As the burden of alcohol misuse — in terms of disease, trauma and social problems — grows in Canada, increased access to brief interventions is recommended. Such access forms part of a comprehensive two-tiered response involving population-level changes, such as regulating the marketing, pricing and availability of alcohol, and more focused practices, such as education and intervention. In 2007, recommendations from Canada’s National Alcohol Strategy Working Group identified screening, brief intervention and referral to specialist treatment as an important strategy for reducing the negative health effects of excessive alcohol consumption, particularly injury and chronic disease. Here, we discuss a practical approach to the delivery of brief interventions based on evidence supporting their effectiveness (Box 1).

This approach is intended for use by health care providers who determine, during the provision of primary, specialty or hospital care, that an individual is engaging in unhealthy drinking.

What is the purpose of a brief intervention for alcohol misuse?

A common goal of brief interventions for alcohol misuse is to reduce drinking to recommended low-risk patterns and levels, not necessarily to urge abstinence. The intent is to reduce overall consumption and harmful practices like binge drinking, so as to lower the likelihood of such negative health and social consequences as chronic disease (liver disease, stroke, cancer, diabetes mellitus), damage to a fetus, motor vehicle crashes, injuries, domestic violence, family discord, and occupational or academic instability.

For healthy adults up to 65 years of age, Canadian guidelines for low-risk alcohol drinking advise consuming no more than 10 drinks a week for women (with no more than 2 drinks a day on most days) and no more than 15 drinks a week for men (with no more than 3 drinks a day on most days). In addition, the guidelines recommend not drinking when engaging in potentially dangerous activities, minimizing intoxication, abstaining from alcohol when pregnant or intending to become pregnant, and delaying the uptake of drinking by youth. These guidelines were developed from evidence supporting the levels and patterns of alcohol consumption that would reasonably minimize health risks, negative social consequences and prenatal harm.

A health care provider can undertake brief interventions during routine health care visits or during a hospital stay for a different condition. In addition, focused screening is useful in contexts where problematic alcohol use is common (e.g., emergency departments) or in groups for whom it is particularly harmful (e.g., obstetrics patients or people who have been arrested for driving while intoxicated). Typically, brief interventions are considered most suitable for those whose

Box 1: Evidence used in this review

We searched PubMed and MEDLINE databases using combinations of the terms “brief,” “intervention,” “alcohol” and “review” along with the “related articles” function. These searches yielded citations numbering in the hundreds; we focused our attention on the most recently published research, particularly state-of-the-art systematic reviews and a recent systematic review of reviews. We selected the examples of brief interventions featured here to illustrate differing salient aspects of their content and delivery (intensiveness and intensity, type of practitioner) with a focus on high-quality research (i.e., randomized controlled trials) and evidence related to the Canadian context.

Key points

- Canadian guidelines on low-risk drinking, published in 2011, highlight the national importance of tackling risky alcohol use.
- Health care providers who are not addiction specialists are well positioned to identify individuals who drink and can play an important role in lowering risky alcohol use.
- Screening and brief interventions may reduce the toll of risky or harmful drinking.
- Authoritative resources and protocols can allow nonspecialist health care providers to provide screening, brief interventions and/or referral to treatment for at-risk patients.
drinking does not meet the criteria for an alcohol use disorder, but they may also be a valuable initial component of a more comprehensive or stepped-care form of treatment.6

**What constitutes a brief intervention?**

**Screening**

A brief intervention is usually preceded by screening — that is, asking targeted questions about drinking behaviour. The College of Family Physicians of Canada and the Canadian Centre on Substance Abuse have developed a protocol for screening, brief intervention and referral based on three screening questions (Box 2).7

### Box 2: Description of the screening, brief intervention and referral protocol of the College of Family Physicians of Canada and the Canadian Centre on Substance Abuse

The protocol begins with three screening questions. If the response to the first question (“Do you drink beer, wine, coolers or other alcoholic beverages?”) is “no,” reasons are explored (e.g., religion, family history, medications or being in recovery). If, for example, the patient is in recovery and reports doing well, abstinence is supported and reinforced. If the patient is in recovery and reports not doing well, then follow-up involves support, assessment for concurrent mental illness, and referral to further addiction treatment or community support resources, as needed.

If the patient answers “yes” to the first question, two additional questions are asked: “On average, how many days per week do you drink alcohol?” and “On a typical drinking day, how many drinks do you consume?”

If the patient’s consumption is within the Canadian limits for low-risk drinking, the behaviour is reinforced, a copy of the low-risk drinking guidelines is provided, and screening is repeated annually. If the patient is part of a subgroup for which even lower levels of alcohol consumption are recommended (such as youth and young adults, pregnant or breastfeeding women, adults older than 65 years, people at risk for chronic conditions that are more likely to occur with or be exacerbated by alcohol consumption and those coping with prior alcohol dependence), then he or she is advised to reduce alcohol consumption and is referred to such resources as community support groups and addiction treatment services.

If the patient is drinking more than the low-risk limits, further assessment is used to determine if he or she meets the criteria for alcohol dependence or alcohol abuse set out in the American Psychiatric Association’s Diagnostic and Statistical Manual of Mental Disorders, fourth revision (DSM-IV),8 or is simply at elevated risk. (The new version of this classification, DSM-5,10 uses a single category, alcohol use disorder, with mild, moderate and severe subclassifications;11 it has not yet been incorporated into the Canadian protocol.)

Brief intervention and follow-up protocols for each of three levels of risk (elevated risk, alcohol abuse or alcohol dependence) are provided. Each intervention begins with a session of advice and assistance during which the health care provider gives feedback on risk stage, assesses the patient’s readiness to change and engages in nonjudgmental discussion. For those at elevated risk, cutting down to low levels of risk is encouraged; for those with alcohol abuse, cutting down or abstaining is suggested; and for those with alcohol dependence, abstinence with medication support is recommended. Depending on the patient’s readiness to change and the level of risk, reiterating concern, providing support, assisting in goal planning, referring to community resources (such as Alcoholics Anonymous or formal provincial treatment services), monitoring for withdrawal and/or prescribing medication are offered. If drinking goals have not been met by the time of next follow-up, these types of assistance are provided again.

Other commonly used screening tools include the Alcohol Use Disorders Identification Test Consumption Items (AUDIT-C)12 and the CAGE questionnaire.13

The three-item AUDIT-C can be used to assess a range of severity of drinking problems, from risky drinking to alcohol use disorders.14 It consists of the following three questions: How often have you had a drink containing alcohol in the last year? How many drinks containing alcohol did you have on a typical day when you were drinking in the last year? How often in the last year have you had six or more drinks on one occasion?

The four-item CAGE questionnaire asks about key areas that would indicate that drinking has become problematic: feeling the need to cut down, having been criticized for drinking, feeling guilty about drinking or feeling the need to drink first thing in the morning. The CAGE questionnaire is not recommended to be used alone (without additional questions to assess levels of recent consumption), because it does not identify people with elevated alcohol consumption who have not experienced problems related to their drinking and because it asks about lifetime experiences, so may generate a positive screening result for people who are no longer consuming alcohol or are drinking at low-risk levels.14 Computer-assisted screening and incorporation of screening into existing clinic information-gathering procedures can be effective in relieving provider burden.15,16

**Brief interventions**

When risky alcohol use is identified through screening, brief interventions, commonly involving individualized feedback and counselling, can then be initiated. The interventions available for use are diverse but typically involve giving brief advice and deliberately employing client-centred, nonconfrontational, motivational approaches to avoid creating resistance to change.17 The most commonly used elements in this kind of motivational interviewing have been summarized by the acronym FRAMES: Feedback of risk, encouraging Responsibility for change, Advice, a Menu of options, therapeutic Empathy and enhancing Self-efficacy.18 Providers help to set goals and suggest useful change strategies, which can often be bolstered by supplemental materials, such as pamphlets or workbooks.

The intensity of contact varies from very brief (less than 5 minutes, with no follow-up) through brief (less than 15 minutes, with no follow-up) to brief but repeated (individual sessions of less than 15 minutes, with multiple follow-up contacts).19 One example of a very brief intervention

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Follow-up involves additional assessment, reinforcement and, if necessary (i.e., if drinking becomes more hazardous), referral to more intensive treatment.

**How effective are brief interventions?**

Much investigation has been directed at establishing the effectiveness (real-world performance) of brief interventions for alcohol abuse in primary care. One recent comprehensive and rigorous systematic review of published systematic reviews provided an authoritative summary of this evidence. Overall, across 24 systematic reviews (summarizing a total of 56 individual trials), brief alcohol interventions delivered in primary health care settings were effective in reducing harmful and hazardous drinking, despite a lack of positive findings in some individual trials. The authors noted that such null effects might be due to a Hawthorne effect, whereby simply joining a trial or having one’s drinking recorded influenced the level of drinking. The most commonly assessed drinking outcome was weekly alcohol consumption, with one representative review suggesting that brief interventions reduced this variable by 38 g per week (95% confidence interval [CI] 23 to 54 g) for 22 trials of interventions in primary care after one year of follow-up.

This review of reviews also reported only limited or mixed evidence in terms of the usefulness of brief interventions for women, particularly pregnant women, despite the notion that the antenatal period could represent a time when there is a potent incentive to quit drinking. In addition, for those with more severe drinking problems, systematic reviews have found little support for the effectiveness of brief interventions alone. Among 11 trials of brief interventions in people who were not seeking treatment, the effect on alcohol consumption at three- to six-month follow-up was significantly greater when those with more severe alcohol problems were excluded (aggregate effect size 0.21, 95% CI 0.14 to 0.27) than when they were not excluded (0.05, 95% CI –0.07 to 0.16). Similarly, among 16 randomized controlled trials of alcohol screening and brief intervention in primary care, the 2 trials that did not exclude people with very heavy alcohol use or dependence found no significant effects.

**What resources exist to help in administering brief interventions?**

Some nonspecialist providers may find it challenging to address drinking above low-risk levels with their patients (Box 3). The specific challenges include a lack of familiarity with how to identify risky drinking, awkwardness in initiating a conversation about alcohol if it is unrelated to the condition for which treatment is being sought, and perceptions of a lack of expertise and time to intervene. Other challenges to implementation include a lack of financial incentives; practitioners’ feelings about their own confidence in administering brief interventions; practitioners’ concerns about finding the time to do so; and practitioners’ concerns about how to assess and refer patients to treatment. Practitioners also need guidance about which patients are most appropriate to address drinking issues. In addition, brief interventions may not be effective in all circumstances, such as when there is a history of alcohol treatment with no improvement, treatment of alcohol-related medical complications, or treatment of coexisting conditions. However, brief interventions can be effective when combined with other treatments, such as medication, or when used in a stepped-care approach, in which patients are offered a variety of options for brief and intensive interventions.

**Box 3: Applying the results of this review in clinical practice**

Brief interventions are best applied for persons who do not meet the criteria for an alcohol use disorder, especially one of high severity. However, if such a person declines referral to specialized treatment, a brief intervention, using motivational interviewing techniques, can be employed to generate more openness to specialized treatment or as a first step in a planned, stepped-care approach.

When employing a motivational brief intervention with a person who already is committed to change, it is better not to focus on the “pros” of drinking or substance use in a decisional balance component. Although focusing on the positive aspects of drinking or substance use has not yet been studied in relation to undermining an individual’s commitment to change, some evidence of this effect has been found with patients who use cocaine. For persons who are ambivalent about changing their drinking or substance use behaviour, exploring the decisional balance can be effective.

Simple referral to treatment or a mutual help group is often, by itself, ineffective. More effective are interventions that have been developed and can be applied to increase engagement. Furthermore, for patients with accompanying psychiatric or social conditions and more severe dependence, more intense monitoring and management of recovery following treatment may be necessary.
drinking practices; and the complex social, cultural and moral context concerning what constitutes problematic drinking.\(^3\)\(^3\) Time constraints may be ameliorated by the emergence of digitally mediated screening and delivery of brief interventions through the Internet or mobile devices,\(^3\)\(^4\) but these are still new and do not yet have a large body of evidence supporting their effectiveness.

A broad range of health care providers without specific addiction expertise are well positioned to identify individuals who drink at levels that are harmful before such patients have even considered changing their alcohol consumption or seeking treatment. Patients are likely to be receptive to a professional with whom they may already have a clinical relationship and whom they trust. In addition, patients may appreciate receiving an intervention in a primary care or hospital setting, which can be less embarrassing, stigmatizing or inconvenient than consulting an addiction specialist or entering a formal alcohol treatment program.

As summarized above (see Box 2), the College of Family Physicians of Canada and the Canadian Centre for Substance Abuse have developed a Web-based resource for Canadian family physicians, nurse practitioners and other health care professionals.\(^7\) This resource uses Canadian low-risk alcohol guidelines and provides support for screening, brief intervention, referral to specialist treatment and subsequent follow-up. Included is a clinical guide adapted from the US National Institute on Alcohol Abuse and Alcoholism and the British Columbia Ministry of Health, as well as a video training module demonstrating the principles of motivational and nonjudgmental approaches to developing rapport with patients and encouraging them to talk about and make a commitment to change their risky alcohol consumption. The site also includes links to national and international resources, as well as materials for patients, such as guides to low-risk drinking and a workbook to facilitate drinking less. Additional resources are listed in the box “Physician resources.”

**Unanswered questions**

Although screening and brief interventions for risky or harmful drinking have considerable empiric support, their effectiveness and cost-effectiveness for misuse of other drugs remains to be determined. Hampering such efforts is the lack of a practical, brief screening instrument for identifying problematic drug use. Determining the types of clients for whom various intensities and numbers of sessions of brief interventions are appropriate is another question needing more empiric evidence.

**References**


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Physician resources

- Alcohol Screening, Brief Intervention & Referral (SBIR), a three-step clinical Web resource for managing patients’ alcohol consumption (College of Family Physicians of Canada and Canadian Centre on Substance Abuse): www.sbir-diba.ca