ORIGINAL ARTICLE

A CROSS-SECTIONAL STUDY OF PATIENT'S SATISFACTION TOWARDS SERVICES RECEIVED AT TERTIARY CARE HOSPITAL ON OPD BASIS

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ABSTRACT

Objective: The main objective of the study is to measure the satisfaction of OPD patients in tertiary care hospital and to know the relationship between various determinants & OPD patient's satisfaction.

Materials and methods: The present cross sectional study was conducted among 450 patients attending the outpatient departments (OPDs) of Sassoon General Hospital Pune during 6 months period. Systemic random sampling was used for patient selection.

Results: Maximum number of patients i.e. 197(43.78%) were in the age group of 49 and above. About 61% patients were females. About cleanliness of waiting area 44.5% patients were found unsatisfied. About explanation of treatment by pharmacist 77% patients were satisfied. 91% patient said that OPD timings were convenient. 176 (39.12%) patients had to wait less than 30 min before consulting doctor. **Conclusion:** According to the patient's opinion, the study showed good satisfaction with respect to registration services, doctor services, nurse services, lab services and pharmacy staff services.

Keywords: Patient's satisfaction, OPD services, Tertiary care hospital.

INTRODUCTION

Patient satisfaction is one of the important goals of any health system, but it is difficult to measure the satisfaction and gauze responsiveness of health systems as not only the clinical but also the nonclinical outcomes of care do influence the customer satisfaction.¹

The health sector in India is characterized by a public health sector and private sector. The major reason for choosing the public health services is its inexpensiveness, availability with close proximity. However, effectiveness of health system depends upon quality of services which is largely neglected. Patients are using public health services but majority are not satisfied.Patient's satisfaction depends on many factors such as quality of clinical services provided, availability of medicine, behavior of doctor and other health staff, cost of services, infrastructure. physical emotional support and respect for patient preferences. Patient satisfaction is recognized as

an important parameter for assessing the quality of patient care services. ²

Keeping above points in mind, this study was planned in a tertiary care providing government hospital to know the various factors which affect patient satisfaction; there by to improve quality of care and patient satisfaction.

MATERIALS AND METHODS

The present cross sectional study was conducted among the patients attending the outpatient departments (OPDs) of Sassoon General Hospital Pune. The period of study was from June 2010 to November 2010.For this study we presumed maximum variability, hence we considered prevalence of patient satisfaction as 50%.We included 450 patients in this study. The institutional Ethical committee approved methodology and data collection procedure of the study. A patient attending the OPD and having age above 18 years was included in the

study after taking informed consent.Patient working in the health care facilityand patients with serious physical or mental pathologies, such as terminal disease and psychosis were excluded from the study. The patients attending the various OPDs were selected for the interview by systematic random sampling at the pharmacy counter. Every 3rd patient was selected for the interview. A predesigned and pretested proforma was used for data collection. Some statements regarding services of physical facilities, registration staff, doctor, nurse, pharmacy, and laboratory staff were asked to patients. Patients were asked to give ratings to these statements. Likert's 5 points rating scale was used. ³ .The rating was done as following-5= Stronglyagree, 4= Agree, 3= Neutral, 2= Disagree, 1= Stronglydisagree. On an average 20 minutes time was given for interview of each patient. The responses were expressed in proportions.

Analysis:

Data was entered in Microsoft Excel sheet and analyzed using the software SPSS version 17 and Open Epi version 2.3. Discrete data was analyzed using Pearson's Chi-square test for normal distribution, values<0.05 were considered significant.

RESULTS

The study included 450 patients attending various OPDs. Maximum number of patients i.e. 197(43.78%) were in the age group of 49 and above. About 61% patients were females. Demographic data consisting of marital status, socioeconomic status was collected. Patients were also inquired about the concerned department, type of visit .Whether it was first visit, follow up visit or referred from other hospital. [Table 1]

As shown in table 2 regarding cleanliness of waiting area 44.45% patients were found unsatisfied. About adequacy of sitting arrangement 51% patients were satisfied. Near about 6% patients replied that they were unsatisfied with friendliness and helpfulness of registration staff. Regarding examination and explanation received from doctor 92% patients were satisfied.

Patients who were strongly disagreed, disagreed with statement were considered as unsatisfied and rests were considered as satisfied.

Table 1: Socio-demographic characteristics of patients availing OPD health services (n=450)

Variable	Patients (%)
Age (In years)	· , ,
18-28	147(32.67)
29-38	61(13.55)
39-48	45(10)
<u>></u> 49	197(43.78)
Gender	
Male	177(39.33)
Female	273(60.67)
Marital status	
Never married	62 (13.78)
Married	388 (86.22)
Socioeconomic-status	
Upper(I)	12(2.67)
Upper middle(II)	40(8.89)
Lower middle(III)	107(23.78)
Upper lower(IV)	262(58.22)
Lower(V)	29(6.44)
Type of visit	
Follow up	175(38.89)
First	275(61.11)
Referred	169(37.56)
OPD visited	
Medicine & allied	194(43.11)
Surgery & allied	155 (34.44)
Obst. &Gynecology	101(22.45)

About friendliness and helpfulness of nurses 84% patients were found satisfied. When asked about explanation of treatment given by nurses only 20% were found unsatisfied. Maximum numbers of patients (88%) were satisfied regarding friendliness and helpfulness of Only15% laboratory staff. patients were unsatisfied with timeliness of reports from lab. About explanation of treatment by pharmacist 77% patients were satisfied.79.5% patients were satisfied with friendliness and helpfulness of pharmacy staff. When asked about reuse of this hospital services 52 % patients agreed.

91% patient said that OPD timings were convenient. 176 (39.12%) patients had to wait less than 30 min before consulting doctor. Large number of patients i.e. 174 (38.67%) could get drugs within 30 min. 58.22% patient could get more than 75% of drugs from pharmacy.

Table 2: Distribution of responses towards various OPD services (n=450)

Various services in hospital	in hospital Level of satisfaction (Likert's 5 point scale) (%)				(%)
•	5	4	3	2	1
Physical facilities					
Waiting area is clean	37 (8.22)	81 (18)	132 (29.33)	165 (36.67)	35 (7.78)
Waiting area has enough sitting arrangement	40 (8.89)	70 (15.55)	119 (26.44)	175 (38.9)	46 (10.22)
Registration Service					
Registration staff is friendly & helpful to you	42 (9.33)	214 (47.56)	166 (36.89)	23 (5.11)	5 (1.11)
Registration staff has good communication skill	39 (8.67)	232 (51.56)	132 (29.33)	41 (9.11)	6 (1.33)
Doctor Services					
You are satisfied with the examination you	81 (18)	255 (56.67)	79 (17.56)	28 (6.22)	7 (1.55)
received					
Doctor explained to you about your	94 (20.9)	258 (57.3)	69 (15.3)	21 (4.7)	8 (1.8)
illness/prognosis/time required for treatment					
Nurse's service (N=256)*					
Nurse is friendly & helpful to you	27 (10.5)	84 (32.82)	105 (41)	34 (13.28)	6 (2.35)
Nurses explain the treatment clearly	34 (13.3)	95 (37.11)	77 (30.07)	42 (16.41)	8 (3.13)
Laboratory Staff Service(N=275)*					
People collecting samples /doing procedures are	37 (13.5)	117 (42.55)	89 (32.37)	28 (10.18)	4 (1.45)
friendly & helpful to you					
Tests results received on time as told to you by	36 (13.1)	136 (49.46)	61 (22.18)	28 (10.18)	14 (5.09)
the lab					
Pharmacy service					
Pharmacist explained about the treatment	46 (10.2)	159 (35.33)	143 (31.78)	84 (18.67)	18 (4)
clearly.					
Pharmacist is friendly & helpful to you	41 (9.1)	171 (38)	146 (32.4)	76 (16.9)	16 (3.6)
Quality of services					
You would recommend the services of this hospit	80 (17.8)	203 (45.11)	110 (24.45)	42 (9.33)	15 (3.33)
friends/relatives					
In future, if you feel unwell, you will return to	80 (17.8)	237 (52.67)	79 (17.55)	37 (8.22)	17 (3.78)
this hospital for services					

5=Strongly agree ; 4= Agree; 3=Neutral; 2= Disagree; `1= Strongly disagree.(Figures in parenthesis are showing row wise percentages).

Table 3: Distribution of responses (n=450)

Variable	Patients (%)
OPD timings convenient	409(90.89)
Waiting before consulting doctor	
Less than 30 min	176(39.12)
30min-1 hr	160(35.56)
≥1hr	114(25.32)
Waiting for getting drugs	
Less than 30 min	174(38.67)
30min-1 hr	150(33.33)
≥1hr	126(28)
% of Drugs available at pharmacy	
76-100	262(58.22)
51-75	120(26.67)
26-50	41(9.11)
<u><</u> 25	27(6)
Total satisfaction	
Satisfied	229(50.89)
Unsatisfied	221(49.11)

As shown in table patients were classified as satisfied and unsatisfied with reference to all

facilities .The mean of total score was 43.Those securing equal and more than mean were labeled as satisfied ;similarly those securing less than mean were classified as unsatisfied. It was noticed that total satisfaction with OPD services was 50.89%. [Table 3]

Cross tables were made and test of significance were applied to various determinant. It showed statistical significant association of total patient satisfaction with gender, socioeconomic status, waiting time before consulting the doctor, waiting time before getting the drugs and % of availability drugs.

Females were found more satisfied than males. Patients from lower socioeconomic status were more satisfied as compared to upper class. Patient who waited more than 30 min were found highly unsatisfied. Patients who said that <75 % drugs are available were found more unsatisfied. [Table 4]

^{*} Out of 450 patients only 256 patients utilized nurse's services and 275 utilized laboratory services.

Table 4: Association between various determinants and total satisfaction (n=450)

Various	Satisfied	Unsatisfied	p-				
determinants	(n=229)	(221)	Value				
Age	, ,	, ,					
18-28	87(37.99)	60(27.15)	0.379				
29-38	24(10.48)	37(16.74)					
39-48	25(10.92)	20(9.05)					
>49	93(40.61)	104(47.06)					
_ Gender	, ,	, ,					
Male	75(32.75)	102(46.15)	0.005				
Female	154(67.25)	119(53.85)					
Marital status							
Never married	27(11.79)	32(14.48)	0.48				
Married	202(88.21)	189(85.52)					
Socioeconomic status							
Upper(I)	2(0.87)	10(4.52)	0.04				
Upper middle(II)	17(7.42)	23(10.41)					
Lower middle(III)	60(26.20)	47(21.27)					
Upper lower(IV)	141(61.57)	121(54.75)					
Lower(V)	9(3.94)	20(9.05)					
Type of visit							
First	134(58.52)	141(63.80)	0.294				
Follow up	95(41.48)	80(36.2)					
Waiting time befo	re consulti	ng doctor					
Less than 30 min	96(41.92)	80(36.2)	0.001				
30min-1 hr	80(34.93)	80(36.2)					
<u>></u> 1hr	53(23.15)	61(27.6)					
Waiting for gettin	g drugs						
Less than 30 min	103(44.98)	71(32.13)	0.007				
30min-1 hr	72(31.44)	78(35.29)					
<u>></u> 1hr	54(23.58)	72(32.58)					
% of Drugs available at pharmacy							
76-100	156(68.12)	106(47.96)	< 0.001				
51-75	48(20.96)						
26-50	17(7.42)	24(10.86)					
<u><</u> 25	8(3.5)	19(8.6)					

*Chi-square test was applied between various determinants and total patient satisfaction (df =1)

(Figures in the parenthesis are showing column wise percentage)

DISCUSSION

The health care system is basically a service based industry and customer experiences and satisfaction is of the utmost importance just as in other services-oriented systems. It becomes an important indirect marketing tool as it has direct impact on improving the quality of the 'product' i.e. health service.

Sassoon general hospital being one of the largest tertiary health care hospital of the western

region of Maharashtra attracts large number of patients in its OPDs.55.55% patients replied that they were satisfied with cleanliness of waiting area. In a similar study by AnjumJaved 90.5% patients were satisfied with cleanliness of hospital 6.In another study done by PralhadRai et al also found 65% satisfied patients with respect to cleanliness. 7 This could be due to limited class IV employee in this hospital. They are overburdened. About sitting arrangement 49% patients were unsatisfied. This finding was consistent with study done by AnjumJaved 6.

94% patients were satisfied with friendliness and helpfulness of registration staff. This finding is in contrast to study conducted by Md. Ziaul Islam and Md. Abdul Jabbar. They found only 25% patients were satisfied with friendliness and helpfulness of registration staff. 8 In another study by TalluruSreenivas, G. Prasad only 13% patients were satisfied. 9

With regard to explanation given by doctor about their illness/prognosis/time required for treatment only 6.5% patients were unsatisfied. This is consistent with the findings of Prasanna K.S. etal.They found only 3% patients unsatisfied. ¹⁰Within short span of time doctors had to examine large number of paitients.Inspite of this near about 93% patients were found satisfied with various services provided by doctors as shown in table 2.

176 (39.12%) patients had to wait less than 30 min before consulting doctor.RanjeetaKumari et al found similar results .In their study patient who waited less than 30 min were 37%. Where as in an another study conducted by Prasanna KS et al showed that 20% patient waited less than 30 min. Mac cross sectional study conducted by Md. Ziaul Islam and Md. Abdul Jabbar showed similar results. 8

Large number of patients i.e. 174 (38.66%) could get drugs within 30 min. This finding is consistent with the study conducted by Prasanna K.S. et al. This study showed that 50% of patient had to wait less than 30 min for drugs.

Table 3 shows that 58.22% patient could get more than 75% of drugs from pharmacy. Another study conducted by Talluru Sreenivas et al showed that only 20% patient could get all prescribed drugs. ⁹It was noticed that total satisfaction with OPD services was 50.89%. This result is consistent with the study conducted by Chetwynd S.J. In his study total satisfaction was

49 %. ¹²This finding is not consistent with the study conducted by Ranjeeta Kumari et al. In their study total satisfaction was 73 %. ¹¹Asma Ibrahim et al showed 10% overall satisfaction in their study. ¹³

There was a statistically significant association between waiting time before consulting the doctor and total satisfaction. (p-value =0.001) Patients are already in pain or sufferings .Naturally they want to visit doctor as early as possible to get relieved from the sufferings. After consulting doctor patients wants to take treatment as early as possible so that they get relieved from sufferings. They wish to get drugs as early as possible. Patients who wait for longer time naturally had less satisfaction level. Patients who said that availability of drugs was 75-100% were found more satisfied i.e.68.12% as compared to those who procured less drugs. Hence availability of drugs in the hospital is essential factor for patient satisfaction. It can be interpreted from the data that patient satisfaction varies in different health facilities and circumstances. This variation may be due to difference in quality of services provided or difference in expectation of the patient.

CONCLUSION

According to the patient's opinion, the study showed good satisfaction with respect to registration services, doctorservices, nurseservices, lab services and pharmacy staff services. About cleanliness of waiting area and adequacy of sitting arrangement large numbers of patients were found unsatisfied.

Study showed statistical significant association of total patient satisfaction with gender, socioeconomic status, waiting time before consulting the doctor, waiting time before getting the drugs and % of availability drugs.

RECOMMENDATIONS

This study identified some of areas which can be improved in order to improve the patient care and quality of care. Low satisfaction was found with cleanliness in the hospital. Hospital authority should take action to improve cleanliness in the hospital. Waiting time before consulting doctor was one of the important factors affecting patient satisfaction. It can be reduced by starting appointment system at least for nonemergency cases. Waiting time for

getting the drugs was one of the important determinant of patient satisfaction. It can be reduced by introducing token system at the pharmacy counter. Availability of drugs was one of the important factor determining patient satisfaction. Therefore the drug policy should be revised quarterly in the year and most prescribed drugs in OPDs should be made available. Patient satisfaction assessment should be conducted regularly every 6 months. In the OPDs complaint and suggestion box should be kept, so that patients can freely put their complaints and suggestions for improvement in services provided in this hospital.

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