

Socio-Demographic & Clinical Profile of Patients with Substance Use Disorders Seeking Treatment. A Hospital Based Study

Nizam Ud Din^{1*}, Abdul Wahid Khan², Ajaz Ahmad Suhaff³, Zeenat Hussain⁴, Abdul Majid Ganai⁵, Showkat Ahmad Mir⁵, Hamid Ullah Shah⁶, Sajid Mohammad Wani⁶, Mohammad Abrar Guroo⁶ and Bilal Ahmad Teli⁷

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***Corresponding author:** Nizam Ud Din, Lecturer Department of Psychiatry, India

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¹Lecturer department of Psychiatry, Bemina, India

²Professor & Head department of Psychiatry, Bemina, India

³Senior Resident department of Psychiatry, Bemina, India

⁴Medical officer Department of Health and medical education

⁵Associate Professor department of Psychiatry, Bemina, India

⁶Senior Resident department of Psychiatry, Bemina, India

⁷Clinical Psychologist department of Psychiatry, Bemina, India

Abstract

Substance abuse is a complex and multidimensional problem. The problem is not merely that of an individual and a drug or a community, but of the interaction between the triad. The geographical location of Jammu and Kashmir makes transit of drugs possible across the state. Present prevailing disturbed conditions have worsened drug abuse scenario besides phenomenal increase in other psychiatric disorders in Kashmir. Drug addiction, a major problem worldwide, is associated with a high risk of relapse. Substance use can influence the support extended by the family members. This may be due to financial difficulties posed by the drug use, drug use leading to neglect of family responsibilities, involvement of the drug abuser in illegal activities, aggressive behaviour that may occur under the influence of certain drugs or several other reasons.

Aims and Objectives: To study the demographic profile of patients with substance use disorders seeking treatment & the clinical profile of patients with substance use disorders seeking treatment.

Material and Methods: Study was undertaken on the patients with substance use disorders attending OPD of Government Psychiatric Disease Hospital, Government Medical College Srinagar Kashmir, which is a teaching hospital for both under and postgraduate students. First 300 consecutive patients attending psychiatric OPD with substance use disorders as per DSM-IV-TR criteria diagnosed by the consultant psychiatrist, were taken for the study. A detailed history of sociodemographic and clinical profile was taken as per the proforma. In case of any doubt about the nature of the drug abused the urine, screening was done. All other routine investigations like CBC, LFT including gamma GT, KFT, serum electrolytes and blood sugar were also done. In our study majority of the patients were males, unmarried, with the mean age at time of presentation was 28.99 years, resident of urban and semi urban areas, Muslims, came from nuclear family, belonging to the middle-class family. The most common reason for seeking treatment for substance use disorder was social problems, with the mean age of onset of substance use was 19.66 years. A significant number of patients 32.34% (N=97) were using more than one substance. Most common route of administration used by the patients in our study was oral 57.91%. Among the psychiatric comorbidity, patients with Major Depressive Disorder (MDD) were 32.06 % (N=42), Bipolar Affective Disorder (BPAD) were 31.29 % (N=41), anxiety and adjustment disorders were 27.48% (N=39). Out of the 300 patients only 13% (N=39) of the patients had previous history of hospitalization or treatment for substance abuse. **CONCLUSION:** Most of the treatment seekers who attended the hospital for the substance use disorders were males in adult age group and most of them started using substance in adolescence. Bulk of the treatment seekers in our study was formed by businessmen, employees, students; most of which belonging to the nuclear family. Maximum were having good social support and referred by the family. Predominant substances used were opioids derivatives, cannabis, benzodiazepines and alcohol with significant number of polysubstance abusers using mostly opioid and benzodiazepine combination. So opioid derivative use is showing increasing trend in the treatment seekers in the valley. About forty three percent of the substance use disorders were having comorbid psychiatric disorder and more than one third having suicidal ideation although suicidal attempts were very less. Many of the patients were having high risk behaviour, 9.34% percent were the parental drug users and 2.67% shared the needles and 19% of the patients had multiple sexual partners, 6.67% had sex with commercial sex worker. Both of these high-risk behaviours form the fertile ground for the spread of deadly disease AIDS and other life-threatening diseases.

Introduction

Substance abuse is a complex and multidimensional problem. The problem is not merely that of an individual and a drug or a community, but of the interaction between the triad [1]. Continuous discovery of new drugs has no doubt brought relief in the treatment of hitherto incurable conditions and saved thousands of lives, but most of these drugs have also adverse effects, if not judiciously used. India, the traditional drugs like opium, charas, bhang and ganja were used by sections of the society partly as leisure time activity and partly as part of the religious ceremony. Therefore, their consumptions did not invite much negative sanction from the society. Abuse of alcoholic beverages are endemic in many societies, whilst the abuse of other psychoactive substances present in epidemic features and drug abuse is transmitted from person to person like an infectious disease [2]. No effective treatment and prevention related policy issues can be arrived at without adequate information regarding the nature and distribution of drug abuse in population and their causative factors.

The geographical location of Jammu and Kashmir makes transit of drugs possible across the state. Present prevailing disturbed conditions have worsened drug abuse scenario besides phenomenal increase in other psychiatric disorders in Kashmir [3]. Treatment services utilization by substance abusers is one of the sources and indicators of assessing problematic substance use. It is important to assess treatment demand from substance abusers and can be an effective tool for preliminary assessment of magnitude and pattern of substance abuse in the community [4]. Therefore, studying the profile of substance abusers in the hospital can act as tool to have an idea about the nature of substance abuse in the community and help to create a baseline data about substance abuse in Kashmir and nearby areas served by the hospital.

Drug addiction, a major problem worldwide, is associated with a high risk of relapse. Substance use can influence the support extended by the family members. This may be due to financial difficulties posed by the drug use, drug use leading to neglect of family responsibilities, involvement of the drug abuser in illegal activities, aggressive behaviour that may occur under the influence of certain drugs or several other reasons. The substantial burden imposed on the family containing a member with substance use disorder and the impact of family interactions in perpetuating or ameliorating these problems have an effect on the initiation of, perpetuation of and recovery from the substance use disorder; the patient's motivation and ability to comply with treatment; and the patient's clinical course and outcome [5].

Social support influences motivation, treatment compliance and outcome in drug dependent patients. Substance abuse can influence social support and social support, in turn, can influence the substance abuse problem [6].

Aims and Objectives

To study

1. The demographic profile of patients with substance use disorders seeking treatment.

2. The clinical profile of patients with substance use disorders seeking treatment.

Material and Methods

Setting: Study was undertaken on the patients with substance use disorders attending OPD of Government Psychiatric Disease Hospital, Government Medical College Srinagar Kashmir, which is a teaching hospital for both under and postgraduate students.

Method: First 300 consecutive patients attending psychiatric OPD with substance use disorders as per DSM-IV-TR criteria diagnosed by the consultant psychiatrist, were taken for the study. A detailed history of sociodemographic and clinical profile was taken as per the proforma. In case of any doubt about the nature of the drug abused the urine, screening was done. All other routine investigations like CBC, LFT including gamma GT, KFT, serum electrolytes and blood sugar were also done.

Measures: The following measures were considered in the study.

1. Sociodemographics
2. Clinical profile

Inclusion criteria:

1. The patient with substance use disorders who gave the consent
2. 16 to 65 years of age

Exclusion criteria:

1. Patients who did not gave consent
2. Age <16yrs or >65 years
3. Patients with organic brain disorders
4. Patients with medical conditions to cause psychiatric disorders like hypothyroidism, pheochromocytoma, epilepsy, cushing's disease etc

Observations and Results

In our study 98% (N=295) of the patients who attended the hospital for the treatment of substance use disorders were males (N=295). Females constituted only 1.67 % (N=5). About 60 % of the patients in our study were unmarried (N=181) and about 40 % of the patients were married (N=119). The majority number of patients (50.33%) in our study presented in the age range 21-30 years (N=151). About 10% presented in the age group greater than 40 years (N=29). The mean age at time of presentation was 28.99 years. Maximum number (about 66%) of the patients in the study were the resident of urban and semi urban areas (N=199). Most of the patients in our studies were Muslims only few of the patients (6.34%) who attended Psychiatric Disease Hospital for the treatment belonged to the religion other than Islam (N=19). In our study about 31 % (N=94) were gainfully Engaged with some kind of business. About 25% (N=76) of the patients were doing some kind of job either government or private. 14.66% (N=44) were students. In our study 60% (N=180) came from nuclear family. Only 18%

(N=54) belonged to joint family. From the Table 1 it is clear that most of the patients [62% (N=216)] were belonging to the middle-

class family. Only 6% (N=18) came from either upper or lower class [Table 1-3] [Figure 1].

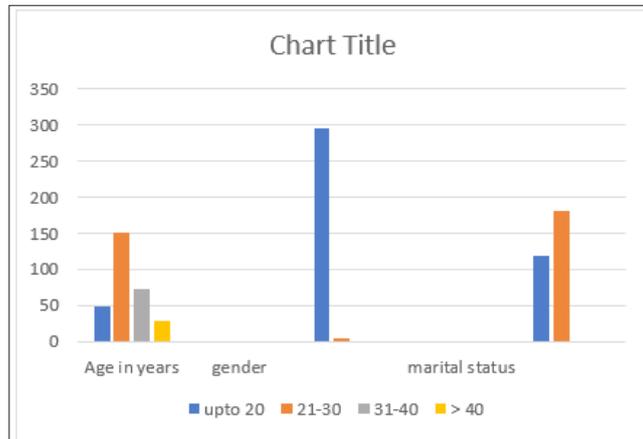


Figure 1:

Table 1

Age (Years) at the Time of Presentation		
Age Range	No. of Patients	Percentage
UPTO 20	48	16
21-30	151	50.33
31-40	72	24
>40	29	9.67
Marital Status		
Married	119	
Unmarried	181	
Gender		
Males	295	
Females	5	
Residence		
Urban	138	
Semi-urban	61	
Rural	101	
RELIGION		
Muslim	281	93.67%
Hindu	10	3.34%
Sikh	9	3%
Occupation		
Students	44	14.66%
Business	94	31.33%
Govt. employee	66	22%
Private employee	10	3.33%
Unemployed	39	13%
Driver	24	8%
Laborer	22	7.33%
Others	1	0.33%

Family Type		
Nuclear	180	60%
E. Nuclear	66	22%
Joint	54	18%

Table 2

Source of Referral		
Family/self	179	59.67%
Physician	60	20%
Psychiatrist	29	9.67%
Others	32	10.67%
Predominat Reason for Seeking the Treatment		
Social	123	41%
Comorbidity	93	31%
Withdrawal	59	19.67%
Medical	24	8%
Legal	1	0.33%
Substance Used		
Opioids	73	24.34%
Alcohol	45	15%
Benzodiazepines	24	8%
Cannabis	53	17.67%
Inhalants	6	2%
Others	2	0.66%
Polysubstance	97	32.34%
Age (Years) of Onset/First Use		
UPTO 10	5	1.67%
15-Nov	63	21%
16-20	139	46.34%
-46	51	17%

26-30	33	11%
>31	9	3%
Route of Administration		
Oral	172	57.91%
Oral+Smoking	54	18.18%
Smoking	49	16.49%
Others	22	7.40%
Parental Drugs Used		
Pentazocine	11	39.28%
Tramadol	9	32.14%
Benzodiazepines	7	25%
Others	1	3.57%

Table 3

Predominant Reason for Starting the Substance		
Peer pressure	107	35.67%
Excitement/curiosity	71	23.67%
R.F.N.M.S.	39	13%
Psychiatric comorbidity	69	23%
Medical comorbidity	5	1.67%
E.P.M.S.	6	2%
Family history	3	1%
Type of the Psychiatric Comorbidity		
MDD	42	32.06%
BPAD	41	31.29%
Anxiety & adjustment disorder	39	27.48%
Substance induced psychosis	7	5.34%
Schizoaffective disorder	2	1.52%

It can be inferred from the Table 2 that many patients 36% (N=108) had passed primary and only few 3% (N=9) were post graduates. Illiterate (N=61) formed 20.33% and 29.33% studied up to higher secondary. Most of the people 59.67% (N=179) in our study came to hospital were motivated for the treatment by the family and referred by one of the family members or sought treatment by themselves. Others which formed 10.67% (N=32) of the study were referred by friend, treated patient, media etc. The Table 3 shows that most common reason for seeking treatment for substance use disorder was social problems 41% (N=123). This was followed by comorbidity 31% (N=93) and withdrawal 19.67% (N=59). Most of the patients 84.34% (N=253) were dependent on substances. Only 15.63% (N=47) of the patients were only abusing the drugs. From the Table 3 it is clear that significant number of people 46.34% (N=139) in our study started using substance in the age group of 16 to 20 years. Only less number of 3% (N=9) started using substance beyond the age of 31 years. The mean age of onset of substance use was 19.66 years. A significant number of patients 32.34% (N=97)

were using more than one substance. opioid derivatives which constituted 24.34 % (N=73). Cannabis was used by 17.67 % (N=53) and alcohol was used by 15 % (N=45). Other included antihistaminic (Avil) etc. Among the opioid derivatives the most common drug abused was codeine (cough preparations) and formed 64.38% (N=47). Spasmoproxyvon (each capsule containing propoxyphene 100mg+dicyclomine 50mg+acetoemenophen 400mg) abuse was also high 23.28% (N=17). Diacetylc morphine that is heroin was used by 6.84% (N=5). Among the polysubstance abusers or dependents [32% (N=97)]. The most common combination was codeine and benzodiazepines (BZD) 34.02% (N=33). Three or more substances were used by 19.58% (N=19). This was followed by cannabis and alcohol 8.24% (N=8) and spasmoproxyvon and benzodiazepines 7.2 % (N=7). Common parental drugs used were pentazocine 39.28 % (N=11), tramadol 32.14 % (N=9), benzodiazepines 25 % (N=7). Others include antihistaminic. Most of the patients in the study were smokers 93.34 % (N=281) and only few of them were non- smokers 6.67 % (N=19). Most common route of administration used by the patients in our study was oral 57.91% (N=172) followed by oral and smoking (inhalational) 18.18 % (N=54) and smoking 16.49 % (N=49). Parental drug users were 9.34 % (N=28). Only 2.67 % (N=8) were sharing needles. Among the psychiatric comorbidity, patients with Major Depressive Disorder (MDD) were 32.06 % (N=42), Bipolar Affective Disorder (BPAD) were 31.29 % (N=41), anxiety and adjustment disorders were 27.48% (N=39). These three groups formed the bulk of patients with psychiatric comorbidity.

Out of the 300 patients only 13% (N=39) of the patients had previous history of hospitalization or treatment for substance abuse. Rest of the patients 87% (N=261) had come to the hospital first time. Family history for the psychiatric disorders was present in 12% (N=36) of the patients, family history of substance abuse of the same nature or other substance was present in 9.67% (N=29) and family history of some form of medical disorder especially hypertension and diabetes was present in 10% (N=10) of the patients.

Discussion

Prolonged and regular use of illicit substances is harmful to both individual and to the society. Drug use in any society varies considerably across socioeconomic groups, across time and regions, and reflects the cultural practices of different sections of the society [7]. Substance use disorders as reflected by the number of substance abuse patients attending the sole psychiatric disease hospital from the whole valley have shown a substantial increase [8]. Many developing countries have seen rapid increase in the use of opioids, cocaine and psychotropic drugs. In a number of these countries injectable drugs are becoming very common [9]. In our study most of the patient 85 % (N=253) were drug dependents at the time of presentation. Drug related withdrawal symptoms and other personal, family and social problems associated more with drug dependence than abuse, could be a reason for higher number of dependents in our study because of the increased treatment seeking in this group. Most of our patients [50.5 %

(N=151)] presented in the age group of 21 to 30 years, followed by 24 % (N=72) in the age group of 31 to 40 years. These findings are consistent with Khantzian et al. [10], who observed 49.6 % patients in the age group of 25-29 years and 17.3 % in 20-24 years age group. Our findings are also consistent with Drug Abuse Monitoring System (DAMS) where most of the people (70%) presented in the age group of 21-40 years. In our study 74% (N=223) of the people were in the age groups of 21-40 years. Age below 20 years at the time of presentation constituted 16 % (N=48) in our study which is consistent with Drug Abuse Monitoring System [7] for Jammu and Kashmir state (18.5%). The reason for presentation by the young age group could be because of younger age of onset of substance use in our sample. Mean age of the patients in our study at the time of presentation was 28.99 years lesser compared to 35.3 years in Drug Abuse Monitoring System [11] and 33 years in the study by Crawley et al. [12]. Majority of the patients in our study were male i.e. 98.33 % (N=295) and only 1.67 % (N=5) were females (p=0.00). This finding is consistent with DAMS where most of the respondents 97.2% were males and 2.8% were females [7]. Most of the studies except Crawley et al. [12] (who reported 56% females), have reported majority of males in their studies [10,13-15]. Most of the patients in our study were unmarried [60.34 % (N=181)] and 39.67 % (119) were married (p=0.00). None of the patients in our study was divorcee or widower. Similar results were found in other studies [16-18]. But as per drug abuse monitoring System [7], 71.9% were married and only 22.8% were unmarried, which is contrary to our study. Drug Abuse Monitoring System also reported only 1.2 % divorced. The reason for more unmarried patients in our study could be due to more number of younger age group patients as compared to the current marriageable age. Maximum number 46% (n=138) and 20.34 % (n=61) belonged to urban and semi urban areas respectively. Only 30.64% (N=101) were residents of rural areas. These findings are similar to Drug Abuse Monitoring System where 48.3% of the people belonged to urban areas [7]. Margoob et al. [19] reported 57.14% of the patients were residents of urban areas. The reason for higher urban presentation in our study may be because the sole psychiatric disease hospital is situated in the centre of capital city Srinagar catering higher proportion of patients from adjoining urban or semi urban areas and migration of people from rural to urban areas. 93.67 % (N=281) of the patients in our study were Muslims. Only 3.34% (N=10) were Hindu and 3% (N=9) were Sikhs. This can be explained by the fact that in Kashmir valley most of the population is constituted by Muslims. In our study, 60 % (N= 180) belonged to nuclear family, 22% (N= 66) to extended nuclear and 18% (N=54) to joint family. This is consistent with Baljeet et al. [20] who reported that 63.5% of his patients belonged to nuclear families.

72% (N=216) the people in our study came from middle class families [upper middle class 43% N=129 and lower middle class 29% (N=89)] and 25% (N=75) of the patients came from lower class. Only 3% (N=9) belonged to upper class. Some of these findings were consistent with Kadri et al. [21] where upper class was reported to 3.5% and lower class 5.4%. Upper lower class formed bulk of the study (47.3%) which is contrary to our study. In our study 36% (N=108) were primary pass followed by higher

secondary educated 29.33% (N=88) and illiterate 20.33% (N=61). Only 3% (N=9) were post graduates. As per Drug Abuse Monitoring System, 42% of the people had completed higher secondary and above followed by 12% graduates and 15% illiterate [7]. In our study social support was good in 93% (N=279), and minimal in 7% (N=21) (p<0.05). other study reported good social support in about 97.6% of the patient with substance abuse [21], which is consistent with our study. This can be explained by the fact that there is high social bonding in our society. Most of the times more than one person used to accompany the patient for consultation. The attendants were always ready to act as caretakers of the patient and provide every kind of support including the emotional and the financial help. In our study 59.67% (N=179) were referred by the family or by themselves. 20% (N=60) were referred by the physicians in whom most of them were in withdrawal state or some medical complication. Similar results were reported by Sandeep Grover were most of the subjects (55%) were referred for the treatment by the family. 23.5% of the patients were referred from the other departments Baljeet et al. [22]. observed that 69.9% of the subjects were brought by relative and only 21.2% sought help on their own, rest of the people were referred by physicians. The reason for higher family referral in our study could be due to the concern for the patient and also may be the family's awareness regarding the fact that drug abuse is a treatable disease and have serious consequences if not taken care at proper time.

In our study social factors and rejection 41% (N=123) formed main reason for seeking the treatment, followed by comorbidity 31% (N=93) and complications like withdrawal 19.67 % (N=59) Weisner et al. [23] reported that most of the people enter the treatment due to family pressure, employer pressure or health professional advice. In our study most of the patients were having social problems like inability to fulfil the obligations of family, relatives and neighbours. All these factors could be the reason for seeking treatment.

Most of the patients in our study 46.34% (N=139) started substance use in the age group of 16 – 20 followed by 21 % (N=63) in the age group 11 – 15 years and 17% (N=51) in the age group of 21 – 25 years. The mean age of starting substance use was 19.66 years. Similar results were found by Ho Wai et al. [24], who reported the mean age of first use as 19.2 years Lamptey et al. [25]. reported 56.3% of the patients started drug abuse in the age group of 15-19 years. This can be akin to our study.

Drug Abuse Monitoring System [7] reported mean age for first use for males 23 years and females 24 years which is slightly higher than our study. About 75% started using drug in the age group of 16-30 years in DAMS which is similar to our study were 74.34% of the people started drug use in the age group of 16-30 years Kadri et al. [21] reported 39.6% of the substance abusers who initiated the drug use in the age group of 16 – 20 years which is slightly lesser than in our study [46.34% (N=139)].

Polysubstance use formed the most common form of abuse in our study. 34% (N=97), followed opioids 24.24 % (N=73), Cannabis 17.67% (N=53), Alcohol 15% (N=45). Among the polysubstance

abusers (N=97), the most common pair combination was codeine and benzodiazepine 34.02% (N=33) and 19.58% (N=19) of the patients used to have three or more substances per day. This was followed by combination of cannabis and Alcohol 8.84% (N=8), Spasmaproxyvon 7.2% (N=7) and benzodiazepines. Among the opioid derivatives the most common drug abused was codeine (cough preparations) and formed 64.38% (N=47). Spasmaproxyvon abuse was also high 23.28% (N=17). Diacetylmorphine that is heroin was used by 6.84% (N=5) only Baljeet et al. [22] reported that the commonest substance used was opioid 76.2% and the commonest opioid used was heroin 36.5%. which is consistent with our study where predominant substance abused was opioids. Our findings are not consistent Drug Abuse Monitoring System were Alcohol (43.9%) was predominant substance used followed by cannabis (11.6%) and opioid derivatives including Heroin, codeine etc (26%). Alcohol use is very less in Kashmir as compared to the rest of India [7] which can be explained due to the predominant Muslim majority population who consider alcohol use as a taboo and in opposition to religion. Other study reported 60.11% of the patients of Narcotic analgesics use followed by stimulants 2.5% and cough mixture 6.94%. Only 1.39% of the patients were using Alcohol [24]. One of the main reasons of predominant opioid use in our set up can be explained by the fact that most of the treatment seekers attributed its use due to easily availability of the substance and were able to get the drug directly from the stockiest without prescribing by some doctor. One of the reasons given by opioid against alcohol use was that opioid preparations were not associated with smell and could be safely used at home without seeking family attention. 93.34% (N=281) were using or abusing Nicotine in the form of cigarettes, hukka, chewing, only 6.67% were non-smokers or not using nicotine in any form in our study. Other study [26] reported the prevalence of smoking in community is very high (24.5%). In addition to this 10.63% of the population abuse tobacco in other form like chilam, beedi, harg rolled cigar etc. A small percentage of the population abused tobacco in smokeless form like snuff 2.5%, zarda (0.47%) and pan Masala (1.63%). The tobacco can serve as a gateway drug to use and dependence of harder substance like heroin and other opioids preparations as was in our study.

Majority of the patients 95% (N=190) were using substances daily. Only few i.e. 5% (N=10) used to have the drug only 2-4 times per week Ho Wai et al. [24] reported that 90.77% of the people used drug every day and 4.62% of the patients were taking drug few times per week. These findings are consistent with our study. The daily use of substances in our study could be due to the nature of the drugs used as most of them produce withdrawal symptoms in a short duration on stopping and as most of the patients in our study were dependents and therefore needed the substance every day to prevent the withdrawal symptoms which as described by the respondents were quite distressing and intolerable.

Most common route used was oral 57.91% (N=172) followed by (oral + smoking / inhalation) 18.18% (N=54). Most of the patients in our study used codeine (liquid), benzodiazepine tablets, spasmaproxyvon capsules, alcohol and cannabis by smoking. About

9.67% (N=29) patients in our study used parenteral route for drug administration which included intravenous and intramuscular. 3% (N=9) gave history of sharing of needles. Drug Abuse Monitoring System reported 14% of the sample using injectable drugs and only 9% used it in the last month. While as 4% of the patients reported sharing of needles in the last month [7]. In our study most common form of substance used was solid 37% (N=111) followed by liquid 30% (N=90) and solid and liquid combination 28% (N=84). Most common substances used were cannabis, tablets, capsules, alcohol, and liquid cough preparations.

In our study the predominant reasons for starting the substance was peer pressure 35.67%, excitement or out of curiosity 23.67% and psychiatric comorbidity 23% Margoob et al. [26] reported that peer pressure was most common reason for starting the substance 44.44%, followed by curiosity 16.66%, which is consistent with our study. In contrast to our study, Doctor et al. [27] reported that predominant reasons for starting the substance was family influence 41.8% followed peer pressure 27.87%. In our study only 9.67% of the people gave family history of drug abuse Ho Wai et al. [24] reported that curiosity was the main reason for starting substance, followed by relief from negative mood state (20-29%), sensational excitement 17.39% and peer pressure 7.39%. As most of the patients in our study are of younger age group at which peer influence is more predominant than that of the family, so it could be a reason that most of the patients have started substance use under peer pressure.

Most of the patients 43.34% (N=130) in our study were using drugs for one to five years followed by 27.34% (82) for period of 6 – 10 years. Mean duration of substance abuse was 8.88 years. In a study [7] 53.5% of the people used drugs for the period of 5 – 10 years and 36.5% of the patients used the drug for duration of 1 – 5 years which is in contrast with our study. Wheeler et al reported 57% of the patient used the drug for more than 2 years [28]. Margoob et al. [19] reported 41.65% patients took substances for period of more than 5 years and only 5.94% took medication for less than 1 year.

Most of the patients in our study [54% (N=162)] used the drug within 12 hours of seeking treatment. 28% of the patients presented to the hospital who have taken substance more than 2 days before seeking treatment and most of them presented in withdrawal.

In our study 12% (N=36) and 9.67% (N=29) had family history of psychiatric disorder and substance abuse respectively. Drug Abuse Monitoring System reported family history of drug abuse in 48% of respondents which is contrary to our study [7].

Summary and Conclusion

1. Most of the treatment seekers who attended the hospital for the substance use disorders were males in adult age group and most of them started using substance in adolescence.
2. Bulk of the treatment seekers in our study was formed by businessmen, employees, students; most of which belonging to the nuclear family. Maximum were having good social support and referred by the family.

3. Predominant substances used were opioids derivatives, cannabis, benzodiazepines and alcohol with significant number of polysubstance abusers using mostly opioid and benzodiazepine combination. So opioid derivative use is showing increasing trend in the treatment seekers in the valley.

4. About forty three percent of the substance use disorders were having comorbid psychiatric disorder and more than one third having suicidal ideation although suicidal attempts were very less.

Many of the patients were having high risk behaviour, 9.34% percent were the parental drug users and 2.67% shared the needles and 19% of the patients had multiple sexual partners, 6.67% had sex with commercial sex worker. Both of these high-risk behaviours form the fertile ground for the spread of deadly disease AIDS and other life-threatening diseases.

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