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CURRENT TOBACCO SMOKING BY THE NSW POPULATION AND THE CONSEQUENCES FOR HEALTH

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BACKGROUND
The risk factor responsible for the greatest disease burden in Australia is tobacco smoking, which accounts for approximately 12 per cent of the total burden of disease in males and seven per cent in females.1 Tobacco smoking contributes to higher drug-related morbidity and mortality than both alcohol and illicit drug use combined.2 It is the leading preventable cause of morbidity and mortality, particularly from: cardiovascular disease; cancers of the lung, larynx and mouth; and chronic obstructive pulmonary disease. It is estimated that approximately half of all long-term smokers will die from smoking-related causes.1 Smoking while pregnant contributes to an increased risk of having a low birthweight baby. Exposure to environmental tobacco smoke is known to be a risk factor for lung cancer and cardiovascular disease in adults, and for sudden infant death syndrome, asthma, and lower respiratory disease in children.4

This article presents recent Australian and NSW data that describe current tobacco use by the NSW population and provides a context for the other articles in this issue of the NSW Public Health Bulletin that focus on tobacco control in New South Wales.

CURRENT SMOKING PREVALENCE
Reported prevalence rates for smoking vary according to a variety of factors associated with the design of surveys, including the data collection method used, questions asked, sample size, and the age of the sample population. A recent study discussed the causes of these perceived discrepancies in the prevalence of smoking between two Australian national surveys: the National Health Survey and the National Drug Strategy Household Survey identifies ‘current smokers’, including ‘daily’ plus ‘other’ and reported a prevalence of 24.3 per cent.5 The National Drug Strategy Household Survey identifies ‘daily’, ‘weekly’, and ‘less than weekly’, and reported the prevalence of daily smoking to be 19.5 per cent. After standardising methods and ages, Siahpush reported that the best estimate of smoking prevalence to be almost identical in both surveys at 24.3 per cent and 24.2 per cent respectively.5

Smoking prevalence in Australia is among the lowest of all countries participating in the Organization for Economic Cooperation and Development. The 2001 National Drug Strategy Household Survey compared smoking prevalence among people aged over 14 years between all Australian states and territories,2 and found that NSW had the lowest prevalence of smoking in Australia, with 18.1 per cent of the population smoking daily, and a further 3.4 per cent smoking weekly or less often, giving a total of 21.5 per cent who smoked. Overall,
in NSW, more males smoked every day (19.1 per cent) than females (17.2 per cent); however, among those aged 14–19 years the situation was reversed with females (14.9 per cent) more likely than males (11.2 per cent) to smoke on a daily basis. More than half of the respondents (52.8 per cent) had never smoked—defined as never having smoked more than 100 cigarettes in their lifetime—with females (57 per cent) more likely than males (48.5 per cent) to describe themselves as never having smoked.

The New South Wales Health Survey definition of ‘current smoking’ includes those who smoke daily and those who smoke occasionally. In 2002, 21.4 per cent of the NSW population aged 16 years and over reported that they were current smokers, with 16.3 per cent smoking daily, and a further 5.1 per cent who smoked occasionally (Figure 1). Significantly more males (23.9 per cent) than females (18.9 per cent) reported that they currently smoke. Rates of current smoking were highest among younger people, with 27.4 per cent of females aged 16–24 years and 34.7 per cent of males aged 25–34 years being current smokers. Smoking prevalence declined with age, with 9.3 per cent of people aged 65–74 years and four per cent of those aged over 75 years being current smokers.

Current smoking prevalence has declined significantly in NSW, in the five-year period between 1997 (24 per cent) and 2002 (21.4 per cent). However, there is significant geographic and socioeconomic variation in the populations who smoke. In 2002, residents of rural area health services (23.5 per cent) were more likely to be current smokers than residents of urban area health services (20.8 per cent). Respondents from the least disadvantaged socioeconomic quintile (14.0 per cent) and residents of the Northern Sydney Area Health Service (14.2 per cent) reported significantly lower rates of current smoking, compared to the overall population of NSW (21.4 per cent). People in the second most disadvantaged quintile and residents of the Far Western Area Health Service reported higher rates of smoking (24.7 per cent and 26.9 per cent respectively).

Although in global terms NSW has one of the lowest overall prevalence rates of current smoking, one in five people in NSW are smokers and are at risk of serious health consequences as a result. This risk extends to those who are exposed to environmental tobacco smoke. The prevalence rates for some demographic groups are much higher than for the NSW population as a whole as described below.

People from culturally and linguistically diverse backgrounds

In the 1997 and 1998 NSW Health Surveys, smoking patterns among overseas-born respondents varied between men and women. The highest rates of smoking were reported by men born in Vietnam, Laos, or Cambodia (43.6 per cent); Lebanon (42.3 per cent); and New Zealand (37.1 per cent). For women, the highest rates were reported by respondents from New Zealand (36.2 per cent) followed by those born in the Former Yugoslav Republic (28.7 per cent), and Lebanon (27.4 per cent). Women born in Vietnam, Laos, or Cambodia (13.3 per cent) reported much lower rates than other women in NSW.
Aboriginal and Torres Strait Islander people
The 2001 National Drug Strategy Household Survey, found that the prevalence of current smoking (including ‘daily’ and ‘occasional’) among Aboriginal and Torres Strait Islander people was 50 per cent, more than double that of non-indigenous Australians (23 per cent). The prevalence of daily smoking among Aboriginal and Torres Strait Islander women (47 per cent) was more than two-and-a-half times the rate for non-indigenous women (18 per cent). For Aboriginal and Torres Strait Islander men the daily smoking rate was 43 per cent, double that of non-indigenous men (21 per cent).

Secondary school students
Of NSW secondary school students aged 12–17 years who participated in the Australian Secondary School Alcohol and Drug Survey in 2002, the majority (80 per cent) described themselves as non-smokers. Compared to the previous survey in 1999, there was a significant decrease in the number of students describing themselves as a ‘recent’ smoker (defined as reporting smoking on at least one day in the week prior to the survey), from 17 per cent to 12 per cent among boys and from 19 per cent to 15 per cent in girls. This trend was observed in both sexes across all age groups except for 12 year old girls, where there was a slight increase. The highest prevalence was among 17 year olds, with 22.8 per cent of males and 25.6 per cent of females reporting that they had smoked recently. Overall, between the 1999 and 2002 surveys there was a decline in those reporting recent smoking from 18 per cent to 13 per cent.

The trend of those reporting having ever smoked has fallen consistently from the 1980s. In 1984, 57 per cent of students surveyed reported having ever smoked and in 2002, the proportion had fallen to 42 per cent. Overall, nine per cent of respondents smoked on three or more days in the previous week and four per cent smoked daily.

Smoking in pregnancy
The proportion of NSW mothers reporting that they smoked during their pregnancy declined from 22.1 per cent in 1994 to 16.3 per cent in 2002. For the same period, the rate of smoking during pregnancy among NSW Aboriginal and Torres Strait Islander women was consistently three times that of all pregnant women in NSW and demonstrated a slower rate of decline, from 60.3 per cent in 1994 to 58.0 per cent in 2002 (Figure 2).
In 1989, smoking killed 216 men and 67 women per 100,000 population; by 2000, the rate had decreased to 132 men and 50 women per 100,000 population. Over this time, the death rate attributable to smoking declined by approximately 39 per cent for men and 26 per cent for women.11 Aboriginal and Torres Strait Islander peoples are at greater risk of requiring hospitalisation and/or dying from diseases that are attributable to smoking than are non-indigenous Australians.12

MORBIDITY
In 1999–2000, almost 54,000 NSW hospital separations were attributable to tobacco smoking, with 35,277 hospitalisations among males and 18,531 among females. This represents four per cent of all hospitalisations for males and 1.8 per cent for females. Between 1989–1990 and 1999–2000 the age-adjusted rate for tobacco-related hospitalisation for females increased by approximately 18 per cent, from 425 to 502 per 100,000 population. For males there was an approximately four per cent increase over the same period, from 1,020 to 1,057 per 100,000 population.11

It was recently estimated that hospitalisations attributable to tobacco smoking in NSW in 1999–2000 incurred hospital costs of almost $180 million, or approximately $500,000 per day.13

SECOND-HAND SMOKE
A recent estimate of the social costs of drug abuse found that there were 224 deaths in Australia in 1998–99 attributable to ‘involuntary smoking’, including exposure to environmental tobacco smoke, smoking in pregnancy, and smoking-related fires. Of these, 103 deaths occurred among those aged 0–14 years and 122 among those aged 15 years and over. Second-hand smoking was responsible for almost 78,000 bed days and $47.6 million in hospital costs in Australia in 1998–99.14

SMOKE-FREE HOUSEHOLDS
Respondents to the New South Wales Adult Health Survey 2002 were asked whether people were allowed to smoke inside their home. There was a 15 per cent increase in the proportion of respondents who reported that their home was smoke-free between 1997 (69.8 per cent) and 2002 (81.0 per cent). Overall, less than 20 per cent of respondents stated that they allow smoking in their home either ‘occasionally’ (9.8 per cent) or ‘frequently’ (9.2 per cent). There was both geographic and socioeconomic variation in the prevalence of smoke-free homes. Residents of the Northern Sydney Area Health Service (88.7 per cent) and those in the least disadvantaged socioeconomic quintile (88.5 per cent) were more likely to report that their home was smoke-free than those living in the Far Western Area Health Service (73.4 per cent) and those in the most disadvantaged quintile (74.4 per cent).15

PERCEPTIONS OF THE CURRENT SMOKING PREVALENCE RATE
Respondents to the New South Wales Adult Health Survey 2002 were asked to estimate the percentage of the population who are smokers. Around three-quarters (74.2 per cent) of respondents overestimated smoking prevalence suggesting that 30 per cent or more of the population are smokers and more than one third of respondents, (38.5 per cent) perceived that at least half of the population smoke.15

INTENTION TO QUIT SMOKING
The New South Wales Adult Health Survey 2002 found that, of those people described as current smokers, one-third planned to quit smoking within the next six months (32.9 per cent), a further 12.7 per cent planned to quit smoking within the next month, and 5.8 per cent had recently quit smoking.15

DISCUSSION
The World Health Organization describes tobacco smoking as a ‘chronic relapsing disease’ and estimates that by the year 2030 tobacco-related mortality will reach 10 million deaths per year globally, and that around 500 million people who are alive today will die from smoking.16 The World Bank suggests that efforts to reduce adult smoking (that is, increasing cessation) are likely to have a greater effect on mortality in the medium term than preventing the ‘take-up’ of tobacco smoking among young adults, and recommends addressing the balance between treatment and prevention.17

As smoking prevalence declines in the general population there is an international debate among tobacco researchers regarding the characteristics of the remaining population of smokers.18,19 As fewer and fewer people smoke, there may be a group of highly nicotine dependent smokers remaining who will find it very difficult to quit and may need more intensive support services and pharmacotherapies. Helping these smokers to quit will be a major challenge for the health system. This is further complicated by the association between high nicotine dependence and, alcohol and other drug dependence, depression and other psychiatric conditions.18

The article in this issue of the Bulletin by Mitchell and Hailstone describes the range of activities undertaken through the NSW Tobacco Action Plan 2001–2004 to reduce the prevalence of smoking. To achieve further reductions in the smoking prevalence rate in New South Wales, there is a continuing need for a comprehensive tobacco control program. The NSW Department of Health’s current tobacco control program integrates evidence-based public education programs, legislation, and cessation policy, and fosters partnerships with individuals, non-government organisations, and medical associations with a strong commitment to tobacco control.
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