Evaluation of common withdrawal effects: A surveillance study among drugs abusers at Rehabilitation Centers of Karachi.

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ABSTRACT… Objective: This study was to assess the common withdrawal effects of drugs among addicted population in rehabilitation. Study Design: Cross Sectional Survey. Setting: Different Rehabilitation Centers Located Across the City, Karachi. Period: December 2018 to June 2019. Material & Methods: 400 filled questionnaires were obtained from randomly selected subjects (addicted persons). Results: The results of the study showed, most drugs abused age group is 20-40 year i.e. 71.6%, 13-19 year 18.7%, and 9.7% for population above 40 years of age. Most abused drugs found 34.8%, 26.8%, 9.6% 6.7% for cannabis, tobacco, heroin, and morphine accordingly. n=188 (47%) of patients had adaptive response towards treatment in rehabilitation while n=60 (15%) shows negative and aggressive behaviors. n=60 (15%) patients found guilty of drugs abused while n= 180 45% found it pleasurable. Conclusions: A persistent, safe and evidence-based practices is required in management of drugs abuse among the addicted patients to avoid the risk factors.

Key words: Abuse, Drugs, Misuse, Narcotics, Rehabilitation.

INTRODUCTION

In spite the general reductions in the drugs abuse cases, the prevalence rate of non-medical use of drugs remains the serious public health concern.1 In year 2009, peoples of aged 12 years, 5.3 million reported nonmedical use of pain relievers, which was found to be one-third of dependency and abuse cases according to US national survey on drugs use and Health. The highest prevalence of such case was found between the age group of 12-17 years and reported difference in the nonmedical use of drugs from year 2013 to 2014 was observed to be increased by 6%, as 41.6 million people was reported in 2013 and 44.2 million in year 2014.2 Due to the lack of quantitative surveillance, reporting and difficulty in the detection of such cases made these scenarios more dramatic.3 Drugs abuse has become more popular in the developing countries, and situation is worse for the countries like Pakistan.4 The commonly abused drugs are cannabis, tobacco, some potent analgesics like morphine, codeine, meperidine and fentanyl.5 Because of the intense response produced by the interaction of several opiates and the brain, these drugs remain extremely addictive, sometimes causing measurable symptoms of addiction in under three days.6 the narcotics abuse remains as leading crisis in health care setup, which includes several side effects for persistent users with/without prescription.7 Drug addiction has become one of the social problems all over the world.8 Every community is trying hard to resolve this issue, but its success rate is very low. Drug addicts are rejected group of the society that require special care and attention. If these people do not get proper care and treatment, it may cause harm to themselves as well as cause damage to the family and society. The drug rehabilitation centers assist drug addicts’ people to prepare themselves to re-enter to their society. In drug rehab, drug addicts do their best to restore their normal lifestyle in a safe and healthy way.9-10 The main objective of the study was to assess the patient’s response towards withdrawal symptoms and their treatment at rehabilitation.
MATERIAL & METHODS
A cross sectional survey was conducted from December 2018 to June 2019. Total 400 filled questionnaires were obtained from randomly selected subjects (addicted persons) from different rehabilitation centers located across the city, Karachi. Questionnaire designed was based on the withdrawal symptoms, effects and treatment protocols and modified as Pakistani settings of rehabilitation center. The questionnaire was containing complete demographics of the respondents. It was distributed into two parts, one specified for physician and one for patients. The questions were framed to evaluate the knowledge about withdrawal effects of abused drugs and their treatment by rehabilitation center. Nawab House, Karachi Psychiatric Hospital, Civil Hospital Karachi, IBTADA.

RESULTS
The questionnaires were distributed to physicians and patients, 400 questionnaires were filled by physicians from different allocated rehabilitation centers, 400 questionnaires were filled after in-depth interview from addicted patients. All the questionnaires were satisfactorily responded by patients making the response rate 100%.

Table-I Most of the adult age group of people was prone towards drug addiction, due to many reasons including; less attention of elders on their children, social circle, depression, sex desires, and emotional issues.

| Age Groups          | Respondents Frequency | Percentage |
|---------------------|-----------------------|------------|
| 6-12 years          | Nil                   | 0%         |
| 13-19 years         | 75                    | 18.7%      |
| 20-40 years         | 286                   | 71.6%      |
| 40 years & above    | 39                    | 9.7%       |

The most abused drug in Pakistan is cannabis being abuse by n=139 (34.8%) of the abusive population, while the second major drug is heroin n=38 (9.6%) and cocaine n=83 (20.5%), other drugs includes; morphine n= 27 (6.7%), tobacco n=107 (26.8%) other unspecified drugs include alcoholic drinks, found n = 6 (1.6%).

According to the Physician response the best treatment protocol during rehabilitation is pharmacological therapy, due to its readily responsiveness and concordance. Now other protocols are also being introduced to increase patient compliance and wellness towards detox therapy.

The common withdrawal symptoms that experienced by abuser on stopping supply of narcotics. Mainly narcotics are affecting on the brain, so they tend to induce brain disorders mostly i.e. 40%, secondly, GI disturbances 30% are also seen in withdrawal effects. Others include respiratory 20%and muscular dysfunction and muscles twitching 10% found as common effects.
Most of the patients have good experience in the rehabilitation center, while some have better and fair experience while very less patients have bad or worst experience at rehabilitation center.

DISCUSSION

This study found that physicians have some mixed beliefs about the narcotics abuse regarding age group, some accurate belief and some inaccurate belief like our study. The physician sampled in this study were accurate in their agreement about the narcotics abuse of age from 20-40 years, because of a lot of reasons that is due to their bad company, isolation, pleasure sleekness and depression. The drugs related overuse was found with cocaine and heroin in most cases as found in the similar study conducted. Drug abuse is continuing to present a significant public health problem. However, In Pakistan the most abused drug is cannabis/marijuana (charas). Most of the population is abusing due to its easy availability on specific areas by “dealers or agents” who are just on a phone call away, generally hidden from the preying eyes of enforcement agencies,
however severe long term cognitive effects are inadequately studied adverse effects of cannabis which is worsening the situation of drug addicted persons13 The secondly most abused drugs are heroin and cocaine so called as street drugs are majorly being abused by below the age of 30, as results showed in a similar study, most drugs abused and non-medical use (35%) of drugs was found with age group of 18-25 years14 Drug treatment mainly engage to help addicted patients to stop compulsive drug addiction and use. Drugs abuse and even withdrawal symptoms effects the CNS and patients experience the symptoms of loss of memory and sometimes aggressions, to this context Patients were asked about the effects of drugs on brain and 50% were found agreed with the effectiveness on abused drugs on brain efficiency similar results were observed in a study.15-16 Treatment can be given in a variety of procedures, take many different forms, and last for different periods of time in rehabilitation centers.17 The most common withdrawal observed are CNS effects which are mainly bipolar mood disorder, manic depression, and headache as reported in a study18 due to highly effects of misused drugs, and nonprescription use of narcotics analgesics on brain as a similar study found the cognitive impairments among drugs addicted person.19 Response to the rehabilitation treatment is found different with respect to patients20 as reported study suggested around the globe. Other risk factor found responsible were older age, chronic pain and misguidance.21-22 In achieving the optimal response in rehabilitation sequences in treatment suggested.

LIMITATION OF STUDY
This research can be conducted to larger population, due to improper patient’s response only small sample size was considered.

CONCLUSION
There are several schemes formulated for treatment of drug addiction because addicted person’s willingness towards drug addiction requires intense and sustained attention by well trained staff and equipped services.

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| 5     | Syed Imran Ali            | Proof reading.                    |                     |
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