Smoking mothers and snuffing fathers: behavioural influences on youth tobacco use in a Swedish cohort

K I Rosendahl, M R Galanti, H Gilljam, A Ahlborn

Objective: To analyse the influences of parental use of cigarettes and snus (the Swedish variety of smokeless tobacco) on offspring’s behaviour.

Design: Prospective cohort study.

Setting: The Stockholm County of Sweden.

Subjects: 2232 adolescents recruited in the fifth grade (mean age 11.6 years) with follow up in the eighth grade.

Main outcome measures: Self reported tobacco use (ever and current use of cigarettes and/or snus) in the eighth grade.

Results: Parents’ tobacco use was associated with adolescents’ current use of cigarettes and snus (odds ratio [OR] 2.7, 95% confidence interval [CI] 1.8 to 3.9 if both parents used tobacco v neither parent). Mother’s cigarette smoking was associated with adolescents’ current exclusive smoking [OR 2.4, 95% CI 1.6 to 3.6]. Father’s use of snus was associated with current exclusive use of snus among boys [OR 3.0, 95% CI 1.4 to 6.4], but not with current cigarette use. The overall prevalence of current smoking was lower among children whose fathers used snus than among those whose fathers smoked.

Conclusions: Parental smoking, especially maternal smoking, enhances the risk of tobacco experimentation in youths, as does paternal use of smokeless tobacco. However, the transition to regular cigarette smoking is not likely to be affected by paternal use of smokeless tobacco. Contextual factors, in particular declining smoking trends and negative social acceptance of smoking, can explain most of these findings.

Parents’ lifestyles are believed to be of importance in influencing offspring’s health behaviour.1 Parental cigarette smoking is associated with increased likelihood that the child also smokes.2 This association was not always consistent across studies, discrepancies most probably depending on different populations and outcomes under study. Several similarities exist between smoking and smokeless tobacco (ST) use among adolescents.3 The use of both tobacco products has been associated with use of alcohol and marijuana.4 Associations between use of either tobacco product and corresponding use among peers, siblings and parents has also been reported.5 However, the question whether the use of a specific product and the sex of the parent display different influences on the corresponding behaviour in adolescents (cross influences) has not been systematically investigated. Moreover, the use of tobacco has seldom been analysed in mutually exclusive behavioural categories.6 Finally, most evidence rests on cross sectional studies.7

The patterns of ST use and cigarette smoking differ across countries and social groups, as probably do family influences. There are several reasons to hypothesise that in Sweden the family influences on youth tobacco use may be atypical. First, the use of ST among Swedish men is currently (2000) more frequent than cigarette smoking (20% and 18% of daily users, respectively),8 representing the highest prevalence in the western world.8 Among women, on the other hand, only 1% use ST daily, while 23% smoke cigarettes.9 Second, the Swedish variety of ST (the moist, non-fermented, oral tobacco “snus”) differs from other similar products in several respects, the most important of which probably is its relatively low content of tobacco specific nitrosamines (TSNA).10 Because of the lack of conclusive evidence of snus causing major deleterious health effects,11 the product is regarded as a “safer” alternative to cigarettes by an increasing proportion of the population.12 If parental use of ST would represent a risk factor for taking up cigarette smoking during adolescence the concern for public health would be evident, both in terms of public education and of adult tobacco cessation strategies. The objective of this longitudinal study was to disentangle the influence of different patterns of parental tobacco use on adolescents’ corresponding behaviour, in a setting where the social norms around cigarette smoking and ST are increasingly diverging.

METHODS AND MATERIALS

Information on the study population and methods in the BROMS study has been previously published8 and will only be summarised here. A cohort of 3019 adolescents was recruited in the fifth grade (mean (SD) age 11.6 (0.33) years), through a random sample of schools in the Stockholm region. The study base in this study consists of adolescents who in 1998 completed the baseline and in 2001 the eighth grade assessment form, had not yet tried tobacco at baseline, and lived with at least one parent at that time (n = 2232). Use of cigarettes and snus was investigated by separate sets of questions aimed to assess lifetime and current use of either type of tobacco. Lifetime use was assessed by the questions “Did you ever try cigarette smoking, even a few puffs?”, “Did you ever try snus?” with dichotomous response alternatives. Current use was assessed by the questions “Do you smoke now?”, and “Do you use snus now?” with the following five response alternatives: not at all; occasionally, but not monthly; monthly, but not weekly; weekly, but not daily; daily.

Information on parents’ tobacco use, and on their sociodemographic characteristics, such as occupation and

Abbreviations: BROMS, Swedish acronym for Children’s Smoking and Environment in the Stockholm County; CI, confidence interval; OR, odds ratio; ST, smokeless tobacco; TSNA, tobacco specific nitrosamines

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education, was collected at baseline and again in the seventh grade, through a self completed mail questionnaire. Parents' forms were available for 2218 (99%) subjects of the study base at baseline and 2110 (95%) in the seventh grade. Parental current use of tobacco was assessed as each parent’s use of cigarettes and snus, according to three predefined categories: no use; occasional use; daily use. In the seventh grade survey, parents’ previous use of either type of tobacco was also investigated (that is, whether they were former users and quit year).

### Data analysis and statistical methods

Ever and current use of either type of tobacco were the outcomes of interest in this analysis. Ever users were subjects who anytime had tried snus or cigarettes. Those who reported at least monthly use were considered current users. A broad definition of current users was employed, because of the low frequency of subjects reporting current use, especially of snus. Adolescents’ behaviour was analysed as use of cigarettes, snus or any tobacco product and categorised into four mutually exclusive categories: no tobacco use; snus only; cigarette smoking only; combined use of snus and cigarettes. The same exclusive categories: no tobacco use; snus only; cigarette smoking only; both snus use and cigarette smoking) by means of multinomial logistic regression. This method is an extension of the binary logistic regression, especially suitable for outcomes on an ordinal scale. It estimates the odds of being in each of the more extreme outcome categories rather than in the lowest one, according to values of the predictor variables. In order to estimate precision the 95% confidence intervals (CI) were calculated around OR.

### RESULTS

The prevalence of ever and current use of tobacco among the cohort subjects in eighth grade is shown in table 1. Ever use of cigarettes only was almost twice as frequent among girls compared to boys, while the reverse was true for exclusive snus use. This sex difference was also evident for current use, both among adolescents and parents (table 2). Maternal current use of snus was in fact a very rare behaviour; therefore the analysis was not possible for all outcome categories. Tables 3 and 4 present model based adjusted ORs of adolescents’ current use of tobacco according to parental use. The estimates are adjusted for the other parent’s tobacco use, as it was the only factor that revealed at least a modest confounding effect. In particular, adjusting for sex, age or tobacco use among friends did not materially modify the results.

![Table 1 Tobacco use among the adolescents in eighth grade](https://www.tobaccocontrol.com/Table1.jpg)

<table>
<thead>
<tr>
<th>Tobacco use</th>
<th>Boys (n=1066)</th>
<th>Girls (n=1166)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Number*</td>
<td>%</td>
</tr>
<tr>
<td>Ever use</td>
<td>455</td>
<td>42.7</td>
</tr>
<tr>
<td>No tobacco</td>
<td>145</td>
<td>13.6</td>
</tr>
<tr>
<td>Snus only</td>
<td>29</td>
<td>2.7</td>
</tr>
<tr>
<td>Cigarette smoking only</td>
<td>275</td>
<td>25.8</td>
</tr>
<tr>
<td>Both snus and cigarette smoking</td>
<td>35</td>
<td>3.3</td>
</tr>
</tbody>
</table>

*The figures do not add up to the total for the current use because of missing information.

![Table 2 Adolescents’ exclusive use of snus and cigarettes or the combination of both tobacco products in relation to exposure to parental tobacco use in the study cohort](https://www.tobaccocontrol.com/Table2.jpg)

<table>
<thead>
<tr>
<th>Exposure to:</th>
<th>Number of adolescents*</th>
<th>Adolescents current use (%) of:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Parents’ current smoking</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mother’s current smoking</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Never</td>
<td>1659</td>
<td>1.9</td>
</tr>
<tr>
<td>Yes</td>
<td>350</td>
<td>3.1</td>
</tr>
<tr>
<td>Father’s current smoking</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Never</td>
<td>1676</td>
<td>2.0</td>
</tr>
<tr>
<td>Yes</td>
<td>440</td>
<td>2.4</td>
</tr>
<tr>
<td>Mother’s current use of snus</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Never</td>
<td>2071</td>
<td>1.9</td>
</tr>
<tr>
<td>Yes</td>
<td>44</td>
<td>8.1</td>
</tr>
<tr>
<td>Father’s current smoking</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Never</td>
<td>1651</td>
<td>1.6</td>
</tr>
<tr>
<td>Yes</td>
<td>436</td>
<td>4.3</td>
</tr>
<tr>
<td>Parents’ current tobacco use</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Neither</td>
<td>1399</td>
<td>1.9</td>
</tr>
<tr>
<td>One</td>
<td>520</td>
<td>2.2</td>
</tr>
<tr>
<td>Both</td>
<td>183</td>
<td>3.3</td>
</tr>
<tr>
<td>Parents’ current tobacco use</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Neither</td>
<td>1132</td>
<td>1.5</td>
</tr>
<tr>
<td>One</td>
<td>653</td>
<td>1.9</td>
</tr>
<tr>
<td>Both</td>
<td>283</td>
<td>5.1</td>
</tr>
<tr>
<td>Mother’s anytime smoking</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Never</td>
<td>1210</td>
<td>1.7</td>
</tr>
<tr>
<td>Ever</td>
<td>874</td>
<td>3.0</td>
</tr>
<tr>
<td>Father’s anytime smoking</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Never</td>
<td>1176</td>
<td>1.6</td>
</tr>
<tr>
<td>Ever</td>
<td>793</td>
<td>2.9</td>
</tr>
<tr>
<td>Mother’s anytime use of snus</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Never</td>
<td>1781</td>
<td>1.9</td>
</tr>
<tr>
<td>Ever</td>
<td>76</td>
<td>6.6</td>
</tr>
<tr>
<td>Father’s anytime use of snus</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Never</td>
<td>1294</td>
<td>1.5</td>
</tr>
<tr>
<td>Ever</td>
<td>603</td>
<td>3.8</td>
</tr>
</tbody>
</table>

*The figures do not add up to the total because of missing information.
to sex of the parent and tobacco product. Both maternal and paternal use of snus was associated with boys’ current use of the same tobacco product, although only the association with father’s use reached statistical significance. Maternal (but not paternal) current cigarette smoking was associated with a more than twofold increase in the risk of current smoking, especially exclusive smoking (table 4). An indication of a nearly threefold higher risk of combined use of cigarettes and snus among boys (OR 2.9, 95% CI 0.9 to 9.3) was seen for boys whose fathers used both tobacco products compared to boys of non-tobacco users. Ever use of both cigarettes and snus among adolescents was associated with both maternal (OR 2.0, 95% CI 1.5 to 2.7) and paternal cigarette smoking (OR 1.9, 95% CI 1.3 to 2.6), as well as with paternal use of snus (OR 1.8, 95% CI 1.3 to 2.5) (data not shown).

The prevalence of current smoking among adolescents was also compared between children of ever smoking fathers according to their current use of cigarettes and snus (currently not smoking and no snus use, currently not smoking but uses snus, currently smoking but no snus use, currently smoking and uses snus). The proportions of adolescent smokers (either exclusively or in combination with snus) was not substantially different in the four groups, if anything lowest among fathers who did no longer smoke but used snus. For all adolescents’ outcomes there was an indication of dose–response according to whether one or both parents used tobacco. However, there was no clear dose–response relation according to frequency of parental tobacco use (whether occasional or daily). The analysis of adolescents’ lifetime exposure to parental tobacco use yielded very similar risk estimates for most tobacco use outcomes (data not shown).

**DISCUSSION**

The purpose of this study was twofold. On the one hand, we aimed to increase the knowledge about parental influences on ST use among youth. On the other, we wanted to include in our analysis behavioural cross effects (that is, how the parental use of a certain tobacco product affects the adolescent use of the other). This issue has seldom been systematically investigated, and is of particular relevance in Sweden, where cigarette smoking and snus use are equally prevalent among adult males.

In this cohort, paternal use of snus was associated with an increased risk of snus use among boys, but not with the risk of adolescents being smokers. In contrast, both maternal and paternal smoking increased the probability of adolescents’ cigarette smoking. Neither maternal nor paternal exclusive smoking increased the risk of exclusive snus use among their boys. The association between paternal snus use and corresponding use among boys in this study is in line with previous reports. At odds with other studies, however, we did

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**Table 3** Parental current tobacco use at baseline as risk factor for adolescents’ any current use of cigarettes and snus in the eighth grade

<table>
<thead>
<tr>
<th>Exposure to:</th>
<th>Snus (boys)</th>
<th>Cigarettes (both sexes)</th>
<th>Any use (both sexes)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>OR 95% CI</td>
<td>OR 95% CI</td>
<td>OR 95% CI</td>
</tr>
<tr>
<td>Mother’s tobacco use*</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>No tobacco use</td>
<td>1.0</td>
<td>1.0</td>
<td>1.0</td>
</tr>
<tr>
<td>Only snus</td>
<td>2.2 0.5 to 10.9</td>
<td>0.5 0.1 to 3.6</td>
<td>1.3 0.4 to 4.4</td>
</tr>
<tr>
<td>Only cigarettes</td>
<td>1.7 0.9 to 2.9</td>
<td>2.2 1.5 to 3.1</td>
<td>2.2 1.6 to 3.0</td>
</tr>
<tr>
<td>Both cigarettes and snus</td>
<td>2.4 0.3 to 22.5</td>
<td>2.8 0.6 to 13.6</td>
<td>3.4 0.9 to 13.5</td>
</tr>
<tr>
<td>Father’s tobacco use*</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>No tobacco use</td>
<td>1.0</td>
<td>1.0</td>
<td>1.0</td>
</tr>
<tr>
<td>Only snus</td>
<td>2.4 1.3 to 4.4</td>
<td>1.0 0.6 to 1.6</td>
<td>1.4 0.9 to 2.0</td>
</tr>
<tr>
<td>Only cigarettes</td>
<td>1.6 0.8 to 3.1</td>
<td>1.4 0.9 to 2.1</td>
<td>1.4 0.9 to 2.0</td>
</tr>
<tr>
<td>Both cigarettes and snus</td>
<td>2.3 0.9 to 5.5</td>
<td>1.3 0.7 to 2.4</td>
<td>1.5 0.9 to 2.7</td>
</tr>
<tr>
<td>Parents’ use of tobacco</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Neither parent</td>
<td>1.0</td>
<td>1.0</td>
<td>1.0</td>
</tr>
<tr>
<td>One parent</td>
<td>1.3 0.7 to 2.3</td>
<td>2.1 1.5 to 3.0</td>
<td>2.0 1.5 to 2.8</td>
</tr>
<tr>
<td>Both parents</td>
<td>3.7 2.1 to 6.8</td>
<td>2.1 1.3 to 3.2</td>
<td>2.7 1.8 to 3.9</td>
</tr>
</tbody>
</table>

*Adjusted for the other parent’s use of tobacco (any v none).

**Table 4** Parental current tobacco use at baseline as risk factor for adolescents’ current use of tobacco in the eighth grade

<table>
<thead>
<tr>
<th>Exposure to:</th>
<th>Only snus (boys)</th>
<th>Only cigarettes (both sexes)</th>
<th>Both cigarettes and snus (boys)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>OR 95% CI</td>
<td>OR 95% CI</td>
<td>OR 95% CI</td>
</tr>
<tr>
<td>Mother’s tobacco use*</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>No tobacco use</td>
<td>1.0</td>
<td>1.0</td>
<td>1.0</td>
</tr>
<tr>
<td>Only snus</td>
<td>4.2 0.8 to 21.4</td>
<td>0.7 0.1 to 5.7</td>
<td>– –</td>
</tr>
<tr>
<td>Only cigarettes</td>
<td>1.8 0.8 to 4.0</td>
<td>2.4 1.6 to 3.6</td>
<td>1.7 0.7 to 3.8</td>
</tr>
<tr>
<td>Both cigarettes and snus</td>
<td>4.5 0.5 to 43.7</td>
<td>1.9 0.2 to 16.1</td>
<td>– –</td>
</tr>
<tr>
<td>Father’s tobacco use*</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>No tobacco use</td>
<td>1.0</td>
<td>1.0</td>
<td>1.0</td>
</tr>
<tr>
<td>Only snus</td>
<td>3.0 1.4 to 6.4</td>
<td>1.1 0.6 to 1.8</td>
<td>1.4 0.5 to 3.8</td>
</tr>
<tr>
<td>Only cigarettes</td>
<td>1.2 0.4 to 3.6</td>
<td>1.3 0.8 to 2.1</td>
<td>2.0 0.8 to 5.2</td>
</tr>
<tr>
<td>Both cigarettes and snus</td>
<td>1.9 0.5 to 6.9</td>
<td>1.1 0.5 to 2.3</td>
<td>2.9 0.9 to 9.3</td>
</tr>
<tr>
<td>Parents’ use of tobacco</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Neither parent</td>
<td>1.0</td>
<td>1.0</td>
<td>1.0</td>
</tr>
<tr>
<td>One parent</td>
<td>1.3 0.6 to 3.0</td>
<td>2.4 1.6 to 3.5</td>
<td>1.3 0.6 to 3.0</td>
</tr>
<tr>
<td>Both parents</td>
<td>4.6 2.1 to 10.2</td>
<td>2.2 1.3 to 3.6</td>
<td>3.1 1.3 to 7.5</td>
</tr>
</tbody>
</table>

*Adjusted for the other parent’s use of tobacco (any v none).
What this paper adds

The existence of a relationship between parental tobacco use and tobacco use among children and adolescents has been shown in a large body of published research. However, there has been no thorough investigation of cross effects of smoking and smokeless tobacco use between adults and their offspring. This study of 2232 Swedish adolescents and their parents was conducted in a setting where smokeless tobacco (snus) is gaining popularity as a “safer” alternative to cigarette smoking. In such a setting, the exposure to parental smokeless tobacco use, although probably increasing the overall tobacco experimentation among adolescents, does not necessarily affect the transition from experimental to regular smoking.

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REFERENCES

not find an association between parental smoking and children’s use of snus. This was true for both lifetime and current use. The interpretation of these findings should take into account Sweden’s peculiar position in the market and consumption of ST as well as the different social norms around cigarette smoking and ST use. The findings in this study may therefore not apply to adolescent populations in other countries.

The Swedish variety of ST (snus) is increasingly attracting popularity as a “safer” alternative to cigarettes, and even considered as a potential aid in strategies of “harm reduction” directed to smoking populations. Adolescent boys, living in families where at least one parent (usually the father) shifts from smoking to snus might therefore consider this behaviour as a “healthy” and even socially acceptable choice. Consequently, they may be prompted to add snus to cigarettes in the very early experimental stage of tobacco use, but eventually to complete the transition to exclusive use of ST. It is also plausible that the availability of snus within the family provides the opportunity for a more extensive experimentation with tobacco in general. This influence, however, is likely to be confined to the earliest experimental stage, as paternal snus use was not significantly associated with the risk of current cigarette smoking either alone or in combination with snus. In other terms, the overall prevalence of current smokers was not different between children of snus-using fathers than among children of non-tobacco users.

Parental influences in this study showed a gradient according to whether only one or both parents used tobacco. However, no increased risk of taking up tobacco was present among the offspring of parents using tobacco daily rather than occasionally. Misclassification of the frequency of tobacco use among parents is one explanation for this lack of dose-response. An alternative explanation may be that children look upon recreational tobacco use among their parents as a positive trait. In fact, the social norms surrounding heavy and addicted smoking behaviour are increasingly negative in Sweden, especially when minors are involved. The social stigma attached to occasional smoking and “chippers” is probably not as strong, and it is possible that adolescents perceive adults smoking occasionally as people in control of their own behaviour. The generally stronger associations of parental behaviour with youths’ current use compared to lifetime use is not surprising, considering the fact that the trial stage of tobacco use is nearly universal, therefore the risk factors may be less specific. In this study there were some evident sex differences concerning parental influences. Mother’s smoking showed generally stronger associations with adolescent use of cigarettes than father’s smoking as in other studies. Maternal educational and modelling influences are believed to be particularly strong in the adoption of health behaviours. However, our finding most probably reflects a societal dimension, as the smoking rates to date are higher among Swedish women than among Swedish men, while very few women use snus regularly.

Both adolescents’ and parental behaviour were self reported, therefore the subjects in this study may have consciously concealed or minimised their smoking status. We used the self reported information on parental behaviour, rather than that available from the adolescents questionnaire, because the former was more detailed and had a higher internal response rate. Misclassification might also have occurred because of insufficient definition of, for instance, occasional smoking. Any misclassification of smoking status, if not differential, would rather bias the estimates in this study in a conservative way—that is, towards the null hypothesis. In addition, the prevalence of tobacco use at baseline in the cohort was very similar to that reported in Swedish cross sectional surveys both of adolescents, and of adults in the corresponding age and socioeconomic groups. A further limitation of the present analysis is the young age of the cohort, which does not allow the generalisation of the findings to late adolescents. The advantages of this study are its large size, the longitudinal design, and the detailed assessment of both smoking and ST use.

We suggest different influences of parental smoking and ST use on offspring’s behaviour. Parental smoking is undoubtedly linked to the corresponding behaviour in children. On the other side, parental use of ST seem to enhance the overall rate of tobacco experimentation in youth, while the transition from experimental to regular cigarette use is apparently not influenced. Contextual factors, such as anti-smoking policy and changing social norms, are most probably of major importance in modelling family influences. These findings should be carefully considered when discussing policies of “harm reduction” directed to adults, in particular parents of children in school age.
ECHO

Study of the effectiveness of the US safety standard for child resistant cigarette lighters

L E Smith, M A Greene and H A Singh

Objective: The purpose of this research is to evaluate the effectiveness of the US Consumer Product Safety Commission’s (CPSC) Safety Standard for Cigarette Lighters, which requires that disposable cigarette lighters be resistant to operation by children younger than age 5.

Methods: Fire data on children playing with lighters were solicited from selected US fire departments for incidents occurring from 1997–99, to identify the proportion of such fires caused by children younger than age 5 playing with cigarette lighters. These data were compared with similar data from 1985–87. An odds ratio was used to determine if there was a significant decrease in cigarette lighter fires caused by children younger than age 5 compared to children ages 5 and older. To estimate fires that would have occurred without the standard, the odds ratio, adjusted for population, was applied to 1998 national estimates of fires occurring. National estimates of 1998 fire losses were based on data from the National Fire Incident Reporting System and the National Fire Protection Association to which the 1997–99 age and lighter type distributions were applied. The difference between the fire losses that would have occurred and those that did occur represented fire losses prevented.

Results: In the post-standard study, 48% of the cigarette lighter fires were started by children younger than age 5, compared with 71% in the pre-standard study. The odds ratio of 0.42 was statistically significant (p<0.01). This represented a 58% reduction in fires caused by the younger age group compared to the older age group. When applied to national fire loss data, an estimated 3300 fires, 100 deaths, 660 injuries, and $52.5 million in property loss were prevented by the standard in 1998, totaling $566.8 million in 1998 societal savings.

Conclusions: The CPSC standard requiring child resistant cigarette lighters has reduced fire deaths, injuries, and property loss caused by children playing with cigarette lighters and can be expected to prevent additional fire losses in subsequent years.

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Please write your name here___________________________________

ANY INFORMATION YOU GIVE IS CONFIDENTIAL - NO-ONE AT SCHOOL OR HOME WILL SEE IT.

This is not a test, and we are interested in your honest answers only.

Answers should be marked as shown below. Please mark only one choice for each question.

For most questions simply make a mark in the box next to the answer you choose, for some write in the open spaces. Most questions only need one mark or tick per question, unless the question tells you to mark as many answers as apply to you.

Example 1:
Which lesson do you like best?

a) Biology   

b) Maths    

c) English   

d) History   

 e) Other (please state)   

...............French

Example 2

Which of these television soaps do you like best?

a) Neighbours   

b) Coronation Street    

c) Eastenders   

d) Hollyoaks   

e) Brookside   


_____________________________
Section 1: About you

1) Are you:
   a) Male 
   b) Female 

2) I am ………………………………………….years old (please fill in)

3) Which of these ethnic groups describes you best (tick one)?
   a) White
      a) British 
      b) Irish 
   b) Mixed
      White and black Caribbean 
      White and black African 
      White and Asian 
      Any other mixed background 
   c) Asian or Asian British
      Indian 
      Pakistani 
      Any other Asian background 
      (please say what 
      e) Chinese 
      Chinese 
   d) Black or Black British
      Caribbean 
      African 
      Any other Black background 
      (please say what 
   f) Other ethnic group
      Any other, Please say what 

4) Who lives in your home? (Tick all that apply)
   a) My mum or step mum/female guardian 
   b) My Dad or stepdad/ male guardian 
   c) My older brother(s) 
   d) My younger brother(s) 
   e) My older sister(s) 
   f) My younger sister(s) 
   g) Somebody else
5) How much do you dislike or like school most of the time?
   a) I like school a lot
   b) I like school a little
   c) I do not like school
   d) I neither like it or dislike it

6) Have you missed one or more day’s school without permission of your parents or the school in the last month?
   a) Yes
   b) No

7) Who is your favourite TV star? (If you haven’t got one, write ‘none’)
   ……………………………………………………………………

8) Who is your favourite film actor/actress? (If you haven’t got one, write ‘none’)
   ……………………………………………………………………

9) Who is your favourite band/singer/musician/rap artist? (If you haven’t got one, write ‘none’)
   ……………………………………………………………………

10) Does the female carer you live with smoke cigarettes?
    a) Yes
    b) No
    c) Don’t know
    d) I don’t live with a female carer

11) Does the male carer you live with smoke cigarettes?
    a) Yes
    b) No
    c) Don’t know
    d) I don’t live with a male carer

12) Do any of your brothers or sisters smoke cigarettes?
    a) Yes
    b) No
    c) Don’t know
13) Does your best friend smoke cigarettes?
   a) Yes
   b) No
   c) Don’t know

14) Do you have a mobile phone for your own use?
   a) Yes
   b) No - Go to question 20

15) Who paid for the phone?
   a) I did.
   b) Someone else did.

16) Who pays for the line rental and calls?
   a) I do
   b) It does not have line rental and call charges - it's pay as you go.
   c) Someone else does
Section 2

17) Which of these statements describes you best?

a) I have never smoked Go to section 3
b) I have only tried smoking once or twice


c) I used to smoke, but I have given up now
d) I sometimes smoke now, but I don't smoke as many as one a week
e) I usually smoke between one and six cigarettes a week
f) I usually smoke more than six cigarettes a week

18) How old were you when you had your first puff of a cigarette?

I was....................years old

19) Where do you / did you usually get your cigarettes from (tick one):

a) I usually get/got my cigarettes from a shop.
b) I usually get/got my cigarettes from another school pupil.
c) I usually get/got my cigarettes from someone outside of school.
d) I usually get/got my cigarettes from a machine

20) Do you usually buy your own cigarettes?

a) Yes
b) No Go to question 27
21) Where do you usually buy them?
   a) A shop
   b) Another school pupil
   Go to question 23
   c) Someone outside of school.
   d) A machine
   e) Somewhere else (Please state)………………………………… Go to question 23

22) Which shop do you usually buy them from (please write in the name of the shop. We will not tell anyone else this information, and we will not act on it - it is for our information only.)

……………………………………………………………………

23) How many do you buy at a time?
I buy ____________ cigarettes at a time

24) How much does it usually cost you to buy this many cigarettes?

........................................................................

25) Where do you get the money to buy your cigarettes ?
   a) Pocket money
   b) Earnings/ wages
   c) Parent/guardian
   d) Dinner money
   e) Steal it

26) When you don't buy cigarettes, do you usually (tick only one):
   a) Just take them without people knowing?
   b) Borrow them and have to pay them back?
   c) Get given them without having to pay them back?
27) When you don't buy cigarettes, do you **usually** get them from (tick only one)

a) Parent  

b) Brother or sister  

c) Friend  

d) Other (please state).............................

28) What brand do you usually smoke?

a) Silk Cut  

b) Benson and Hedges  

c) Marlborough  

d) Marlborough lights  

e) Royals  

f) No brand in particular  

g) Other (please state).............................

29) If you usually smoke one brand, why do you smoke that one?

a) Parent/carer smokes them  

b) Brother/sister smokes them  

c) Low tar  

d) Advertising  

e) Friend smokes them  

f) Nice taste  

g) Famous person smokes them________________________ (please state who).............................

h) Other (please state).............................

30) If you smoke, when do you smoke?

a) Alone  

b) With friends  

c) When out socialising  

d) With family  

Section 3

The following section is about your friends. There is a side for each one. If you have one friend, please fill in the details on one of the following pages only. If you have two friends, fill in two pages. There are enough pages for information about up to six friends. If you have more than six friends fill in the pages for your six closest friends.

This information is strictly confidential. No-one at school or home will be told what you write.
32a) Name of first friend (first and last names)

32b) Are they?:
   a) Your best friend
   b) just a friend

32c) Are they:
   a) male
   b) female

32d) Are they:
   a) In your class?
   b) In your year?
   c) In another year at your school?
   d) At another school?
   e) Left school?

32e) Which of the following best describes them (tick one)
   a) Popular, cool, loud and fun?
   b) Sporty, popular, trendy?
   c) A troublemaker, rebel?
   d) Sometimes in trouble, doesn’t like school?
   e) Quiet, friendly, nice, doing well at school
   f) Loners, prefers own company
   g) None of above

32f) Tick one box only:
   a) we go round together at school
   b) we see each other in school and out of school
   c) we just see each other out of school

32g) Tick one box only:
a) we do activities together (sport, computers etc)  
b) we just hang about together, we don’t do much  
c) we are close, talk a lot; share secrets  
d) we are like each other, think the same way

32h) Which of these applies to you:
   a) I buy cigarettes from this friend?  
b) I get cigarettes for free from this friend?  
c) I ask this friend to buy cigarettes for me from a shop?  
d) I don’t get any cigarettes from this friend.

32i) Does this friend smoke?  
   a) Yes.  
   b) No  
   c) Don't Know.
33a) Name of second friend (first and last names)

33b) Are they?:
   a) Your best friend
   b) just a friend

33c) Are they:
   a) male
   b) female

33d) Are they:
   a) In your class?
   b) In your year?
   c) In another year at your school?
   d) At another school?
   e) Left school?

33e) Which of the following **best** describes them (tick one)
   a) Popular, cool, loud and fun?
   b) Sporty, popular, trendy?
   c) A troublemaker, rebel?
   d) Sometimes in trouble, doesn’t like school?
   e) Quiet, friendly, nice, doing well at school
   f) Loners, prefers own company
   g) None of above

33f) Tick one box only:
   a) we go round together at school
   b) we see each other in school and out of school
   c) we just see each other out of school

33g) Tick one box only:
a) we do activities together (sport, computers etc)  
b) we just hang about together, we don't do much  
c) we are close, talk a lot; share secrets  
d) we are like each other, think the same way  

33h) Which of these applies to you:  
a) I buy cigarettes from this friend?  
b) I get cigarettes for free from this friend?  
c) I ask this friend to buy cigarettes for me from a shop?  
d) I don't get any cigarettes from this friend.  

33i) Does this friend smoke?  
a) Yes.  
b) No  
c) Don't Know.
34a) Name of third friend (first and last names)

34b) Are they?:
   a) Your best friend
   b) just a friend

34c) Are they:
   a) male
   b) female

34d) Are they:
   a) In your class?
   b) In your year?
   c) In another year at your school?
   d) At another school?
   e) Left school?

34e) Which of the following best describes them (tick one)
   a) Popular, cool, loud and fun?
   b) Sporty, popular, trendy?
   c) A troublemaker, rebel?
   d) Sometimes in trouble, doesn’t like school?
   e) Quiet, friendly, nice, doing well at school
   f) Loners, prefers own company
   g) None of above

34f) Tick one box only:
   a) we go round together at school
   b) we see each other in school and out of school
   c) we just see each other out of school

34g) Tick one box only:
a) we do activities together (sport, computers etc)  
b) we just hang about together, we don’t do much  
c) we are close, talk a lot; share secrets  
d) we are like each other, think the same way

34h) Which of these applies to you:
   a) I buy cigarettes from this friend?  
   b) I get cigarettes for free from this friend?  
   c) I ask this friend to buy cigarettes for me from a shop?  
   d) I don’t get any cigarettes from this friend.

34i) Does this friend smoke?
   a) Yes.  
   b) No  
   c) Don’t Know.
35a) Name of fourth friend (first and last names)

35b) Are they?:
   a) Your best friend
   b) just a friend

35c) Are they:
   a) male
   b) female

35d) Are they:
   a) In your class?
   b) In your year?
   c) In another year at your school?
   d) At another school?
   e) Left school?

35e) Which of the following best describes them (tick one)
   a) Popular, cool, loud and fun?
   b) Sporty, popular, trendy?
   c) A troublemaker, rebel?
   d) Sometimes in trouble, doesn’t like school?
   e) Quiet, friendly, nice, doing well at school
   f) Loners, prefers own company
   g) None of above

35f) Tick one box only:
   a) we go round together at school
   b) we see each other in school and out of school
   c) we just see each other out of school

35g) Tick one box only:
a) we do activities together (sport, computers etc)  
b) we just hang about together, we don't do much  
c) we are close, talk a lot; share secrets  
d) we are like each other, think the same way

35h) Which of these applies to you:  
a) I buy cigarettes from this friend?  
b) I get cigarettes for free from this friend?  
c) I ask this friend to buy cigarettes for me from a shop?  
d) I don't get any cigarettes from this friend.

35i) Does this friend smoke?  
a) Yes.  
b) No  
c) Don't Know.
36a) Name of fifth friend (first and last names)

36b) Are they?:
   a) Your best friend
   b) just a friend

36c) Are they:
   a) male
   b) female

36d) Are they:
   a) In your class?
   b) In your year?
   c) In another year at your school?
   d) At another school?
   e) Left school?

36e) Which of the following best describes them (tick one)
   a) Popular, cool, loud and fun?
   b) Sporty, popular, trendy?
   c) A troublemaker, rebel?
   d) Sometimes in trouble, doesn’t like school?
   e) Quiet, friendly, nice, doing well at school
   f) Loners, prefers own company
   g) None of above

36f) Tick one box only:
   a) we go round together at school
   b) we see each other in school and out of school
   c) we just see each other out of school

36g) Tick one box only:
a) we do activities together (sport, computers etc)
b) we just hang about together, we don’t do much
c) we are close, talk a lot; share secrets
d) we are like each other, think the same way

36h) Which of these applies to you:
   a) I buy cigarettes from this friend?
   b) I get cigarettes for free from this friend?
   c) I ask this friend to buy cigarettes for me from a shop?
   d) I don’t get any cigarettes from this friend.

36i) Does this friend smoke?
   a) Yes.
   b) No
   c) Don’t Know.
37a) Name of sixth friend (first and last names)


37b) Are they?:
  a) Your best friend
  b) just a friend

37c) Are they:
  a) male
  b) female

37d) Are they:
  a) In your class?
  b) In your year?
  c) In another year at your school?
  d) At another school?
  e) Left school?

37e) Which of the following best describes them (tick one)
  a) Popular, cool, loud and fun?
  b) Sporty, popular, trendy?
  c) A troublemaker, rebel?
  d) Sometimes in trouble, doesn’t like school?
  e) Quiet, friendly, nice, doing well at school
  f) Loners, prefers own company
  g) None of above

37f) Tick one box only:
  a) we go round together at school
  b) we see each other in school and out of school
  c) we just see each other out of school

37g) Tick one box only:
a) we do activities together (sport, computers etc)  

b) we just hang about together, we don't do much  
c) we are close, talk a lot; share secrets  
d) we are like each other, think the same way

37h) Which of these applies to you:  
a) I buy cigarettes from this friend?  
b) I get cigarettes for free from this friend?  
c) I ask this friend to buy cigarettes for me from a shop?  
d) I don't get any cigarettes from this friend.

37i) Does this friend smoke?  
a) Yes.  
b) No  
c) Don't Know.
Delivery of questionnaire protocol WMYTAU survey

Delivery of questionnaires

Protocol

Hello, my name is………………. I am from the University of Birmingham research team. In front of you, you should have a questionnaire. Please fill it in pencil. If anyone hasn’t got a pencil or a questionnaire, please raise your hand now. Please use a rubber to correct mistakes.

The questionnaire in front of you asks for information about you and your friends, so that we can learn how best to help young people in the future. Please write your name (first and surnames) on the front now. Everything you write is confidential and no-one will know what you have written outside of the research team. However, we do need to know the names of you and your friends so that the computer can work out who you are friends with. Apart from when you write your name and the names of your friends, once the information is in the computer, names will not be used again.

At the back of the questionnaire are 6 sides of paper with questions about your friends. Please fill in 1 side for each of your friends. If you have 3 friends fill in 3 sides. If you have more than 6 good friends, fill in the 6 pages for the 6 most important to you.

No teachers, parents or friends will be told what you have written but it is very important that your names are on the paper and that you fill them in honestly.
If you have any problems, please raise your hand and I will come to you.

Please do the questionnaire in silence as then we can be sure that we are finding out what you think and not what your friend thinks!

When you have finished, please raise your hand.

Thank you.
Pilot study and test retest reliability WMYTAU survey
The resulting draft of the questionnaire was then administered to pupils in Years 9 and 10 in the same school in the village from which the participants for the focus groups were recruited. This school had 21-30% of pupils eligible for free school meals, the mode in Birmingham. Two non-streamed classes were randomly selected and parents and pupils were offered the opportunity to decline participation, but none did so. The school nurse and the researcher attended. After pupils had completed the questionnaire, the researcher facilitated a whole class discussion. As a result, several changes to the wording and grammar of the questionnaire were made. However, most pupils felt that the questionnaire was comprehensible and easy to complete.

Two further randomly selected Year 9 and 10 classes were drawn from the same school to examine the test-retest reliability of the questionnaire. Questionnaires were administered to these groups once and then three weeks later. The responses to the questionnaires were compared. Of all those who reported accessing cigarettes in some way from a named friend 67% (6/9) reported the same access at time point two. The knowledge of friends smoking behaviour was assessed by asking, for each named friend, whether or not they smoked. 83% of respondents naming the same friends gave the same statement of their smoking behaviour (yes/no/don’t know). Overall, the questionnaire showed a ‘good level’ of test retest reliability\(^53\). (See table 1 below).
<table>
<thead>
<tr>
<th>Number of friends mentioned at both time points.</th>
<th>Number/total</th>
<th>Percentage Of total</th>
</tr>
</thead>
<tbody>
<tr>
<td>At least one</td>
<td>31/34</td>
<td>91%</td>
</tr>
<tr>
<td>At least two</td>
<td>27/34</td>
<td>79%</td>
</tr>
<tr>
<td>At least three</td>
<td>20/34</td>
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<td>At least four</td>
<td>16/34</td>
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<tr>
<td>At least five</td>
<td>12/34</td>
<td>35%</td>
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<tr>
<td>At least six</td>
<td>4/34</td>
<td>12%</td>
</tr>
<tr>
<td>100% disagreement (no friends reported same at both time points)</td>
<td>3/34</td>
<td>9%</td>
</tr>
<tr>
<td>100% agreement (all friends reported same at both time points)</td>
<td>13/34</td>
<td>38%</td>
</tr>
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</table>

*Table 1: numbers of same friends mentioned at time points 1 and 2 in the test retest exercise*
Interview schedule WMYTAU survey

**Everything that is said in this room is confidential—no-one will be told anything that you say.**

Do you smoke?
Do your friends?
How many people in your class smoke?

Where do you (if smoker) people (if non smoker) in school get cigarettes from?
How do you/they know where to get them from?
If you/they get them from people in school where do the people that they get them from get them from?
Where does your/the money come from?
Do you/people smoke in school / on the school premises?
Who do you/they smoke with?
Anything else important?
Musical categories assessed by youths in WMYTAU survey

1 = punk/rebel
0 = square

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<th>Score</th>
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