ABSTRACT This study assessed the pattern of drug abuse and the reasons for relapse of addiction among male drug addicts seeking rehabilitative services in different centres in Lahore, Pakistan. A cross-sectional survey was conducted on male drug abusers from April to December 2016. Nonprobability purposive sampling was done to collect a sample of 119 participants. A structured questionnaire and in-depth interviews were used for data collection. Out of 119 participants, 71.4% were in the age group 15–35 years. Educational levels were low in the majority, with 68.1% below secondary education. Unmarried (51.3%) and unemployed (44.5%) participants were at the greatest risk of using drugs. The age of addiction in 45% of patients was 5 years. Reasons for starting drug abuse were recreation (37%), curiosity (34.5%), and life-changing events (14.3%). Reasons for relapse included association with former addicts, negative reactions from family, inability to manage the craving and work/social stress.
Schéma de dépendance et de rechute parmi les toxicomanes habituels à Lahore, Pakistan

RÉSUMÉ La présente étude avait pour objectif d'évaluer les schémas d'abus de substances psychoactives et les causes de rechute parmi les hommes toxicomanes recherchant des services de réadaptation dans différents centres de Lahore, au Pakistan. Une enquête transversale a été conduite sur les utilisateurs de substances psychoactives de sexe masculin entre avril et décembre 2016. Un échantillonnage non probabiliste par choix raisonné a été réalisé afin d'établir un échantillon de 119 participants. Un questionnaire structuré et des entretiens approfondis ont été utilisés pour la collecte de données. Sur les 119 participants, 71,4 % appartenaient au groupe d'âge des 15-35 ans. Les niveaux d'éducation étaient faibles dans la plupart des cas, 68,1 % n'ayant pas atteint l'enseignement secondaire. Les hommes célibataires (51,3 %) et chômeurs (44,5 %) étaient exposés à un risque accru de toxicomanie. L'âge de la mise en place de la dépendance était inférieur à 18 ans chez 45 % des patients, 40 % d'entre eux consommaient des substances psychoactives depuis plus de 5 ans. L'aspect récréatif (37 %), la curiosité (34,5 %) et les changements de vie (14,3 %) comptaient parmi les raisons pour lesquelles les patients commençaient à utiliser des substances psychoactives. Les causes de rechute incluaient le regroupement avec d’anciens toxicomanes, les réactions négatives de la famille, l'incapacité à gérer le manque, et le stress professionnel et social.

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Received: 07/12/16; accepted: 11/04/17

Introduction

Addiction is defined as a maladaptive pattern of substance use leading to clinically significant impairment or distress, occurring any time in the same 12-month period. It is manifested by tolerance, withdrawal and other symptoms (1).

Approximately 15.9 million people inject drugs worldwide, with the largest numbers found in China, America and Russia (2). Annual prevalence of all illicit drug use in Pakistan was reported as 6% in 2013 (3). The annual prevalence in Pakistan of cannabis use is 3.6%, opioids 2.4%, tranquilizers 1.4%, amphetamine 0.08%, solvents 0.03% and cocaine 0.01%. (3). The highest
number of intravenous drug abusers among all provinces is in Punjab (4), which includes a high ratio of polydrug abuse among addicts in Lahore using heroin and opium together (3).

Internationally, two thirds of patients with addiction have a coexisting mental health problem (5). In male heroin users in Lahore, parental disharmony, paternal absence or maternal illiteracy has been shown to increase risk of addiction (6). Psychosocial factors like loneliness, parental coldness and peer pressure are major contributors to addiction (7). Curiosity to try new things is one of the most common reasons reported by drug users themselves (8).

Alcohol consumption accounts for loss of healthy years of life globally, and in high-income countries causes ~19% of disability-adjusted life years and ~27% of premature deaths among young people (9). If children initiate drug or alcohol abuse at age 10–11 years, there is a greater chance that they will be trapped in addiction at age 17–18 years (10). Parents who have heavy alcohol consumption are more likely to have children who abuse alcohol (11). Other childhood premorbid traits that determine continuation of substance abuse in adulthood are boldness and less socialization (12).

Family ties have an important role in the recovery process from addiction. Family support and concern for one’s own health are the most important motivating factors for quitting abuse (13), whereas socializing with the same peer groups and easy availability of drugs are the biggest reasons for relapse (14).

According to the National Institute on Drug Abuse of Pakistan, only 11.2% of the addicts who need treatment actually seek it (15). Treatment of drug addiction and rehabilitation services are provided through a wide range of public and private institutes in Lahore. The present study targeted male addicts seeking rehabilitation services in Lahore to assess the practice of drug abuse and reasons for relapse. Few studies have been conducted in this area of research and there is a dearth of scientific evidence to target strategies to tackle this important public health issue.

**Material and methods**

A cross-sectional study using a mixed-methods technique was conducted among addicts currently undergoing treatment in Lahore. Total duration of the study was 6 months (March–August 2016). One hundred and nineteen addicts from different rehabilitative institutes in Lahore were selected by using a purposive sampling technique.
A structured questionnaire was developed for collection of quantitative data and personal interviews were transcribed for collection of qualitative data. Analysis was done using SPSS version 20 for the quantitative variables. Thematic analysis was carried out for qualitative questions. To explore the factors and determinants of addiction among the participants, initial codes were generated in a systematic fashion. Codes were used to create “big ideas” (or themes) from each interview and data was coded on the basis of recurrence of similar responses. Qualitative analysis, including thematic and content analysis, was carried out for qualitative data. A subset of transcripts was also double coded, that is, two members of the research group coded the same transcript to reduce personal bias. Disagreements and insights were discussed and alternative interpretations were incorporated in the analysis. Finally, interview transcripts were indexed and mapped on the basis of recurring major themes with corresponding sub-themes. To ensure reliability, 2 researchers read the interviews separately and agreed on the coding framework. A general introduction to research design, interviewing skills, gaining trust and adherence to ethical boundaries were discussed at the Institutional Review Board.

**Results**

Forty-two (35.3%) respondents were aged 18–24 years, 43 (36.1%) 25–34 years, 20 (16.8%) 35–44 years and 14 (11.8%) ≥ 45 years. Sixty-one (51.3%) respondents were single, 53 (44.5%) married and 5 (4.2%) divorced. Two (1.7%) respondents were illiterate, 29 (24.4%) were educated up to grade 5, 52 (43.7%) up to grade 8, 28 (23.5%) matric to grade 14 and 8 (6.7%) postgraduate, which means that 68.1% were below secondary level. Fifty-three (44.5%) respondents were unemployed and 66 (55.5%) were employed before being admitted to the facility. Only one of them was already in service and undergoing treatment after being granted medical leave from his employer. Approximately 42% had income less than Rs 30,000 (US$ 300). The majority of the respondents belong to lower socioeconomic groups. Approximately 41% of the respondents have income between US$ 100 to US$ 300.

Fifty-three (44.5%) of the respondents started using drugs when they were aged 35 years, which showed that 82.8% of the respondents started abusing drugs before age 25 years. The reasons for initial drug use were recreation (n = 46, 38.6%), curiosity (n = 41, 34.5%), life-changing event (n = 17, 14.3%) and peer pressure (n = 15, 12.6%). The mode of intake was sniffing (n = 39, 32.8%), oral ingestion (n = 37, 31.1%), inhalation (n = 29, 24.3%) or intravenous injection (n = 14, 11.8%). Forty-seven (39.5%) respondents used drugs for > 5 years, 46 (38.7%) for 1–5 years, 13 (10.9%) for 6 months–1 year and 13 (10.9%) for

Sixty-six (55.5%) respondents were admitted to rehabilitation centres once, 23 (19.3%) were admitted twice and 30 (25.2%) ≥ 3 times. Eighty-four (70.6%) respondents reported family involvement and 35 (29.4%) no family involvement. Twenty-six (21.8%) respondents had an associated chronic disease and 93 (78.2%) did not, and 32 (26.9%) had an associated
psychiatric illness and 87 (73.1%) did not. Fifty-eight (48.7%) respondents had drugs provided by drug dealers, 29 (24.4%) by friends, 16 (13.4%) by pharmacies, 14 (11.8%) by work colleagues and 2 (1.7%) by family.

Eighty-five (72%) respondents admitted to being financially burdened because of drug abuse, and often resorted to borrowing money from friends or taking from their family, especially their parents. However, a large number (98, 83%) were now concerned for their health and were motivated to find a cure.

We conducted in-depth interviews to establish the reasons for relapse into drug abuse. Relapse was commonly reported among all 119 respondents. The following themes were identified based on the participants' responses.

**Sleepy friends, sleepy places**

Sixty-five (50%) participants blamed their friends or social connections for their relapse into drug abuse. Thirty-eight (32%) respondents said that friends were their source of provision of drugs, and 95 (80%) respondents reported that they obtained information about drugs from friends. Participants reported that when they returned to the same community and encountered the same people, they slowly began to indulge in the same harmful activities as before.

**Family grief and sadness**

Most of the participants said they experienced rude behaviour from their family and wider society, which had a negative effect. One participant relapsed solely due to taunts he faced after returning to the rehabilitation centre. They spoke about many aspects such as divorce, feeling hated by relatives, family bereavement, living in poverty, and being unemployed.

**Inability to control craving**

Thirty-six (30%) participants reported that they were devoid of any social support after returning to familiar locations, circumstances and people, which meant that they were not able to control their craving. Work stress and the same environment contributed negatively to relapse. Some were misusing the detoxification centres to eliminate tolerance developed by their bodies, to achieve euphoria and the same high that they felt when they used drugs for the first time. This means that they never intended to be cured but, in complete knowledge of their disease, to use the treatment centres to their own advantage.

**Sick of being sick**
Forty-eight (40%) participants reported that they had come willingly to the rehabilitation centre for treatment; the others stated that they were being brought forcefully by family members. One participant was sick of spending so much money on drugs. A government employee said that alcohol was readily available in their circumstances; that they normally drank to relax and smoked cigarettes with heroin and other drugs to raise their energy levels and performance. The respondent now had tremors and hallucinations and decided to seek treatment. One young participant stated that he was undergoing treatment because he did not want to die, although he also stated his belief that there was no cure for addiction. Becoming a parent was a wake-up call for one participant.

**Dissatisfaction with doctors**

One participant complained that he was not educated sufficiently about his disease and was not counselled properly by his doctors, which resulted in relapse into drug abuse.

**Work and social stressors**

The participants included healthcare professionals, for example, a dentist and a paramedic serving at the emergency department of a government hospital. Facing the same stressors that made them initiate drug use was also a cause of relapse, for example, work stress and relationship breakdown. The mass media was considered to play a negative role in their promotion of unrealistic images of relationships, which acted as a social stressor.

**Discussion**

In Pakistan, 4.25 million drug users required interventional treatment in 2011 (15). This signifies the burden of disease due to addiction. There is a strong taboo associated with addiction in Pakistan, particularly among the younger age group (20).

We found that the majority of participants started abusing drugs before 18 or between 18 and 25 years of age. Similar findings were reported in a study in which 92.9% of the participants reported substance use before the age of 25 years (19). Drug abuse at an early age can have detrimental effects on the psychological, physical and social development of the individuals concerned (20), leading to troubled teenage years, poor academic performance and conflicts with family and friends.

Another important indicator associated with drug abuse is the duration of use. Approximately half of the participants in our study reported using drugs for > 5 years. A study conducted in Rawalpindi, Pakistan (21,22) had similar findings substantiating the fact that mostly chronic drug
abusers seek rehabilitation services. Strategies should be devised to trace drug abusers in the early stage of their addiction to encourage them to seek help for cessation and counselling.

The main reasons for initiation of drug abuse highlighted by the participants in our study were recreation and curiosity. A study conducted in Malaysia in 2013 highlighted similar reasons, confirming the findings of our study (23). Lack of recreational activities can be one of the factors that trigger substance abuse. More emphasis should be placed by provincial and national government on the provision of recreational activities and places of entertainment. Such initiatives will provide alternative means to dissipate energy and become involved in healthy leisure activities. The issue of curiosity can be addressed by health education campaigns targeted at individual, group and mass levels.

The main limitation of our study was the lack of female participants. Their inclusion would have provided an opportunity to explore further the factors associated with initiation of drug abuse and associated factors of low compliance to treatment and sociocultural aspects of drug abuse. However, lack of availability of female participants and the strong social and cultural stigma and sensitivity associated with female addiction made it difficult to recruit female participants.

In conclusion, drug addiction is a problem that is escalating globally among younger age groups (1).

**Funding**: None.

**Competing interests**: None declared.

**References**


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