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THE IMPACT OF HOSPITAL ACCREDITATION ON THE PATIENTS SATISFACTION OF OUT-PATIENT DEPARTMENT SERVICES

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ABSTRACT

Patient satisfaction is considered a way of measuring the quality of services provided for improvement. Objectives: To study the impact of National Accreditation Board for Hospitals & Healthcare Providers (NABH) Accreditation, India on Out-Patient Department Service patient satisfaction. Methods: It is a quantitative, descriptive and inferential research based case study in which sample of a population was studied by structured satisfaction survey questionnaires (before and after the accreditation) in a private tertiary care hospital at Secunderabad, Telangana State, India to determine its characteristics, and it is then inferred that the population has the same or different characteristics. Significance of Research: It was observed initially before the accreditation that there was a lower patient satisfaction rate of the hospital Out-Patient Department Services, which was affecting the study hospitals' business. Hypothesis: Null Hypothesis (Ho) and Alternative Hypothesis (H1) were used and tested to compare the before and after impact of accreditation by applying to each question in the questionnaire. Study Design: The closed ended questionnaire was developed considering the Out-Patient Department Services by incorporating the six dimensions of quality Safe, Timely, Effective, Efficient, Equitable, and Patient-centred (STEEP) and tested prior to implementing. Questionnaires were given to the patients' families for completion upon using the Out-Patient Department Services two months before and two months after the accreditation. The data were collected in order to cover all three shifts of the Out-Patient Department Services. Study Population: Simple random sampling method was selected, the researcher had involved all conscious patients (clinical conditions) from all age groups. Data Collections: Primary data were collected from the survey questionnaires. Secondary data were collected from relevant published journals, articles, research papers, academic literature and web portals. Conclusion: The chisquare test performed at the 5 % level of significance indicates that, there is



a significant difference between groups of patients participating before and after accreditation and their satisfaction levels of overall experience with OPD (p<0.001). The satisfaction score has improved from before accreditation compared to after accreditation which indicated that the accreditation has a positive impact on the satisfaction of Out-Patient Department Services of the study hospital.

Key words: Patient Satisfaction, National Accreditation Board for Hospitals & Healthcare Providers (NABH) Accreditation, Out-Patient Department Services

INTRODUCTION

Quality has become a fundamental requirement for all healthcare organizations in order to survive and succeed in this competitive, demanding and challenging healthcare service industry. Today, developed and developing nations are working towards continuous quality improvement and patient safety by achieving the national and or international healthcare accreditation and providing safe, effective, patient-centred, timely, efficient and equitable health care services to all their patients, families and caretakers. Accreditation of a health care organization is an external evaluation of the level of compliance against a set of organizational standards. Healthcare accreditation standards are advocated as an important means of improving structure, process and outcome. ⁱ

REVIEW OF LITERATURE

The increased international focus on improving patient outcomes, safety and quality of care has led stakeholders, policy makers and health care provider organizations adopt standardized processes for measuring health care systems. Patient satisfaction has become a key criterion by which the quality of health care services is evaluated. The literature emphasizes that patients who are satisfied with the provision of health care tend to be more compliant to their treatment plan, maintain their follow up visits; and are more willing to recommend the hospital to others.ⁱⁱⁱThe literature emphasizes that hospital accreditation and patient satisfaction are both considered important quality indicators of health care provided,^{ivito} find out any shortages, to provide the necessary interventions, and as a valuable source of strategic planning of healthservices.^v

DATA ANALYSIS

Group	Frequency	Percentage
Before Accreditation	500	50
After Accreditation	500	50
Total	1000	100

Table1. Patient participation before and after accreditation

Table 1 depicts that there were 500 patients participated before accreditation and 500 patients participated after accreditation. There is no improvement in the participation of patients after accreditation.

						Chi-square
Group			Age			test statistic,
	<17 yrs	17-25 yrs	25-55 yrs	55-65 yrs	>65 yrs	p-value
Before	51	128	149	118	54	
Accreditation						0.916,
After	48	132	139	128	53	0.922
Accreditation						
Total	99	260	288	246	107	

Table2.Group and age distribution



 H_0 : There is no significant difference between age and the participation of patients before and after accreditation.

 H_1 : There is a significant difference between age and the participation of patients before and after accreditation.

Table 2 depicts that the chi-square test performed at the 5 % level of significance indicates that, there is no significant difference between age and the participation of patients before and after accreditation (p-value>0.05). Hence H_0 is accepted and H_1 is rejected.

Table3. Group and gender distribution

Group	Ger	Chi-square Test	
	Male	Female	statistic, p-value
Before Accreditation	228	272	1 (0)
After Accreditation	248	252	1.604,
Total	476	524	0.200

Hypothesis:

H₀: There is no significant difference between gender and the participation of patients before and after accreditation.

H₁: There is a significant difference between gender and the participation of patients before and after accreditation.

Table 3 depicts that the chi-square test performed at the 5 % level of significance indicates that, there is no significant difference between gender and the participation of patients before and after accreditation (p-value>0.05). Hence H_0 is accepted and H_1 is rejected.

Table4. Group and geographical states (in India) distribution

Group	Geograph	Chi-square Test	
	Same State	Other States	statistic, p-value
Before Accreditation	295	205	0.066
After Accreditation	299	201	0.797
Total	594	406	

Hypothesis:

H₀: There is no significant difference between geographical states and the participation of patients before and after accreditation.

H₁: There is a significant difference between geographical states and the participation of patients before and after accreditation.

Table 4 depicts that the chi-square test performed at the 5 % level of significance indicates that, there is no significant difference between geographical states and the participation of patients before and after accreditation (p>0.05). Hence H₀ is accepted and H₁ is rejected.

Table 5. Group and language distribution

Group	Lang	Chi-square Test	
	Telugu Non Telugu		statistic,
			p-value
Before Accreditation	315	185	
After Accreditation	311	189	0.068,
Total	626	374	0.749



H₀: There is no significant difference between language and the participation of patients before and after accreditation.

 H_1 : There is a significant difference between language and the participation of patients before and after accreditation.

Table 5 depicts that the chi-square test performed at the 5 % level of significance indicates that, there is no significant difference between language and the participation of patients before and after accreditation (p>0.05). Hence H₀ is accepted and H₁ is rejected.

Table 6. Group and visit of patients before and after accreditation

Group	Vi	Chi-square Test	
	First	Second	statistic, p-value
Before Accreditation	360	140	0.123,
After Accreditation	355	145	0.726
Total	715	285	

Hypothesis:

H₀: There is no significant difference between first and second visits of patients and their participation before and after accreditation.

H₁: There is a significant difference between first and second visits of patients and their participation before and after accreditation.

Table 6 depicts that the chi-square test performed at the 5 % level of significance indicates that, there is no significant difference between first and second visits of patients and the participation before and after accreditation (p>0.05). Hence H₀ is accepted and H₁ is rejected.

Table7.Group and type of visit distribution

		Type of visit	Chi-square Test	
Group	In Patients	Out	Emergency	statistic,
		Patients	Department	p-value
Before Accreditation	302	0	198	
After Accreditation	0	322	178	6.251,
Total	302	322	376	0.000

Hypothesis:

H₀: There is no significant difference between the type of visit and the participation of patients before and after accreditation.

 H_1 : There is a significant difference between the type of visit and the participation of patients before and after accreditation.

Table 7 depicts that the chi-square test performed at the 5 % level of significance indicates that, there is a significant difference between the type of visit and the participation of patients before and after accreditation (p<0.001). Hence H₀ is rejected and H₁ is accepted.

Table8.Type of payment and group of patients

	Type of payment			Chi-square Test
Group	Cash	Insurance	Government	statistic, p-value
Before Accreditation	195	285	20	
After Accreditation	175	305	20	1.759,
Total	370	590	40	0.415

Hypothesis:

H₀: There is no significant difference between type of payment and the participation of patients before and after accreditation.



H₁: There is a significant difference between type of payment and the participation of patients before and after accreditation.

Table 8 depicts that the chi-square test performed at the 5 % level of significance indicates that, there is no significant difference between type of payment and the participation of patients before and after accreditation (p>0.05). Hence H₀ is accepted and H₁ is rejected.

Table9. Responses on parking facilities of the patient participating before and after accreditation

Group		Chi-				
	Highly	Dissatisfied	Neither	Satisfied	Highly	square
	Dissatisfied		satisfied nor		Satisfied	Test
			dissatisfied			Statistic,
						p-value
Before	68	81	34	162	155	
Accreditation						1.175,
After	10	18	15	255	202	
Accreditation						0.000
Total	78	99	49	417	357	

Hypothesis:

H₀: There is no significant difference between group of patients participating before and after accreditation and their satisfaction levels of parking facilities.

H₁: There is a significant difference between group of patients participating before and after accreditation and their satisfaction levels of parking facilities.

Table 9 depicts that the chi-square test performed at the 5 % level of significance indicates that, there is a significant difference between groups of patients participating before and after accreditation and their satisfaction levels of parking facilities (p<0.001). H₀ is rejected and H₁ is accepted.

Table10. Responses on staff's willingness to help the patient participating before and after accreditation

	Willingness of staff to help					
Group	Highly Dissatisfied	Dissatisfied	Neither satisfied nor dissatisfied	Satisfied	Highly Satisfied	square Test Statistic, p-value
Before	77	95	30	159	139	
Accreditation						1.346,
After	12	18	18	246	206	0.000
Accreditation						
Total	89	113	48	405	345	

Hypothesis:

 H_0 : There is no significant difference between groups of patients participating before and after accreditation and their satisfaction levels on staff's willingness to help them.

 H_1 : There is a significant difference between groups of patients participating before and after accreditation and their satisfaction levels on staff's willingness to help them.

Table 10 depicts that the chi-square test performed at the 5 % level of significance indicates that, there is a significant difference between groups of patients participating before and after accreditation and their satisfaction levels on staff's willingness to help them (p<0.001). H_0 is rejected and H_1 is accepted.



Table11. Satisfaction level in a registration process with the patient participating before and after accreditation

			Chi-			
	Highly	Dissatisfied	Neither	Satisfied	Highly	square
Group	Dissatisfied		satisfied nor		Satisfied	Test
			dissatisfied			Statistic,
						p-value
Before	71	91	25	152	161	
Accreditation						1.158,
After	10	24	12	210	244	0.000
Accreditation						
Total	81	115	37	362	405	

Hypothesis:

H₀: There is no significant difference between groups of patients participating before and after accreditation and their satisfaction levels in the registration process.

 H_1 : There is a significant difference between groups of patients participating before and after accreditation and their satisfaction levels in the registration process.

Table 11 depicts that the chi-square test performed at the 5 % level of significance indicates that, there is a significant difference between groups of patients participating before and after accreditation and their satisfaction levels in the registration process. H_0 is rejected and H_1 is accepted.

Table12.Satisfaction level of courtesy of staff with the patient participating before and after accreditation

		Chi-				
	Highly	Dissatisfied	Neither	Satisfied	Highly	square
Group	Dissatisfied		satisfied nor		Satisfied	Test
			dissatisfied			Statistic,
						p-value
Before	72	91	41	158	138	
Accreditation						1.446,
After	17	10	17	221	235	0.000
Accreditation						
Total	89	101	58	379	373	

Hypothesis:

 H_0 : There is no significant difference between groups of patients participating before and after accreditation and their satisfaction levels on courtesy of the staff at the reception.

 H_1 : There is a significant difference between groups of patients participating before and after accreditation and their satisfaction levels on courtesy of the staff at the reception.

Table 12 depicts that the chi-square test performed at the 5 % level of significance indicates that, there is a significant difference between groups of patients participating before and after accreditation and their satisfaction levels on courtesy of the staff at the reception (p<0.001). H_0 is rejected and H_1 is accepted.

Table13.Satisfaction level on waiting time of appointment with a physician with the patient participating before and after accreditation

		W	aiting time			Chi-
Group	Highly	Dissatisfied	Neither	Satisfied	Highly	square
	Dissatisfied		satisfied		Satisfied	Test
			nor			Statistic,
			dissatisfied			p-value
Before	58	81	30	184	147	



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Accreditation						83.472,
After	8	27	21	235	209	0.000
Accreditation						
Total	66	108	51	419	356	

Hypothesis:

 H_0 : There is no significant difference between groups of patients participating before and after accreditation and their satisfaction levels on waiting time.

 H_1 : There is a significant difference between groups of patients participating before and after accreditation and their satisfaction levels on waiting time.

Table 13 depicts that the chi-square test performed at the 5 % level of significance indicates that, there is a significant difference between groups of patients participating before and after accreditation and their satisfaction levels on waiting time of appointment with a physician (p<0.001). H_0 is rejected and H_1 is accepted.

Table14.Satisfaction level on informing the delay in treatment to patients participating before and after accreditation

		Informing th	ne delay in treat	tment		Chi-
	Highly	Dissatisfied	Neither	Satisfied	Highly	square
Group	Dissatisfied		satisfied nor		Satisfied	Test
			dissatisfied			Statistic,
						p-value
Before	68	83	27	178	144	
Accreditation						1.066,
After	17	15	12	251	205	0.000
Accreditation						
Total	85	98	39	429	349	

Hypothesis:

 H_0 : There is no significant difference between groups of patients participating before and after accreditation and their satisfaction levels on informing the delay in treatment.

 H_1 : There is a significant difference between groups of patients participating before and after accreditation and their satisfaction levels on informing the delay in treatment.

Table 14 depicts that the chi-square test performed at the 5 % level of significance indicates that, there is a significant difference between groups of patients participating before and after accreditation and their satisfaction levels on informing the delay in treatment (p<0.001). H₀ is rejected and H₁ is accepted.

Table 15.Satisfaction level of choice in appointment time given to patients participating before and after accreditation

		Choice in	appointment ti	me		Chi-
	Highly	Dissatisfied	Neither	Satisfied	Highly	square
Group	Dissatisfied		satisfied nor		Satisfied	Test
			dissatisfied			Statistic,
						p-value
Before	81	78	26	172	143	
Accreditation						1.088,
After	16	18	15	260	191	0.000
Accreditation						
Total	97	96	41	432	334	



 H_0 : There is no significant difference between groups of patients participating before and after accreditation and their satisfaction levels of choice in the appointment time.

 H_1 : There is a significant difference between groups of patients participating before and after accreditation and their satisfaction levels of choice in the appointment time.

Table 15 depicts that the chi-square test performed at the 5 % level of significance indicates that, there is a significant difference between groups of patients participating before and after accreditation and their satisfaction levels of choice in appointment time (p<0.001). H_0 is rejected and H_1 is accepted.

Table16.Satisfaction level of choice of service as per the needs of patients participating before and after accreditation

		Cho	ice of service			Chi-
	Highly	Dissatisfied	Neither	Satisfied	Highly	square
Group	Dissatisfied		satisfied nor		Satisfied	Test
			dissatisfied			Statistic,
						p-value
Before	65	72	38	180	145	
Accreditation						1.006,
After	16	14	15	260	195	0.000
Accreditation						
Total	81	86	53	440	340	

Hypothesis:

 H_0 : There is no significant difference between groups of patients participating before and after accreditation and their satisfaction levels on choice of service.

 H_1 : There is a significant difference between groups of patients participating before and after accreditation and their satisfaction levels on choice of service.

Table 16 depicts that the chi-square test performed at the 5 % level of significance indicates that, there is a significant difference between groups of patients participating before and after accreditation and their satisfaction levels on the choice of service provided as per the need of patients and their family (p<0.001). H₀ is rejected and H₁ is accepted.

Table17.Satisfaction	level in	designing	of	consultation	for	patient	participating	before	and	after
accreditation										

		Designir	ng of consultation	on		Chi-
Group	Highly Dissatisfied	Dissatisfied	Neither satisfied nor dissatisfied	Satisfied	Highly Satisfied	square Test Statistic, p-value
Before	61	85	27	170	157	
Accreditation						86.993,
After	19	19	15	249	198	0.000
Accreditation						
Total	80	104	42	419	355	

Hypothesis:

 H_0 : There is no significant difference between groups of patients participating before and after accreditation and their satisfaction levels in designing of consultation.

 H_1 : There is a significant difference between groups of patients participating before and after accreditation and their satisfaction levels in designing of consultation.

Table 17 depicts that the chi-square test performed at the 5 % level of significance indicates that, there is a significant difference between groups of patients participating before and after accreditation and their satisfaction levels in designing of consultation (p<0.001). H₀ is rejected and H₁ is accepted.

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Table 18.Satisfaction level of overall assistance provided by nurses for patient participating before and after accreditation

		Over	all assistance			Chi-
	Highly	Dissatisfied	Neither	Satisfied	Highly	square
Group	Dissatisfied		satisfied nor		Satisfied	Test
			dissatisfied			Statistic,
						p-value
Before	67	87	31	164	151	
Accreditation						1.051,
After	15	20	19	268	178	0.000
Accreditation						
Total	82	107	50	432	329	

Hypothesis:

 H_0 : There is no significant difference between groups of patients participating before and after accreditation and their satisfaction levels of overall assistance provided by nurses.

H₁: There is a significant difference between groups of patients participating before and after accreditation and their satisfaction levels of overall assistance provided by nurses.

Table 18 depicts that the chi-square test performed at the 5 % level of significance indicates that, there is a significant difference between groups of patients participating before and after accreditation and their satisfaction levels of overall assistance provided by nurses (p<0.001). H_0 is rejected and H_1 is accepted.

Table19.Satisfaction level on healthcare advice provided by a physician for patient participating before and after accreditation

		Heal	thcare advice			Chi-
Group	Highly Dissatisfied	Dissatisfied	Neither satisfied nor dissatisfied	Satisfied	Highly Satisfied	square Test Statistic, p-value
Before	67	86	30	170	147	
Accreditation						1.094,
After	13	17	18	246	206	0.000
Accreditation						
Total	80	103	48	416	353	

Hypothesis:

 H_0 : There is no significant difference between groups of patients participating before and after accreditation and their satisfaction levels on healthcare advice provided by a physician.

 H_1 : There is a significant difference between groups of patients participating before and after accreditation and their satisfaction levels on healthcare advice provided by a physician.

Table 19 depicts that the chi-square test performed at the 5 % level of significance indicates that, there is a significant difference between groups of patients participating before and after accreditation and their satisfaction levels on healthcare advice provided by a physician (p<0.001). H_0 is rejected and H_1 is accepted.

Table 20.Satisfaction level of explanation of test result given by a healthcare provider for patient participating before and after accreditation

		Chi-square				
	Highly	Dissatisfied	Neither	Satisfied	Highly	Test Statistic,
Group	Dissatisfied		satisfied nor		Satisfied	p-value
-			dissatisfied			_
Before	63	77	26	176	158	

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Accreditation						91.826,
After	11	24	11	210	244	0.000
Accreditation						
Total	74	101	37	386	402	

 H_0 : There is no significant difference between groups of patients participating before and after accreditation and their satisfaction levels on explanation of test result given by healthcare provider.

H₁: There is a significant difference between groups of patients participating before and after accreditation and their satisfaction levels on explanation of test result given by healthcare provider. Table 20 depicts that the chi-square test performed at the 5 % level of significance indicates that, there is a significant difference between groups of patients participating before and after accreditation and their satisfaction levels on explanation of test result given by healthcare provider.

rejected and H_1 is accepted.

Table21.Satisfaction level of treatment received by patients participating before and after accreditation

		Treatr	ment received			Chi-
	Highly	Dissatisfied	Neither	Satisfied	Highly	square
Group	Dissatisfied		satisfied		Satisfied	Test
			nor			Statistic,
			dissatisfied			p-value
Before	67	92	26	177	138	
Accreditation						1.257,
After	12	15	17	221	235	0.000
Accreditation						
Total	79	107	43	398	373	

Hypothesis:

H₀: There is no significant difference between groups of patients participating before and after accreditation and their satisfaction levels of treatment received.

 H_1 : There is a significant difference between groups of patients participating before and after accreditation and their satisfaction levels of treatment received.

Table 21 depicts that the chi-square test performed at the 5 % level of significance indicates that, there is a significant difference between groups of patients participating before and after accreditation and their satisfaction levels of treatment received (p<0.001). H₀ is rejected and H₁ is accepted.

Table22.Satisfaction level of printed information provided to the patient participating before and after accreditation

	Printed information						
Group	Highly Dissatisfied	Dissatisfied	Neither satisfied nor dissatisfied	Satisfied	Highly Satisfied	square Test Statistic, p-value	
Before	77	80	32	166	145		
Accreditation						1.147,	
After	14	20	16	205	245	0.000	
Accreditation							
Total	91	100	48	371	390		

Hypothesis:



 H_0 : There is no significant difference between groups of patients participating before and after accreditation and their satisfaction levels of printed information.

H₁: There is a significant difference between groups of patients participating before and after accreditation and their satisfaction levels of printed information.

Table 22 depicts that the chi-square test performed at the 5 % level of significance indicates that, there is a significant difference between groups of patients participating before and after accreditation and their satisfaction levels of printed information provided to them (p<0.001). H_0 is rejected and H_1 is accepted.

Table 23.Satisfaction level on healthcare provider's dissemination of information about the benefits and the risk of surgery to patients participating before and after accreditation

		Risl	k of surgery			Chi-
	Highly	Dissatisfied	Neither	Satisfied	Highly	square
Group	Dissatisfied		satisfied		Satisfied	Test
			nor			Statistic,
			dissatisfied			p-value
Before	66	87	27	171	149	
Accreditation						1.099,
After	16	14	14 18 216 236			
Accreditation						
Total	82	101	45	387	385	

Hypothesis:

H₀: There is no significant difference between groups of patients participating before and after accreditation and their satisfaction levels on knowing the risk of surgery.

 H_1 : There is a significant difference between groups of patients participating before and after accreditation and their satisfaction levels on knowing the risk of surgery.

Table 23 depicts that the chi-square test performed at the 5 % level of significance indicates that, there is a significant difference between groups of patients participating before and after accreditation and their satisfaction levels on knowing the risk of surgery (p<0.001). H₀ is rejected and H₁ is accepted.

Table 24.Satisfaction level of the information given on diet restriction to patient participating before and after accreditation

		Die	t restriction			Chi-
Group	Highly Dissatisfied	Dissatisfied	Neither satisfied nor dissatisfied	Satisfied	Highly Satisfied	square Test Statistic, p-value
Before	60	85	31	171	153	
Accreditation						93.994,
After	15	20	16	215	234	0.000
Accreditation						
Total	75	105	47	386	387	

Hypothesis:

H₀: There is no significant difference between groups of patients participating before and after accreditation and their satisfaction levels of information given on diet restriction.

 H_1 : There is a significant difference between groups of patients participating before and after accreditation and their satisfaction levels of information given on diet restriction.



Table 24 depicts that the chi-square test performed at the 5 % level of significance indicates that, there is a significant difference between groups of patients participating before and after accreditation and their satisfaction levels of information given on diet restriction (p<0.001). H₀ is rejected and H₁ is accepted.

Table25.Satisfaction level for the confidence of a healthcare provider to patient participating before and after accreditation

		Confidence o	f healthcare pr	ovider		Chi-
Group	Highly Dissatisfied	Dissatisfied	Neither satisfied nor dissatisfied	Satisfied	Highly Satisfied	square Test Statistic, p-value
Before	68	81	24	191	136	
Accreditation						1.145,
After	17	12	15	215	241	0.000
Accreditation						
Total	85	93	39	406	377	

Hypothesis:

 H_0 : There is no significant difference between groups of patients participating before and after accreditation and their satisfaction levels of confidence of healthcare provider.

 H_1 : There is a significant difference between groups of patients participating before and after accreditation and their satisfaction levels of confidence of healthcare provider.

Table 25 depicts that the chi-square test performed at the 5 % level of significance indicates that, there is a significant difference between groups of patients participating before and after accreditation and their satisfaction levels of confidence of healthcare provider treating the patient during the consultation visit (p<0.001). H_0 is rejected and H_1 is accepted.

Table26.Satisfaction level of privacy given to patients participating before and after accreditation

		Chi-				
Group	Highly Dissatisfied	Dissatisfied	Neither satisfied nor dissatisfied	Satisfied	Highly Satisfied	square Test Statistic, p-value
Before	76	85	23	168	148	
Accreditation						1.258,
After	13	12	21	221	233	0.000
Accreditation						
Total	89	97	44	389	381	

Hypothesis:

 H_0 : There is no significant difference between groups of patients participating before and after accreditation and their satisfaction levels on privacy given to them.

 H_1 : There is a significant difference between groups of patients participating before and after accreditation and their satisfaction levels on privacy given to them.

Table 26 depicts that the chi-square test performed at the 5 % level of significance indicates that, there is a significant difference between groups of patients participating before and after accreditation and their satisfaction levels on privacy given to them (p<0.001). H_0 is rejected and H_1 is accepted.



Table27.Satisfaction	level	of	compassion	given	in	the	outpatient	department	to	patients
participating before a	and aft	er a	ccreditation							

	Compassion given in the outpatient department					
Group	Highly Dissatisfied	Dissatisfied	Neither satisfied nor dissatisfied	Satisfied	Highly Satisfied	square Test Statistic, p-value
Before	76	85	23	168	148	
Accreditation						1.083,
After	15	20	18	204	243	0.000
Accreditation						
Total	91	105	41	372	391	

H₀: There is no significant difference between groups of patients participating before and after accreditation and their satisfaction levels on compassion given in the outpatient department.

 H_1 : There is a significant difference between groups of patients participating before and after accreditation and their satisfaction levels on compassion given in the outpatient department.

Table 27 depicts that the chi-square test performed at the 5 % level of significance indicates that, there is a significant difference between groups of patients participating before and after accreditation and their satisfaction levels on compassion given in the outpatient department (p<0.001). H_0 is rejected and H_1 is accepted.

Table28.Satisfaction level of cleanliness and safety of the environment provided to patients participating before and after accreditation

		C	leanliness			Chi-
Group	Highly Dissatisfied	Dissatisfied	Neither satisfied nor dissatisfied	Satisfied	Highly Satisfied	square Test Statistic, p-value
Before	71	78	26	182	143	
Accreditation						86.155,
After	20	20	16	223	221	0.000
Accreditation						
Total	91	98	42	405	364	

Hypothesis:

 H_0 : There is no significant difference between groups of patients participating before and after accreditation and their satisfaction levels on cleanliness and safety of the environment.

 H_1 : There is a significant difference between groups of patients participating before and after accreditation and their satisfaction levels on cleanliness and safety of the environment.

Table 28 depicts that the chi-square test performed at the 5 % level of significance indicates that, there is a significant difference between groups of patients participating before and after accreditation and their satisfaction levels on cleanliness and safety of the environment (p<0.001). H_0 is rejected and H_1 is accepted.



Table29.Satisfaction level of the process laid down by the hospital in the outpation	ent department to
patients participating before and after accreditation	

	Process in OPD					
Group	Highly Dissatisfied	Dissatisfied	Neither satisfied nor dissatisfied	Satisfied	Highly Satisfied	square Test Statistic, p-value
Before	68	79	37	182	134	
Accreditation						1.386,
After	9	15	9	236	231	0.000
Accreditation						
Total	77	94	46	418	365	

 H_0 : There is no significant difference between groups of patients participating before and after accreditation and their satisfaction levels on process laid down by the hospital in the outpatient department.

 H_1 : There is a significant difference between groups of patients participating before and after accreditation and their satisfaction levels on process laid down by the hospital in the outpatient department.

Table 29 depicts that the chi-square test performed at the 5 % level of significance indicates that, there is a significant difference between groups of patients participating before and after accreditation and their satisfaction levels on process laid down by the hospital in the outpatient department (p<0.001). H_0 is rejected and H_1 is accepted.

Table 30.Satisfaction level of overall experience with OPD of patient participating before and after accreditation

		Overall ex	perience with (OPD		Chi-
Group	Highly Dissatisfied	Dissatisfied	Neither satisfied nor dissatisfied	Satisfied	Highly Satisfied	square Test Statistic, p-value
Before	55	81	35	178	151	
Accreditation						1.092,
After	12	12	15	240	221	0.000
Accreditation						
Total	67	93	50	418	372	

Hypothesis:

 H_0 : There is no significant difference between groups of patients participating before and after accreditation and their satisfaction levels of overall experience with OPD.

H₁: There is a significant difference between groups of patients participating before and after accreditation and their satisfaction levels of overall experience with OPD.

Table 30 depicts that the chi-square test performed at the 5 % level of significance indicates that, there is a significant difference between groups of patients participating before and after accreditation and their satisfaction levels of overall experience with OPD (p<0.001). H₀ is rejected and H₁ is accepted. **CONCLUSION**

The chi-square test performed at the 5 % level of significance indicates that, there is a significant difference between groups of patients participating before and after accreditation and their satisfaction levels of overall experience with OPD (p<0.001). The satisfaction score has improved from



before accreditation compared to after accreditation which indicated that the accreditation has a positive impact on the satisfaction of Out-Patient Department Services of the study hospital.

LIMITATIONS OF THE STUDY: This study is limited to the Out-Patient Department Services of the study hospital and for a limited duration (before two months and after two months of accreditation) only.

DIRECTIONS FOR FUTURE RESEARCH: In future such research should be conducted to study the impact of national and international accreditations on the other services of the hospitals over a large period of time.

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IMPLICATIONS OF THE FINDINGS: The accreditation has a positive impact on the satisfaction of Out-Patient Department Services of the study hospital.

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