Factors Associated with Patient Satisfaction in Outpatient Department

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Background

Patient satisfaction is an important and direct indicator of quality of health care which is essential for providers to fill their gaps. Outpatient care is made up of medical procedures, tests, and services that can be provided to the patient in a setting that doesn't involve an overnight hospital stay. When patients visit health care facilities, they express a clear desire for high-quality services. The aim of this study is to investigate factors associated with patient satisfaction in adult outpatient department.

Methods

Cross-sectional study design with a total sample of 200 patients was conducted from Auguest to October 2022. All patients who visited the outpatient departments of the chosen health centers were considered the source population, and all patients who visited the outpatient departments during the study period were the study population. Data were collected structured validated questionnaire. Data analysis was conducted with SPSS version 20 to identify predictor variables, applying bivariate and

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multivariate logistic regression analysis to determine variables that most significantly predicted the outcome variable of the level of patient-satisfaction at 5% level of significance and 95% confidence interval.

Results

There were 200 participants in the study. the present study display the relation between participants' sociodemographic characteristics and total level of satisfaction. There is highly statistical significant with age, gender, educational level and monthly income. While no statistical significant with social status. Also, the outpatient service characteristics and perceptions of study participants. Nearly (45%) of respondents reported the outpatient department they visited was convenient to ask questions. Related to privecy (88%) of them reported that their privacy at the out-patient department was maintained. Inrelation to dialogue with outpatient service providers, the study participants declared to have had a good dialogue with outpatient service providers were (65%). Regarding, politeness (73%) of respondents described outpatient service providers were polite during service provision. The overall patient satisfaction rate of the study were (22%) very satisfied, (35%) satisfied, (21%) neutral, (15%) dissatisfied and (7%) very dissatisfied.

Conclusion

The study's results revealed that the outpatient service characteristics and perceptions of study participants were low of respondents with convenient to ask questions. While, high percentage reported that their privacy at the out-patient department was maintained. Also, Related to dialogue with outpatient service providers, the study participants declared to have had a good dialogue with outpatient service providers. Related to politeness of outpatient service providers who served the respondents were high. The overall patient satisfaction rate of the study were good.

Introduction

The health care system has changed over time with a shift from being a traditional concept of noble profession toward a customer-oriented service industry ⁽¹⁾. This has resulted in a challenge for the healthcare industry in delivering high quality of health care services; safe, equitable, evidence based, timely, efficient, and patient centered services ⁽²⁾. Patient satisfaction is, "a measure of the extent to which a patient is content with the health care which they received from their health care provider" ⁽³⁾.Patient satisfaction is straightforward with the whole healthcare system, and it is also the measurement ofhealthcare system responsiveness^(4, 5). However, it is challenging to find an agreedupon definition, patient satisfaction is a measure of the level of healthcare satisfied they receive from their providers^(6, 7). Patient satisfaction is a result of their expectations and experience

after obtaining servicefromhealthcareproviders (8,9).

Furthermore, it is expressed through an affective reaction concerning the difference between what the patients expect and what they obtain^(10, 11). With this, if the patients obtained low or weak service than their expectations, then they will be dissatisfied. In other words, if the received service is in line with or outside patients' expectations, this will result in patients to be satisfied^(12, 13). Since healthcare organizations are operating in an increasingly competitive environment, patient satisfaction is a crucial indicator of the market share influenced by the healthcare service provider⁽¹⁴⁾. Patient satisfaction and the performance of healthcare providers are often interconnected events⁽¹⁵⁾. Consequently, measuring patient satisfaction can help to improve and maintain the quality of service provision⁽¹⁶⁾.

Additionally, the measurement and knowing about patient satisfaction are vital to the providerstoknolwtheirperformance status, and it is also important tool for examining and predicting patient expectations⁽¹⁷⁾. Furthermore, nowadayspatient satisfaction measurement is combined with hospitalmanagementstrategiestomonitor quality patient care processes^(18, 19). It is also the direct measurement of organizational strengths and performance of the provision of the services⁽²⁰⁾. Patient satisfaction maintains healthcare organizations' image, which inturntranslated into improved serviceuse and market share⁽²¹⁾. Studies found that patient satisfaction haspositive and directeffecton patient trust^(16, 22). This trust can positively affect patients' perception of their healthcare providers' knowledge and skillof treatment. On the other hand, this patients' perception will likely influence their confidence in healthcare providers' reliability and expertise⁽²²⁾.

Satisfied patients explained their primary healthcare professional as showing authentic interest in their health care problems, able to provide clear explanation of the disease andfuture health fates, gave them adequately opportunities to discuss health as well as how the disease affected their day to day life^(17, 23). Moreover, satisfied patients were more likely to follow to the appointed dates and the treatment provided by the service providers. In addition to this, they will be motivated to reuse the service of providers and refer this service to other patients ^(9, 24). Patient satisfaction isone of the indicators of the quality of care. Its evaluation will aid in the improvement of health care services and delivery based on patient feedback⁽²⁵⁾. Therefore, this study aim to to investigate factors associated with patient satisfaction in adult outpatient department.

MaterialsandMethods

Cross-sectional study design with a total sample of 200 patients was conducted from Auguest to October 2022. All patients who visited the outpatient departments of the chosen health centers were

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considered the source population, and all patients who visited the outpatient departments outpatient department at health centers in Saudi Arabia during the study period were the study population. Data were collected structured validated questionnaire. Data analysis was conducted with SPSS version 20 to identify predictor variables, applying bivariate and multivariate logistic regression analysis to determine variables that most significantly predicted the outcome variable of the level of patient-satisfaction at 5% level of significance and 95% confidence interval.

Ethical approval was obtained from the Institutional Review Board (IRB) at KSUMC, reference. The data collection sheet was strictly observed to ensure participants' confidentiality throughout the study using the anonymous unique serial number for each subject. Furthermore, the analysis was encrypted and carried out anonymously. Data collection by using a structured questionnaire. All participants provided a written informed consent after their clinic visits. The purposes of the study were explained to participants. Those who agreed to participate were asked to complete the questionnaire.

Results

Table (1) Study participants' Sociodemographic Characteristics. (N= 200)

Totalof200

patientsparticipatedinthisstudy. Table(1) shows the sociodemographic characteristics of the study participants. More than third (38%) of study participants have age between 38-47 years. Most of the patients were femals (65%), married (43%). With regards to educational level, study participants had obtained school education (33%). The majority of the payment status (81%) and had a monthly income 5000 – less than 10000 SAR (33%).

Inaddition, about (72%) of respondents were visited the health centers more than one times.

Table (1) Study participants' Sociodemographic Characteristics. (N= 200)

	N	%				
Age:	<u>, </u>					
18-27yrs	32	16				
28-37yrs	44	22				
38-47yrs	76	38				
47+yrs	48	24				
Gender:						
Male	70	35				

	N	%
Female	130	65
Social status:		ı
Single	46	23
Married	86	43
Widowed	44	22
Divorced	24	12
Educational level:		
Illiterate	18	9
Read and write	52	26
School education	66	33
Post-secondary diploma	24	12
University education or higher	40	20
Monthly income:	I	
Less than 5000 SAR	38	19
5000 – less than 10000 SAR	66	33
10,000 less than 15,000 SAR	42	21
More than 15,000 SAR	54	27
Payment status	I	
Paying	38	19
Free	162	81
Frequency of visit		
First	56	28
Repeated	144	72
		1

Table (2) Resources spent and time taken to arrive at the health centers by respondents

Totalof 200 patientsparticipated in this study. Table (2) shows the resources spent and time taken to arrive at the health centers by study participants. concerning time taken to arrive at the health centers were (68%) of study participants reported that the time taken was 31-60 minutes. According to length of stay in the HCs for outpatient service users were 57% of study participants stated that the length of stay was 2-6 hours. Whereas, respondents' rating of length of stay in the HCs reported that very long and long were (32%, 29%) respectively. Regarding respondents' rating of the amount of money paid for services in the HCs stated that expensive and fair were (40%, 34%) respectively.

Table (2)Resources spent and time taken to arrive at the health centers by respondents

	N	0/0						
Time taken to arrive at the health centers (in minutes)								
< 15	18	9						
15-30	46	23						
31-60	136	68						
Length of stay in the HCs for o	outpatient service	users (in hours)						
< 1hr	22	11						
1-2hrs	64	32						
2-6hrs	114	57						
Respondents' rating of length of	of stay in the HCs							
Very long	64	32						
Long	58	29						
Fair	24	12						
Short	32	16						
Very short	22	11						
Respondents' rating of the amount of money paid for services in the HCs								
Very cheap	8	4						
Cheap	44	22						
Fair	68	34						
Expensive	80	40						

Table (3) Outpatient service characteristics and perceptions of study participants.

Table3showedtheoutpatient service characteristics and perceptions of study participants. Nearly (45%) of respondents reported the outpatient department they visited was convenient to ask questions. Out of all respondents, (88%) of them reported that their privacyat the out-patient department was maintained. Related to dialogue with outpatient service providers, the study participants declared to have had a good dialogue with outpatient service providers were (65%). The scale (politely, neutral, impolitely) was used to assess the degree of politeness of outpatient service providers who served the respondents. Thus, (73%) of respondents described outpatient service providers were polite during service provision.

Among the total study participants, (76%) and (66%) reported to have got all ordered laboratory tests and drugs from the health centers, respectively. Exactly (92%) and (72%) of the respondents wish the health center for their future visit and would like to recommend to visit the health center to their friends or relatives, respectively. The overall patient satisfaction rate of the study were(22%) very satisfied, (35%) satisfied, (21%) neutral, (15%) dissatisfied and (7%) very dissatisfied.

Table (3)Outpatient service characteristics and perceptions of study participants.

	N	%
Variables		
The environment was convenient to ask qu	uestions	
Yes	90	45
No	110	55
Patient's privacy was maintained in the ou	itpatient department	
Yes	176	88
No	24	12
Had good dialogue with outpatient service	provider	
Yes	130	65
No	70	35
Politeness of outpatient service providers		
Polite	144	72
Neutral	36	18
Impolite	20	10
Have got all ordered diagnostic or laborate	ory tests from the health center	
Yes	134	67
No	48	24
Not ordered	18	9
Have got all ordered drugs from the health	h center	
Yes	132	66
No	68	34
Wish the health center for future visit		
Yes	184	92
No	16	8
Would like to recommend this health cent	er for a friend or relative	
Yes	144	72
No	56	28
General Satisfaction with outpatient service	ces	1
Very satisfied	44	22
Satisfied	70	35
Neutral	42	21

	N	%
Dissatisfied	30	15
Very dissatisfied	14	7

Table (4) Factors associated with patient satisfaction and perceptions of study participants.

Table 4 displayed factors associated with patient satisfaction. This study discovered that there is highly satistical significant related to factors associated with patient satisfaction Among the satisfaction about nurses' services related to treat patients with courtesy and respect and listen to patient carefullywere found to be high (73.8% and 85%) respectively. The score was for the explanation of the medical conditions by the nurses (64.6%). While, Patients' satisfaction about doctors' services have slightly higher levels of satisfaction by their patients related to treat patients with courtesy and respect and listen to patient carefully (79.2% and 85.4%) respectively, and the same addressed issue of explaining the medical condition was reported by study participants. The score was for the explanation of the medical conditions by the doctors (73.4%).

In relation to, patients' satisfaction about cleanliness, noise, privacy and difficulty moving. The results indicated high levels of satisfaction about the rooms were kept clean (89.8%) followed by easy to move around the hospital (74%), while privacy and the area is quiet at night were (62% and 52.6%) respectively. According to patients' satisfaction about explanation of drug-related information. This study revealed that about medications, explaining their purposes, and side effects found those factors as the most satisfying upon all other factors were (86.4% and 85%).

Table (4) Factors associated with patient satisfaction and perceptions of study participants.

							% of	Chi-Square		
		Strongly agree	Agree	Neutral	Disagree	Strongly disagree	agreement	\mathbf{X}^2	P- value	
Patients' satisfa	Patients' satisfaction about nurses' services.									
1. Nurses treat	N	70	40	64	10	16				
you with courtesy and respect	%	35.00%	20.00%	32.00%	5.00%	8.00%	73.8	73.800	0.000	
2. Nurses	N	106	60	20	6	8	85	183.400	0.000	

							% of	Chi-Square	
		Strongly agree	Agree	Neutral	Neutral Disagree Strongly disagree		agreement	\mathbf{X}^2	P- value
listen to you	%	53.00%	30.00%	10.00%	3.00%	4.00%			
carefully	70	33.0070	30.0070	10.0070	3.0070	4.0070			
3. Nurses	N	50	38	32	68	12			
explain things									
in a way you	%	25.00%	19.00%	16.00%	34.00%	6.00%	64.6	43.400	0.000
could	70	23.0070	17.0070	10.0070	34.0070	0.0070			
understand									
Patients' satisfac	ction	about doc	tors' serv	rices					
4. Doctors	N	68	84	24	20	4			
treat you with							79.2	116.800	0.000
courtesy and	%	34.00%	42.00%	12.00%	% 10.00%	2.00%	19.2	110.800	0.000
respect									
5. Doctors	N	110	50	26	12	2			
listen to you	%	55.00%	25.00%	13.00%	6.00%	1.00%	85.4	185.600	0.000
carefully	70	33.00%	23.00%	13.00%	0.00%	1.00%			
6. Doctors	N	72	50	26	44	8			
explain things									0.000
in a way you	%	36.00%	25.00%	13.00%	22.00%	4.00%	73.4	59.000	
could	/0	30.0070	23.0070	13.00%	22.0070	J% 4.00%			
understand									
Patients' satisfa	ction	about clea	nliness, n	oise, priva	acy and dif	ficulty mov	ing.		
7. The rooms	N	150	24	10	6	10	89.8	382.800	0.000
were kept clean	%	75.00%	12.00%	5.00%	3.00%	5.00%	89.8	382.800	0.000
8. The area is	N	38	20	44	26	72	52.6	41.000	0.000
quiet at night	%	19.00%	10.00%	22.00%	13.00%	36.00%	52.6	41.000	0.000
10. Staff make	N	46	30	40	66	18			
sure you have	0/	22.000/	15 000/	20.000/	22.000/	0.000/	62	32.400	0.000
enough privacy	%	23.00%	15.00%	20.00%	33.00%	9.00%			
11. It is easy to	N	84	30	44	26	16	74	70.600	0.000

				% of	Chi-Square				
			Agree	Neutral	Disagree	Strongly disagree	agreement	X^2	P- value
find your way around the hospital	%	42.00%	15.00%	22.00%	13.00%	8.00%			
Patients' satisfa	ction	about exp	lanation o	of drug-re	lated infor	mation.			
12. Staff tell	N	128	40	10	12	10			
you what is the medicine for (explaining their purposes)	%	64.00%	20.00%	5.00%	6.00%	5.00%	86.4	258.200	0.000
13. Staff	N	132	30	6	20	12			
explain possible side effects	%	66.00%	15.00%	3.00%	10.00%	6.00%	85	272.600	0.000

Table (5) and figure (1) illustrated that Level of satisfactionrelated to factors associated with patient satisfaction. Total satisfaction (41.5%) were high and (58.5%) were average. The majority of the study participants had high satisfaction about explanation of drug-related information were (70%). Whereas, patients' satisfaction about nurses' services and about doctors' services were average (74% and 68%) respectively.

Table (5)Level of satisfaction related to factors associated with patient satisfaction.

		Leve	el of satisfa	Score			
		Weak	Average	High	Range	Mean±SD	
Patients' satisfaction	N	15	74	111	5-20.	14.6±3.179	
about nurses' services.	%	7.5%	37.0%	55.5%	0 20.		
Patients' satisfaction	N	13	68	119	5-16.	11.6±2.379	
about doctors' services	%	6.5%	34.0%	59.5%			
Patients' satisfaction	N	36	82	82	4-20.	13.2±3.980	

	Leve	l of satisfa	Score				
				High	Range	Mean±SD	
about cleanliness, noise,							
privacy and difficulty	%	18.0%	41.0%	41.0%			
moving.							
Patients' satisfaction	N	8	52	140			
about explanation of	%	4.0%	26.0%	70.0%	2-10.	7.99±1.653	
drug-related information.	/0	1.070	23.070	70.070			
Total satisfaction	N	0	117	83	34-61.	47.4±5.987	
Total Satisfaction	%	0.0%	58.5%	41.5%	3101.	41.4±3.901	

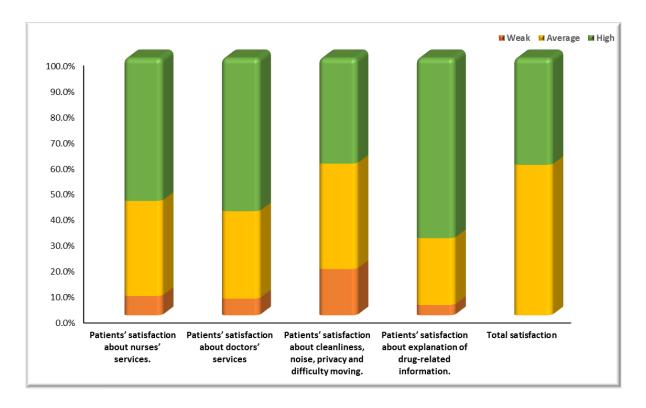


Figure (1) Level of satisfaction related to factors associated with patient satisfaction

Table (6) and figure (2)the present study display the relation between participants' Sociodemographic Characteristics and total level of satisfaction. There is highly statistical significant with age, gender, educational level and monthly income. While no statistical significant with social status.

Table (6) The relation between participants' Sociodemographic Characteristics and total level of satisfaction.

			Total satisfaction		ANOVA or T-test		
	Items	N	Mean ± SD	F or T	Test	P-value	
			wican ± 5D		value	1 -value	
	18-27yrs	32	39.719 ± 4.010				
Age	28-37yrs	44	49.341 ± 4.884	$oxed{\mathbf{F}}$	52.387	<0.001*	
ngc	38-47yrs	76	46.750 ± 4.080		32.307	<0.001	
	47+yrs	48	52.167 ± 5.025				
Gender	Male	70	50.886 ± 5.006	T	6.448	<0.001*	
Gender	Female	130	45.669 ± 5.683	1	0.110	(0.001	
	Single	46	47.000 ± 7.014				
Social	Married	86	48.314 ± 5.823	$oldsymbol{f F}$	0.952	0.417	
status	Widowed	44	46.773 ± 4.630] -	0.732	0.117	
	Divorced	24	46.833 ± 6.638				
	Illiterate	18	54.556 ± 3.807				
	Read and write	52	51.365 ± 7.217				
	School education	66	44.000 ± 4.717				
Educational	Post-secondary	24	45.792 ± 2.245	F	28.514	<0.001*	
level	diploma	24	43.172 ± 2.243	_	20.311	<0.001	
	University						
	education or	40	46.075 ± 0.971				
	higher						
	Less than 5000	38	53.316 ± 4.041				
	SAR		33.310 _ 1.011				
	5000 – less than	66	51.091 ± 3.373				
Monthly	10000 SAR		01.071 ± 0.010	$oxed{\mathbf{F}}$	147.953	<0.001*	
income	10,000 less than	42	45.595 ± 1.926	_	11,1,555	10.001	
	15,000 SAR	1.2	.5.575 ± 1.720				
	More than 15,000	54	40.481 ± 3.607				
	SAR	51	.5.161 ± 5.007				

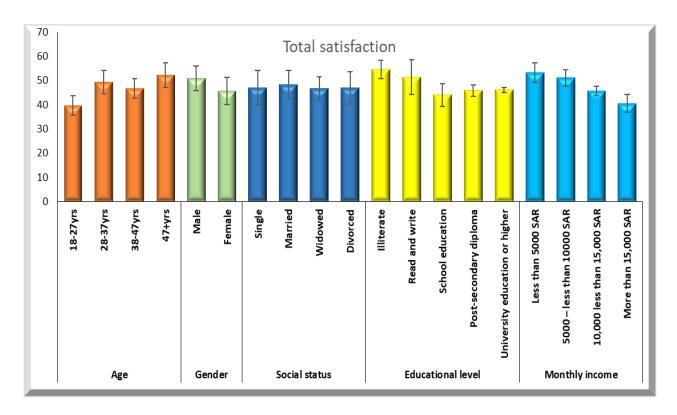


Figure (2) The relation between participants' Sociodemographic Characteristics and total level of satisfaction

Discussion

Researchers have proved that satisfaction level is related to a range of factors like ethnic group, patient education, waiting times and attitudes of providers as well as patients' perception of a relationship of trust, providers' answering of questions and provision of adequate information, patients' feeling of being involved in decisions about their care⁽²⁶⁾. The aim of this study was to investigate factors associated with patient satisfaction among outpatient department attending patients at health centers in Saudi Arabia. The present study revealed that the age had significant effect on patients' satisfaction with older and middle age group (28-37), (38-47) and (47) years showed significantly higher satisfaction level compared with younger age group (18-27) years. This may be due to the younger age reflect their relatively high expectations that can't be easily met.

This studymatching with other studies conducted in Pakistan by Afzal et al ⁽²⁷⁾ and in the United State by Hall and Dornan⁽²⁸⁾ which revealed that the age have significant effect on patients' satisfaction and the highest satisfaction was found in age group (25-35) years. From another point of view, The effect of the age variable on satisfaction was not significant in Japipaul study, but it showed interesting results, the greatest level of satisfaction was in the group (15-24) years old, and then it decreased gradually and increased again in the group who were over 60 years old⁽²⁹⁾. According to Rahmqvist, age is a well known determinant of patient satisfaction index with older

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patients scoring more highly and being more satisfied than young and middle aged patients⁽³⁰⁾. This fact was also seen in other study which concluded that some demographic variable are important including age which consistently shows that elderly patients are more satisfied ⁽³¹⁾.

The findings of this study revealed that the gender, educational level and monthly income had significant effect on patients' satisfaction. In this study it was noted that the higher satisfaction was seen in males with mean percent satisfaction score of (50.886±5.006) as compared with female patients. In otherstudy, contrary to present study it was noted that female patients with short duration of hospitalization were less satisfied with staff's care than men⁽³²⁾.

The results of this present study showed that the rate of satisfaction decreased as the educational level increased and mean percent satisfaction score (54.556±3.807) was in patients who had educational level of illiterate. The results contradicted with other study showed that the rate of satisfaction increased as the educational level increased and mean percent satisfaction score (67.75±5.08) was in patients who had educational level of intermediate⁽²⁷⁾. Similarly highest satisfaction was seen in low income class who had mean percent satisfaction score of (53.316±4.041) and it decreased as income level increased.

The present study explain that patients' satisfaction about explanation of drug-related information of health service provider's was higher. This may be due to high patient turnover, occupational stress and stringent work targets could affect the communication and interpersonal relationship between patients and providers. There is a link between communication capabilities of clinicians and patient satisfaction. Ineffective communication like unfriendliness and discourtesy by doctors, insufficient explanations on diagnosis and management protocol have been implicated in the dissatisfaction of patients with health care^(33, 34).

The overall level of with the findings of a study were (41.5%) high and (58.5%) average. This result matching with several studies conducted in Ethiopia by Olijera and Gebresilasses (2001) (35) reported that satisfaction with outpatient health services at Jimma hospitalwas (57.7%,), Mezemir et al., (2014) (36) noted that level of satisfaction in Debrebirhan hospital was (61.9%) and Tayelgn et al., (2011) (37) reported that level of satisfaction at Amhara Region (65.9%). On the other hand, this finding was higher than the findings of a study conducted in Eastern Ethiopia (54.1%), Tigray Zonal hospital (43.6%) and Gondar referral hospital (22%) (38-40). The reason might be one would ordinarily expect a higher level of satisfaction with care received at a tertiary hospitals and hospitals because of the available expertise, technology and sophisticated procedures that can be obtained rather than health centers.

Patients who did not claim the existence of a convenient environment to ask questions and patients who did not have a good dialogue with outpatient health service providers were less satisfied. A study carried out in health centers in central Ethiopia also revealed that good dialogue and non-verbal communications to be predictors of high degree of patients' satisfaction⁽⁴¹⁾. This is also supported by a study conducted in United Arab Emirates at public hospitals which identified perceived welcoming approach of service providers as a significant determinant of patient satisfaction⁽⁴²⁾. A study conducted in South Africa revealed lack of communication and relevant messages to patients were identified as an important issue impacting on quality thus affecting client satisfaction ⁽⁴³⁾.

The findings of this study are generally supportive to the literature. Where most of the participants were satisfied about the services provided. In our study, patients were slightly more satisfied about doctors than nurses with high levels of satisfaction for both, where the literature have found that nurses had the highest scores for patients' satisfaction (44, 45). The limitations of this study were the relatively low sample size, and the exclusion of private hospitals. The low sample size will not make the conclusive data generalizable to Saudi Arabia.

Conclusion

The outpatient service characteristics and perceptions of study participants were low of respondents with convenient to ask questions. While, high percentage reported that their privacy at the outpatient department was maintained. Also, Related to dialogue with outpatient service providers, the study participants declared to have had a good dialogue with outpatient service providers. Related to politeness of outpatient service providers who served the respondents were (73%). Among the total study participants, (76%) and (66%) reported to have got all ordered laboratory tests and drugs from the health centers, respectively. Exactly (92%) and (72%) of the respondents wish the health center for their future visit and would like to recommend to visit the health center to their friends or relatives, respectively. The overall patient satisfaction rate of the study were (22%) very satisfied, (35%) satisfied, (21%) neutral, (15%) dissatisfied and (7%) very dissatisfied.

Recommendation

The studyrecommendthatguide administrators to constantly monitor factors associated with patient satisfaction and identify issues and appropriate action and decisions be implemented. Regular training to all categories of staff on attitudes, behavior, and communication is recommended.

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