Control Alliance, whose members include the Alaska Native Health Board, the American Cancer Society, the American Heart Association, and the American Lung Association of Alaska.

Components of the state tobacco program include:

- An aggressive anti-tobacco media campaign aimed especially at curbing tobacco use by youth.
- A statewide excise tax designed to put tobacco products out of the reach of kids by boosting the price of cigarettes by $1 per pack.
- Community-based advocacy programs that discourage the initiation of tobacco use by youth and promote the enactment of local ordinances that reduce environmental tobacco smoke exposure.
- Renewed efforts to reduce illegal sales of tobacco to youth through improved vendor training and increased enforcement actions across Alaska.

Last year, undercover sting operations found that more than 30 percent of Alaskan tobacco outlets were unlawfully selling cigarettes and other tobacco products to minors. During 2003, illegal sales to youth fell to 10 percent (Figure 6). Clean indoor air ordinances are now in force in Anchorage,
Juneau, Bethel, Barrow, Dillingham, Kenai and Soldotna. Many other smaller communities have adopted informal non-smoking policies.

Tobacco-attributable disease in Alaska accounts for approximately 600 deaths per year, more than five times as many deaths as those caused by motor vehicle crashes, and nearly 100 times as many deaths as those caused by AIDS. Of the death toll due to tobacco, 120 lives are lost each year because of secondhand smoke. Beyond this, tobacco use accounts for more than $260 million in direct and indirect medical costs in Alaska each year.

The persistently high levels of smoking among Alaska Native youth do not bode well for reducing racial disparities in the burden of chronic disease in Alaska. Lung cancer mortality among Alaska Natives, once rare, now exceeds that of non-natives (Figures 7 and 8). The high levels of smokeless tobacco use among Alaska Native youth are also worrisome, as continued use into adulthood will increase the likelihood of developing oral cancers, periodontal disease and other disorders.

Reductions in youth smoking are critical in decreasing the long-term burden of heart disease, stroke, cancer and other chronic diseases in Alaska. Approximately three-quarters of smokers initiate tobacco use as adolescents.1 Young people who are refusing to use tobacco today are unlikely to start smoking later in life.

Investments in tobacco prevention and control programs have a strong effect on reducing tobacco use, as long as programs can continue to dedicate significant and sustained resources to prevention activities.2 Alaska currently spends approximately $5.2 million per year on tobacco prevention and control, including $3.1 million provided by the 1998 Master Settlement Agreement between states and the tobacco industry. This total falls short of the $8.1 million minimum budget recommended by the federal Centers for Disease Control and Prevention for Alaska, and is well below the CDC’s recommended spending level of $16.5 million.
Figure 7. Lung Cancer Mortality Rates (per 100,000) by Race and Sex
Alaska 1996-1999

<table>
<thead>
<tr>
<th></th>
<th>Male</th>
<th>Female</th>
</tr>
</thead>
<tbody>
<tr>
<td>Native</td>
<td>91.0</td>
<td>37.2</td>
</tr>
<tr>
<td>Non-Native</td>
<td>56.1</td>
<td>39.9</td>
</tr>
</tbody>
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Data Source: Alaska Cancer Registry

Figure 8. Cancer of Lung/Bronchus
Average Annual Age-Adjusted Cancer Incidence Rates

This figure provided by the Alaska Native Tribal Health Consortium Alaska Native Tumor Registry.