From Prevention in Focus, Fall 2014

Safer Crack Cocaine Smoking Equipment Distribution: Comprehensive Best Practice Guidelines

By Carol Strike, Hemant Gohil and Tara Marie Watson

People who smoke crack cocaine are at risk of acquiring HIV, hepatitis C and hepatitis B from the physical injuries caused by smoking crack, and also through condomless sex.1,2,3,4 While needle and syringe programs (NSPs) are well established as HIV and hepatitis C prevention programs across Canada, programs that distribute safer crack cocaine smoking equipment are fewer in number; some parts of the country lack these programs altogether.

In this article, we address the new evidence-based recommendations for distribution of safer crack cocaine smoking equipment.

What is crack cocaine?

Crack cocaine is a stimulant that has been converted from powder cocaine into a rock crystal. When the rock crystal is heated to a high temperature, it melts and quickly vapourizes, and can be inhaled (“smoked”). It produces a short but intense high. Crack is also ranked highly in terms of the harms (physical, dependence and social) associated with its use.5

How many people who smoke crack cocaine have HIV, hepatitis C or hepatitis B in Canada?

Studies across Canada show elevated rates (compared to the general population) of HIV among people who smoke crack cocaine. Prevalence rates of HIV reported among people who smoke crack cocaine in Canadian settings range from 19% in Vancouver to 6% in Toronto to 11% in Ottawa.6,7,8 These rates are all substantially higher than among the general Canadian population (0.2%).9 However, numbers from Toronto included some people who used to inject drugs, although no one had injected in the previous 6 months.

While HIV transmission risk remains higher through sharing injection equipment compared to smoking crack cocaine, research has not determined the cause of infection for people who have histories of both injecting drugs and smoking crack cocaine. Possible causes of infection are the sharing of injecting or smoking equipment and unsafe sexual practices. There is a need for more research to better understand the specific HIV transmission risk of smoking crack cocaine.

In terms of hepatitis C, a study was able to isolate hepatitis C genetic material (RNA) on a used crack pipe;2 other studies have found that hepatitis C can survive on a variety of surfaces from seven to 28 days.10,11 Therefore, we know there is potential for crack pipes to spread hepatitis C.


Studies across Canada show elevated rates of hepatitis C among people who smoke crack cocaine. Prevalence rates of hepatitis C among people who smoke crack cocaine in Canadian settings range from 37% in Ottawa to 43% in
Vancouver to 29% in Toronto. These rates are all substantially higher than among the general Canadian population (0.7%).

Although the evidence is limited, there is also potential for the transmission of hepatitis B, other sexually transmitted infections, tuberculosis, and pneumonia among people who smoke crack cocaine.

What is the link between pipes and HIV and hepatitis C transmission?

Pipes for smoking crack cocaine can be crudely constructed from items such as glass bottles, soft drink cans, plastic bottles, car aerials or metal pipes. When makeshift pipes are used to smoke crack cocaine, the hot, jagged surface can cause injuries to the hands and mouth, including oral inflammation, cuts, burns and sores. Blood from these injuries may end up on the pipe. HIV or hepatitis C virus contained in the blood can then be passed along to the next person using the pipe. It is hypothesized that through this mechanism, people who smoke crack cocaine are at an elevated risk of acquiring HIV and hepatitis C.

Sharing of pipes

Evaluations of safer smoking supply distribution programs across Canada have documented sharing of crack cocaine smoking equipment. Pipe sharing has also been reported in other Canadian studies of people who smoke crack cocaine.

Many factors can influence pipe sharing, including smoking in small groups and intimate partner relationships. In addition, allowing others to use a pipe means that the owner can collect the “resin” or residue that collects on the inside of a pipe and smoke it. People who smoke crack cocaine who have difficulty accessing pipes are also more likely to share. Crack cocaine is sold as small “rocks,” making it difficult to divide into smaller pieces; this may contribute to sharing of smoking equipment among people who pool their money to purchase drugs.

Several Canadian studies report high frequency of smoking episodes (for example, one to 70 episodes per day). Impaired memory, lack of restraint and poor risk assessment due to heavy use may also lead to the sharing of drug use equipment and risky sexual practices.

Can we reduce the harms of crack smoking?

While NSPs are well-established programs for HIV and hepatitis C prevention across Canada, programs that distribute safer crack cocaine smoking equipment are fewer in number and some parts of the country lack these programs altogether. Many safer crack cocaine smoking equipment distribution programs struggle to sustain funding and some have been subject to intense community opposition.

Moving forward

New evidence-based recommendations for safer crack cocaine smoking equipment distribution have been developed by a multi-stakeholder team, the Working Group on Best Practice for Harm Reduction Programs in Canada, as part of Best Practice Recommendations for Canadian Harm Reduction Programs that Provide Service to People who Use Drugs and are at Risk of HIV, HCV and Other Harms: Part 1. In a previous Prevention in Focus article, we discussed the Best Practice Recommendations project and the evidence that supports the recommendations for needle distribution.

Recommendations for safer smoking equipment to smoke crack cocaine

The Working Group recommends that programs distribute safer crack cocaine smoking equipment including:

1. a borosilicate glass (Pyrex) stem that acts as the pipe due to its high heat resistance and lack of toxic coatings;
2. a mouthpiece, placed at one end of a pipe to help protect the lips from heat and chipped or cracked edges;
3. push sticks, which help position screens in the pipe; and
4. screens composed of steel or brass to help prevent heated or melting drug(s) from being inhaled.

Each piece of equipment plays a role in safer crack cocaine smoking and the Working Group recommends that programs distribute all items in pre-packaged kits and as individual pieces of equipment.

Across Canada, some harm reduction programs distribute other supplies for safer smoking purposes (for example, alcohol swabs, moist towelettes, lighters/matches, lip balm, chewing gum and bandages). Since there have been no evaluation studies supporting their inclusion, the Working Group offers no recommendations for their distribution.
Recommendations for replacing safer smoking equipment

Unlike needles that should be disposed of after each use, crack cocaine smoking equipment can be reused until it is unsafe. The Working Group recommends that safer smoking equipment be considered unsafe and in need of replacement when:

- the pipe and/or the mouthpiece have been used by anyone else
- the pipe is scratched, chipped or cracked
- the mouthpiece is burnt
- the screen shrinks and is loose in the stem

Many of the potential harms associated with crack cocaine smoking are also due to risky sexual behaviours. Therefore, the Working Group also recommends that programs provide other harm reduction supplies, such as condoms and lubricant, in the quantities requested by clients with no limit on the number provided.

Recommendations for distribution of safer crack cocaine smoking equipment

In light of the potential harms of crack cocaine smoking, the Working Group recommends that NSPs integrate distribution of safer smoking equipment into their existing services and that all harm reduction programs provide safer smoking equipment in the quantities requested by clients without requiring return of used equipment. Providing safer smoking equipment in quantities that meet client needs may help reduce sharing of pipes and other pieces of equipment. The Working Group also recommends that programs educate clients about the safer use of equipment, safer smoking practices, the risks of sharing smoking supplies, and safer sex.

Lastly, the Working Group recommends that programs provide safe disposal options, including personal sharps containers, and encourage clients to return and/or properly dispose of used or broken pipes, educate clients about the proper disposal of used smoking equipment, and provide multiple, convenient locations for proper disposal of used equipment.

What comes next?

We have highlighted one set of the Working Group’s recommendations here, but we also point you towards the recommendations regarding safer drug use education and other aspects of harm reduction programming: needle and syringe distribution, other injection equipment distribution, disposal and handling of used drug use equipment, and naloxone distribution for opioid overdose prevention. In the latter part of 2014, the Working Group plans to launch Part 2 of the Best Practice Recommendations which focusses on program models, preventative health care, referrals and counselling, and relationships with law enforcement and other organizations.

Acknowledgements


Resources

Best Practice Recommendations for Canadian Harm Reduction Programs that Provide Service to People Who Use Drugs and are at Risk for HIV, HCV, and Other Harms

HepCInfo on Newsprint - Issue 3

The Hep C Handbook: The goods on Hep C, safer drug use, tattooing and piercing – Youth CO

Harm Reduction from A-Z Cards: Information for Young Gay and Bisexual Men – AIDS Committee of Toronto (ACT)

Safer Smoking Demo

HIV in Canada: A primer for service providers

References


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Production of this content has been made possible through a financial contribution from the Public Health Agency of Canada.

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