



## Does Alcoholism Influence Sexual Functioning?

anxiety, fear, improve their confidence and they believe it increases their sexual desire and performance. But as Shakespeare says in the Scottish play: 'It increases the desire, but it takes away the performance'. There is physiological and psychological interplay between alcohol and sexual function. However, heavy and persistent use of alcohol for long-term as well as alcohol use disorder is known to induce sexual dysfunctions.

This can be due to the action of ethanol on the gonads and now for the last two decades ethanol is considered as a gonadal toxin. The gonadal toxicity can occur as a direct effect or due to impairment at Hypothalamo-Pituitary-Gonadal axis.

Prevalence of sexual dysfunction in male as well as it's a etiology varies from study to study and is grossly under recognised by the health care system for various factors. It is known that medical practitioners often do not inquire about it in patients in whom it may not be the complaint. From India only a few studies have reported regarding this topic and that too they are mostly from the de addiction centres and not many studies have been undertaken in the General Hospital Psychiatry Unit [GHPU] set up. With this in mind, we conducted the current study.

### ***Aims and Objectives***

- To assess the prevalence of Sexual Dysfunction [SD] in male patients with Alcohol Dependence Syndrome [ADS] in GHPU.
- To assess the socio demographic and clinical correlates of SD in male patients with ADS in GHPU.

## **METHODOLOGY**

In our study a total of fifty consecutive male subjects were interviewed on the 3<sup>rd</sup> day of inpatient care GHPU, Navodaya Medical College & Hospital and Raichur institute of medical sciences Raichur.

### ***Inclusion criteria***

1. Patients admitted for ADS with simple withdrawal symptoms.
2. Age between 20-60 years.
3. Sexually active males having a regular sexual partner.

### ***Exclusion criteria***

1. History of primary / secondary sexual dysfunction [prior to initiation of alcohol use]
2. Co-morbid physical disorders: Diabetes mellitus, Hypertension, other systemic illnesses, history of genito-urinary surgery or spinal cord lesion.
3. Co-morbid psychiatric disorders: Schizophrenia, Delusional disorder, Anxiety disorders and Mood disorders. Patients with symptoms of depression or anxiety not fulfilling a syndromal diagnosis were included in the study.
4. Substance use other than alcohol and tobacco.
5. Use of drugs (antipsychotics, antidepressants, antihypertensive, steroids, etc.)

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The Researchers conducted a face-to-face interview with the subjects. After seeking, informed consent from subjects. Diagnosis was confirmed by using ICD-10 criteria.

Co-morbid psychiatric diagnosis was ruled out using Structured Clinical Interview for DSM-IV-TR Axis I Disorders (SCID – 1). Interviewer using a semi- structured proforma, focused on the demographic details, patterns, type, and amount of alcohol consumed. Sexual dysfunction was assessed using International Index of Erectile Function (IIEF), a multidimensional scale with 15 item questionnaire that evaluates several aspects of male sexual behaviour in 5 domains.

Domain	Items	Range	Score Max
Erectile Function	1, 2, 3, 4, 5, 15	0-5	30
Orgasmic Function	9, 10	0-5	10
Sexual Desire	11, 12	0-5	10
Intercourse Satisfaction	6, 7, 8	0-5	15
Overall Satisfaction	13, 14	0-5	10

**Decreased sexual desire:** persistent or recurrent deficiency or absence of desire for sexual activity giving rise to marked distress and interpersonal difficulty.

**Difficulty in erection:** recurrent or persistent, partial or complete failure to attain or maintain an erection until the completion of the sex act.

**Difficulty in achieving orgasm:** persistent or recurrent delay in or absence of orgasm, following a normal sexual excitement phase.

### *Statistical analysis*

Statistical analyses were performed using the level of statistical significance set at  $P < 0.05$ . Clinical and socio-demographic characteristics of the sample were analyzed by descriptive statistics. Chi-square test was used to assess discrete variables.

## **RESULTS**

In our study, majority of the ADS patients were less than 50 years of age, majority were Hindus, most of them studied less than intermediate level, semiskilled professionals, and belonged to below poverty line group. (Table-1)

The mean age of the study sample was 39.26 ( $\pm 8$ ) years; were mostly from urban background (58%). The mean age of onset of drinking was 19.1( $\pm 6.2$ ) years, and that of dependence was 24( $\pm 6.7$ ) years, duration of alcohol dependence was 15 ( $\pm 7.7$ ) years, with an average daily consumption of 15.4( $\pm 11$ ) Units. (Table-2, Figure-1)







## **DISCUSSION**

Normal prevalence of sexual dysfunction is 2% - 4% among less than 40 years of age. Vijayasenana found that of 97 male inpatients admitted for the treatment of alcoholism, 71% had sexual dysfunction. The disturbances noted were diminished sexual desire (58%), ejaculatory incompetence (22%), erectile impotence (16%) and premature ejaculation (4%). Virtually all aspects of the human sexual response are affected by alcohol especially sexual desire and erection. Jensen reported that 63% of married alcoholic men and 10% of controls had sexual dysfunctions, especially lack of sexual desire. In another study by Jensen 57% reported hypoactive sexual desire and 23.8% had impotence, 15.9% had premature ejaculation, and 25.4% had retarded ejaculation. In our study 76% of them complained of one or more problems of sexual dysfunction which shows higher prevalence of sexual dysfunction among male subjects with ADS. This is similar to what has been reported in earlier studies.

The most common sexual dysfunction reported were low sexual desire [30(60%)], low intercourse satisfaction [29 (58%)] followed by low overall satisfaction [21(42%)], erectile dysfunction [21(42%)] and least being the orgasmic function [12(24%)]. These findings were similar to the past studies. And not supported by few studies. (Table-3, Figure-2)

Socio demographic and clinical factors were not correlated with prevalence, severity and type of sexual dysfunction. These findings were similar to past existing evidence. (Table-6)

The age at which one starts to consume alcohol seems to influence the occurrence of sexual dysfunction as late onset of alcohol use is associated with a higher prevalence of sexual dysfunction. This is statistically significant, new incidental finding. There is no evidence to support this finding. (Table-5)

Similarly patient having co morbid NDS experience greater sexual dysfunction as erectile functioning and overall sexual satisfaction were significantly ( $p = < 0.05$ ) lower in men with NDS. This has been reported in earlier studies too. (Table-4)

## **SUMMARY & CONCLUSION**

In ADS, sexual dysfunction is of high clinical relevance as it is often missed by clinician and patients fail to report, which leads to treatment non adherence and sexual or marital disharmony. Yet, it is often neglected and unexplored in routine clinical care.

High prevalence of multiple co-existing sexual dysfunctions was noted in the study sample. The most common being low sexual desire, low intercourse satisfaction, followed by low overall satisfaction, erectile dysfunction and orgasmic function.

Socio demographic, pattern, type and amount of alcohol use, and clinical factors did not correlated with degree, prevalence of sexual dysfunction. Late onset alcohol use (more than



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**How to cite this article:** Devaramani S, Kumar S, & Kumar P K (2017). Does Alcoholism Influence Sexual Functioning?. *International Journal of Indian Psychology,* Vol. 4, (4), DIP:18.01.145/20170404, DOI:10.25215/0404.145