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Journal Title: Health Psychology Research
Volume: Volume 2, Number 2
Publisher: PAGEpress | 2014-04-26
Type of Work: Article | Final Publisher PDF
Publisher DOI: 10.4081/hpr.2014.1519
Permanent URL: https://pid.emory.edu/ark:/25593/rmv7j

Final published version: http://dx.doi.org/10.4081/hpr.2014.1519

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Accessed January 14, 2018 9:29 PM EST
Smoke and mirrors: the perceived benefits of continued tobacco use among current smokers

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Abstract

Despite 50+ years of public health efforts to reduce smoking rates in the United States, approximately one-fifth of the adults living in this country continue to smoke cigarettes. Previous studies have examined smokers’ risk perceptions of cigarette smoking, as well as the perceived benefits of quitting smoking. Less research has focused on the perceived benefits of smoking among current cigarette smokers. The latter is the main focus of the present paper. Questionnaire-based interviews were conducted with a community-based sample of 485 adult current cigarette smokers recruited from the Atlanta, Georgia, metropolitan area between 2004 and 2007. Active and passive recruiting approaches were used, along with a targeted sampling strategy. Results revealed that most current cigarette smokers perceive themselves to experience benefits as a result of their cigarette use, including (among others) increased relaxation, diminished nervousness in social situations, enjoyment of the taste of cigarettes when smoking, and greater enjoyment of parties when smoking. Perceiving benefits from cigarette smoking was associated with a variety of tobacco use measures, such as smoking more cigarettes, an increased likelihood of chain smoking, and overall negative attitude toward quitting smoking, among others. Several factors were associated with the extent to which smokers perceived themselves to benefit from their tobacco use, including education attainment, the age of first purchasing cigarettes, the proportion of friends who smoked, hiding smoking from others, being internally-oriented regarding locus of control, and self-esteem.

Introduction

For more than 50 years now, public health campaigns have disseminated information to the American public about the dangers associated with smoking. Overwhelmingly, their message has been that using tobacco is unhealthy and poses a variety of health risks to smokers and to those around them. These campaigns have succeeded in altering societal norms regarding the way people think and feel about smoking. Consequently, there has been a dramatic reduction in the proportions of American adults who use tobacco today compared to the 1960s, when tobacco use peaked in the United States.1

Despite these anti-smoking campaigns, about one-fifth of the U.S. adult population continues to smoke and the reduction in smoking rates seems to have leveled off.2 Thus, it is important that we learn from people who continue to smoke about the reasons for their continued cigarette use. Research on the perceived benefits of smoking has been limited and, largely, focused on adolescents, who report that smoking makes people look cool, leads them to be more popular, makes them look more grown up, and helps them to feel more relaxed. These positive perceptions of smoking have been shown to be related to a greater likelihood of tobacco use and intentions to smoke in the near future.3,4

Less has been written about the subject of perceived benefits of smoking among adult smokers. Interestingly, in the few studies that have examined this issue among adults, many of the same perceived benefits just mentioned have been cited as being applicable to adult smokers.5 Additionally, findings from adult samples have also shown the perceived benefits of smoking to include the perception that smoking reduces depression, feels pleasurable, reduces anxiety, and helps people to focus their thoughts.6,7

Developing a better understanding of the positive ways in which smokers view their tobacco use may represent a critical step in the ongoing public health campaign to reduce the societal harms of smoking. In the present study, based on a sample of adult persistent smokers, we examine three main research questions. First, how prevalently held are perceptions of the benefits of smoking among persistent smokers? Second, how, if at all, does perceiving smoking to be personally beneficial relate to people’s actual tobacco use behaviors and health problems resulting from those behaviors? Third, what factors are associated with having an overall greater perception that smoking is beneficial? The last question in particular is of importance, we believe, because the answer(s) can be used to develop informed intervention efforts at the individual level and broader-based anti-smoking prevention campaigns.

Materials and Methods

Subjects and design

The data presented in this study were collected in Atlanta, Georgia between September 2004 and July 2007 as part of the Persistent Smokers Project (PSP).8 [Although the data for this study are a few years old, recent data from the Centers for Disease Control and Prevention2 indicate that the challenges currently facing adult persistent smokers have not changed since the completion of the Persistent Smokers Project. This is especially true for smokers residing in the South region of the United States.2 Smoking rates have plateaued in recent years, and no new strategies have been effective at reducing smoking rates during the years since the Persistent Smokers Project was undertaken. Consequently, the authors believe that this study and its findings remain relevant today, as the playing field for the battle to reduce smoking and its attendant problems has changed very little during the few years that have elapsed since this study’s data were collected].

This was a community-based nonprobability sample, and was not derived from clinical or other institutional settings. To be eligible, the participants had to be aged 18 years or older and reside in the Atlanta metropolitan area. As a study of persistent smokers, study participants had to have smoked at least 100 cigarettes during their lifetime [which is consistent with the National Health Interview Survey (NHIS) classification as ever smoked]9 and...
have smoked in the last week (which is consistent with the NHIS classification as current smoker).

Participant recruitment involved purposive sampling, including a combination of active and passive recruitment techniques. This approach to participant recruitment was based largely on the principles of targeted sampling and ethnographic mapping. It is common for techniques such as these to be used whenever the research population of interest is considered to be a hard to recruit or a hidden population as was the case with the present study. These sampling techniques have been used by other researchers to study smoking behaviors and are considered acceptable by most scholars in the field. Using a short screening form, for the active recruitment approach, potential study participants were screened in the setting where they were recruited, such as near office buildings or other work locations, at restaurants, in social entertainment settings, in parks, and in other public settings. Passive recruitment involved posting flyers in local venues such as stores, restaurants, and community centers. Interested individuals, who called the project phone line listed on the flyers, initially were screened over the phone using the same short form used in the active recruitment. Two-thirds of the respondents were brought into the study via active recruitment, with the remaining one-third being identified through passive recruitment. We did not identify any significant difference in the sample characteristics or in the outcome variables based on the recruitment strategy.

Once a person was identified as eligible, the staff member described the study and time commitment, with the remaining one-third being identified through passive recruitment. We did not identify any significant difference in the sample characteristics or in the outcome variables based on the recruitment strategy.

For the final part of the analysis, in which the emphasis was on identifying the factors associated with having an overall greater perception that smoking is beneficial, several types of potential predictors were examined: demographic differences, tobacco use-related items, and measures of psychological and psychosocial functioning. Demographic variables were included because numerous studies have found smoking-related perceptions to vary based on such characteristics as race,16,17 age,17 and gender.18 Likewise, many studies have documented a link between perceptions relating to smoking behaviors and actual tobacco use practices. Therefore, we examined several smoking influence items as potential predictor measures. Finally, some published research has also documented that smokers’ perceptions of the benefits and drawbacks of smoking vary based on their psychosocial profiles, such as their levels of impulsiveness, self-esteem, or depression, thereby merit the inclusion of measures of this type in our analysis as well.

Five demographic variables were examined: gender (male versus female), age (in years), race (African American versus members of other racial groups), educational attainment (less than high school education versus high school graduate or greater), and marital status (involved versus not involved with someone).

Several smoking influence measures were considered, as well. These included age of first cigarette use (continuous measure), age of first cigarette purchase (continuous measure), ever lied to a steady partner about one’s intentions of quitting smoking (yes/no), having a parent who suffered physical consequences from smoking (yes/no), having another family member who suffered physical consequences from smoking (yes/no), the proportion of one’s friends who smoke (ordinal measure), having nonsmoking friends make comments about one’s smoking (7-item scale measure, Kuder-Richardson20=0.74), hiding one’s tobacco use from others (yes/no), and the number of health risks perceived to be associated with smoking (6-item scale measure, Cronbach’s alpha=0.71).
ety of standardized scale measures, including: sociability (derived from the Social Avoidance and Distress Scale)²⁴ (11 items; Cronbach’s alpha=0.89), self-consciousness in social situations (constructed from a modified version of Scheier and Carver’s Self-Consciousness Scale)²⁵ (8 items; Cronbach’s alpha=0.83), social isolation (11 items; Cronbach’s alpha=0.87), perceived predictability/randomness of events in one’s life (derived from Schuessler’s Doubt about Self-Determination Scale)²⁶ (12 items; Cronbach’s alpha=0.75), and self-esteem (Rosenberg’s Self-Esteem Scale)²⁷ (10 items; Cronbach’s alpha=0.86).

Analysis

In the first part of the analysis, the goal was to examine people’s perceptions of the benefits of smoking and the prevalence of positive perceptions of the benefits to be derived by smoking. This information is reported by the use of descriptive statistics. For the remainder of the paper, readers may find it helpful to bear in mind that, as a psychosocial measure, perceived benefits of smoking is conceptualized as an endogenous variable analytically. By that, we mean that it both affects/derives some outcome measures (specifically, actual tobacco use practices), in which instances perceived benefits of smoking serves as an independent variable, and is affected/predicted by other measures (e.g., demographic characteristics, early-life experiences with smoking, other measures of psychological/psychosocial functioning), in which instances perceived benefits of smoking serves as a dependent variable. These different roles of the perceived benefits of smoking measure are reflected in the Part 2 analysis (examining how the perceived benefits of smoking relate to actual smoking practices) and in the Part 3 analysis (examining the factors associated with perceiving more/fewer benefits from smoking).

In the second part of the analysis, the goal was to examine the relationship between perceiving smoking to yield personal benefits and various tobacco-related outcome measures. All of the dependent variables here were either continuous scale measures or ordinal measures with more than four response options. Accordingly, these analyses all entailed the use of zero-order correlation coefficients, shown in Table 1 by reporting Pearson’s r statistics.

In the third part of the analysis, bivariate analyses were conducted to learn which items were found to be related to study participants’ perceptions of the extent to which they derived positive benefits from their cigarette smoking. Whenever the independent variable was dichotomous in nature (e.g., gender, hiding one’s smoking from others, past-year physical abuse), Student’s t tests were performed to ascertain whether the comparison groups differed from one another on the dimension in question. Whenever the independent variable was continuous in nature (e.g., religiosity, age of first cigarette use, self-esteem), the bivariate analyses entailed the use of correlation coefficients. Subsequently, items that were found to be associated with the perception of deriving benefits from smoking were entered into a multiple regression equation, to determine which ones contributed to the understanding of perceived smoking benefits when the effects of the other measures were taken into account. Items that were non-significant were removed from the equation in stepwise fashion, until a final best fit model containing only statistically-significant measures was derived. Throughout this paper, results are reported as statistically significant whenever P<0.05.

Results

Sample

Slightly more than one-half of the study participants (56.8%) were male. Most were either Caucasian (54.6%) or African American (39.0%). The median age was 34 (range: 18-70, mean: 36.4, SD=12.3). This is a fairly well-educated sample, with 34.2% of the respondents having completed college and an additional 40.6% having attended college without completing it. Although most (55.1%) of the study participants were employed on a full-time basis, substantial proportions of them were working on a part-time basis (32.9%) or unemployed (12.0%). Respondents were relatively evenly split between those who were single (42.7%) or involved in a marital-type relationship (44.5%). Approximately one person in six (16.5%) self-identified as gay, lesbian, or bisexual.

Perceived benefits of smoking

Slightly more than one-third of the study participants (37.7%) could be described as having overall positive beliefs regarding the benefits they perceived to derive from their smoking (i.e., mean score ranging from 3.51 to 5.00 on the 1-5 scale). Most respondents (57.4%) were relatively average in terms of the extent to which they said that their smoking led them to experience various benefits (mean score ranging from 2.51 to 3.50 on the 1-5 scale). Very few of the people studied (4.9%) had what would be described most accurately as negative beliefs regarding the benefits derived from their tobacco use (i.e., mean scores ranging from 1.00 to 2.50 on the 1-5 scale). Overall, this sample scored slightly more positive than average with regard to members’ perceptions of the extent to which they benefitted by smoking (mean: 3.37, SD=0.50).

Specific information about the nature of the positive perceptions people held with regard to their smoking is presented in Table 2. Of the 16 benefits derived from smoking that we examined, 7 were endorsed by a majority of the study participants; and most of these items were endorsed by a substantial majority of them. For example, 88.8% of the smokers studied said that smoking helps them to satisfy their nicotine cravings. Nearly as many people said that cigarettes calm them down when they are angry (82.7%), that smoking helped them to cope with their worries (81.9%), that smoking helped them to calm down when they were feeling nervous about something (80.0%), and/or that smoking helped them to kill time when there was nothing to do (76%). Nearly two-thirds of the people sampled said that they enjoyed parties more when they were smoking (63.3%), and more than one-half (56.5%) said that they enjoyed the taste sensation of smoking. On some of the other dimensions of perceived benefit, when a majority of persons did not endorse a particular item, the perceived benefits outnumbered those who did not share such perceptions by a substantial margin. This was true for items pertaining to cigarettes making people feel good (42.9% versus 28.8%), finding the mere handling of a cigarette to be a pleasurable experience (47.1% versus 34.3%), and feeling like a part of a group when they are around other smokers (43.7% versus 33.6%).

Table 1. Zero-order correlations between perceiving benefits of smoking and actual tobacco-related outcomes.

<table>
<thead>
<tr>
<th>Dependent variable</th>
<th>Pearson’s r</th>
<th>P</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of cigarettes smoked per week</td>
<td>0.20</td>
<td>&lt;0.001</td>
</tr>
<tr>
<td>Amount smoked when sick enough to be in bed all day</td>
<td>0.21</td>
<td>&lt;0.001</td>
</tr>
<tr>
<td>Frequency of needing a cigarette to function normally</td>
<td>0.43</td>
<td>&lt;0.001</td>
</tr>
<tr>
<td>Frequency of making special trips to purchase cigarettes</td>
<td>0.25</td>
<td>&lt;0.001</td>
</tr>
<tr>
<td>Frequency of chain smoking</td>
<td>0.23</td>
<td>&lt;0.001</td>
</tr>
<tr>
<td>Frequency of smoking more cigarettes than intended</td>
<td>0.15</td>
<td>&lt;0.001</td>
</tr>
<tr>
<td>Doing things to get the most out of smoking</td>
<td>0.17</td>
<td>&lt;0.001</td>
</tr>
<tr>
<td>Viewing one’s smoking and/or oneself negatively</td>
<td>-0.31</td>
<td>&lt;0.001</td>
</tr>
<tr>
<td>Number of reasons for wanting to quit smoking</td>
<td>0.02</td>
<td>0.589</td>
</tr>
<tr>
<td>Number of reasons for wanting to reduce tobacco use</td>
<td>0.05</td>
<td>0.302</td>
</tr>
<tr>
<td>Overall attitudes toward quitting smoking</td>
<td>-0.43</td>
<td>&lt;0.001</td>
</tr>
</tbody>
</table>
Perceived benefits of smoking and actual tobacco use behaviors

Not surprisingly, people’s perceptions of the benefits they derived from smoking were related to their tobacco use behaviors (Table 1). For example, the greater the benefits they perceived smoking to have for them in their daily lives, the greater the number of cigarettes participants typically smoked each week ($t_{1,483} = 19.84, P < 0.001$). Likewise, the greater the benefits people said they derived from their tobacco use, the more they tended to smoke when sick/ill enough to remain in bed for the day ($F_{1,482} = 22.97, P < 0.001$). The more beneficial aspects of smoking they perceived themselves to experience, the more frequently participants reported needing a cigarette just to function properly ($F_{1,482} = 109.33, P < 0.001$) and the more often they made special trips to purchase cigarettes ($F_{1,482} = 3.283, P < 0.001$). The greater the number of benefits they perceived themselves to derive from their tobacco use, the more often respondents reported needing a cigarette just to function properly ($F_{1,483} = 109.33, P < 0.001$) and the more often they made special trips to purchase cigarettes ($F_{1,483} = 3.283, P < 0.001$). The more the benefits they perceived themselves to experience, the more frequently participants reported needing a cigarette just to function properly ($F_{1,482} = 109.33, P < 0.001$) and the more often they made special trips to purchase cigarettes ($F_{1,483} = 3.283, P < 0.001$). The greater the number of benefits they perceived themselves to derive from their tobacco use, the more often respondents reported needing a cigarette just to function properly ($F_{1,483} = 109.33, P < 0.001$) and the more often they made special trips to purchase cigarettes ($F_{1,483} = 3.283, P < 0.001$).

Table 2. Perceived benefits of smoking.

<table>
<thead>
<tr>
<th>Perceived benefit from smoking</th>
<th>Agreed, %</th>
<th>Neutral, %</th>
<th>Disagreed, %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cigarettes calm me down when angry</td>
<td>82.7</td>
<td>10.7</td>
<td>6.6</td>
</tr>
<tr>
<td>Smoking calms me down when nervous</td>
<td>80.0</td>
<td>11.3</td>
<td>8.7</td>
</tr>
<tr>
<td>Smoking energizes me</td>
<td>25.0</td>
<td>28.4</td>
<td>46.6</td>
</tr>
<tr>
<td>Cigarettes make me feel good</td>
<td>42.9</td>
<td>28.3</td>
<td>28.8</td>
</tr>
<tr>
<td>I enjoy parties more when smoking</td>
<td>63.3</td>
<td>18.0</td>
<td>18.7</td>
</tr>
<tr>
<td>Conversations are more special if we’re all smoking</td>
<td>29.8</td>
<td>20.2</td>
<td>50.0</td>
</tr>
<tr>
<td>Smoking helps to cope with worries</td>
<td>81.9</td>
<td>9.7</td>
<td>8.4</td>
</tr>
<tr>
<td>Enjoy the taste sensation of smoking</td>
<td>56.5</td>
<td>22.1</td>
<td>21.4</td>
</tr>
<tr>
<td>Smoking helps keep me feeling happy</td>
<td>25.8</td>
<td>30.7</td>
<td>43.5</td>
</tr>
<tr>
<td>Smoking satisfies nicotine cravings</td>
<td>88.8</td>
<td>6.2</td>
<td>5.0</td>
</tr>
<tr>
<td>Just handling a cigarette is pleasurable</td>
<td>47.1</td>
<td>18.6</td>
<td>34.3</td>
</tr>
<tr>
<td>Smoking helps keep my weight down</td>
<td>38.8</td>
<td>26.4</td>
<td>34.8</td>
</tr>
<tr>
<td>I feel like a part of a group when I’m around smokers</td>
<td>43.7</td>
<td>22.7</td>
<td>33.6</td>
</tr>
<tr>
<td>Smoking helps to kill time</td>
<td>76.5</td>
<td>9.5</td>
<td>14.0</td>
</tr>
<tr>
<td>I enjoy the steps I take to light up</td>
<td>28.6</td>
<td>37.9</td>
<td>33.5</td>
</tr>
<tr>
<td>I feel more at ease with others if I have a cigarette</td>
<td>38.1</td>
<td>28.9</td>
<td>33.0</td>
</tr>
</tbody>
</table>

Table 3. Multivariate analysis examining the factors associated with the perception of deriving positive benefits from smoking.

<table>
<thead>
<tr>
<th>Independent variable</th>
<th>b (β)</th>
<th>P</th>
</tr>
</thead>
<tbody>
<tr>
<td>Less than high school education</td>
<td>0.20 (0.18)</td>
<td>&lt;0.001</td>
</tr>
<tr>
<td>Age of first purchase of cigarettes</td>
<td>0.02 (0.18)</td>
<td>&lt;0.001</td>
</tr>
<tr>
<td>Proportion of friends who smoke</td>
<td>-0.26 (0.13)</td>
<td>0.003</td>
</tr>
<tr>
<td>Hiding one’s smoking from others</td>
<td>-0.11 (0.10)</td>
<td>0.021</td>
</tr>
<tr>
<td>Extent of viewing events as randomly occurring</td>
<td>0.10 (0.11)</td>
<td>0.028</td>
</tr>
<tr>
<td>Self-esteem</td>
<td>0.15 (0.17)</td>
<td>&lt;0.001</td>
</tr>
</tbody>
</table>

Factors associated with perceiving benefits from smoking

The next part of the analysis entailed examining how people’s perceptions of the benefits they derived from smoking differed based on various personal characteristics, such as their demographic profile, tobacco-related items, and psychological and psychosocial functioning. Regarding the former, as a general rule, participants’ perceptions of the benefits derived from their tobacco use did not differ much based on their demographic characteristics. One exception was found, and that was for educational attainment: people who had not completed high school or the equivalent reported experiencing fewer benefits from smoking than their better-educated counterparts did ($t = 2.21, P = 0.028$). African Americans were slightly more negative in their overall perceptions than members of other racial groups were ($t = 1.72, P = 0.087$). People’s perceptions of the benefits experienced as a result of their tobacco use did not differ based on their gender ($t = 1.15, NS$), age ($F_{1,482} = 0.77, NS$), or marital status ($t = 0.32, NS$). In contrast, for the most part, the tobacco use-related items were found to be related to people’s perceptions of the benefits experienced as a result of their smoking. The younger people were when they had their first cigarette, the more benefits they considered themselves to receive when they smoked ($F_{1,482} = 5.65, P = 0.018$). Similarly, the younger they were when they purchased their first cigarette, the more positive aspects they ascribed now to their tobacco use ($F_{1,482} = 14.36, P < 0.001$). The larger the proportion of the person’s friends who were smokers, the more benefits the study participants perceived themselves to benefit from smoking ($F_{1,482} = 12.25, P < 0.001$). Somewhat counterintuitively, the more complaints people’s nonsmoking friends made to them about their tobacco use, the more these individuals perceived themselves to benefit from smoking ($F_{1,482} = 4.84, P = 0.028$). Moreover, smokers who tried to hide their cigarette use from others were more positive in their perceptions of smoking’s benefits to them than were their peers who did not try to keep their tobacco use hidden from others ($t = 2.05, P = 0.041$). There was a tendency for people who perceived tobacco use to be associated with greater health risks to believe that smoking yielded fewer benefits to them ($F_{1,482} = 3.07, P = 0.081$). Lying to a steady partner about their intentions to quit smoking was not found to be related to the extent to which people perceived themselves to benefit from their tobacco use ($t = 1.33, NS$). The same was true with regard to whether or not people had a parent ($t = 0.80, NS$) or another family member ($t = 1.15, NS$) who was ill or suffering from smoking-related illnesses.

Most of the psychological and psychosocial measures examined were found to be related to the extent to which people perceived their smoking to yield them positive benefits. The less self-conscious people were when in the presence of others, the fewer the benefits they perceived themselves to experience as a result of their smoking ($F_{1,482} = 17.50, P < 0.001$). In addition, the more people perceived the events in their lives to have a random, unpredictable quality to them, the fewer the number of benefits they perceived themselves to derive from tobacco use ($F_{1,482} = 9.66, P = 0.002$). Self-esteem was found to be related inversely to a perception of receiving benefits from tobacco use ($F_{1,482} = 20.94, P < 0.001$). Sociability ($F_{1,482} = 1.89, NS$) and social isolation ($F_{1,482} = 1.99, NS$) were not.
found to be associated with the perception of benefiting from smoking.

Table 3 presents the findings of the multivariate analysis. In total, six items were found to be associated with the extent to which people perceived smoking to be beneficial to them. First, people who had not completed high school or its equivalent viewed themselves as experiencing significantly fewer benefits from smoking than their better-educated counterparts did ($P<0.001$). Second, the younger people were when they first purchase a cigarette, the more positive benefits they said they derived from their tobacco use now ($P<0.001$). Third, the greater the proportion of their friends who were smokers, the greater the number of perceived benefits of smoking was ($P<0.01$). Fourth, persons who reported trying to hide their tobacco use from others said that they got more benefits from smoking than did their counterparts who were not trying to keep their smoking secret ($P<0.05$). Fifth, the more people perceived the events in their lives to occur randomly rather than with predictability and explanation, the fewer the number of benefits they perceived themselves to derive from tobacco use ($P<0.05$). Sixth, the better participants’ self-esteem was, the more negatively they viewed smoking in their lives ($P<0.001$). Together, these six items explained 12.6% of the total variance.

Discussion and Conclusions

Perhaps one of the most striking findings obtained in this research was the sizable proportion of study participants who had positive perceptions regarding the benefits that smoking has for them. Substantial majorities of the people taking part in this research felt that cigarettes calm them down when they are angry or when they are feeling nervous about something, and that smoking helps them to cope with their worries. Additionally, most of the people surveyed said that smoking helps them to pass time, that they enjoy social events like parties more if they are smoking, and/or that they derive satisfaction from doing things to get the most out of one’s tobacco use, smoking more cigarettes than intended, among other outcomes. Again, these relationships are not surprising, but they demonstrate a fairly strong link between having positive perceptions of smoking and actual tobacco use-related outcomes.

Having established that a sizable proportion of the study participants perceived smoking to be beneficial to them, and then having established that this perception was related to their actual tobacco use practices, we turned our attention to an examination of the factors associated with having a positive overall impression of the role(s) that smoking plays in smokers’ lives. Based on a multivariate analysis, we identified six factors that contributed uniquely to the extent to which people perceived smoking to benefit them. These factors merit further discussion.

First, people who were lower in education (i.e., high school diploma or less) were less likely than their better-educated peers to adhere to positive perceptions of the benefits of smoking. This finding stands in contrast to most published reports, which have found an inverse relationship between educational attainment and tobacco-related measures such as cigarette usage.30,31 Thus, we are left with the task of trying to explain why it may be that better-educated adults perceive more benefits to result from their smoking behaviors than their less-well-educated counterparts. One possibility that occurs to us is that cigarette advertising, which glamorizes smoking and makes it appear to be an innocuous behavior in which wealthy, healthy people engage,32,34 may be more effective at reaching better-educated persons because they relate to the advertising media messages better than people who do not resemble tobacco ads’ models. If such media-promulgated tobacco messages are effective at reaching better-educated persons, then this may help to explain why these individuals, as a group, may perceive themselves to derive benefits from smoking. Another possible explanation that occurs to us is that better-educated persons may be more apt to ignore anti-smoking messages or to dismiss them as less relevant to them than their not-as-well-educated counterparts. Research on this topic is lacking. But we believe that it is not unreasonable to expect that anti-smoking campaigns and grassroots anti-tobacco programs may be targeting lower-education persons more often than higher-education persons, simply because of the national trends statistics showing greater tobacco use among less-well-educated people.

Another of the main predictors of perceiving benefits to result from smoking identified in the present study was a younger age of first cigarette purchase. Younger age of beginning smoking has been linked with a reduced likelihood of quitting smoking,35,36 an increased likelihood of rapid progression into nicotine dependence,35,37 and more days missed at work due to illness,35 among other adverse outcomes.38 The present study’s finding of a link between early onset tobacco purchases (which can be used as a proxy measure for the initiation of regular tobacco use) and positive perceptions of the benefits of smoking is consistent with these findings, and it expands upon them by demonstrating yet one more way in which early-onset tobacco use may be of concern. It also highlights the need to consider people who began using tobacco at an early age a target group in need of specific prevention and intervention efforts with regard to smoking cessation.

A third noteworthy finding generated by the present study is that, the greater the percentage of their friends who smoked cigarettes, the more people tended to perceive themselves to derive benefits from smoking. In all likelihood, having tobacco-using friends helps smokers not to feel isolated socially as a result of their tobacco use. Moreover, smoking is likely to be a shared activity among persons who have friends who smoke, as is going to restaurants and other public venues where smoking is permitted. This finding has important and direct implications for smoking cessation: it suggests that helping smokers to modify their social networks, either by spending more time with nonsmoking friends or by spending less time with tobacco-using friends (or both), is likely to yield benefits with regard to the way they think about continuing to smoke and whether or not they will, indeed, continue to smoke. Numerous community-based anti-smoking initiatives have emphasized the value of quitting buddies and social supports as key ways to terminate smoking behaviors,39,41 and these programs have met with great success.

The data also revealed that hiding one’s smoking from others was associated with greater adherence to the perception that smoking is more beneficial than detrimental to oneself. Keeping one’s tobacco use behaviors secret from others is usually something that is reported by underage smokers who do not wish
their parents to find out that they have begun using tobacco, or by persons who work in professions where it looks bad for them to smoke (e.g., nurses, physicians). Further research is needed to understand the phenomenon of hiding one’s smoking behaviors, and to ascertain the extent to which this is related to the increasing stigmatization of cigarette smoking in our society.

Another intriguing finding obtained by the present research is that people whose locus of control is internally - rather than externally- oriented perceive their smoking to yield more benefits to them than do their counterparts who are more externally-oriented, and who perceive the things that happen to them to be out of their own personal control. Previous research has shown that smokers find smoking less rewarding when they perceive their tobacco use to be out of their control versus within their personal control. Moreover, having a greater internal locus of control has been found to be related to greater success in facilitating smoking cessation. It very well may be that a greater internal locus of control is linked with having more positive perceptions of the personal benefits derived from smoking because internally-oriented persons perceive their smoking to be something that they themselves control.

Finally, we confirmed that higher self-esteem was associated with a diminished perception of deriving benefits from smoking. Other published reports have shown an inverse relationship between self-esteem and tobacco use. Our work complements these study findings and extends them, by demonstrating one more way in which low self-esteem may have an impact upon smoking practices, namely, by influencing how people feel about the benefits they derive from using cigarettes. The main implication of this finding is that anti-smoking campaigns and behavioral intervention efforts targeting individual smokers might achieve greater success if they try to incorporate self-esteem enhancement skills components into their program efforts. Our findings suggest that improvements in self-esteem might lead to changes in how people feel about their tobacco use, and that in turn might lead to changes in their actual smoking practices.

We would like to acknowledge three potential limitations of this research. First, the data collected as part of this study of adult persistent smokers were all based on uncorroborated self-reports. Therefore, the extent to which respondents underreported or over-reported their involvement in various smoking-related behaviors is unknown. In all likelihood, the self-reported data can be trusted, as numerous authors have noted that persons in their smoking studies have provided reasonably accurate information about their tobacco-using behaviors.

A second possible limitation pertains to recall bias. Respondents were asked to report about their beliefs, attitudes, and behaviors during the past 30 days or the past year, depending upon the measure in question. These time frames were chosen specifically i) to incorporate a large enough amount of time in the risk behavior questions’ time frames so as to facilitate meaningful variability from person to person, and ii) to minimize recall bias. The exact extent to which recall bias affected the data cannot be assessed, although other researchers collecting various types of smoking-related data have reported that recall bias is sufficiently minimal that its impact upon study findings is likely to be small.

A third possible limitation of these data comes from the sampling strategy used. All interviews were conducted in the Atlanta, Georgia metropolitan area. There may very well be local or regional influences or subcultural differences between these persons and those residing elsewhere that could affect the generalizability of the data.
30. Catley D, Grobe JE. Using basic laboratory research to understand scheduled smoking: a field investigation of the effects of manipulating controllability on subjective responses to smoking. Health Psychol 2008;27:s189-96.