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Smoking behaviour among young adults: beyond youth prevention

D Hammond

Objective: There is a widespread assumption that smoking behaviour is largely established by the age of 18 years. As a result, smoking prevention has focused almost exclusively upon youth. However, recent trends suggest that young adulthood may be an important—and largely overlooked—period in the development of regular smoking behaviour. The current study sought to examine patterns of tobacco use among young adults (aged 18–29 years) and to address the implications for tobacco control policy.

Main outcome measures: Measures of smoking behaviour, smoking initiation, susceptibility to smoking, and occupational status.

Results: A total of 1.4 million or 28% of young adults in Canada currently smoke, the highest proportion among all age groups. The prevalence of daily smoking rose from 8% among youth to 22% among young adults, and approximately one fifth of smokers tried their first cigarette after the age of 18 years. Smoking behaviour among young adults was also distinct from older smokers: young adults were more likely to be occasional smokers and reported lower daily consumption. Finally, smoking prevalence and cessation rates varied substantially within subgroups of young adults, as characterised by occupational setting.

Conclusions: Dramatic increases in the proportion and intensity of smoking occurs after the age of 18 years. Smoking behaviour among young adults is distinct from both youth and older adults, and warrants immediate attention from the public health community.

The variable patterns of tobacco use among young adults may partly be explained by the significant life transitions experienced by young adults. Young adulthood often includes dramatic changes in social networks, living arrangements, and school and work settings, that may increase susceptibility to smoking. Research from RJ Reynolds describes this phenomena:

"These years of transition represent a shift between the comfort of the high influence of the peer group, and relative structure in life, to the development of one’s own personal, social, and occupational goals. For some, smoking seems to fulfill the function during teens of uniting one with the all-important peer group. In adulthood, it may be used to ease the feelings of stress created by the pursuit of one’s goals. Smoking, for a young adult, may fulfill both roles, providing a concrete balance at a time when life is chaotic and stressful." 

Put another way, young adulthood may render young adults more susceptible to tobacco industry marketing. The tobacco industry has developed marketing strategies not only to encourage smoking initiation and experimentation, but also to carry smokers through the stages to established smoker. The industry has been particularly effective in integrating tobacco advertising into the work and social setting of young adults. To this end, tobacco companies are increasingly using alternative media and more decentralised marketing activities to engage young adults and circumvent advertising restrictions. In Canada, as elsewhere, tobacco companies have developed their own nightlife, advertising and promotions ostensibly aimed at young adults continue to reach and resonate with youth.
In contrast to tobacco companies, the public health community has paid scant attention to smoking behaviour among young adults. A recent review of prevention and cessation programmes found a serious lack of initiatives directed at young adults, mainly due to the traditional focus upon youth. This bias is also reflected at the policy and planning level. Young adults are almost entirely absent from Canada’s Federal Tobacco Control Strategy, as is the case with policy and practice statements from other countries. Nor have young adults been a priority for research. With the notable exception of the Harvard College Alcohol Survey, few studies have directly examined smoking behaviour among young adults or even analysed young adults separately in population based studies. In short, young adults have been almost entirely overlooked in the current tobacco control framework.

The current study sought to examine smoking behaviour among young adults in Canada, with three specific objectives: (1) to compare patterns of use between young adults, youth, and older adults; (2) to characterise sex differences in smoking among young adults; and (3) to identify “high risk” groups of young adults across occupational settings. The policy implications of these findings are discussed, along with priorities for future research.

METHODS

Procedure

The current analysis used data from cycle 1 of the 2003 Canadian Tobacco Use Monitoring Survey (CTUMS). CTUMS is a national telephone survey of smoking behaviour administered by Statistics Canada to monitor trends in smoking prevalence. Data for the current analysis were drawn from interviews conducted between February and June of 2003.

Respondents were 15 years of age and over, excluding full time residents of institutions and residents of Canada’s three territories. The sample design was a two stage stratified random sample of telephone numbers. In the first phase, households were selected as the primary sampling unit using random digit dialling. In the second phase, respondents were selected based upon household composition; where more than one individual in a household was eligible in an age group, the respondent was selected at random. Individuals aged 15–24 years were over-sampled in order to examine prevalence and smoking initiation among young Canadians.

Survey weights were used to adjust for non-response between provinces and groups, thereby minimising any bias in the analyses caused by differential response rates across different regions or groups. A full description of the sampling design and survey statistics is available.

Measures

Individuals responded to a 20 minute survey of smoking behaviour. Smoking status was determined by asking, “At the present time do you smoke cigarettes every day, occasionally, or not at all?”. Respondents were then asked whether they had smoked in the last 30 days and, if so, whether they smoked daily, weekly, or less than weekly. All respondents were asked whether they had smoked 100 cigarettes in their lifetime. Both current and former smokers were asked about quit attempts in the past two years and age of first cigarette. Intention to quit among occasional and daily smokers was assessed by asking, “Are you seriously intending to quit within the next six months/30 days?” Occasional and daily smokers were also asked to report their cigarette consumption for each of the previous seven days. Time to first cigarette was assessed by asking, “How soon after you wake up do you smoke your first cigarette?”. Finally, occasional and daily smokers were asked to report the “strength” of cigarettes they usually smoke. Responses were coded as ultra-extra light/mild, light/mild, or regular strength.

Analysis

CTUMS data was weighted on sex, age, and province, followed by adjustments for non-response and multiple telephone lines within a household. All data reported in the results are weighted. (Note that weights were scaled to the sample size before analysis.) In addition, variance estimates were adjusted using “coefficients of variation” to take the survey’s design effect into account.” “Current smokers” were defined as respondents who reported smoking more than 100 cigarettes lifetime and at least once in the past 30 days. “Daily smokers” were defined as respondents who reported smoking daily. “Occasional smokers” were defined as non-daily smokers who smoked at least once in the past 30 days. “Former smokers” were defined as those who reported smoking 100 cigarettes, but had not smoked in the past 30 days. “Ever smokers” include both former and current smokers. “Young adults” were defined as respondents between the ages of 18 and 29 years, inclusive. This age range is somewhat different than the more traditional age range of 20–24 often used to define young adults; however, the purpose of the current analysis was to examine smoking over the full span of young adulthood. Further, there are strong conceptual grounds for considering 18 and 19 year olds as young adults, considering that 18 is the age of majority in most jurisdictions and that the lifestyle of most 18 and 19 year olds is more similar to other young adults than those 15–17 year olds. Likewise, the lifestyles of 25–29 year olds is much closer to “young adulthood” compared with older adults. All analyses were conducted using SPSS Version 12.0 (SPSS Inc, 2003).

RESULTS

Smoking behaviour

A total of 10 559 Canadians responded to the survey, including 3812 respondents between the ages of 18–29 years, for a response rate of 89.8%. Overall, 20.0% of Canadians were current smokers in 2003. Table 1 provides the characteristics for current smokers.

Table 2 indicates smoking prevalence and cigarettes per day by age group. A total of 28.3% or 1.38 million Canadians aged 18–29 were current smokers—the highest prevalence of any age group. On average, current and former smokers tried their first cigarette at 14.8 years of age; while 19.3% smoked their first cigarette after the age of 18. Daily smokers were less likely to try their first cigarette after the age of 18 compared to occasional smokers (16.6% vs 10.7%, respectively; χ² = 6.1, p = 0.03). Among smokers over the age of 25, there was a positive correlation between age of smoker and age of initiation (r = 0.29, p < 0.001).

Differences in smoking behaviour between male and female young adults were generally modest: females were somewhat more likely to be daily smokers (χ² = 6.1, p = 0.013), and reported fewer cigarettes per day (t = 5.7,

<table>
<thead>
<tr>
<th>Variable</th>
<th>Mean/proportion (SD)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mean age (years)</td>
<td>38.9 (14.7)</td>
</tr>
<tr>
<td>Sex (male)</td>
<td>53.7%</td>
</tr>
<tr>
<td>Education (minimum 12 years)</td>
<td>67.7%</td>
</tr>
<tr>
<td>Mean cigarettes per day</td>
<td>13.5 (9.5)</td>
</tr>
<tr>
<td>Intention to quit (within 6 months)</td>
<td>55.6%</td>
</tr>
</tbody>
</table>
There were no differences in the age of initiation between male and female young adult smokers. Cigarettes per day (CPD) was 38% greater among young adults than youth ($t = 2.5, p = 0.01$). Daily consumption was stable during young adulthood at slightly over nine CPD, except for a modest increase in cigarettes per day among 26–27 year olds. Time to the first cigarette of the day varied across age groups: approximately 36.9% of youth, 42.9% of young adults, and 64.4% of older smokers smoked within 30 minutes of waking ($X^2 = 67.1, p < 0.001$).

Young adults were more likely to smoke light/mild cigarettes (66.9%), than either youth (61.2%), or older adults (40.5%; $X^2 = 13.3, p = 0.001$). Young adult females were somewhat more likely to smoke light/mild brands than males (69.1% vs. 64.7%; $X^2 = 3.7, p = 0.06$).

Figure 1 depicts the proportion of ever, current, and former smokers by age group. The largest single year increase in prevalence occurred between the ages of 17 and 18, from 13.6% to 25.8% among 18 year olds. Smoking prevalence peaked at 21 years of age (35.6%), while occasional use was highest among 24 years old at 11.3% (data not shown).

Approximately 56% of all young adults reported that they were seriously considering quitting within the next six months, 31% of whom were considering quitting within the next 30 days. Males were somewhat more likely to intend to quit within six months (62.1% vs. 55.6%; $X^2 = 4.7, p = 0.03$) and 30 days (64.7% vs. 50.0%; $X^2 = 13.9, p < 0.001$) than females. A total of 64.6% of young adult smokers had attempted to quit smoking within the last two years.

**DISCUSSION**

This study demonstrates that young adulthood is a critical period in the development of smoking behaviour.

### Table 2 Smoking status and cigarettes per day (CPD) of Canadians, by age group

<table>
<thead>
<tr>
<th>Smoking status</th>
<th>Current smokers</th>
<th>CPD</th>
<th>Daily smokers</th>
<th>CPD</th>
<th>Occasional smokers</th>
<th>CPD</th>
<th>Former smokers</th>
<th>CPD</th>
<th>Prevalence (95% CI)</th>
<th>CPD</th>
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<tbody>
<tr>
<td><strong>Young adults (ages 18-29)</strong></td>
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<tr>
<td>Overall (n = 3812)</td>
<td>28.3% (28.2 to 28.4)</td>
<td>10.2 (9.6 to 10.8)</td>
<td>21.5% (21.4 to 21.6)</td>
<td>12.6 (11.9 to 13.3)</td>
<td>6.7% (6.4 to 7.0)</td>
<td>2.4 (1.8 to 3.0)</td>
<td>12.3% (12.1 to 12.5)</td>
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<tr>
<td>Males (n = 1774)</td>
<td>27.8% (27.7 to 27.9)</td>
<td>10.6 (9.6 to 11.6)</td>
<td>20.3% (20.1 to 20.5)</td>
<td>14.0 (12.9 to 15.1)</td>
<td>7.5% (7.2 to 7.8)</td>
<td>2.6 (1.9 to 3.3)</td>
<td>11.2% (11.0 to 11.4)</td>
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<tr>
<td>Females (n = 2038)</td>
<td>28.8% (28.7 to 28.9)</td>
<td>9.7 (8.8 to 10.5)</td>
<td>22.8% (22.6 to 23.0)</td>
<td>11.3 (10.5 to 12.1)</td>
<td>6.0% (5.7 to 6.3)</td>
<td>2.0 (1.2 to 2.8)</td>
<td>13.5% (13.1 to 13.7)</td>
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<td><strong>Youth (ages 13-17)</strong></td>
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<tr>
<td>Overall (n = 1776)</td>
<td>13.6% (13.5 to 13.7)</td>
<td>7.4 (5.7 to 9.1)</td>
<td>7.6% (7.5 to 7.7)</td>
<td>11.1 (9.0 to 13.2)</td>
<td>6.0% (5.7 to 6.3)</td>
<td>2.5 (1.4 to 3.6)</td>
<td>1.1% (0.5 to 1.7)</td>
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<tr>
<td>Males (n = 889)</td>
<td>13.4% (13.2 to 13.6)</td>
<td>8.5 (5.9 to 11.1)</td>
<td>7.2% (7.0 to 7.4)</td>
<td>11.3 (9.2 to 14.0)</td>
<td>5.2% (4.7 to 5.7)</td>
<td>2.8 (0.6 to 4.0)</td>
<td>1.4% (0.6 to 2.4)</td>
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<tr>
<td>Females (n = 887)</td>
<td>14.9% (14.7 to 15.1)</td>
<td>6.7 (4.5 to 9.8)</td>
<td>8.1% (7.9 to 8.3)</td>
<td>11.1 (9.0 to 13.8)</td>
<td>6.8% (6.3 to 7.3)</td>
<td>2.4 (1.6 to 3.2)</td>
<td>0.8% (0.1 to 1.6)</td>
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<tr>
<td><strong>Older adults (ages 30+)</strong></td>
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<tr>
<td>Overall (n = 4971)</td>
<td>18.2% (18.1 to 18.3)</td>
<td>14.8 (13.3 to 15.3)</td>
<td>14.8% (14.7 to 14.9)</td>
<td>17.0 (14.8 to 17.3)</td>
<td>3.4% (3.3 to 3.5)</td>
<td>3.8 (3.1 to 4.5)</td>
<td>30.4% (30.3 to 30.5)</td>
<td></td>
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</tr>
<tr>
<td>Males (n = 2218)</td>
<td>20.8% (20.7 to 20.9)</td>
<td>16.6 (15.8 to 17.4)</td>
<td>17.1% (16.7 to 17.7)</td>
<td>19.3 (16.4 to 20.1)</td>
<td>3.7% (3.5 to 3.9)</td>
<td>2.7 (2.1 to 3.3)</td>
<td>34.4% (34.3 to 34.5)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Females (n = 2753)</td>
<td>15.8% (15.7 to 15.9)</td>
<td>13.6 (12.0 to 13.2)</td>
<td>12.6% (12.5 to 12.7)</td>
<td>14.1 (13.5 to 14.7)</td>
<td>3.2% (3.0 to 3.4)</td>
<td>2.3 (3.0 to 3.8)</td>
<td>26.6% (26.5 to 26.7)</td>
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</tr>
</tbody>
</table>
The findings also demonstrate considerable heterogeneity in smoking among young adults. Smoking among students, professionals, and administrative/clerical workers was substantially lower than in the primary industries and trades. This pattern is generally consistent with the well established relationship between lower socioeconomic status and higher smoking; youth from lower socioeconomic backgrounds are more likely to smoke and less likely to attend university or college and become professionals. However, this does not rule out the possibility that work and school environments help to sustain or, conversely, to reduce smoking. Indeed, there is evidence that approximately one third of youth report that they first started smoking at work.

The current results also suggest that smokers may not be quitting at the same rate in different occupations. This finding may reflect an interaction between sociodemographic variables and tobacco control policies: young adults in lower income occupations may be more likely to quit when cigarette prices are high or in occupational settings where smoking is either impractical or more likely to be restricted by workplace legislation. These results may prove useful for interventions seeking to target occupations with high prevalence rates, as well as those with a high proportion of smokers per work setting. For example, although those working in the “primary” industries reported the highest smoking prevalence, they are scattered across thousand of different work settings, while almost one quarter of all young adult smokers in Canada can be found in several dozen post-secondary institutions.

Overall, these findings are consistent with previous evidence indicating that young adulthood is a critical period in smoking lifetime addiction with substantial health risks.5

Approximately 28% of young adults in Canada smoke—the highest prevalence of any age group and more than double the proportion of youth smokers. The findings also provide evidence of late initiation: approximately one fifth of current young adult smokers tried their first cigarette after the age of 18 years. Furthermore, regardless of when they first tried smoking, the majority of young adults became regular smokers after the age of 18. Indeed, the proportion of daily smokers increased dramatically from 8% among youth to 22% among young adults. The increase in “ever-smokers” (current and former smokers), is even more striking: 15% of youth were ever smokers, compared with 40% of young adults—an increase of 267%. Young adults were also heavier smokers than youth; cigarettes per day was 38% greater among young adults and they were more likely to smoke within the first 30 minutes of the day. With regards to smoking cessation, the results suggest that successful attempts to quit smoking are relatively rare among youth, but increase sharply after the age of 17. Despite the rise in cessation among young adults, smoking prevalence continued to increase until age 22, indicating that a greater number of new smokers replaced those who had quit.

Together, these findings suggest that both the proportion and intensity of smoking rise substantially after the age of 17. Previous data suggest that this pattern of smoking is not a new phenomenon in Canada, but that it may be increasing to some extent. For example, CTUMS data from the past five years indicate that the prevalence of youth and young adult smoking may be diverging somewhat, suggesting that a greater proportion of young adults may be initiating daily or occasional smoking after the age of 20.21 These patterns are consistent with published data in the USA,13 although longitudinal and cohort analyses are necessary to examine these trends more closely.

Smoking behaviour among young adults also appears to be somewhat distinct from older smokers. Young adults were more likely to be occasional smokers than older adults, smoke fewer cigarettes, and to wait longer before smoking their first cigarette of the day. The difference in cigarettes per day between young adults and older smokers could suggest that cigarette consumption continues to increase beyond the age of 29, as might be expected from increasing tolerance; however, consumption continued to rise even after age 44, beyond the point at which tolerance is typically established. As a consequence, the relationship between CPD and age may also reflect a cohort effect: daily consumption has been declining among Canadian smokers over the past decade following price increases,22 which have been shown to have a relatively larger impact upon younger, less established smokers.27

The current findings are consistent with previous evidence indicating that young adulthood is a critical period in smoking lifetime addiction with substantial health risks.5 11 12 There are, however, several limitations of this study that should be noted. First, the cross sectional nature of the findings cannot detect trends over time or discriminate cohort effects. Second, the study lacks sufficient power to examine sex differences within subgroups, such as occupational settings. Finally, although there are considerable advantages to keeping the mode of survey administration consistent for all respondents, the measurement bias associated with telephone surveys of smoking behaviour may not be systematic across all age groups. Indeed youth tend to under-report smoking behaviour in telephone surveys to a greater extent than adults.20 As a consequence, some of the differences in smoking behaviour between youth and young adults may be due to differential response biases. However, this effect will be moderated somewhat among the older sample of youth surveyed in the current study and by the fact that parental consent was not required by CTUMS.

### Table 3 Smoking prevalence among young adults by employment status (n = 3812)

<table>
<thead>
<tr>
<th>Occupation</th>
<th>Current smokers</th>
<th>Proportion of all young adult smokers</th>
<th>Former smokers</th>
<th>Quit rate per current smoker*</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Student</td>
<td>21.6% (21.5 to 21.7)</td>
<td>24.9% (24.9 to 25.0)</td>
<td>6.9% (6.7 to 7.1)</td>
<td>24.2% (24.1 to 24.3)</td>
</tr>
<tr>
<td>Working (all occupations)</td>
<td>31.4% (31.3 to 31.5)</td>
<td>62.6% (62.5 to 62.7)</td>
<td>12.8% (12.6 to 13.0)</td>
<td>28.9% (28.7 to 29.0)</td>
</tr>
<tr>
<td>Sales/service</td>
<td>35.9% (35.8 to 36.0)</td>
<td>13.1% (13.0 to 13.1)</td>
<td>13.0% (12.8 to 13.2)</td>
<td>27.2% (27.1 to 27.3)</td>
</tr>
<tr>
<td>Trades/transport</td>
<td>35.3% (35.1 to 35.5)</td>
<td>15.3% (15.1 to 15.5)</td>
<td>6.7% (6.5 to 6.9)</td>
<td>15.8% (15.6 to 16.0)</td>
</tr>
<tr>
<td>Management</td>
<td>35.5% (35.3 to 35.8)</td>
<td>9.2% (9.0 to 9.4)</td>
<td>3.9% (3.6 to 4.2)</td>
<td>9.8% (9.5 to 10.1)</td>
</tr>
<tr>
<td>Technical</td>
<td>31.1% (31.0 to 31.2)</td>
<td>6.4% (6.2 to 6.6)</td>
<td>3.9% (3.6 to 4.2)</td>
<td>9.8% (9.5 to 10.1)</td>
</tr>
<tr>
<td>Professional</td>
<td>22.7% (22.5 to 22.9)</td>
<td>5.5% (5.2 to 5.8)</td>
<td>14.3% (14.1 to 14.5)</td>
<td>38.6% (38.4 to 38.8)</td>
</tr>
<tr>
<td>Administrative/clerical</td>
<td>13.3% (13.1 to 13.5)</td>
<td>2.5% (2.1 to 2.9)</td>
<td>14.4% (14.2 to 14.6)</td>
<td>52.0% (51.9 to 52.1)</td>
</tr>
<tr>
<td>Farming/forestry/fishing</td>
<td>38.5% (38.3 to 38.8)</td>
<td>2.2% (1.8 to 2.6)</td>
<td>14.9% (14.5 to 15.3)</td>
<td>27.9% (27.6 to 28.2)</td>
</tr>
<tr>
<td>Processing/manufacturing</td>
<td>36.5% (36.3 to 36.7)</td>
<td>5.7% (5.4 to 6.0)</td>
<td>36.1% (36.0 to 36.2)</td>
<td>49.7% (49.5 to 49.9)</td>
</tr>
<tr>
<td>Other working</td>
<td>45.7% (45.5 to 45.9)</td>
<td>7.3% (7.0 to 7.6)</td>
<td>9.9% (9.7 to 10.1)</td>
<td>17.8% (17.6 to 18.0)</td>
</tr>
<tr>
<td>Raising family/household</td>
<td>32.2% (32.1 to 32.3)</td>
<td>2.4% (2.0 to 2.8)</td>
<td>10.7% (10.5 to 10.9)</td>
<td>25.6% (25.3 to 25.9)</td>
</tr>
<tr>
<td>Looking for work</td>
<td>31.1% (30.9 to 31.3)</td>
<td>7.9% (7.7 to 8.1)</td>
<td>27.4% (27.3 to 27.6)</td>
<td>46.0% (45.9 to 46.1)</td>
</tr>
<tr>
<td>Other/reduced</td>
<td>56.9% (56.8 to 57.0)</td>
<td>3.4% (3.1 to 3.7)</td>
<td>6.7% (6.5 to 6.9)</td>
<td>10.5% (10.3 to 10.7)</td>
</tr>
</tbody>
</table>

*Quit rate = the proportion of former smokers, relative to the proportion of ‘ever’ smokers.”
What this paper adds

Smoking prevention programmes have focused almost exclusively upon youth, based upon the widespread assumption that smoking behaviour is largely established by the age of 18 years. In contrast, young adults have received little attention from either tobacco control programmes or researchers.

The current findings demonstrate dramatic increases in the proportion and intensity of smoking after the age of 18. The prevalence of daily smoking nearly tripled from 8% among youth to 22% among young adults, despite significant increases in cessation. Overall, the findings suggest that smoking behaviour among young adults is distinct and represents untapped opportunities for tobacco control.

Conclusions

After two decades of impressive declines, there are growing concerns that smoking prevalence may be levelling off and stabilising. At the same time, a lack of effectiveness among traditional school based interventions has prompted a general review of smoking prevention strategies.20 12

Findings from the current study suggest that young adults may represent the best opportunity for further reductions in prevalence and should be considered a priority within this review. Indeed, the same factors that increase receptivity to pro-tobacco messages among young adults—new social environments, peer groups, and values—also afford opportunities for prevention and cessation. However, to effectively target young adults, tobacco control strategy must reflect the reality of smoking initiation depicted in the current results more closely: trying a cigarette for the first time is not the last step in becoming a smoker, but rather the beginning of a process that for the majority stretches into young adulthood.


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