Assessment of Patients' Satisfaction toward Nursing Care at Hemodialysis units

تقييم رضا المرضى تجاه الرعاية التمريضية في وحدات الانفاذ الدموي

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المستخلص:

الهدف: تقييم رضا مرضى الديلزة الدموية تجاه العناية التمريضية وتحديد العلاقة بين الرضا و المعلومات الديمو غرافيه للمرضى.

المنهجية: دراسة وصفية أجريت في وحدات الديلزة الدموية في مستشفيات بغداد التعليمية للمدة من الرابع من شباط ٢٠٠٠ الى الخامس من أيلول ٢٠١٠ ،اختيرت عينة غير احتمالية (غرضيه) من (١٥٠) مريض في وحدات الديلزة الدموية في مستشفيات بغداد التعليمة. جمعت المعلومات من خلال استخدام استبانه وتقنيه المحاورة مع المرضى تكونت الاستمارة من جزئين : (١)المعلومات الديموغرافية (٢) رضا المرضى للعناية التمريضية، حددت مصداقية استمارة لاستبانه خلال مجموعه من الخبراء و حددت ثباتيتها من خلال الدراسة المصغرة. استخدمت المعلومات التعليمة. الإحصائي الوصفي (التكرارات، النسبة المئوية، الوسط الحسابي) وإجراءات التحليل الاستنتاجي (معامل الارتباط و اختبار مربع كاي والاختبار التائي) في تحليل البيانات.

النتائج: أظهرت النتائج إن هناك رضا عالي فيما يتعلق بالعناية التمريضية السريرية و الاتصال - العلاقة بين الممرض و المريض و رضا متوسط بما يتعلق بالتثقيف الصحي التمريضي وخاصة بتوفير الملصقات والإعلانات التثقيفية للمرضى داخل ردهات الديلزة الدموية، كما وأظهرت النتائج عدم وجود علاقة معنوية بين رضا المرضى و المعلومات الديموغرافيه لهم.كما وأظهرت النتائج وجود علاقة معنوية واحده بين الحالة المهنية و رضا المرضى فيما يتعلق بالاتصال - العلاقة بين الممرض و المريض .

التوصيات: أوصت الدراسة بضرورة تقويه الجوانب التثقيفية في وحدات الديلزه الدموية من خلال الصور التثقيفية، التوجيهات والكتيبات.

Abstract:

Objectives: To assess patients' satisfaction to nursing care at hemodialysis units and determine the relationship between patients' satisfaction and patients' demographic data.

Methodology: A descriptive study was carried out at hemodialysis units of Baghdad teaching hospitals from Feb. 4th, 2010 through Sep. 5th, 2010. A purposive (non-probability) sample of (150) patients at hemodialysis units in Baghdad teaching hospitals was selected. The data were collected through the use of constructing questionnaire and by means of an interview technique with the patients; the questionnaire consists of two parts (1) demographic data (2) patients' satisfaction to nursing care. The validity of the study questionnaire was determined through the panel of experts and the reliability of the study questionnaire was determined through the panel of score) and inferential analysis procedure (person correlation coefficient, chi-square test and t-test) were used for data analysis.

Results: The findings of the study indicated that there is high satisfaction to clinical nursing care, communication /patient –nurse relationship and moderate satisfaction toward nursing health education. Not statistical significant difference between (gender, age, educational status, marital status, occupational status, frequency of hemodialysis and duration of hemodialysis). While there is a statistical significant difference between patients' occupational status and their satisfaction toward communication /patient –nurse relationship.

Recommendations: Great emphasize should be directed toward the educational aspects of hemodialysis unit by providing educational posters, guidelines, pamphlets and manuals.

Keywords: patient satisfaction, hemodialysis unit

Introduction:

P atients with end-stage renal disease (ESRD) experience high rates of morbidity and mortality. Incidence and prevalence counts of ESRD in the United States are expected to increase by 44% and 85%, respectively2, from 2000 to 2015. Reducing the incidence of ESRD is widely recognized as a major public health goal. However, few longitudinal cohort studies have been conducted focusing on identifying risk factors for ESRD. ^(1, 2)

Patients' satisfaction with care received is an essential criterion by which patients assess quality of medical care received. Satisfaction is broadly defined as the human experience of being filled and enriched by an experience ²⁾.

Patient satisfaction as the client's personal and subjective evaluation of expectation fulfillment ⁽³⁾.

The first study of patient satisfaction in nursing occurred in 1956. Assessment of the patient so satisfying is viewed by the authors as vital and necessary in modern health care due to rising costs and the need for resourcefulness and efficiency of health care delivered by health institutions ⁽⁴⁾.

Patient satisfaction is viewed as a significant and valid measure of efficiency in health care delivery. Patients are often active and usually capable of forming opinions regarding care received ⁽⁵⁾.

In Iraq, this is the first study to investigate the level of satisfaction of Iraqis patients and their experiences of nursing care on the hemodialysis unit. It also identifies satisfying factors that are important for them. The study conducted in governmental hospitals.

Methodology:

A purposive (non-probability) sample of (150) patients was selected from (5) teaching hospitals AL-Karama Teaching Hospital, AL-Yarmook Teaching Hospital, AL-Kadhmiyia Teaching Hospital, AL-Kindy Teaching Hospital, Baghdad Teaching Hospital in Baghdad city. The data have been collected from April 4th 2010 until 6th May 2010. A questionnaire format was used for data collection consist of (40) items rated on a five Likert scale as 1 for very not satisfied, 2 for not satisfied, 3 for neither satisfied nor not satisfied, 4 for satisfied and 5 for very satisfied. The questionnaire consisted of two parts:

1.A demographic data sheet, consisted of (7) items, which included gender, age, educational level, marital status, occupational status, frequency of hemodialysis and duration of hemodialysis.

2. The second part of a questionnaire designed to measure the patient satisfaction consists of (40) items that concerned with hemodialysis patients' satisfaction toward nursing care at hemodialysis units which include three sections as following:

- a. **Section I:** This section is composed of (13) items; they presented the patients' satisfaction to clinical nursing care
- b. **Section II:** This section is composed of (12) items; they presented the patients' satisfaction toward nurse-patient relationship /communication
- c. **Section III:** This section is composed of (15) items; they presented the patients' satisfaction toward nursing health education.

Content validity of the early developed instrument was determined through the panel of experts (who have had more than 5 years' experience in their specialty field) to investigate the clarity, relevance, and adequacy of the questionnaire in the order to achieve the present study's objectives.

A preliminary copy of the questionnaire was designed and presented to (14) experts. They were (10) faculty members from the college of nursing /university of Baghdad,

(1) A faculty member statistician from college of medical and health technology, (3) Nephrology faculty member from the ministry of health (AL-Kindy Teaching Hospital and Ghazy Al-hariry surgical specialist hospital) and the reliability of the study was determined by application of (t-test). **Results:**

Variables						
Gender	Male	82	54.7			
	Female	68	45.3			
	(20-30) years	31	20.66			
Age	(31-40) years	28	18.66			
	(51-60) years	37	24.66			
		24	16			
Mean ± standard devia	tion 45.3 ± 14.2					
	Illiterate	19	12.7			
	Read & write	16	10.7			
	Primary	37	24.7			
Educational status	Intermediate	31	20.7			
	Secondary	26	17.3			
	University	19	12.7			
	Postgraduate	2	1.3			
	Single	31	20.7			
Marital status	Married	101	67.3			
	Divorced	8	5.3			
	Widow	10	6.7			
	Retired	30	20.0			
	Employed	34	22.7			
Occupational status	Self employed	21	14.0			
	Unemployed	39	25.0			
	Housewife	25	17.3			
Frequency of dialysis per	1 time per week	4	2.7			
weeks	2 times per week	143	95.3			
	3 times per week	3	2.0			
	Less than 1 year	52	34.7			
	(1 - 2) years	67	44.7			
Duration of hemodialysis by	(2 -3) years	0	0			
years	(3 - 4) years	21	14			
	More than 4 years	10	6.6			
Mean ± standard deviation 1.7	'± 1.4					

 Table 1. Distribution of demographic data of hemodialysis patients

f=frequency, %: percentage

The majority of the study sample (54.7%) were male and the remaining were female, the highest percentage of them were (51-60) years old and accounted for (24.66%), In regards to the subject marital status, the majority of the sample were married and they consist of (67.3%) of the whole of the study sample. Relative of their educational status, the greater percentage of them were primary school graduates and they accounted for (24.7%) of the sample and (1.3%) of them were post graduate. Concerning occupational status (25.0%) of the sample was unemployed. Regarding the frequency of hemodialysis, the majority (95.3%) of the sample were at 2 times per week. Concerning of hemodialysis duration, the (44.7%) of the study sample were at (1-2) years.



Figure 1. Distribution of hemodialysis patient satisfaction elements

The figure shows that the clinical nursing care and communication /patient –nurse relationship record high satisfaction responses but nursing health education record moderate satisfaction

ė.	Gender	Sat	tisfied	Not s	atisfied	χ ²	df	P-value
care	Gender	f	%	f	%	0.6	1	0.8
Clinical Nursing	Male	65	79.3	17	20.7			
Clinical Nursing	Female	55	80.9	13	19.1			
ΰz	Total	120		30				
P t-	Gender	Sat	tisfied	Not s	atisfied	χ ²	df	P-value
Communicat ion patient- nurse relationship		f	%	f	%	0.1	1	0.3
pat e ion	Male	74	90.2	8	9.8			
Comm ion p nurse relatic	Female	64	94.1	4	5.9			
3 <u>9</u> 5 8	Total	138		12				
	Gender	Sat	tisfied	Not s	atisfied	χ ²	df	P-value
5		f	%	f	%	0.003	1	0.9
ing atic	Male	37	45.1	45	54.9			
Nursing health education	Female	31	45.6	37	54.4			
Z L B	Total	68		82				

Table 2. Gender distribution of the hemodialysis patients

Significance p-values \leq 0.05, χ^2 = chi squared test, df = degree of freedom, P-value = probability level, f=frequency, %: percentage

This table shows that there has been not statistical significant difference between patients' gender and their satisfaction sections (clinical nursing care, communication /patient-nurse relationship and nursing health education). Also the table shows that the majority of male and female (satisfied) toward the clinical nursing care and communication /patient-nurse relationship but most of them responded (Not satisfied) toward nursing health education.

00	Variables	Satisfied			Not satisfied	t	df	P-value
sin ^e	Variables	f	M ± s.d.	f	M ± s.d.	1.7	148	0.07
Clinical Nursing care	Age	120	44.2 ± 15.3	30	49.4 ± 2.7			
			Satisfied		Not satisfied	t	df	P-value
u na	Variables	f	M ± s.d.	f	M ± s.d.	0.5	148	0.6
Communication patient-nurse relationship	Age	138	45.1 ± 14.4	12	47.3 ± 13.1			

Table 3. Age distribution of the hemodialysis patients

Significance p-values \leq 0.05, t = t-test, df = degree of freedom, P-value = probability level, f=frequency M= mean, s.d.= standard deviation

This table shows that there has been not statistical significant difference between age and patients' satisfaction sections (clinical nursing care, communication /patient-nurse relationship and nursing health education). Also the table shows that the total number of patients responded (satisfied) toward clinical nursing care was 120 out of 150 patients at mean of age 44.2 \pm 15.3, the total number of patients responded (satisfied) toward communication /patient-nurse relationship was 138 out of 150 patients at mean of age 45.1 \pm 14.4 while the total number of patients responded (satisfied) toward nursing health education was 68 out of 150 patients at mean of age 44.2 \pm 13.6.

		Sat	tisfied	Not s	Not satisfied			P-value
	Educational status	f	%	f	%	12	6	0.06
	Illiterate	15	78.9	4	21.1			
e	Read & write	9	56.3	7	43.8			
car	Primary	30	81.1	7	18.9			
ng	Intermediate	26	83.9	5	16.1			
ırsi	Secondary	19	73.1	7	26.9			
ž	University	19	100.0	0	0.0			
Clinical Nursing care	Postgraduate	2	100.0	0	0.0			
G	total	120		30				
<u>ل</u>		Sat	isfied	Not s	atisfied	χ²	df	P-value
ien	Educational status	f	%	f	%	2.1	6	0.6
pat	Illiterate	18	94.7	1	5.3			
dir	Read & write	14	87.5	2	12.5			
tior	Primary	33	89.2	4	10.8			
icat atic	Intermediate	28	90.3	3	9.7			
rels	University	18	94.7	1	5.3			
Communication /patient- nurse relationship	Postgraduate	2	100.0	0	0.0			
2 5	Total	138		12				
	Educational status	Sa	tisfied	Not satisfied		χ²	df	P-value
_	Educational status	f	%	f	%	8.5	6	0.1
tion	Illiterate	8	42.1	11	57.9			
Icat	Read & write	3	18.8	13	81.3			
edu	Primary	19	51.4	18	48.6			
ţ	Intermediate	13	41.9	18	58.1			
leal	Secondary	14	53.8	12	46.2			
lg L	University	9	47.4	10	52.6			
Nursing health education	Postgraduate	2	100.0	0	0.0			
	Total	68		82				

Table 4. Educational status distribution of the hemodialysis patients

Significance p-values \leq 0.05, χ^2 = chi squared test, df = degree of freedom, P-value = probability level, f=frequency, %: percentage

This table shows that there has been no a statistical significant difference between patients' educational status and their satisfaction sections (clinical nursing care, communication /patient-nurse relationship and nursing health education). Also the table shows that there is a high percentage of hemodialysis patients responded (satisfied) toward the clinical nursing care and communication /patient-nurse relationship, while most of the patients responded (Not satisfied) toward nursing health education.

Table 5. Marital status distribution of the nemodialysis patients												
	Marital	Sa	tisfied	Not sa	atisfied	χ²	df	P- value				
care	status	f	%	f	%	2.9	3	0.4				
	Single	25	80.6	6	19.4							
Irsii	Married	83	82.2	18	17.4							
N N	Divorced	6	75.0	2	25.0							
Clinical Nursing	Widow	6	60.6	4	40.0							
Clin	Total	120		30								
a	Marital	Sa	tisfied	Not s	atisfied	χ ²	df	P-				
pat ship	status							value				
l/u	status	f	%	f	%	0.8	3	0.9				
atic lati	Single	28	90.3	3	9.7							
nic: e re	Married	93	92.1	8	7.9							
mul	Divorced	8	100.0	0	0.0							
Communication/patie nt-nurse relationship	Widow	9	90.1	1	10.0							
ŏE	Total	138		12		χ ²						
	Marital	Sa	tisfied	Not s	Not satisfied			P-				
Ę	status							value				
alt	510105	f	%	f	%	1.6	3	0.6				
s he atic	Single	15	48.4	4 16	51.6							
Nursing health education	Married	47	46.5	5 54	53.5							
ec	Divorced	2	25.0	0 6	75.0							
Z	Widow	4	40.0	0 6	60.0							
	Total	68		82								
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Table 5. Marital status distribution of the hemodialysis patients

Significance p-values \leq 0.05, χ^2 = chi squared test, df = degree of freedom, P-value = probability level f=frequency, %: percentage

This table shows that there has been no a statistical significant difference between patients' marital status and their satisfaction sections (clinical nursing care, communication /patient-nurse relationship and nursing health education). Also the table shows the high percentage of hemodialysis patients responded (satisfied) toward the clinical nursing care and communication /patient-nurse relationship, while most of the hemodialysis patients responded (Not satisfied) toward nursing health education.

Table 6. Occupational status distribution of the hemodialysis patients

	Occupational status	Satis	sfied	Not sa	tisfied	χ ²	df	P-value
é		f	%	f	%	0.9	4	0.9
car	Retired	23	76.7	7	23.3			
ing	Employed	27	79.4	7	20.6			
nrs	Self employed	17	81.0	4	19.0			
Z	Unemployed	33	84.6	6	15.4			
Clinical Nursing care	Housewife	20	76.9	6	23.1			
C	Total	120		30				
ē	Occupational status	Satis	sfied	Not sa	χ ²	df	P-value	
nus	Occupational status	f	%	f	%	9.8	4	0.04
it-n	Retired	28	93.3	2	6.7			
p	Employed	27	79.4	7	20.6			
'pat ishi	Self employed	20	95.2	1	4.8			
n / ion	Unemployed	38	97.4	1	2.6			
cation /pati relationship	housewife	25	96.2	1	3.8			
Communication /patient-nurse relationship	Total	138		12		•		

Table 6. Continu		Occupational status	Satisfied		Not sa	χ ²	df	P-value	
	catio	Occupational status	f	%	f	%	4.5	4	0.3
	3	Retired	12	40.0	18	60.0			
	edi	Employed	13	38.2	21	61.8			
	health	Self employed	10	47.6	11	52.4			
	hea	Unemployed	2	59.0	16	41.0			
rsing l		housewife	10	38.5	16	61.5			
	Nurs	Total	47		103				

Significance p-values ≤ 0.05 , χ^2 = chi squared test, df = degree of freedom, p = probability level f=frequency, %: percentage

This table shows that there has been not statistical significant difference between patients' occupational status and their satisfaction toward the clinical nursing care and nursing health education, but there has been a statistical significant difference between patients' occupational status and their satisfaction toward communication /patient –nurse relationship (p value 0.04). Also the table shows that the high percentage of patients responded (satisfied) toward the clinical nursing care and communication /patient –nurse relationship, while the majority of them responded (Not satisfied) toward nursing health education.

<u>ത</u>	Frequency of	Satis	sfied	Not sat	isfied	χ²	df	P-value
Nursing	haemodialysis	f	%	f	%	0.4	2	0.8
N N	1 time per week	3	75.0	1	25.0			
a	2 times per week	115	80.4	28	19.6			
Clinical care	3 times per week	2	66.7	1	33.3			
с С	Total	120		30				
	Frequency of	Satis	sfied	Not sat	isfied	χ ²	df	P-value
se	haemodialysis	f	%	f	%	6.4	2	0.7
r n n	1 time per week	4	100.0	0	0.0			
atic nt-r nsh	2 times per week	131	91.6	12	8.4			
munication /patient-nurse relationship	3 times per week	3	100.0	0	0.0			
m /F	Total	138		12				
÷	Frequency of	Satis	sfied	Not satisfied		χ ²	df	P-value
health	haemodialysis	f	%	f	%	0.2	2	0.9
Ĕ	1 time per week	2	50.0	2	50.0			
ng	2 times per week	65	45.5	78	54.5			
Nursing education	3 times per week	1	33.3	2	66.7			
Z J	Total	68		82				

Table 7. Frequency of hemodialysis distribution of the hemodialysis patients

Significance p-values \leq 0.05, χ^2 chi squared test, df = degree of freedom, P-value = probability level f=frequency, %: percentage

This table shows that there has been not statistical significant difference between the frequency of hemodialysis and patients' satisfaction sections (clinical nursing care, communication /patient-nurse relationship and nursing health education). Also the table shows that the high percentage of patients responded (satisfied) toward the clinical nursing care and communication /patient-nurse relationship, while most of them responded (Not satisfied) toward nursing health education.

			-		<u> </u>				
	Variables			Satisfied	N	ot satisfied	t	df	P-value
	Variables		f	M ± s.d.	f	M ± s.d.	1.7	148	0.07
a	Duration d	of	120	18.7 ± 17	30	20.7 ± 15.3			
care	hemodialysis								
Nursing									
ırsi									
ž									
Clinical									
lin									
0									

Table 8. Contin	ues _	Variables		Satisfied	N	lot satisfied	t	df	P-value
		Variables	f	M ± s.d.	f	M ± s.d.	0.18	148	0.8
	Communicatio patient-nurse relationship	Duration d hemodialysis	138 of	19.1 ± 16.6	12	20.0 ± 18.5			
	Nursing health education	Variables		Satisfied	N	lot satisfied	t	df	P-value
	ing uca		f	M ± s.d.	f	M ± s.d.	0.7	148	0.4
	urs ed	Duration d	of 68	20.0 ± 18.1	82	18.2± 15.4			
	Ν	hemodialysis							

Significance p-values \leq 0.05, t = t-test, df = degree of freedom, P-value = probability level, f=frequency M= mean, s.d.= standard deviation

This table shows that there has been not statistical significant difference between the duration of hemodialysis and patients' satisfaction sections (clinical nursing care, communication /patient-nurse relationship and nursing health education). Also the table shows that the total number of patients who responded (satisfied) was 120 out of 150 patients, 138 out of 150 patient toward the clinical nursing care and communication /patient-nurse relationship and the total number of patients who respond (Not satisfied) was 82 out of 1°0 patient toward nursing health education.

Discussion:

The data analysis was conducted on 13 items of the questionnaire that assessed patients' satisfaction toward clinical nursing care the result indicated that there was a high satisfaction grade toward these sections (figure 1).

The nursing care is a very important factor in patients' satisfaction or dissatisfaction with their experiences in hospital, and nurses' attitudes towards and communication with patients are the essential determinants of the patient satisfaction ⁽⁶⁾.

The data analysis was conducted on 12 items of the questionnaire that assessed patients' satisfaction toward communication /patient –nurse relationship the result indicated that there was a moderate satisfaction grade toward these sections (figure 1).

The nurse–patient-communication, by creating good interpersonal relationships, allowing the exchange of information and facilitating treatment-related decisions, is fundamental to optimal medical care. Effective communication correlates with improved outcomes, including physiological criteria such as levels of blood pressure and blood sugar. Conversely, professional, language and cultural barriers can impede communication ⁽⁷⁾.

There is consistent evidence across settings that the most important health service factor affecting satisfaction is the patient- nurse relationship, including information and technical competence ⁽⁸⁾. The data analysis was conducted on 15 items of the questionnaire that assessed patients' satisfaction toward nursing health education the result indicated that there was a moderate satisfaction grade toward these sections (figure 1).

The patients and their families should receive sufficient information and education regarding the nature of end stage kidney disease and the options for the treatment to allow them to make an informed decision about the management of their end stage kidney disease. There is some evidence that structured predialysis education programs are effective in facilitating a planned approach to commencement of dialysis and influencing the quality of life and outcomes on dialysis. Early education for the hemodialysis procedure patient has the potential to improve the quality of patient satisfaction and increase care-effectiveness⁽⁹⁾.

Association between patients' satisfaction sections: clinical nursing care, communication /patient-nurse relationship and nursing health education and their gender. The findings indicated that there was not statistical significant difference between patients' satisfaction sections and their gender (p>0.05) (table 2).

Association between patients' satisfaction sections: clinical nursing care, communication /patient-nurse relationship and nursing health education and their age. The findings indicated that there was not statistical significant difference between patients'

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satisfaction sections and their age (p > 0.05) (table 3).

Association between patients' satisfaction sections: clinical nursing care, communication patient –nurse relationship and nursing health education and their educational status. The findings indicated that there was not statistical significant difference between patients' satisfaction sections and their educational status (p > 0.05) (table 4).

Association between patients' satisfaction sections: clinical nursing care, communication /patient-nurse relationship and nursing health education and their marital status. The findings indicated that there was not statistical significant difference between patients' satisfaction sections and their marital status (p > 0.05) (table 5).

Association between patients' satisfaction sections: clinical nursing care, communication /patient-nurse relationship and nursing health education and their occupational status. The findings indicated that there was not statistical significant difference between patients' satisfaction section: clinical nursing care and nursing health education and their occupational status (p > 0.05). While there was a statistical significant difference between patients' satisfaction section communication /patient-nurse relationship and their occupational status ($p \le 0.05$) (table 6).

Association between patients' satisfaction sections: clinical nursing, care communication /patient-nurse relationship and nursing health education and frequency of hemodialysis. It shows that there was not statistical significant difference between patients' satisfaction sections and frequency of hemodialysis (p>0.05) (table 7).

Association between patients' satisfaction sections: clinical nursing care, communication /patient–nurse relationship and nursing health education and duration of hemodialysis. The findings indicated that there was not statistical significant difference between patients' satisfaction sections and duration of hemodialysis (p-value > 0.05) (table 8).

Recommendations:

1. Great emphasize should be directed toward the educational aspects at hemodialysis unit

by providing educational posters, guidelines, pamphlets and manuals.

- 2. Policy should be initiated to provide a special educational session for hemodialysis patients about their illness and therapy.
- 3. It is provided modern educational nursing team at hemodialysis enhance health education.

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