Assessment of Health Care Quality through Clients' Perspectives at Outpatient Consultancy Clinics in Al-Hilla City Hospitals

تقييم جودة الرعاية الصحية من خلال وجهات النظر للمراجعين الى العيادات الاستشارية الخارجية في مستشفيات مدينة الحلة

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المستخلص

أهداف الدراسة: تقييم جودة الخدمات الصحية من خلال وجهات النظر للمراجعين الى العيادات الاستشارية الخارجية في مستشفيات مدينة الحلة و لإيجاد الفروق المعنوية بين وجهات النظر للمرضى حول أبعاد جودة الرعاية الصحية و معلوماتهم الديموغرافية مثلا (السكن والعمر والجنس و المستوى التعليمي و المهنة).

منهجية الدراسة: أجريت دراسة وصفية للفترة مابين 10 نيسان إلى 15 حزيران 2019 في العيادات الاستشارية الخارجية لمستشفى الحلة الجراحي العام ومستشفى الإمام الصادق(ع) العام ، اختيرت عينة غير احتمالية (غرضيه) كان قوامها (200) مراجع جاءوا من مركز الرعاية الصحية الأولية إلى العيادات الاستشارية الخارجية للمستشفيات المذكورة أعلاه . تم جمع المعلومات من خلال المقابلة وتقنية أداة التقييم (الاستمارة الاستبيانية) من خلال استخدام ثبات الاتساق الاستبيانية) حيث تكونت من (27) فقرة . أجريت دراسة مصغرة لتحديد ثبات أداة التقييم (الاستمارة الاستبيانية) من خلال استخدام ثبات الاتساق الداخلي(كرون باخ الفا) والذي كانت(0,001 (0,001)) وحدد مصداقية أداة التقييم من خلال مجموعة مكونة من (20) خبير . حالت البيانات باستخدام برنامج (SPSS) النسخة (20) باستخدام الإحصاء الوصفي (التوزيع التكراري والنسبة المئوية و cut off point) والإحصاء الاستناجي (معامل الارتباط واختبار تحليل التباين) لغرض تحليل بيانات.

النتائج: أشّارُت نتائج الدراسة إلى أن إجمالي تقييم أبعاد جودة الرعاية الصحية المقدمة للمراجعين في العيادات الاستشارية الخارجية في مستشفى الحلة الجراحي العام ومستشفى الإمام الصادق(ع) العام كانت مستواها ضعيف وأشارت الدراسة أيضا هناك فروق معنوية بين وجهات النظر للمراجعين حول أبعاد جودة الرعاية الصحية و معلوماتهم الديموغرافية (السكن و الجنس والعمر و المستوى التعليمي و المهنة). التوصيات: أوصت الدراسة تعزيز العيادات الاستشارية الخارجية بملاك طبي وصحي من أطباء وممرضين ذوو خبرة وكفاءة عالية بالتعامل مع المرضى ومشاركتهم في الدورات العلمية لتطوير معلوماتهم وإدراكهم حول أهمية عملهم لتقديم أفضل عناية صحية للمراجعين.

الكلمات المفتاحية: تقييم، جودة الرعاية الصحية،المراجعين، العيادات الاستشارية الخارجية.

Abstract

Objectives: To assess quality of health care for clients at outpatient consultancy clinics in Al-Hilla City Hospitals, and to find out significant differences between the clients' perspectives toward quality of health care dimensions and their demographic characteristics such as (residence, age, gender, level of education, and occupation).

Methodology: A descriptive analytic study design was carried out at outpatient consultancy clinics of Al-Hilla city hospital (Al-Hilla and Al-Imam Al-Sadiq general teaching hospital) from April 10 th to June 15 th 2019. Non – probability (purposive) sample of 200 clients who were coming to the Outpatient Consultancy Clinics were selected. Data is collected through used of an assessment tools and interview technique with (27) items of questionnaire. A pilot study is conducted for the determination of the reliability of the assessment tool through the use of internal consistency reliability through the use of Alpha Cronbach approach(0,85) (p<0.001) and content validity through a panel of (20) experts. Data are analyzed through the application of the Statistical Package of Social Sciences (SPSS, Version 20) was performed through the application of descriptive statistics (frequency, percentage, mean, and cut off point) and inferential statistics (t-test and one way analysis of variance).

Results: The study indicates that The overall assessment quality of health care dimension according to SERVQUAL scale at poor level, and There are significant differences in clients' perspectives for quality of health care with regard to their demographic characteristics of residence, gender, age, level of education, and occupation. **Recommendations:** Provision of qualified physicians and registered nurses who deals with outpatient consultancy clinics in Al-Hilla city hospitals, and establishment plans of training and development for medical and nursing staff to increase their knowledge, skills, and awareness to quality of health care for their practices that lead to provide best health care for clients.

Key wards: Assessment, Quality of health care, Clients, Outpatient Consultancy Clinics.

Introduction

Quality of health care is the degree to

which health care services for individuals and populations increase the likelihood of desired health outcomes. Quality of care plays an important role in describing the iron triangle of health care, which defines the intricate relationships between quality, cost, and accessibility of health care within a community (1). Researcher's measure quality of health care to identify problems caused by overuse, underuse, or misuse of health resources. While essential for determining the effect of health services research interventions, measuring quality of care poses some challenges due to the limited number of outcomes that are measurable. Structural measures describe the providers' ability to provide high quality care, process measures describe the actions taken to maintain or improve community health, and outcome measures describe the impact of a health care intervention (2). The quality health care includes a three pronged focus, review resources (1) organization structure (structure standard); (2) focus on standards of medical and nursing care (process standard); and (3) focus on the consumer's satisfaction regarding to care (outcome standard)⁽³⁾. Several researchers mentioned the necessity and importance of measuring quality of healthcare services and indicated that the quality of healthcare doesn't improve unless it is measured. It has to be measured to effectively manage healthcare services (4). However, the quality of healthcare service is

difficult to evaluate due to its abstractness, the high degree of intangibility and high professionalism demanded. On the other hand, patients are quite unique as customers compared to other customers in different services. They are worried about the outcome of the treatment and the process of being treated ⁽⁵⁾.

Methodology

A descriptive analytic study design was carried out from January 10th to June 2019. The outpatient consultancy clinics of Al- Hilla city hospital (Al-Hilla and Al-Imam Al-Sadiq general teaching hospital). Non – probability (purposive) sample of 200 clients who were coming to the Outpatient Consultancy Clinics were selected. Data is collected through used of an assessment tools and interview technique with (27) items of questionnaire. The questionnaire was examined by scientific experts from different branches having at least 15 years' experience in their field of work. The reliability had been evaluated through applying Cronbach's Alpha for (27) items, the results was (0.85)at (p<0.001). A statistical program such as SPSS (Statistical Package for Social Science) version 20 was used to analyze the data through descriptive data analysis included frequencies, percentages, mean, and cut off point as well analysis, T-test and ANOVA. inferential Data are collected through the utilization of the developed assessment tool and the use of the interview technique and keeping records of all available contacts that facilitate the access to the study sample. Each interview

takes approximately (5-10) minutes. The data collection process is carried out from February 11st to May 30th 2019.

Ethical Considerations

The Institutional Review Board (IRB) at the University of Baghdad, College of

Nursing approved the study to be conducted. The study protocol meets both the global & the Committee on Publication Ethics(COPE) standards of respecting humans subjects' rights.

Results:

Table (1): Distribution of The Clients' Demographic Characteristics in Outpatient Consultancy Clinics: n=200

List		F.	%	
1	Residence	Urban	181	90.5
		Rural	19	9.5
2	Age (years)	0-19	27	13.5
		20-29	67	33.5
		30-39	37	18.5
		40-49	61	30.5
		50 and above	8	4
3	Gender	Male	142	71
		Female	58	29
4	Education	can't Read and write	36	18
		Read and write	40	20
		Primary school	41	20.5
		Secondary school	28	14
		Bachelor and above	55	27.5
5	Occupation	Government Employee	68	34
		Private Employee	21	10.5
		Retired	46	23
		Housewife	28	14
		Un Employee	37	18.5

F= Frequency % percentage

Distribution of clients' demographic characteristics indicates that (90.5%) of them are urban residence, (33.5%) are within the aged of (Less than 30) years old, majority of them are male(71%), (27.5%) have bachelor and above, (34%) are government employee.

Table (2): Overall Assessment Quality of Health Care According to SERVQUAL Scale

	F	%		
	Tangibility	poor (5 – 8.3)	112.4	56.2%
		Fair (8.4 – 11.7)	51.8	25.9%
		Good (11.8 – 15)	35.8	17.9%
		Total	200	100%
		Poor (5 – 8.3)	124	62%
	Reliability	Fair (8.4 – 11.7	47	23.5%
		Good (11.8 – 15)	29	14.5%
		Total	200	100%
		Poor (4 – 6.6)	95	47.5%
Quality of Health	Responsiveness	Fair (6.7 – 9.3)	71	35.5%
Care		Good (9.4 – 12)	34	17%
Dimensions		Total	200	100%
		Poor (4 – 6.6)	92.3	46.15%
	Safety and Assurance	Fair (6.7 – 9.3)	73.3	36.65%
		Good (9.4 – 12)	34.5	17.25%
		Total	200	100%
		Poor (4 – 6.6)	78.5	39.25%
	Empathy	Fair (6.7 – 9.3) Good (9.4 – 12)	90.25	45.13% 15.63%
		Total	200	100%
	Total	Poor (22–36)	100.44	50.22%
	(SERVQUAL Scale)	Fair (37- 51)	66.67	33.33%
	(DER TYORE BEAR)	Good (52–66)	32.91	16.5%

F= frequency; %= Percent

This table shows that (50.22%) of clients reported that quality of health care were at poor level, (33.33 %) of the clients reported that the quality of health care were at fair level, whereas only (16.5%) of clients reported that quality of health care were at good level according to SERVQUAL Scale.

Table (3):Independent-Sample Test of Variance for clients' perspectives toward quality of health care with regard to their Residence and Gender

Independent -Sample Test							
	t	df	Sig. (2-tailed) Mean Difference 95% Confidence the Diffe				
					Lower	Upper	
Residence	40.434	199	.000	1.26500	1.2033	1.3267	
Gender	39.969	199	.000	1.36000	1.2929	1.4271	
Clients' perspectives	53.691	199	.000	3.02000	2.9091	3.1309	

df: degree of freedom sig.: significant

The results of this table reveal that there are high significant differences found in clients' perspectives toward quality of health care with regard to their residence at $p \le 0.05$.

Table (4): One Way Analysis of Variance for Clients' Perspectives toward Quality of Health Care with regard to their Age, Level of education, and Occupation

ANOVA						
Age	Sum of Squares	df	Mean Square	F	Sig.	
Between Groups	10.627	4	2.657			
Within Groups	115.293	195	.591 4.493		.002	
Total	125.920	199				
Level of Education	Sum of Squares	df	Mean Square	F	Sig.	
Between Groups	12.031	4	3.008			
Within Groups	113.889	195	.584	5.150	.001	
Total	125.920	199				
Occupation	Sum of Squares	df	Mean Square	F	Sig.	
Between Groups	10.136	4	2.534			
Within Groups	115.784	195	.594	4.268	.002	
Total	125.920	199				

df: degree of freedom, sig.: significant

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The results of this table reveal that there are significant differences found in clients' perspectives toward quality of health care with regard to their age, level of education , and occupation at p ≤ 0.05

Table (5): Scheffe Multiple Comparisons of Variance for Clients' Satisfaction toward Quality of Health Care with regard to their Age, level of education, and occupation.

	Mea	an Difference (I-J) Std. Error		Error	Sig.
Age		0-19	.40278	.20263	.415
	20-29	30-39	.47076	.17884	.144
		40-49	.40000	.17194	.252
		50 and above	.69006*	.16370	.002
Level of education	Bachelor and above	Illiterate	.92014*	.22516	.003
education		Reads and Writes	.61949*	.18823	.032
		Primary School	.56971*	.17171	.029
		Secondary school	.54688*	.16546	.030
Occupation	Government Employee	Private Employee	.21579	.15975	.768
		Retired	.67135*	.16976	.004
		Housewife	.24682	.19000	.793
		Un employee	.31579	.19191	.609

sig. : significant

The results of this table have revealed that the client's with age group (20-29), level of education (Bachelor and above), and occupation (Government Employee) have higher significantly with their satisfaction toward quality of health care at $p \le 0.05$.

Discussion

Part I- Regarding to Socio-demographic Characteristics

The present study indicates that the majority (90.5%) of clients who were coming to the outpatient consultancy clinics of general teaching hospitals in AL-Hilla city were living in urban areas, and the remaining (9.5%) were living in rural areas(Table 1). The present results is agree with the study at AL-Bashir Hospital in Jordan, they found that the majority of the study sample (89%) were living in capital (Amman), and 11% were living in city parties⁽⁶⁾. Also these findings are consistent with study conducted in Iraq, which presented that most the clients (92.6%) were urban residence, and (7.5%) in rural areas⁽⁷⁾.

Regarding to the patients' age, the finding of the study indicates that the highest percentage of the study sample (33.5%) of clients who were coming to the outpatient consultancy clinics were at age group less than 30 years, while the lowest percentage (4%) of them were at age group 50 years and above (Table 1). These results supported by a study done in India, they revealed that the majority of the study subjects at age (20-30) years (8).

The findings of the present study show that the majority of the study samples were male (71%) and the remaining (29%) are females (Table 1). These results confirmed through a study done in Iraq, which show that most of referred client were male (80%) and (20%) were female ⁽⁹⁾.

Concerning the educational levels, the findings of the present study indicate that (27.5%) who were coming to the outpatient consultancy clinics have bachelor and above, (20.5%) have primary school, (20%) have read and write, (18%) have illiterate(can't read and write), whereas only (14%) of them were secondary school degree(Table

1). These findings agree with a study done in Iraq, which presented that most the clients were bachelor and above degree $(37.2\%)^{(7)}$.

Respect to the occupation, the findings of the present study show that (34%) of the clients have government employee; (23%) have retired, (18.5) unemployed, (14%)housewife (10.5%)private employee(Table 1). These results are consistent with a study conducted in Nigeria, which reported that the majority occupation of referred clients were 38% government employee and lowest percentage clients' occupation was private employee $(7.4\%)^{(10)}$.

Part II- Overall Assessment for Quality of Health Care According to SERVQUAL Scale

In (Table 2) the findings show that overall assessment for quality of health care toward clients' perspectives according to SERVQUAL Scale was poor level (50.22%) have range of score (22-36), followed by (33.33%) was fair level of clients have range of score (37-51), and remain (16.5%) was good level at range of score (52-66). These results of the current study were supported by the study done in Iraq, which reported that the five main dimensions of health services quality according to respondents' view are sequenced as follows: (Empathy) at first degree, then (Safety and assurance) at second degree, then (Responsiveness) at third degree, then (Tangibility) at fourth degree, and (Reliability) at last degree⁽¹¹⁾.

Part III- The Variance of the Clients' Perspectives toward Quality of Health Care Dimensions with regard to their Demographic Characteristics

The results of the current study show that there are significant differences found in the level of clients' perspectives toward quality of health care dimensions with regard to their demographic characteristics(residence, age, gender, level of education, occupation, and number of visits to outpatient consultancy clinics) of clients who were coming to the outpatient consultancy clinics at general teaching hospital in AL-Hilla city at $P \le 0.05$.

The results of (Table 3) reveal that there are high significant differences found in clients' perspectives toward quality of health care dimensions with regard to their residence and gender at $p \le 0.05$, these results agree with a study done in South Australia, they reported that the clients demonstrated significantly different mean positive relation scores depending on area of residence and gender, these results come along within the result of the present study which indicated that there are high significant differences found in clients' perspectives toward quality of health care dimensions with regard to their residence and gender⁽¹²⁾.

The findings of the current study reported that there are significance differences in clients' perspectives toward quality of health care dimensions regard to their age and they are (20-29) years group have dissatisfactions toward health care services (Table 4 and 5). These findings are confirmed through a study done in Saudi Arabia, they reported that there was a significant and positive correlation between patients' age and their perspectives toward quality of primary care referral letters and feedback reports (13).

The results of the present study showed that the variance of the clients' perspectives toward quality of health care dimensions with regard to their level of education and they are Bachelor and above level education have dissatisfaction toward health care services (Table 4 and 5). These results are consistent with the results of the study done in Portugal, they reported that regarding schooling, those who obtained

the worse results on the quality of life scale were those who had only completed up to the 4th grade or lower, while the best results were from participants who had completed their bachelor degree⁽¹⁴⁾.

The results of the (Table 4 and 5) reveal that there are significant differences clients' perspectives toward found quality of health care dimensions with regard to their occupation and they are only employee dissatisfactions government toward health care services at $p \le 0.05$. These results of the current study are consistent with the results of a study done in Mongolia, which indicates that regarding professional/employment status, those who were government employee had higher quality of health care services when compared to non-active (Un employee) or those who were disabled⁽¹⁵⁾.

Recommendation

Provision of qualified physicians and registered nurses who deals with outpatient consultancy clinics in Al-Hilla city hospitals, and establishment plans of training and development for medical and nursing staff to increase their knowledge, skills, and awareness to quality of health care for their practices that lead to provide best health care for clients.

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