Technical Report—Tobacco as a Substance of Abuse

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KEY WORDS
tobacco use, smoking, adolescents, youth, smoking cessation

ABBREVIATIONS
AAP—American Academy of Pediatrics
FDA—Food and Drug Administration

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abstract

Tobacco use is the leading preventable cause of morbidity and death in the United States. Because 80% to 90% of adult smokers began during adolescence, and two thirds became regular, daily smokers before they reached 19 years of age, tobacco use may be viewed as a pediatric disease. Every year in the United States, approximately 1.4 million children younger than 18 years start smoking, and many of them will die prematurely from a smoking-related disease. Moreover, there is recent evidence that adolescents report symptoms of tobacco dependence early in the smoking process, even before becoming daily smokers. The prevalence of tobacco use is higher among teenagers and young adults than among older adult populations. The critical role of pediatricians in helping to reduce tobacco use and addiction and secondhand tobacco-smoke exposure in the pediatric population includes education and prevention, screening and detection, and treatment and referral. Pediatrics 2009;124:e1045–e1053

TOBACCO AS A SUBSTANCE OF ABUSE

Tobacco products contain the addictive drug nicotine as well as many other toxic chemicals. The use of tobacco, in any form, can lead to addiction, significant morbidity, and premature death. There are several different ways in which tobacco is used, including smokeless chewing tobacco and snuff, as well as tobacco that is smoked through a hookah or water pipe or as a cigar (large cigar, cigarillo, or little cigar), bidi, kretek, or cigarette. Because cigarette smoking is the most prevalent method of tobacco use, it will be the predominant focus of this report. Tobacco smoke contains thousands of toxic chemicals, including many known carcinogens. There is no safe method, level, frequency, or duration of tobacco use or exposure. Moreover, smokeless tobacco is not a safe alternative to cigarette smoking. A policy statement and additional technical report from the American Academy of Pediatrics (AAP) accompany this technical report.

Nicotine in tobacco is a powerfully addictive substance with multiple physiologic and psychological effects. Like many other drugs of addiction, it activates the same brain reward system involved in pleasurable activities such as eating and sexual activity. Tobacco withdrawal symptoms make it difficult for individuals to quit, are variable among individuals, and usually include unpleasant effects such as anxiety, irritability, difficulty concentrating, restlessness, impatience, hunger, tremor, racing heart, sweating, dizziness, nicotine craving, insomnia, drowsiness, headaches, digestive disturbances, and depression. The addictive nature of nicotine combined with the unpleasant withdrawal
symptoms experienced when individuals try to quit are what make nicotine dependence such a chronic, relapsing disease.

**EPIDEMIOLOGY OF TOBACCO USE**

Tobacco addiction usually begins in childhood or adolescence. Children younger than 10 years have reported experimenting with tobacco. Every year in the United States, approximately 1.4 million children younger than 18 years start smoking, and many of them will die prematurely from a smoking-related disease. The prevalence of tobacco use among teenagers and young adults is comparable to and slightly higher than prevalence rates among other adult populations. According to data from the 2007 National Health Interview Survey, an estimated 19.7% of all adults in the United States are current cigarette smokers. In comparison, 20% of high school students are current smokers. The prevalence of current cigarette use is highest among 12th-grade students (26.5%), followed by 11th-grade (21.6%), 10th-grade (19.6%), and 9th-grade (14.3%) students. Unfortunately, the prevalence of quitting (ie, the percentage of those who have ever smoked and who are now former smokers) is lower among younger age groups than among older adults. Approximately 21.3% of male and 18.7% of female high school students in the United States are current cigarette smokers, defined as use in the previous 30 days. Rates of current smokers are highest among non-Hispanic white high school students (23.2%), followed by Hispanic (16.7%) and non-Hispanic black (11.6%) students. Among US middle school students, approximately 6.3% are current cigarette smokers, and estimated rates are slightly higher for girls (6.4%) than for boys (6.3%). Approximately 6.5% of white students, 6.8% of Hispanic students, 5.5% of black students, and 2.6% of Asian American students in middle school are current cigarette smokers. Cigarette-smoking estimates in the US adult population according to age are as follows: 18 to 24 years: 23.9%; 25 to 44 years: 23.5%; 45 to 64 years: 21.8%; and 65 years or older: 10.2%.

In the United States, approximately 7.9% of high school students are current smokeless-tobacco users, defined as use of smokeless tobacco on at least 1 day during the 30 days before the survey. The prevalence of current smokeless-tobacco use is higher among male (13.4%) than among female (2.3%) students and higher among white (10.3%) than among Hispanic (4.7%) or black (1.2%) students. Regarding current cigar use, 13.6% of high school students had smoked cigars, cigarillos, or little cigars on at least 1 day during the 30 days before the survey. Overall, the prevalence of current cigar use was higher among male (19.4%) than among female (7.6%) students and higher among white (14.8%) than among Hispanic (12.7%) and black (10%) students. The prevalence of current smokeless-tobacco use is highest among male (13.4%) than among female (2.3%) students and higher among white (10.3%) than among Hispanic (4.7%) or black (1.2%) students. Regarding current cigar use, 13.6% of high school students had smoked cigars, cigarillos, or little cigars on at least 1 day during the 30 days before the survey. Overall, the prevalence of current cigar use was higher among male (19.4%) than among female (7.6%) students and higher among white (14.8%) than among Hispanic (12.7%) and black (10%) students.

**Education and Socioeconomic Status**

There is an inverse relationship between rates of cigarette smoking and both socioeconomic status and education in young people and adults. For example, in 2006, smoking a half-pack or more per day was approximately 3 times as prevalent among 12th-graders who were not going to college as among those who were college bound (13.0% vs 3.9%, respectively). Among survey respondents of college age (1–4 years past high school), those not enrolled in college had a dramatically higher rate of half-pack-a-day smoking than those who were in college (17.0% vs 4.9%, respectively). Cigarette-smoking prevalence is highest for adults with a general education development (GED) diploma (46.0%) or 9 to 11 years of education (35.4%) and lowest for adults with an undergraduate college degree (9.6%) or a graduate college degree (6.8%).

**Tobacco Use and Mental Illness**

Nicotine dependence is more common among adults with mental health disorders such as schizophrenia and depression. Likewise, in youth, tobacco use may be a marker for mental health problems such as depression and anxiety disorders. Tobacco use may represent a means of self-treating symptoms often associated with these disorders. Depending on the population studied, 55% to 90% of individuals with other mental disorders smoke, compared with approximately 20% in the general population. Mood disorders, anxiety, and other substance use–related disorders may be more common in individuals who smoke than in those who are former smokers and those who have never smoked. Facilities that offer mental health services often do not treat tobacco addiction; however, inpatient mental health and substance abuse treatment facilities with no-smoking policies have been successful in promoting smoking cessation, even among adolescents. Monihan et al reported that after implementing a smoking ban, some inpatient psychiatric facilities noted an increase in staff satisfaction and a significant decrease in violence and behavioral problems related to smoking habits. These results lend support to the recommendation that inpatient facilities should offer tobacco-addiction treatment.

**Tobacco Use Among Lesbian, Gay, Bisexual, and Transgender Youth**

Studies show that lesbian, gay, bisexual, and transgender youth are significantly more likely than heterosexual youth to engage in high-risk behaviors (such as fighting, substance use, and...
that for smoking persistence to be 70%. It is hypothesized that multiple polymorphic genes are involved, with each modestly increasing the risk of developing nicotine dependence. These genes affect nicotine metabolism as well as the dopamine receptors and transporters that mediate reward in the brain nucleus accumbens.

Peer influences are also important in the uptake of tobacco use; teenagers with more friends who smoke are more likely to start smoking. Teenagers who have an inaccurately high perception of smoking prevalence among their peers and who believe that smoking is popular among the elite/successful elements of society are more likely to smoke. Studies have also shown among adolescent girls a relatively consistent association between having higher body weight or concerns about weight and a greater likelihood of smoking.

Nicotine is the primary addictive component in tobacco. Like other drug addictions, nicotine addiction is a chronic condition with the potential for periods of relapse and remission throughout life. The time interval from experimentation or initiation of tobacco use to regular use varies considerably among individuals but typically averages 2 to 3 years. Experts traditionally believed that nicotine addiction developed after 2 or 3 years of regular tobacco use, but recent evidence has shown that symptoms of nicotine addiction may be apparent in some youth after short-term use of tobacco. DiFranza et al demonstrated that 10% of youth who become hooked on cigarettes exhibit “loss of autonomy” within 2 days of first inhaling from a cigarette, and 25% demonstrate evidence within 1 month. The study also revealed that even adolescents who smoke only a few cigarettes per month and those who have smoked as few as 100 cigarettes can suffer physical and psychological withdrawal symptoms when they attempt to quit using tobacco and are deprived of nicotine. Despite not yet being daily smokers, these youth may benefit from help to overcome withdrawal symptoms. Adolescent tobacco users often underestimate the addictive nature of nicotine. Of adolescent smokers who reported believing that they would not be smoking in 5 years, approximately 75% were still smoking 5 to 6 years later. The younger a person is when starting tobacco use, the more likely he or she is to become heavily addicted to nicotine and experience more difficulty with trying to quit. This is likely related to the vulnerability of the developing brain, because animal research has shown that the adolescent brain is more susceptible than the adult brain to the reinforcing effects of nicotine.

SOURCES OF TOBACCO USED BY YOUTH

Youth obtain tobacco from a variety of sources. Noncommercial sources of tobacco include friends, siblings, parents, relatives, and even baby-sitters. Youth most commonly obtain their first cigarettes from friends or siblings, although stealing their first cigarettes from parents is not uncommon. After the first cigarette, those who continue to smoke typically will rely on same-aged friends as their first steady source. Sharing cigarettes among friends is very common. In 1 study, 99% of young smokers reported having, at some time, obtained tobacco from friends.

The 2007 Monitoring the Future survey revealed that 56% of 8th-graders and 78% of 10th-graders said cigarettes were easy for them to get. Although all states have laws that prohibit the sale of tobacco products to people younger than 18 years, the level of enforcement of these prohibitions varies. 

INITIATION OF TOBACCO USE AND ONSET OF ADDICTION

Initiation of tobacco use is considered multifactorial. Several factors are involved in influencing youth to experiment with tobacco, including socioenvironmental (eg, advertising/media influences, peer influences, parental influences, ethnic and gender factors), psychological (eg, psychiatric illness or history, child development, weight concerns), and biological (eg, genetics) factors. Teenagers with at least 1 smoking parent are twice as likely to become smokers compared with teenagers whose parents do not smoke. This is attributed to the availability of tobacco products in the home, modeling of the behavior, and the hypothesized role of nicotine receptor priming as a result of being exposed to nicotine in utero and second-hand smoke after birth.

Studies of twins and cigarette smoking have indicated that genetic influences play a crucial role in smoking initiation, persistence, and ability to quit smoking, with the heritability of smoking initiation considered to be 50% and
The 2003 National Survey on Drug Use and Health revealed that among 12- to 17-year-olds who had smoked in the previous month, more than three quarters of them (77%) had purchased their own cigarettes. More than half (53.3%) had directly purchased their own cigarettes; 63.3% had given money to others to buy cigarettes for them; nearly one third (30.5%) had purchased cigarettes from a friend, family member, or someone at school; and a small portion had purchased cigarettes over the Internet or through the mail (2.6% and 2.9%, respectively). In addition, 62% had “bummed” cigarettes from others, and 13.1% had taken cigarettes from others without asking, with 0.8% having stolen cigarettes from a store. Older underaged smokers were more likely to buy directly in stores than were younger smokers.

TOBACCO AS A GATEWAY DRUG

Tobacco is often described as a gateway drug that can lead to the use and abuse of other substances. Teenagers who smoke are 3 times more likely than nonsmokers to use alcohol, 8 times more likely to use marijuana, and 22 times more likely to use cocaine. Smoking has been associated with other high-risk behaviors including high-risk sexual practices, such as having multiple sexual partners or unprotected sex, and perpetration of youth violence. In fact, tobacco use is an individual risk factor for youth violence.

EFFECTS OF TOBACCO USE

Smoking harms nearly every organ of the body, causing many diseases and reducing the health of smokers in general. Quitting smoking has immediate and long-term benefits, reducing risks of diseases caused by smoking and improving health in general. Smoking cigarettes with lower machine-measured yields of tar and nicotine provides no clear benefit to health. The list of diseases caused by smoking has been expanded to include abdominal aortic aneurysm, acute myeloid leukemia, cataract, cervical cancer, kidney cancer, pancreatic cancer, pneumonia, periodontitis, and stomach cancer. These are in addition to diseases previously known to be caused by smoking, including bladder, esophageal, laryngeal, lung, oral, and throat cancers; chronic lung diseases; coronary heart and cardiovascular diseases; and reproductive effects and sudden infant death syndrome.

TABLE 1 Major Conclusions of the 2004 Surgeon General Report

| Smoking harms nearly every organ of the body, causing many diseases and reducing the health of smokers in general. |
| Quitting smoking has immediate and long-term benefits, reducing risks of diseases caused by smoking and improving health in general. |
| Smoking cigarettes with lower machine-measured yields of tar and nicotine provides no clear benefit to health. |
| The list of diseases caused by smoking has been expanded to include abdominal aortic aneurysm, acute myeloid leukemia, cataract, cervical cancer, kidney cancer, pancreatic cancer, pneumonia, periodontitis, and stomach cancer. |

Women who smoke double their risk of developing coronary heart disease and increase by more than 10-fold their likelihood of dying from chronic obstructive pulmonary disease. Moreover, cigarette smoking increases the risk of infertility, preterm delivery, stillbirth, low birth weight, and sudden infant death syndrome.

PREVENTION

Effective strategies for preventing adolescent tobacco use include public health approaches as well as individual strategies. Some public health approaches that may be effective include restricting the promotion of tobacco products in general and specifically prohibiting promotions aimed at children, including laws prohibiting the sale of tobacco to minors and raising the price of tobacco through aggressive taxation. Also, changing the social norm about the normality and acceptability of tobacco use is an effective prevention strategy that can be accomplished through the use of school smoking bans, health education, household smoking bans, and restrictions on smoking in public places. As part of the 1998 Master Settlement Agreement between 46 states’ attorneys general and the 4 largest tobacco companies in the United States, the tobacco manufacturers agreed to stop using cartoon characters in their advertisements, advertising on billboards, and putting their brand names on articles such as clothing and also agreed to avoid targeting children and adolescents with marketing and advertising. However, the tobacco industry has continued to devise new ways to target product marketing to children through using print ads, sponsoring motor sports, and depicting smoking in movies.

Pediatricians and parents have important roles in preventing tobacco use by children and adolescents. Pediatric-
cians should use anticipatory guidance to implement and encourage individual patient-level strategies to educate patients and families and prevent tobacco use and exposure. Children should be screened for smoking risks beginning by 5 years of age. All clinical encounters should include inquiries about tobacco use and second-hand smoke exposure and clear documentation of the information in the medical record. Children and adolescents should be warned about the harmful effects of tobacco and the ease with which experimentation progresses to addiction and regular use.50,51 Because children with smoking parents are more likely to smoke and to start at an earlier age, screening for parental tobacco use is an important preventive measure.64 Parents should be advised to maintain smoke-free households and vehicles and to articulate clear messages that they expect their children to remain smoke free. Parental attitudes, opinions, and feelings about their children’s smoking status greatly influence whether children will smoke, even when parents smoke.65–67

PUBLIC POLICIES FOR TOBACCO-USE REDUCTION

Comprehensive tobacco-control programs should include interventions that have been proven effective in preventing tobacco-use initiation among youth and young adults, promote cessation among adults and youth, and eliminate secondhand smoke exposure and tobacco-related disparities. The ideal comprehensive approach to tobacco control includes population-based and individual-level interventions.61,68 Population-based interventions include clean indoor-air legislation, tobacco tax increases, restricted youth access to tobacco, and mass-media antitobacco campaigns.67,68 Individual-level interventions include treatment services that have been proven to increase tobacco-cessation rates, such as behavioral counseling and pharmacotherapy. The progress that has been made thus far in reducing youth smoking rates has been accomplished through a combination of such strategies, including raising tobacco taxes, passing legislation that limits minors’ access to tobacco products and prohibits smoking in public places, and running aggressive media countermarketing campaigns.69 Studies have demonstrated that youth are particularly susceptible to tobacco advertising and promotions. One important source of tobacco promotions is movies. Tobacco is depicted in 56% of films with Motion Picture Association of America ratings of G, PG, or PG-13—the films children are most likely to see—and in 87.5% of films with an R rating.70 Research has indicated that exposure to movie smoking is a primary independent risk factor for youth smoking initiation.36,71 Given the prevalence of protobacco images in movies viewed by children and the impact it has on smoking initiation among youth, there is a critical need to support the Smoke Free Movies effort. The Motion Picture Association of America recently agreed to consider whether a film depicts smoking when determining its ratings of movies.

Youth tobacco users are also very price sensitive, so raising tobacco taxes causes a dramatic decrease in youth tobacco-use rates. Raising taxes also leads to more adults seeking smoking-cessation services.60,61 Clean indoor-air legislation also correlates with more tobacco-use cessation. The American Legacy Foundation’s social marketing campaign, Truth (www.thetruth.com), has been independently associated with significant declines in youth smoking.72 Cigarette warning labels are an important component of comprehensive tobacco-control and smoking-cessation efforts. In 1984, Congress enacted the Comprehensive Smoking Education Act (Pub L No. 98–474), which required rotation of the following 4 black-and-white text messages on the side of cigarette packages:

2. Surgeon General’s Warning: Quitting smoking now greatly reduces serious risks to your health.
3. Surgeon General’s Warning: Smoking by pregnant women may result in fetal injury, premature birth, and low birth weight.

For the past 20 years, there have been no changes to US cigarette package warning labels; however, several other countries, including Canada, Australia, Thailand, South Africa, Singapore, and Poland, have mandated stronger health warnings on cigarette packages by requiring the addition of graphic images, detailed statistical information about tobacco-use health risks, and information about how to quit smoking. In a study that compared US and Canadian warning labels, young adult (18–24 years of age) focus-group participants perceived the larger, more graphic Canadian warning labels to be more informative and more likely to attract a smoker’s attention.73 Hammond et al74 found that large, comprehensive warnings on cigarette packages are more likely to get noticed and have been rated as more effective by smokers in deterring them from smoking. Active discussion and advocacy efforts in the United States currently focus on legislation that passed in 2009, giving the US Food and Drug Administration (FDA) the authority to regulate tobacco products and
marketing and strengthen warning labels.

**CLINICAL PRACTICES FOR TOBACCO-USE REDUCTION**

Studies have indicated that most adolescent and young adult smokers want to quit and even try to quit smoking, but few are successful. In 2007, the percentage of high school smokers who made a quit attempt ranged from 43.4% to 62.5%, with a median of 55.7%. Although youth report a desire to quit and quit attempts, few seek medical help with quitting. A number of possible reasons have been cited for this, including the lack of smoking-cessation modalities proven effective for youth, youth not believing that quitting tobacco use warrants professional help, youth preferring privacy, and available cessation programs not addressing the unique concerns and issues most relevant to youth tobacco users. When pediatricians do provide medical care related to tobacco use, they must uphold confidentiality standards established through pediatric and adolescent medicine professional organizations and supported by state laws.

Although extensive scientific evidence supports best-practice recommendations and strategies for tobacco dependence treatment in adults, the scientific evidence for treating tobacco use and dependence effectively in adolescents is still evolving. The recently released Public Health Service clinical practice guideline, “Treating Tobacco Use and Dependence: 2008 Update,” states that counseling has been shown to be effective in the treatment of adolescent smokers. The cognitive-behavioral counseling approach involves establishing awareness of tobacco use, identifying motivations to quit, preparing to quit, and providing strategies for maintaining abstinence after cessation. The 5 A’s model, as out-

**TABLE 2 Brief Interventions to Treat Tobacco Dependence:** The 6 A’s for Brief Intervention to Treat Tobacco Dependence

<table>
<thead>
<tr>
<th>Anticipate risk of tobacco use</th>
<th>Routinely ask parents about smoking. Make parents aware of age of smoking onset. Discuss health effects of tobacco use. Be aware of populations at increased risk of tobacco initiation.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ask about tobacco use</td>
<td>Identify and document tobacco-use status and secondhand smoke exposure for every patient at every visit.</td>
</tr>
<tr>
<td>Advise to quit</td>
<td>In a clear, strong, and personalized manner, urge every tobacco user to quit and nonusers to remain tobacco free. (Focus on short-term effects with youth; remind parents of their responsibility as role models.)</td>
</tr>
<tr>
<td>Assess willingness to make a cessation attempt</td>
<td>Is the tobacco user willing to make a cessation attempt at this time? (Assess risk of future tobacco use; praise and reinforce healthy decisions; help youth practice refusal skills.)</td>
</tr>
<tr>
<td>Assist in cessation attempt</td>
<td>For the patient willing to make a cessation attempt, use counseling to help him or her quit. (Set a quit date; provide brief counseling and self-help materials; refer to quit line.)</td>
</tr>
<tr>
<td>Arrange follow-up</td>
<td>Schedule follow-up contact, preferably within the first week after the cessation date. (Monitor progress and problems; reinforce antismoking messages; discuss possibility of relapse.)</td>
</tr>
</tbody>
</table>

**TABLE 3 Smoking-Cessation Medications**

<table>
<thead>
<tr>
<th>Medication</th>
<th>Dose</th>
<th>Adverse Effects, Precautions, Warnings, and Contraindications</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bupropion</td>
<td>Begin treatment 1–2 wk before quit date; 150 mg/day for 3 d, 150 mg twice daily for 7–12 wk after quit date</td>
<td>Adverse effects: insomnia, dry mouth; contraindications: monoamine oxidase (MAO) inhibitor use in past 14 d, history of seizure or eating disorder</td>
</tr>
<tr>
<td>Nicotine gum</td>
<td>At least 1 piece every 1–2 h for the first 6 wk (≤24 pieces/day)</td>
<td>Adverse effects: mouth soreness, hiccups, dyspepsia; acidic drinks interfere with absorption of nicotine Acidic drinks interfere with absorption of nicotine</td>
</tr>
<tr>
<td>Nicotine inhaler</td>
<td>6–16 cartridges per day</td>
<td></td>
</tr>
<tr>
<td>Nicotine lozenge</td>
<td>1 lozenge every 1–2 h for first 6 wk (at least 1 lozenge per day), 1 every 2–4 h during weeks 7–9, then 1 every 4–8 h (≤20 lozenges per day)</td>
<td>Adverse effects: nausea, hiccups, heartburn; acidic drinks interfere with absorption of nicotine</td>
</tr>
<tr>
<td>Nicotine nasal spray</td>
<td>1–2 doses per hour (minimum: 8 doses per day; maximum 40 doses per day)</td>
<td></td>
</tr>
<tr>
<td>Nicotine patch</td>
<td>21 mg/24 h for 4 wk, 14 mg/24 h for 2 wk, and 7 mg/24 h for 2 wk (step-down dosage) or 13 mg/16 h for 8 wk (single dosage)</td>
<td>Adverse effects: local skin reaction, insomnia, and/or vivid dreams</td>
</tr>
<tr>
<td>Varenicline (Chantix [Pfizer, Mission, KS])</td>
<td>Start treatment 1 wk before quit date; 0.5 mg/d for 3 d, 0.5 mg twice daily for 4 d, 1 mg twice daily for 3 mo</td>
<td>Precaution: decrease dose if kidney disease; warning: depressed mood, agitation, behavior changes, suicidal ideation, and suicide have been reported; adverse effects: nausea, trouble sleeping, abnormal/vivid dreams</td>
</tr>
</tbody>
</table>

*See FDA package insert for more complete information.*
lined in the Public Health Service guideline, has been modified for children and adolescents. The AAP has advocated a sixth A—anticipate—that takes into account child development and the importance of anticipatory guidance in pediatric practice (see Table 3). A few studies have examined the use of pharmacotherapy agents in helping youth quit smoking; however, most of the studies have suffered from small sample sizes, limited power, and high attrition rates. Although nicotine-replacement medications have been shown to be safe in adolescents, there is little evidence that these medications or bupropion are effective in promoting long-term abstinence among adolescent smokers. They are, therefore, not recommended as components of pediatric tobacco intervention by the Public Health Service guideline.

ADDITIONAL RESEARCH NEEDED

There are major gaps in the scientific literature used to support decisions regarding youth tobacco control. Although there are challenges to conducting this research, including recruitment and retention, researchers have been making steady progress. Some areas that require further study in youth populations include the factors that motivate tobacco-cessation attempts, safety and effectiveness of tobacco-cessation pharmacotherapy in adolescents, use and efficacy of telephone quit lines, and Web-based strategies for engaging youth in tobacco cessation.

CONCLUSIONS

Smoking remains the most common preventable cause of illness and death in the United States. Smokeless-tobacco and secondhand smoke exposure cause additional morbidity and mortality. Clinicians caring for pediatric patients should provide tobacco-use and exposure prevention and cessation education and advice, screening and counseling, and intervention and referral for patients and their families.

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*Pediatrics* 2009;124;e1045
DOI: 10.1542/peds.2009-2121 originally published online October 19, 2009;

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