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ORIGINAL ARTICLE



A Study on Patient Perceptions towards Service Quality of Teaching Hospitals: With Special Reference to Central Gujarat Region

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ABSTRACT

The aim of this research was to study the level of satisfaction in hospital with regards to demographic factors like Age, Gender, education, etc. The teaching hospitals were chosen for conducting the research because most of the studies on service quality in the hospital/healthcare sector were conducted in private/commercial hospital. So, there was a need to analyze the perception of patients toward teaching hospitals. All the patients who are admitted for more than two days in Surgery and Medicine ward between July 2020 and September, 2020. The sampling method used for this study is stratified random sampling. From historical data it was found that average IPD admissions in selected ward as per inclusion criteria of the study is 72 admissions. Thus, the calculated sample size based on following formula was 60. It was found that There is significant difference found out between satisfaction of patients related with daily round of Doctors of medicine ward and surgery ward. People from surgery ward are less satisfied with round of Doctors'. In Nursing Care There is significant difference found out between satisfaction of patients related with handling problem of patients and Keeping Privacy of Patient of male and female and females are less satisfied with this attribute.

Keywords: Central Gujarat, Hospital Qual, Patient Satisfaction, Teaching Hospitals

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INTRODUCTION

Patient Satisfaction can be understood as fulfillment or meeting of expectations of patients from healthcare services. When a patient comes to a hospital, he has a pre-set image of the various aspects of the hospital as per the reputation and cost involved. Although their main expectation is getting cured and going back to their work, there are other factors that affect their satisfaction [1-3]. Sometimes they might have rated a hospital very low on the basis of information they have got from different sources, but they find it above their expectation, and they are satisfied. Similarly, if they have got a very high expectation from a hospital, but if they find it below their expectation, they will not be satisfied [10].

The objective of the study was to study the level of satisfaction in hospital with respect to demographic factors like Age, Gender, education. Among the selected wards of teaching hospitals.

MATERIAL AND METHODS

Research Design:

The research design is descriptive in the present study

Sampling:

Population:

All the patients who are admitted for more than two days in Surgery and Medicine ward between July 2020 and September, 2020. The sampling method used for this study is stratified random sampling. From historical data it was found that average IPD admissions in selected ward as per inclusion criteria of the study is 72 admissions. Thus, the calculated sample size based on following formula is 60.

Sample Size =
$$\frac{\frac{z^2 \times p(1-p)}{e^2}}{1 + (\frac{z^2 \times p(1-p)}{e^2 N})}$$

Where,

N = Population Size i.e., 72 for this study, e = Margin of error i.e., 5% in this study, z = z-score i.e., 1.96 at 95% confidence interval for this study. Response from total 60 participants (30 in medicine and 30 in surgery) was collected as sample.

RESULTS AND DISCUSSION

Analysis of Satisfaction Level for Doctors' Care for Patients

The Null Hypothesis (H_0) for the same is "There is no significant difference in satisfaction level (related with overall Doctors" care and nine attributes of Doctors" care) between male and female patients."

Table: 1: Mann-Whitney Test Analysis for Doctors' care with respect to Gender

Attributes	Gender	N	P Value* (2 Tail)
	Male	35	
Investigation done by Doctor	Female	25	.039
	Total	60	
	Male	35	
Time spent by Doctors'	Female	25	-
	Total	60	
	Male	35	
Explanation of treatment & its effectiveness	Female	25	.493
	Total	60	
Allow patients to ask questions and responding	Male	35	
questions of patients	Female	25	.290
questions of putients	Total	60	
The courtesy and respect (friendliness, kindness)	Male	35	
shown	Female	25	
Shown	Total	60	
	Male	35	
Doctor Availability at Odd Hours	Female	25	.987
	Total	60	
	Male	35	
The daily rounds of Doctors'	Female	25	.174
	Total	60	
	Male	35	
Availability of Doctors' when called	Female	25	.850
	Total	60	
	Male	35	
The privacy of patients maintained	Female	25	.305
	Total	60	
	Male	35	
Overall Satisfaction (Median) for Doctors' care	Female	25	
	Total	60	

From above table, it is observed that P Value is significant (less than 0.05) only in case of one attribute i.e. investigation done by Doctors'. Hence, we reject the null hypothesis. In other eight attributes, P Value is not significant and hence null hypothesis is failed to reject. Even P Value is not significant in Overall Satisfaction (Median) for Doctors' care.

Table 2: Mann-Whitney Test Analysis for Doctors' care with respect to Wards

Table 2: Mann-Whitney Test Analysis for Doctors' care	ct to we	P Value*	
Attributes	Gender	N	(2 Tail)
	Surgery	30	
Investigation done by Doctors'	Medicine	30	.083
-	Total	60	
	Surgery	30	
Time spend by Doctors'	Medicine	30	.083
	Total	60	
	Surgery	30	
Explanation of treatment & its effectiveness	Medicine	30	.698
	Total	60	
Allow notice to calcaventions and responding acceptions of	Surgery	30	
Allow patients to ask questions and responding questions of	Medicine	30	.552
patients	Total	60	
	Surgery	30	
The courtesy and respect (friendliness, kindness) shown	Medicine	30	.552
	Total	60	
	Surgery	30	
Doctor Availability at Odd Hours	Medicine	30	1.000
	Total	60	
	Surgery	30	
The daily rounds of Doctors'	Medicine	30	.002
	Total	60	
	Surgery	30	
Availability of Doctors' when called	Medicine	30	.858
	Total	60	
	Surgery	30	
The privacy of patients maintained	Medicine	30	.464
	Total	60	
	Surgery	30	
Overall Satisfaction (Median) for Doctors' care	Medicine	30	.410
	Total	60	

From above table, it is observed that P Value is significant (less than 0.05) only in case of one attribute i.e., Daily round by Doctors'. Hence, we reject the null hypothesis. In other eight attributes, P Value is not significant and hence null hypothesis is failed to reject. Even P Value is not significant in Overall Satisfaction (Median) for Doctors' care.

KRUSKAL WALLIS TEST FOR COMPARING SATISFACTION AMONG PATIENTS OF DIFFERENT AGE GROUP

The Null Hypothesis (H₀) for the same is "There is no significant difference in satisfaction level (related with overall Doctors" care and nine attributes of Doctors" care) between patients of different age group."

Table 3: Kruskal Wallis Test analysis of Doctors' care with respect to Age

Attributes	Age	N	P Value* (2 Tail)
	18-35	16	
Investigation done by Doctors'	36-50	20	.575
	51-65	24	
	Total	60	
	18-35	16	
Time and the Darkers'	36-50	20	.148
Time spend by Doctors'	51-65	24	
	Total	60	
	18-35	16	
	36-50	20	.264
Explanation of treatment & its effectiveness	51-65	24	
	Total	60	
	18-35	16	
Allow motion to poly greations and responding greations of motion to	36-50	20	.906
Allow patients to ask questions and responding questions of patients	51-65	24	
		60	
The courtesy and respect (friendliness, kindness) shown	18-35	16	.937

	36-50	20	
	51-65	24	
	Total	60	
	18-35	16	
Doctor Availability at Odd Hours	36-50	20	.197
, and the second	51-65	24	
	Total	60	
	18-35	16	
mi i i i cr	36-50	20	.982
The daily rounds of Doctors'	51-65	24	
	Total	60	
	18-35	16	
A :11:1: CD	36-50	20	.348
Availability of Doctors' when called	51-65	24	
	Total	60	
	18-35	16	
	36-50	20	.406
The privacy of patients maintained	51-65	24	
	Total	60	
	18-35	16	
Occupil Cationation (Madieux) for Dantour's	36-50	20	.261
Overall Satisfaction (Median) for Doctors' care	51-65	24	
	Total	60	

From above table, it is observed that P Value is not significant in any of the attribute and Overall Satisfaction (Median) for Doctors' care and hence null hypothesis is failed to reject in all nine attributes and Overall Satisfaction (Median) for Doctors' care.

Analysis of Satisfaction Level for Nursing Care

The Null Hypothesis (H0) for the same is "There is no significant difference in satisfaction level (related with nursing care and its eleven attributes) between male and female patients."

Table 4: Mann-Whitney Test Analysis for Nursing care with respect to Gender

Attributes	Gender	N	P Value* (2 Tail)	
	Male	35	.004	
Skills and Competency	Female	25	.004	
	Total	60		
	Male	35	.975	
Time spent with patients	Female	25	.973	
	Total	60		
	Male	35	.772	
Answering questions of patients	Female	25	.//2	
	Total	60		
	Male	35	.030	
Handling problem of patients	Female	25	.030	
	Total	60		
	Male	35	.427	
Nurses observe the promised time	Female	25	.427	
	Total	60		
	Male	35	.007	
Keeping Privacy of Patient	Female	25	.007	
	Total	60		
	Male	35	.102	
Friendliness and courtesy and personalized attention	Female	25	.102	
	Total	60		
	Male	35	.852	
Availability of Nurses when needed	Female	25	.032	
	Total	60		
Availability of Nurses in odd hours	Male	35	.550	
Fe		25	.550	

	Total	60	
	Male	35	.485
Timely administration of medication	Female	25	.403
	Total	60	
	Male	35	.625
Information regarding your daily progress	Female	25	.023
	Total	60	
	Male	35	.495
Overall Satisfaction (Median) with Nursing Care	Female	25	.493
	Total	60	

From above table, it is observed that P Value is significant (less than 0.05) in case of two attributes i.e handling problem of patients and Keeping Privacy of Patient. Hence, null hypothesis is rejected for the same. P Value is not significant for other nine attributes and hence null hypothesis is failed to reject. P Value of Overall Satisfaction (Median) for nursing care is also not significant and hence null hypothesis is failed to reject in case of overall satisfaction too.

Table 5: Mann-Whitney Test Analysis for Nursing care with respect to Wards

Attributes	Ward	N	P Value* (2 Tail)
	Surgery	30	000
Skills and Competency	Medicine	30	.000
	Total	60	
	Surgery	30	005
Time spent with patients	Medicine	30	.895
	Total	60	
	Surgery	30	000
Answering questions of patients	Medicine	30	.000
	Total	60	
	Surgery	30	000
Handling problem of patients	Medicine	30	.000
-	Total	60	
	Surgery	30	000
Nurses observe the promised time	Medicine	30	.000
·	Total	60	
	Surgery	30	1.000
Keeping Privacy Of Patient	Medicine	30	1.000
	Total	60	
	Surgery	30	000
Friendliness and courtesy and personalized attention	Medicine	30	.000
, .	Total	60	
	Surgery	30	000
Availability of Nurses when needed	Medicine	30	.000
-	Total	60	
	Surgery	30	200
Availability of Nurses in odd hours	Medicine	30	.299
Ť	Total	60	
Timely administration of medication	Surgery	30	1.000
	Medicine	30	1.000
	Total	60	
	Surgery	30	
Information regarding your daily progress	Medicine	30	.560
3 37 71 8	Total	60	
	Surgery	30	2=2
Overall Satisfaction (Median) with Nursing Care	Medicine	30	.279
	Total	60	

From above table, it is observed that P Value is significant (less than 0.05) in case of following attributes. Skills and Competency, answering questions of patients, Handling problem of patients, Nurses observe the promised time, Friendliness and courtesy and personalized attention, Availability of Nurses when needed. Hence, null hypothesis is rejected for the same. P Value is not significant for other five attributes and hence null hypothesis is failed to reject. P Value of Overall Satisfaction (Median) for nursing care is also significant and hence null hypothesis is rejected in case of overall satisfaction too.

Table 5: Kruskal Wallis Test analysis of Nursing care with respect to Age

Attributes	care with resp	N	P Value*
Attributes	Age	IN	(2 Tail)
	18-35	16	
Skills and Competency	36-50	20	.119
Skills and competency	51-65	24	.119
	Total	60	
	18-35	16	
m:	36-50 20	2.45	
Time spent with patients	51-65	24	.345
	Total	60	
	18-35	16	
	36-50	20	1.60
Answering questions of patients	51-65	24	.463
	Total	60	
	18-35	16	
	36-50	20	
Handling problem of patients	51-65	24	.113
	Total	60	
	18-35	16	
	36-50	20	
Nurses observe the promised time	51-65	24	.465
	Total	60	
	18-35	16	
	36-50	20	
Keeping Privacy of Patient	51-65	24	.037
		60	
	Total 18-35	16	
Friendliness and courtesy and personalized attention	36-50 51-65	20	.053
		24	
	Total	60	
	18-35	16	
Availability of Nurses when needed	36-50	20	.057
•	51-65	24	
	Total	60	
	18-35	16	
Availability of Nurses in odd hours	36-50	20	.120
Transfer of transcom out nout	51-65	24	
	Total	60	
	18-35	16	
Timely administration of medication	36-50	20	.731
innery deministration of incurcation	51-65	24	., 51
	Total	60	
	18-35	16	
Information regarding your daily progress	36-50	20	.001
miormation regarding your daily progress	51-65	24	.001
	Total	60	
	18-35	16	
	36-50	20	177
Overall Satisfaction (Median) with Nursing Care	51-65	24	.177
	Total	60	

From above table, it is observed that P Value is significant (less than 0.05) in case of two attributes i.e.Information regarding your daily progress and Keeping Privacy of Patient. Hence, null hypothesis is rejected for the same. P Value is not significant for other nine attributes and hence null hypothesis is failed to reject. P Value of Overall Satisfaction (Median) for nursing care is also not significant and hence null hypothesis is failed to reject in case of overall satisfaction too.

There is significant difference found out between satisfaction of patients related with daily round of Doctors of medicine ward and surgery ward. People from surgery ward are less satisfied with round of Doctors. There is significant difference found out between satisfaction of patients related with handling problem of patients and Keeping Privacy of Patient of male and female. females are less satisfied with this attribute.

There is significant difference found out between satisfaction of patients related with following between medicine ward and surgery ward.

Skills and Competency, answering questions of patients, Handling problem of patients, Nurses observe the promised time, Friendliness and courtesy and personalized attention, Availability of Nurses when needed, Patients from surgery ward are less satisfied, Age and Education level affect the satisfaction related with privacy of the patients kept by nurses.

RECOMMENDATIONS

- 1. There is need to do further investigation about availability of Doctorsin surgery wards. Written schedule should be prepared about rounds in surgery ward in coordination with Doctors for regular round in the wards.
- 2. Nurses should be trained and informed to improve their problem-solving skills and maintain privacy of patients, specifically when they are dealing with female patients.
- 3. There is need to improve supply of nurses in surgery department and need for proper training to existing nurses over there to improve:
- 4. Skills and Competency
- 5. Answering skills of questions of patients
- 6. Handling problem of patients
- 7. Friendliness and courtesy and personalized attention
- 8. Ward Boys and Ayaben are strictly observed and trained to modify and improve their behavior with the patients.
- 9. Written schedule of cleaning of different wards and corridor should be prepared and implemented to improve sanitation and cleanliness.

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