Infection of illicit drugs is a major health problem worldwide. There are currently an estimated 100,000 injection drug users in Canada (1). Infectious complications of injection drug use (IDU) include, but are not limited to, injection-related skin and soft tissue infection and abscesses, bloodstream infection and endocarditis, and infection by transmission of blood borne pathogens, such as HIV, hepatitis viruses and syphilis (2-4). In addition, IDU is associated with a general increased risk for infection such as with pneumonia and for acquisition of antimicrobial resistant organisms, most notably methicillin-resistant Staphylococcus aureus (5). Indirectly, IDU is associated with other behaviours and social circumstances that lead to further infectious disease risk and general adverse health consequences (6,7).

Illicit drug use policy in Canada for the past century has been centered around criminalization and punishment of users and traffickers (8). However, there is increasing recognition of the outright failure of this approach. Illicit drug use remains common, and the market for illegal drug profits drives most of the organized crime activity in this country (9). Fueled in part by the apparent futility of criminalization and punishment approaches so far, there has been increasing recognition of the value of ‘harm reduction’ strategies. Harm reduction generally refers to programs, policies or interventions that aim to reduce or minimize the adverse consequences associated with drug use (10). Initial approaches surrounding harm reduction in the 1980s involving public injection, increase the odds of users access to supplies of sterile needles and safe disposal or exchange led to reductions in infectious complications (11).

In the 1990s, rates of HIV infection and deaths due to illegal drug use rose significantly in British Columbia, particularly in the downtown east side of Vancouver related to heroine abuse (12). Harm reduction was recognized as a necessary and major component of an intervention strategy and received growing community and governmental support. Insite (www.communityinsite.ca), a supervised injection facility, was subsequently opened as a pilot project following an exemption from the Controlled Drugs and Substances Act granted by the Government of Canada. Insite is located in the downtown east side of Vancouver (13). It provides IDUs with a supervised safe setting where sterile needles and syringes are supplied for the users to inject their own drugs. Health care personnel, including registered nurses, monitor patients and are available for management of adverse events. Hundreds of thousands of injections occur annually at this location.

So what has been the impact of Insite? Use of the facility has been demonstrated to reduce needle sharing among its users (14). One analysis estimated that two to 12 deaths due to overdose have been averted annually by the facility (15). In another mathematical modeling study, it was estimated that Insite prevents an average of 35 cases of HIV infection and three deaths per year (16). In addition, these investigators found that after program costs were taken into account, Insite provided an estimated net societal benefit of $6,000,000 per year. Although other investigators have modelled infection rates and associated costs with varying results, the common conclusion is that infections and societal costs are reduced (17,18). It is noteworthy that Insite may also improve public order through less litter and disturbance resulting from public injection, increase the odds of users accessing addictions treatment and lead to earlier referral for treatment of infectious complications (19,20).

Despite the fact that Insite has saved lives, prevented infections, promoted and facilitated addictions treatment, and saved public dollars, it has remained a source of controversy. Insite’s ability to remain open has been uncertain and is continually at risk with governmental challenges of the legality to continue operation (21). Opposition largely relates to objections to the ‘permissive’ use of controlled substances. In addition, a number of potential moral, ethical and political issues have been raised, including the use of tax payer funds to support this ultimately illegal activity, and unfounded concerns that such a facility may be condoning or legitimizing IDU. However, it is recognized that additional lives would be saved and infections prevented by the addition of supervised injecting facilities in many other Canadian cities (22).

So what are our roles as members of the infectious disease and medical microbiology community in Canada? First, we believe that we must put aside any personal ethical and moral opposition that we may have against supervised injection facilities and focus on the fact that they can prevent infections, save lives and lessen the adverse societal impact of illicit drug use. Second, we should explicitly state our support to the public and political leaders not only for these centres, but for other novel initiatives that aim to reduce the adverse effects of illicit drug use and its associated infectious consequences. Finally, we must express our admiration, praise and gratitude to the individuals, communities and organizations in Canada that have championed the development of Insite and support further harm reduction initiatives for IDUs.

REFERENCES