Original Research Article

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Adherence of patients towards drugs and injections prescribed in a private medical institution in Chennai

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ABSTRACT

Background: The irrational use of drugs has become a potential health hazard in the modern days of medicine. Adherence to medication influences treatment outcome. Patient perceptions and education on medications are important determinants for a good adherence to prescribed drugs. Hence the present study intends to assess the knowledge and attitude of patients towards medications.

Methods: A cross sectional study was conducted in urban health training centre of a private medical college in Chennai from January 2017 to February 2017. Taking the prevalence of injection preference as 63% and a nonresponse rate of 10% the required sample size arrived as 125. After obtaining, written informed consent from the participants data was collected using a pretested semi structured questionnaire statistical analysis was done using statistical software SPSS version 21.

Results: Out of 125 participants 66.4% were females and the mean age of the study population was 43 years. 78.4% of the participants consult a doctor for medical advice, 58.4% of the patient demanded for injection. Knowledge of patients towards medications was good among highly educated participants which was statistically significant with a P value of 0.02.

Conclusions: The knowledge and attitude towards medication was poor in the present study which in turn led to poor adherence. Directing health education towards people would bring significant behavior changes and also policy makers should emphasize on the rational use of drugs by the patients.

Keywords: Attitude, Medication, Adherence

INTRODUCTION

The irrational use of drugs has become a potential health hazard in the modern days of medicine. According to the WHO 50% of all medicines are prescribed, dispensed, or sold inappropriately.¹

Prescription of medicine is the heart of clinical practice. Another important and most preferred procedure in clinical practice is injection with an estimated administration of 16 billion every year worldwide.² In

India curative injections are more popular than oral medications. Majority of patients tends to insist on injections when the self or oral medications fails to bring immediate relief. The prevalence of self-medication for minor ailments is also high worldwide which when goes unsupervised is a highly dangerous to the patients. Adherence to medication influences treatment outcome. Patient perceptions and education on medications are important determinants for a good adherence to prescribed drugs. Hence the present study intends to assess the knowledge and attitude of patients towards medications.

METHODS

The cross-sectional study was conducted in urban health training Centre of a private medical college in Chennai from January 2017 to February 2017. Taking the prevalence of injection preference as 63% and a non-response rate of 10% the required sample size arrived as 125.

The study included patients above 18 years of age attending urban health training centre OPD, patients who were seriously ill and not willing to participate were excluded from the study.

After obtaining written informed consent from the participants data was collected using a pretested semi structured questionnaire and information regarding sociodemographic factors like age, sex, education, occupation, patient's perception about medications were obtained.

Statistical analysis was done using statistical software SPSS version 21. Outcome variables were expressed as mean, proportions. Chi-square test was used to calculate the significance ≤0.05 was considered as significance.

RESULTS

Out of 125 participants 66.4% were females and the mean age of the study population was 43 years.36.8% of the participants had completed education up to primary and 51% belonged to the upper socioeconomic class.

Table 1: Socio demographic profile.

Variables	N	%
Age group (years)		
25	15	12.2
26-45	58	46.4
45-60	39	31.2
60 above	13	10.4
Sex		
Male	42	33.6
Female	83	66.4
Education		
Illiterate	25	20
Primary	46	36.8
High school	31	24.8
Secondary & above	23	18.4
SES		
Upper	64	51.2
Upper middle	21	16.8
Lower middle	17	13.6
Upper lower	14	11.2
Lower	9	7.2

Table 2 shows that 78.4% of the participants consult a doctor for medical advice and 84% of the patients would take the medicine as prescribed by doctors. 45.6% of the

participants got drugs from OTC, 44% of the patient use old prescription for similar complaint.

Table 2: Knowledge of patients towards medications and injections.

	Yes	%	No	%
Consult a doctor for medical advice	98	78.4	27	21.6
Drugs as prescribed by doctor	20	16	105	84
Aware of side effects of drugs	46	36.8	79	63.2
Stop drugs when develops side effects	69	55.2	56	44.8
Get drugs from OTC	57	45.6	68	54.4
Old prescription for similar complaints	55	44	70	56
Recommend for others for similar complaints	50	40	75	60

Table 3: Attitude of patient towards medications and injection.

	Yes	%	No	%
Prefer low cost medicine	77	61.6	48	38.4
Demanded for injection	73	58.4	52	41.6
Injection alone can cure disease	35	28	90	72
Injection more powerful than oral	90	72	25	20
Ready to pay more for injection	48	38.4	61	48.8
Prefer injection over tablet	49	39.2	70	56

Table 4: Knowledge and socio demographic factor.

Variables	Yes	No	Total	P value	
Age group (years)					
25	9	6	15		
26-45	25	33	58		
45-60	15	24	39	0.05	
60 above	3	10	13		
Sex					
Male	18	24	42	0.392	
Female	32	51	83	-	
Education		-			
Illiterate	9	16	25		
Primary	12	34	46	0.02	
High school	14	17	31		
Secondary & above	17	6	23		
SES					
Upper	26	38	64		
Upper middle	6	15	21	0.144	
Lower middle	6	11	17		
Upper lower	8	6	14	-	
Lower	6	3	9		

58.4% of the patient demanded for injection and 72% think injection is more powerful than oral drugs.

Knowledge of patients towards medications was good among highly educated participants when compared to those who had primary education and illiterates which was statistically significant with a p value of 0.02. Younger participants had a better knowledge on medication when compared to the elders and the difference was statistically significant (p=0.05).

DISCUSSION

The present cross-sectional study conducted in a private medical institute included 125 participants to assess the knowledge and attitude of patient towards medication showed poor attitude towards medications.

In the current study 78.4% of the participants told they would consult a doctor for medical advice whereas in a study conducted by Aishwarya et al 31% of the people would do the same.³ But 84% of participant would stop drugs once symptoms subside which is comparable to a study conducted by Rabbo et al where 70% discontinued the treatment once the symptoms subsided.⁴ This shows a poor adherence among the participants. Though the knowledge on medication was better among younger population and highly educated people only 36.8% of the patients are aware of the side effects of the prescribed drugs similar to a study by Rabbo et al where 26% are aware of the side effects of the drugs.⁴

Self-medication is a significant rising problem in the modern days of medicine which is evident in the present study where 45.6% told they would get drugs from OTC similar to a study Shankar et al where 58.1% followed self-medication.⁵ A study conducted by Kaushal showed a high prevalence of self-medication (70%).⁶ The lack of time and financial restrictions for frequent consultation would be the cause for the high prevalence of self-medication.

The attitude and knowledge towards injections was also poor among participants because 58.4% of the participants would demand for injections which is comparable to a study conducted by Shankar et al where 63% of the patient preferred injection. The preference of injection was high because rapid cure and cost effectiveness. A multidisciplinary approach must be used to promote rational use of medicine.

CONCLUSION

The knowledge and attitude towards medication was poor in the present study which in turn led to poor adherence. Also, the prevalence of self-medication was high which may put patients at risk of health-related problems. Directing health education towards people would bring significant behavior changes and also policy makers should emphasize on the rational use of drugs by the patients.

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Institutional Ethics Committee

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