

Homelessness and health

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Abstract

HOMELESSNESS AFFECTS TENS OF THOUSANDS OF CANADIANS and has important health implications. Homeless people are at increased risk of dying prematurely and suffer from a wide range of health problems, including seizures, chronic obstructive pulmonary disease, musculoskeletal disorders, tuberculosis, and skin and foot problems. Homeless people also face significant barriers that impair their access to health care. More research is needed to identify better ways to deliver care to this population.

Homelessness, which is a focus of increasing concern in Canadian cities, has important health implications. Homeless people have high levels of morbidity and mortality and may experience significant barriers to accessing health care. This article addresses 3 key issues: first, who are the homeless? Second, what health problems are common among homeless people? Third, how does the health care system respond to the needs of the homeless?

Who are the homeless?

According to the United Nations, “absolute homelessness” describes the condition of people without physical shelter who sleep outdoors, in vehicles, abandoned buildings or other places not intended for human habitation. “Relative homelessness” describes the condition of those who have a physical shelter, but one that does not meet basic standards of health and safety; these include protection from the elements, access to safe water and sanitation, security of tenure, personal safety and affordability.¹ In this review, “homeless people” refers to people who are sleeping in shelters for the homeless and those who are “absolutely homeless.”² This is the definition that is most frequently used in health-related research. Although homelessness is commonplace in many developing countries, this review focuses on homelessness in Canada.¹

The capacity of shelters for the homeless is a useful starting point for estimating the size of the homeless population (Table 1). These data suggest that each night about 8000 homeless people, that is, about 5 per 10 000 population, are sleeping in shelters in the 9 largest metropolitan areas of Canada. The number of individuals who use these shelters at least once over the course of a year is about 5 times this figure.⁴ In Toronto, for example, 28 800 people used such shelters in 1998.⁵

Shelter counts underestimate the number of homeless people because they do not include individuals who are sleeping on the street. Although these individuals are particularly difficult to count, they represent a sizable population in some cities. In Vancouver as many as 600 homeless people, or 3 per 10 000 population, sleep outside every night, thus exceeding the number of people staying in shelters.⁶

These figures indicate that the total number of homeless people in Canada on any given night is probably of the order of tens of thousands. In many cities, the number of people who are homeless has clearly increased in recent years. Toronto, which has the country's largest homeless population, has seen mean nightly shelter occupancy rise from 1902 individuals in 1990 to 3790 in 1998.^{5,7} Between 1992 and 1998, Calgary's homeless population more than doubled from 447 to 988.⁸ In Ottawa, the total number of overnight stays at men's shelters increased by about 8% between 1996 and 1998.⁹

The demographic characteristics of the homeless population vary significantly from city to city. Contrary to common stereotypes, homelessness affects a wide

Review

Synthèse

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range of people, including families with children. Families occupy 42% of shelter beds in Toronto⁵ and about 35% of shelter beds in Ottawa.⁹ The average shelter stay for these families lasts 1.5–2 months.^{7,9} In contrast, other Canadian cities do not have significant numbers of homeless families. The phenomenon of homeless families in Toronto and Ottawa may reflect the convergence of multiple factors, including poverty, high housing costs and a shortage of subsidized public housing units.^{5,9,10}

Single men constitute the largest segment of homeless people in most Canadian cities: about 70% of the homeless population in Vancouver,¹¹ Edmonton¹² and Calgary,⁸ and about 50% in Ottawa.⁹ In Toronto, single men occupy 35% of shelter beds.⁷ Although most single men stay in the shelter system for only a few nights, single men also account for 75% of chronically homeless individuals (those who stay in shelters for 1 year or more).⁷ Homeless men tend to be relatively young, with the majority between 25 and 44 years old.^{8,9,13}

Single women account for about one-quarter of homeless people in Vancouver,¹¹ Edmonton¹² and Toronto,¹⁴ but as few as 10% of homeless people in cities such as Calgary⁸ and Ottawa.⁹ Studies in the United States suggest that a number of characteristics distinguish homeless single women from homeless women accompanied by children. Single women are more likely to be chronically homeless, older and to have a history of substance abuse or mental illness.¹⁵

The terms “homeless youth” and “street youth” are used interchangeably to refer to teenagers and young people below the age of 20–25 years. These young people first leave home at a mean age of 15 years, and many of them come from families where they experienced physical or sexual abuse.^{16,17} Toronto, Montreal and Vancouver have the largest numbers of street youth in Canada.^{17,18} Because most of these young people do not sleep in homeless shelters,

shelter-based counts (Table 1) greatly underestimate the size of these populations. In Toronto, for example, about 75% of homeless youth do not use shelters.¹⁹

Aboriginal people are overrepresented in Canada's homeless population by a factor of about 10. Individuals of Aboriginal origin account for 35% of the homeless population in Edmonton,¹² 18% in Calgary,⁸ 11% in Vancouver¹¹ and 5% in Toronto,¹⁴ but only 3.8%, 1.9%, 1.7% and 0.4% of the general population of these cities respectively.²⁰ A disproportionate number of homeless people who sleep on the street rather than in shelters are of Aboriginal origin.^{5,12}

Health problems among homeless people

Homeless people have a greatly increased risk of death. Compared with the general youth population of Quebec, mortality rates among street youth in Montreal are 9 times higher for males and 31 times higher for females.²¹ Among men using shelters for the homeless in Toronto, mortality rates are 8.3 times higher than the mean for 18–24 year olds, 3.7 times higher than the mean for 25–44 year olds and 2.3 times higher than the mean for 45–64 year olds.¹³ However, death rates among homeless men in Toronto are about one-half that of homeless men in US cities.¹³ Mortality rates are lower in Canada because of a number of factors, including lower rates of homicide, HIV infection and, possibly, Canada's system of universal health insurance.

Homeless people suffer from a wide range of medical problems.^{11,22,23} Disease severity can be remarkably high because of factors such as extreme poverty, delays in seeking care, nonadherence to therapy, cognitive impairment and the adverse health effects of homelessness itself.²² Homeless people in their forties and fifties often develop health disabilities that are more commonly seen only in people who are decades older.²⁴ Individuals living on the street tend to have a worse health status than shelter residents.²⁵

Medical problems that are particularly prevalent among homeless adults include seizures, chronic obstructive pulmonary disease, arthritis and other musculoskeletal disorders.²³ Conditions such as hypertension, diabetes and anemia are often inadequately controlled and may go undetected for long periods.^{25,26} Respiratory tract infections are common. Oral and dental health is often poor.^{27,28}

Skin and foot problems are frequently seen among the homeless. People living on the street are particularly prone to develop skin diseases such as cellulitis, impetigo, venous stasis disease, scabies and body lice.²⁹ Foot disorders such as onychomycosis, tinea pedis, corns and callouses, and immersion foot are usually the result of inadequate footwear, prolonged exposure to moisture, long periods of walking and standing, and repetitive minor trauma.^{30,31} Proper foot care requires early detection of problems, education regarding foot hygiene and the provision of adequate shoes and socks.³⁰

Table 1: Homeless shelter capacity* in metropolitan areas of Canada with a population greater than 500 000†

Metropolitan area	Population, thousand†	No. of beds			Total
		Adult shelters	Youth shelters	Family shelters	
Toronto	4586	2074	441	1650	4165
Montreal	3424	1118	44	25	1187
Vancouver	1999	339	25	51	415
Ottawa/Hull	1056	325	30	201	556
Edmonton	914	395	29	0	424
Calgary	903	798	80	0	878
Quebec City	687	125	8	15	148
Winnipeg	678	144	24	61	229
Hamilton	658	109	30	65	204
Total	14 905	5427	711	2068	8206

*Homeless shelter capacity excludes overflow, beds at detoxification centres and beds at shelters exclusively for battered women.

†Population of census metropolitan areas in 1998, as determined by Statistics Canada.³

Homeless people are at increased risk of contracting tuberculosis (TB), and this diagnosis should be considered in any homeless individual with a fever and a persistent productive cough.³² Conditions favouring TB outbreaks in shelters include crowding, large transient populations and inadequate ventilation.³³ More than half of all TB cases among homeless people represent clusters of primary tuberculosis rather than reactivation of old disease.^{34,35} Published data on TB in Canada's homeless population are limited. The incidence of active TB among homeless people in Toronto is 71 per 100 000 (about 10 times the average Ontario rate).³⁵

Treatment of active TB in homeless people can be complicated by nonadherence to therapy, prolonged infectivity and the development of drug resistance.³⁶ Directly observed therapy results in higher cure rates and fewer relapses.^{37,38} Homeless people with positive tuberculin skin tests without active TB may be considered for directly observed prophylaxis.³⁹

Common risk factors for HIV infection in homeless youth in Canada include prostitution, multiple sexual partners, inconsistent use of condoms and injection drug use.^{17,18,40} Infection rates were 2.2% and 11.3% among homeless youth seeking HIV testing at 2 clinics in Vancouver in 1988.⁴¹ The higher rate was seen at a clinic that served street youth involved in prostitution. In contrast, the prevalence of HIV infection was only 0.6% in a convenience sample of homeless youth surveyed in Toronto in 1990.⁴²

The pattern of HIV risk factors in homeless adults is distinct from that of youth. In a 1997 study of a representative sample of adults using shelters for the homeless in Toronto, 25% had a history of using injection drugs and 41% had a history of using crack cocaine.¹⁴ These drug use behaviours, rather than sexual behaviours, were associated with an increased likelihood of HIV infection. The overall HIV infection rate in this study was 1.8%.¹⁴

Sexual and reproductive health is a major issue for street youth. In Montreal, 25% of homeless youth have engaged in prostitution.¹⁸ Sexually transmitted diseases are widespread, even among street youth who do not work as prostitutes; gonorrhoea and *Chlamydia* are the most prevalent infections.¹⁷ Anecdotal reports suggest that pregnancy is common among street youth in Canada; in a recent study in the United States, 10% of homeless females aged 14–17 years were found to be pregnant.⁴³

Violence is a constant threat to the health of homeless people. A survey in Toronto found that 40% of homeless individuals had been assaulted and 21% of homeless women had been raped in the previous year.²³ Homeless men are about 9 times more likely to be murdered than their counterparts in the general population.¹³

Unintentional injuries are a leading cause of morbidity and mortality, especially among homeless men.¹³ Injuries are often the result of falls or being struck by a motor vehicle.¹³ Deaths due to an unintentional overdose of drugs or

alcohol, or both, are also common.¹³ Exposure to the elements is a major hazard. In cold weather, the risk of frostbite and hypothermia is substantial,²³ and deaths due to freezing are not uncommon.⁴⁴ In hot weather, severe sunburn and heatstroke can occur.

The prevalence of mental illness and substance abuse among homeless people is difficult to determine precisely, but consistent patterns have emerged from methodologically rigorous studies conducted in the United States and Canada.^{14,45} Contrary to popular misconceptions, only a small proportion of the homeless population has schizophrenia. The lifetime prevalence of schizophrenia is only 6% among Toronto's homeless population,¹⁴ and US studies have found prevalence rates of 10%–13%.⁴⁵ Affective disorders are much more common, with lifetime prevalence rates in the range of 20%–40%.^{14,45}

Alcohol use disorders are widespread, with lifetime prevalence rates of about 60% among homeless men.⁴⁵ Problems with alcohol are 6–7 times more prevalent among homeless people than in the general population.⁴⁵ Fewer data are available on the abuse of substances other than alcohol; in US studies, the median prevalence of drug use disorders is 30%.⁴⁶ Cocaine (especially crack) and marijuana are the illicit drugs that are most often used by homeless people in Canada.^{11,14,47} Dual diagnosis with both mental illness and substance abuse is not uncommon in this population.^{14,45,46}

Patterns of substance abuse and mental illness vary across demographic subgroups. Homeless single women are more likely to have mental illness alone, without any substance use disorder.⁴⁵ The prevalence of substance use disorders in men is about twice that in single women.⁴⁵ Compared with all other subgroups of homeless people, female heads of homeless families have far lower rates of both substance abuse and mental illness.¹⁰

Homelessness and the health care system

Homeless adults have high levels of health care use⁴⁸ and often obtain their care in emergency departments.^{23,49} Homeless people are admitted to hospital up to 5 times more often than the general population⁵⁰ and stay in hospital longer than other low-income patients.⁵¹ These prolonged stays in hospital result in significant excess health care costs.⁵¹ Unfortunately, homeless patients are sometimes discharged to shelters, even when their ability to cope in such a setting is marginal at best. One solution to this problem is the development of respite facilities to provide homeless people with a protected environment for recuperation after a stay in hospital.⁵²

Homeless people face many barriers that impair their access to health care.⁵³ Lack of health insurance is a problem for most homeless people in the United States.⁵³ Although Canada has a system of universal health insurance, many homeless people do not possess proof of coverage because their identification has been lost or stolen.⁵⁴ In

Toronto, 7% of homeless individuals report having been refused health care at least once because they lacked a health insurance card.²³ In addition, many homeless people do not fill prescriptions they have received because they do not have insurance benefits and cannot afford the cost of the medication.⁵⁵

Homeless people face other barriers to health care that are unrelated to insurance status. Homelessness entails a daily struggle for the essentials of life. These competing priorities may impede homeless adults from using health care services, particularly those perceived as discretionary.⁵⁶ In addition, many health recommendations regarding rest or dietary changes may be unattainable. In Toronto, 72% of homeless people with diabetes report difficulties managing their condition that are usually related to their diet and the logistic challenges of coordinating meals with medications.²⁶

The health care system often fails to provide adequate treatment for homeless people with mental illness or substance abuse.^{22,57,58} The assertive community treatment (ACT) model is an effort to address this problem. An ACT team of psychiatrists, nurses and social workers follows a small caseload of homeless mentally ill clients, seeking them out in the community to provide high-intensity mental health treatment and case management.⁵⁹ Compared with usual care, patients receiving ACT have fewer psychiatric inpatient days, more days in community housing and greater improvements in their symptoms.^{59,60}

Conclusion

Homelessness affects a significant number of Canadians of all ages and is associated with a high burden of illness, yet the health care system may not adequately meet the needs of homeless people. More research is needed to identify better ways to deliver care to this population. Health interventions alone, however, are unlikely to overcome the adverse effects of homelessness and related social ills. The search for long-term solutions to the problem of homelessness itself must remain a key priority.

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