Alcohol use and misuse

Alcohol use and misuse in Canada continues to be substantial. According to the latest data from the 2005 Canadian Addiction Survey, 79.3% of Canadians 15 years and older consume alcohol. Although not directly comparable to the Canadian Addiction Survey because of methodological differences, Canada’s Alcohol and Other Drugs Survey in 1994 found that 74.7% of respondents reported that they consume alcohol. These findings suggest that rates of alcohol use in Canada remain high. The Canadian Addiction Survey data also suggest that 44.0% of Canadians who use alcohol drink at least once weekly and that 9.9% drink 4 or more times per week. Accordingly to guidelines for low-risk drinking, alcohol intake should not exceed 14 standard drinks per week for males, and 9 standard drinks per week for females. However, in 2005, 17% of current drinkers in Canada engaged in hazardous drinking behaviours, 25.1% of whom were men and 8.9% women. Among former and current drinkers, 24.2% reported that their drinking had caused harm to themselves or others.1

Alcohol-related mortality is also substantial in Canada. In 2002, 1631 people aged 69 or less died of chronic diseases attributed to alcohol consumption; this figure translates to 2.4% of all deaths in this age group, nearly 43 000 years of life lost prematurely and nearly 125 000 hospital admissions because of alcohol-related chronic diseases.3 Moreover, per capita alcohol consumption is positively correlated with total suicide-related mortality.

Lower age, male sex and a family history of alcoholism are risk factors for alcohol misuse. Psychiatric illness and illicit drug abuse are also highly prevalent among people who misuse alcohol. As well, cigarette smoking rates are reported to be as high as 80%–90% among people with alcoholism, and smoking-related disease is the primary cause of death among people recovering from alcoholism.2

Identifying problem drinkers is an important role for general practitioners. Simple screening tools such as the CAGE questionnaire—Have you felt you needed to cut down on your drinking? Have you felt annoyed by criticism of your drinking? Have you felt guilty about drinking? Have you felt you needed a drink first thing in the morning (eye-opener)?—have proven useful in clinical practice. Two affirmative answers with this questionnaire predict with 90% sensitivity an alcohol use disorder.

Participation in self-help groups (e.g., Alcoholics Anonymous) is particularly useful for problem drinkers. The psychosocial support provided is most helpful for the achievement of long-term sobriety, and membership in Alcoholics Anonymous has been linked to a reduced risk of alcohol-related suicide. Brief (e.g., less than 5 minutes) motivational interventions are considerably effective in encouraging problem drinkers to address their heavy drinking and, if necessary, referring them for more specialized interventions.

According to a 2005 survey, 17% of current drinkers in Canada engaged in hazardous drinking behaviours. Physicians can play a critical role in identifying problem drinkers, motivating them to address their heavy drinking and, if necessary, referring them for more specialized interventions.

Several effective pharmacotherapies to help problem drinkers have been approved by Health Canada. They include the alcohol-abuse deterrent disulfiram (Antabuse) and the opioid receptor antagonist naltrexone (ReVia). Naltrexone appears to have some efficacy in reducing alcohol consumption and preventing relapse, but compliance is poor because of gastrointestinal side effects. A depot formulation of naltrexone (Vivitrol) is now available in the United States. The deterrent acamprosate (Campral) has been approved in Europe and the United States for treating alcohol dependence and preventing relapse. European studies have demonstrated the combined efficacy of naltrexone and acamprosate in preventing relapse; however, the COMBINE study in the United States did not show evidence of acamprosate’s efficacy, alone or in combination with naltrexone, in preventing relapse.6 Off-label use of certain medications, such as the anticonvulsant topiramate and the serotonin 5-HT3 receptor antagonist and antiemetic ondansetron, have shown considerable promise for the treatment of alcoholism.

Recent population-based and molecular genetic studies as well as neuroimaging investigations have shed much light on the pathophysiology of alcohol dependence and its relation to coexisting drug abuse and mental health disorders.

Although there are effective pharmacologic and behavioural treatments for alcohol use disorders, few people...
with such disorders receive treatment or participate in self-help groups, as indicated in a recent US study7 and the Canadian Addiction Survey.1 Therefore, the opportunity is critical for physicians to engage problem drinkers, especially since such contact is known to markedly increase treatment-seeking by these patients. Although effective alcohol control policies are important population-based strategies for addressing problem drinking in Canada, general practitioners and specialists can do much in their practices insofar as identifying problem drinkers, using brief motivational interventions and, failing such efforts, referring patients for more specialized behavioural and pharmacologic interventions.

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