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# Mini Review Article

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# A Study of Prevalence of Sexual Dysfunction in Patients Receiving Psychotropic Drugs

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# ABSTRACT

**Background:** Sexual dysfunction is the most common side effect associated with psychotropic drugs. It is a threat to patient's quality of life and a major reason for non –compliance. Psychotropic agents can impair the sexual response in different ways due to their neurobiological mode of action. Prevalence rates of sexual side effects are extraordinarily difficult to estimate due to a variety of factors, such as the effect of the disorder being treated, co morbid disorders and baseline sexual dysfunction.

**Objectives:** To study the association between sexual dysfunction and psychotropic drugs in patients using various psychotropic drugs like antidepressants, anti-psychotics, anti-cravings and anxiolytics.

**Methods:** A cross sectional study was done among 200 patients. A self-designed semi structured questionnaire consisting of socio demographic details, relevant psychiatric history and Psychotropic – Related Sexual dysfunction questionnaire (PR Sex DQ – SALSEX) was used. The obtained data was entered in MS excel and analysed using SPSS software

**Results:** Among 200 patients ,62.5% of males and 38.5% of females felt that their psychiatric medications were causing sexual side effects. Out of them 41.7% of men and 30.03 % of women.

**Conclusion:** The most relevant groups for impairment are antidepressants and antipsychotics due to the serotonin agonistic and anti – dopaminergic properties as well as the prolactin increasing characteristics. The treatment of psychiatric disorders should follow a comprehensive treatment plan that anticipates a likely sexual dysfunction at the initiation of treatment.

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# Introduction

Sexual dysfunction caused by psychotropic medications has become an increasingly important clinical topic. Only recently, we have acknowledged the extent to which many psychotropic medications, especially antidepressants, anti-psychotics, anticravings, anxiolytics cause sexual side effects [1].

Indeed, there is consistent evidence to suggest that a large number of psychiatric medications adversely affect one or more of the three phases of normal sexual response: desire, arousal and orgasm sexual dysfunction associated with psychotropic drugs is a menace to patient quality of life and a major reason for non- compliance [2]. Psychotropic agents can impair the sexual response in different ways due to their neurobiological mode of action [3]. Epidemiological studies and clinical studies show that often persons affected by depression, schizophrenia, substance abuse, anxiety can suffer from impairment of the sexual function [4]. Most of the antidepressants, anti-psychotics, anticraving drugs have adverse sexual side effects which may affect compliance and adherence to treatment. These clinical variables are often underestimated or not investigated in the course of follow -up of persons suffering from psychiatric disorders in treatment with psycho tropic medications.

# Aims and Objectives

To study the association between sexual dysfunction and various psychotropic drugs like anti-depressants, anti-psychotics, anticravings and anxiolytics.

# Methodology

# Inclusion Criteria

- Patients aged 18 to 50 years.
- Patients using antidepressants, anti-psychotics, anti-cravings, anxiolytics.
  Patients who gave informed consent.

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# **Exclusion Criteria**

- Patients not willing to participate in the study.
- Patients with known medical co morbidity.
- Pregnant and lactating woman.
- Patients with poor drug compliance.

#### **Study Tool**

• A self-designed, semi-structured questionnaire consisting of information about demographic data, information, sexual dysfunction is assessed by ICD10 criteria and grading of sexual dysfunction done by psychotropic related sexual dysfunction questionnaire (PR SEX DQ- SAL SEX)

Psychotrop	ic-Related Sexual Dysfunction Questionnaire. (PRSexDQ-SALSEX).
The following questions initiating treatment with	refer to the possible appearance of sexual dysfunction after psychotropic agents.
	type of change in your sexual activity (desire, excitation, erection since you began taking the treatment? $\Box$ NO
	ously reported this alteration or was it necessary to expressly questic he sexual dysfunction?
<ol> <li>Have you observed any dec 0 No problem</li> </ol>	crease in your desire for sexual activity or in your interest in sex?
1 Mild decrease. Som	newhat less interest.
2 Moderate decrease.	
3 Severe decrease. Al	most none or no interest.
2 Have you observed any dela	ay in ejaculation/orgasm?
0 No delay	
1 Mild delay or hardly	
2 Moderate delay or c	
	sometimes orgasm is not possible.
3 Have you observed that y relations?	ou are unable to ejaculate/or to have an orgasm once you begin sexu
0 None.	
1, - Sometimes: less that	in 25% of the time
2, - Often: 25-75% of th	
	lways: more than 75% of the time.
	difficult obtaining an erection or maintaining it once you have initiate
sexual activity? (vaginal lubric	
0 Never.	
1 Sometimes: less that	
2 Often: 25-75% of th	
	lways: more than 75% of the time. ed these changes in your sexual relations?
0 No sexual Dysfunct	
1 Well. No problem d	
	tion bothers him or her although he or she has not considered
	nent for this reason. It interferes with the couple's relationship.
	ction presents an important problem. He or she has considered
discontinuing treatment	t because of it or it seriously interferes with the couple's relationship.
TOTAL SCORE:	
MLD. 0-5 (with no item >1): MODERATE 6	3-10 (OR any item =2, with no item =3); SEVERE: 11-15 (OR any item =3)
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# **Data Analysis**

Data was composed and entered into Microsoft excel. It was analyzed using SPSS V20 by tests like chi-square and correlation. Results were expressed as means and frequencies. A P value of < 0.05 was indicated to be statistically significant.

#### Results

# Table 1: Socio Demographic Data

Sociodemographic Variables	Frequency	Percentage
Gender		
Male	122	61%
Female	78	39%
Age		
18-28	13	6.50%
29-38	84	42%

39-48	62	31%		
>48	41	20.5%		
Marital Status				
Married	135	67.5%		
Un Married	38	19%		
Others	27	13.5%		
Education				
illiterate	23	11.5%		
Primary	121	60.5%		
secondary	56	28%		

Table 1 Shows the distribution of socio demographic variables in the sample. It shows that the distribution of male is 61%, female 39 %. The age wise distribution was 6.5% in between 18-28 years, 42 % in between 29 - 38 years, 31% in between 39 -48 years and 20.5% above48 years while 67.5% were married and

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19% unmarried while 11.5% were illiterates, 60.5% had primary education, 28~% had secondary education.

Results		
Table 2: Sexual Dysf	unction Observed i	n Total Sample

Total sample	N (Number of Patients on Psychotropic Drugs with Sexual Dysfunction)	%
200	84	42

Table 2 shows the Distribution of Patients on Psychotropic Drugs with Sexual Dysfunction as 42 %

<b>Table 3: Severity of Sexual Dysfunction</b>					
Sexual Dysfunction Frequency Percentage					
Mild	51	61%			
Moderate	28	33%			
Severe	5	6%			

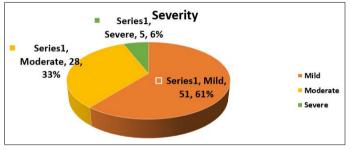


Figure 1

# Table 4: Number of Patients on Different Psychotropic Drugs

Psychotropic Used	N (Number of Patients on Different Psychotropic Drugs in the Total Sample)	
Anti-Psychotics	88	
Anti-Depressants	62	
Anti-Cravings	12	
Anxiolytics	38	

Table 4 shows the distribution of number of patients on different psychotropic drugs in the total sample. They are88 on anti-psychotics, 62 on antidepressants, 12 on anti-cravings, 38 were using anxiolytics

# Table 5: Percentage of Sexual Dysfunction with Psychotropic Drugs

Sexual Dysfunction	Frequency	Percentage
Anti-psychotics	34	41%
Anti-depressants	43	51%
Anti-cravings	2	2%
Anxiolytics	5	6%

Table 5 shows the distribution of frequency of percentage of sexual dysfunction with psychotropic drugs. 41 % with anti-psychotics, 51 % with anti-depressants, 2 % with anti-cravings, 6 % with anxiolytics.

# Table 6: Association of Sexual Dysfunction with Gender

Gender	Sexual Dysfunction (Yes)	Sexual Dysfunction (No)	Total	P-Value
Male Female	58(47.5%) 26(33.3%)	64(52.5%) 52(66.7%)	122 78	0.047
Total	84(42%)	116(58%)	200	

Table 6 shows that there is a significant association between sexual dysfunction and male gender that is 47.5 %.

Table 7: Association of Sexual Dysfunction with Age	Table 7:	Association	of Sexual	Dysfunction	with Age
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Age	Sexual Dysfunction (Yes)	Sexual Dysfunction (No)	Total	P-Value
18-28	2(15.5%)	11(84.7%)	13	
29-38	49(58.3%)	35(41.7%)	84	0.005
39-48	21(33.8%)	41(66.2%)	62	0.005
>48	12(29.2%)	29(70.5%)	41	

Table 7 shows that there is a significant association between sexual dysfunction and age group of 29 - 38 years with 58.3 %.

# Discussion

Data presented in this paper revealed a sexual dysfunction prevalence rate of approximately 42 %, regardless of gender, which was slightly more prevalent among males (61%) than that of females (39%).

This finding is lower when compared with the study conducted by Angel L Montejo with 62.4 % in males and 56.9 % in females with depression [5].

Whereas it is higher when compared with the study conducted by Angel L Montejo with50 % in the males and 37 % in the females. The possible reason might be differences in the study design and variance in socioeconomic characteristics of participants.

On the other hand, our findings show that sexual dysfunction is higher in the age group 29 to 38 with 42 % which is higher when compared with Mekonnen Tsehay study with 39 % in the age group of 25 to 34 [6].

The prevalence of sexual dysfunction is slightly higher in the patients using anti-depressants with 51 %than anti-psychotics with 41 % This is slightly different and lower when compared to the study conducted by Jisha M Lucca where itis 65 % with anti-psychotics and it is 30% with antidepressants [7].

According to study done by A L Montejo, the overall incidence of sexual dysfunction is 59.1 % when all the anti-depressants were considered as a whole [8].

With the above study we got the significant association between sexual dysfunction between age group and gender.

According to Rothmore sexual dysfunction was more among the antidepressants with selective serotonergic properties. According to study atypical anti psychotics has potential benefits and less sexual dysfunction when compared with conventional anti psychotics [9].

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# Conclusion

According to our study there is 42% prevalence of sexual dysfunction among patients using psychotropic drugs.

Current study has even highlighted sexual dysfunction with anticraving drugs as there are only few studies regarding this.

Clinicians must be aware of drug induced sexual dysfunction which is a major reason for poor drug compliance. Clinicians should evaluate sexual dysfunction and early treatment needed to be done.

# Limitation

#### Short duration of the study

Study did not include types of sexual dysfunction.

We have not divided into sub groups of separate categories of drugs causing sexual dysfunction

#### Conflicts of Interest: No

Type of Study: Cross-sectional study

**Study Setting:** Katuri Medical College and Hospital, Guntur, Andhra Pradesh.

Study Period: 6 Months (1st June to 31st November)

Sample Size: 200

Sampling Method: Convenience Sampling

Ethics Committee: Approval was taken from the ethical committee of the institute

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