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Prevalence and healthcare burden of illegal drug use among emergency department patients

S Binks, R Hoskins, D Salmon, J Benger

Illegal drug use is common. The British Crime Survey 2000, a representative household survey of 13 300 people, found that 34% of people aged 16–59 years had used illegal drugs at some time, and 6% in the previous month.¹

Health problems related to illegal drugs use are well recognised, but are difficult to quantify, as social circumstances make drug users difficult to identify and engage in research. In emergency care, studies of the prevalence of illegal drug use have relied on data collected by treating healthcare professionals, or retrospective review of the clinical notes.²–⁴ These methods may lead to bias and under-reporting.

Our study used an independent researcher to prospectively measure the proportion of illegal drug users among all patients attending an inner city emergency department (ED), and quantified the emergency healthcare burden represented by this patient group.

METHODS

The study was approved by Weston local research ethics committee. An independent researcher approached all adult patients attending our inner city ED, and with their consent, completed a confidential semi-structured survey. Patients were excluded if they had a life threatening illness, chronic mental impairment, were unable to understand/give verbal consent, or did not speak English. A technique of representative sampling was used, so that patients were recruited throughout all 168 hours of a typical week. Patients were anonymised, and responses were not shared with clinical staff. The researcher subsequently interviewed the treating doctor regarding the patient’s diagnosis, need for admission, and whether they considered the attendance to be directly, indirectly, or not related to illegal drug use. Data were analysed using descriptive statistics and frequencies.

RESULTS

The results are summarised in fig 1. The mean age was 40.4 years (range 16–98). Of the patients interviewed, 290 (36.2%) had used illegal drugs in their lifetime (lifetime drug users), 129 (16.1%) in the previous month, and 79 (9.9%) within the previous 24 hours. In their lifetime, 46 patients (5.7%) had injected drugs.

Of the 55 patients whose attendance was thought to be directly or indirectly related to drug use, 23 required admission to hospital. This represents 2.9% of all those responding. The commonest diagnoses directly related to illegal drug use were deliberate self harm/psychiatric (11/24 patients) and acute medical conditions such as cellulitis, chest pain, and deep venous thrombosis (12/24 patients).

Figure 1  Flow diagram summarising the prevalence of illegal drug use, and related ED attendances. *204 patients were not approached during busy periods due to the practical limitations of a single researcher. Some of these patients left soon after arrival and did not wait to be seen by clinical staff. **All percentages are quoted in relation to the 801 patients who responded to the survey.
The commonest diagnosis indirectly related to illegal drug use was assault/head injury (15/31 patients).

**DISCUSSION**

This study shows that 3.0% of all patient attendances to our inner-city emergency department are directly related, and 3.9% indirectly related, to illegal drug use. Hospital admission is required for nearly half of these patients. The majority of drug related problems are acute injuries (often assault), overdose, and the medical complications of drug use.

Our finding that 36.2% of patients are lifetime drug users is similar to the British Crime Survey estimate of 34%. However, drug use within the past month was much higher in our study (16.1% v 6%), suggesting that recent or current drug use creates an increased demand for emergency care.

To our knowledge, this study is the first to interview all ED patients, rather than a selected population, and the prospective collection of anonymised data by an independent researcher reduced the rate of non-disclosure and patient refusal. By excluding critically ill patients, it is possible that we have underestimated the prevalence of life threatening, drug related problems.

We believe that our results are representative of UK inner city EDs, but it is difficult to extrapolate to a wider patient population. Nevertheless, with annual ED attendances currently exceeding 14 million in England alone, it is possible that illegal drugs contribute directly or indirectly to 1 million ED attendances and 400,000 acute hospital admissions in England each year.

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