

### Quality assessment of Primary Health Care Centers as perceived by child caregiver in Najaf Governorate

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	<b>Background</b> : The qu	ality of healthcare services provided by Primary Health Care Centers
		rtance to ensure that individuals and families receive timely,
		ffective care. The assessment of healthcare quality from the
	perspective of patien	nts and caregivers is crucial to identify areas for improvement and to
		or enhancing the quality of care provided.
		ess the quality of Primary Health Care Centers as perceived by child
	caregivers in Najaf G	
		<b>ods</b> : cross sectional study was conducted in PHCCs at six district in A close-ended questionnaire using Likert scale consisted of three
		Ith worker, and PHCCs infrastructure part). All primary health care
		ed in the study (28), convenient sample of health workers (240) and
ABSTRACT	child caregivers (280	
RA	Results: the weight	ed average of assesses the general satisfaction with the quality of
ST		e clinic services from the perspective of children's caregivers, was
AE		dard deviation of 0.40783. This indicates that there is an overall
		uality of services provided by the clinics is satisfactory. The weighted
		the quality of general examination services provided by the clinics, dard deviation of 0.61938. This indicates that the trend is neutral the
		section 3, which assesses the quality of counseling services provided
		6711, with a standard deviation of 0.55447. This indicates an overall
		uality of counseling services provided by the clinics is satisfactory.
		y Health Care clinics in Najaf Governorate are providing satisfactory
		vements can be made to ensure that the quality of examination
		neets the expectations of caregivers. These findings can inform
		nd programs aimed at improving the quality of Primary Health Care
	· · · · · · · · · · · · · · · · · · ·	children in Najaf Governorate.
	Keywords:	Primary health care, quality, Najaf governorate.

#### Introduction

Primary health care services should be easily accessible and offer a variety of services such as

prenatal care, vaccination programs, screening and treatment of epidemic diseases, programs aimed at chronic illnesses, specialist care, and access to health education. Moreover, primary health care centers need to establish appointment systems, registers, and follow-up mechanisms to improve the accessibility of services.[1].

The effectiveness of primary health care can be evaluated by considering whether clinical decisions are made based on appropriate prescribing patterns and diagnostic and referral practices. Additionally, the effectiveness of PHC can be measured by its potential to reduce disease burden, generate economic savings, and promote greater equity[2].

The quality of primary health care in Iraq has been a major concern due to various challenges faced by the country. Some of these challenges include inadequate funding, shortage of healthcare workers, inadequate infrastructure, and lack of essential medicines and medical supplies. Additionally, the ongoing conflict and political instability in the country have led to a significant deterioration of the healthcare system, resulting in poor access to health care services and low quality of care[3].

Overall, while there are some gaps in the quality of primary healthcare delivered to children under 5 years old in Najaf governorate, there are also efforts being made to improve the situation. These efforts include training and education programs for healthcare professionals, the use of telemedicine to improve access to specialized care, and the construction of new healthcare facilities to increase access to care [4].

#### **Materials and Methods**

This is a descriptive, cross-sectional study conducted at 28 randomly selected (simple sample) Primary Health Centers in Najaf governorate. There are 56 primary health care centers in Najaf, distributed in 6 primary health care sectors. Take 28 centers (50% of the total) randomly (using simple sampling technique) from all sectors .

**Data collection technique**: Data were collected by questionnaires utilized a five-point Likert scale for responses developed by researcher. These checklists represent minimum standards for the quality of primary health care services. Which contains evaluation criteria for all units and programs in PHCCs. **Statistical Analysis**: Analysis of data was carried out using the available statistical package of SPSS- 26 (Statistical Packages for Social Sciences- version 26). Data were presented in simple measures of frequency, percentage, mean, and standard deviation.

#### **Results**:

# Quality assessment of PHC as perceived by child caregiver in PHCs

#### **1.General Satisfaction**

Table (3.1) shows(General Satisfaction to quality assessment of PHC clinics services according to children's caregiver ), from which we find that the heights average was awarded to the question(During my visit to the health center, I felt the care of the staff towards my child) with mean 4.45 and std. deviation 0.696 followed by question ( I am satisfied with the level of services provided to my child at the health center and I advise my acquaintances ) with mean 4.23 and std. deviation 0.765 ,followed by question( The cleanliness of the place is good) with mean 4.16and St. Deviation 0.801, With strongly agree by percent (55.4%, 42%, 39% respectively) and agree by percent ( 35.4%, 40%, 40% respectively).

While lowest average was awarded to the question (I had no difficulty getting to the health center) with mean 2.2 and std. deviation 1.205, followed by question (Wait long periods of time to receive health care at the health center) with mean 3.07 and std. deviation 1.043, followed by question (The time allotted for examining my child was sufficient) with mean 3.7 and std. deviation 0.99, With strongly agree by percent (3%, 13%, 31% respectively) and agree by percent (17%, 20%, 38% respectively)

Weighted average of section 1 was 3.6747 and std. deviation 0.40783 which indicate the trend of (General Satisfaction to quality assessment of PHC clinics services according to children's caregiver ) is agree as a general trend according to 5-point Likert scale show in table (3.6 ) since 3.6747 lie in the interval { 3.41-4.20} So, the average of General Satisfaction to quality assessment of PHC clinics services according to children's caregiver is 3.6747 which consider a Heigh level: since the interval of levels as follow: Low level: [1-2.59]

Heigh level: [3.40	-5]
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#### Table (3.1) General Satisfaction to quality assessment of PHC clinics services according to

Questions		strongly agree	agree	Neutral	Disagree	strongly disagree	%	mea n	SD	sample orientatio n
During my visit to the	Ν	155	99	24	1	1	89%	4.45	0.696	strongly
health center, I felt	%	55.4	25.4	8.6	0.4	0.4				agree
the care of the staff			35.4	%	%	%				0
towards my child			%							
Medicines are	Ν	18	113	99	47	3	67%	3.34	0.87	Neutral
available at the	%	6%	40%	35%	17%	1%				
health center										
Laboratory tests are	Ν	89	133	42	15	1	81%	4.05	0.845	agree
available	%	32%	48%	15%	5%	0%				_
The cleanliness of the	Ν	109	111	56	3	1	83%	4.16	0.801	agree
place is good	%	39%	40%	20%	1%	0%				_
I am satisfied with	Ν	117	113	48	1	1	85%	4.23	0.765	agree
the level of services	%	42%	40%	17%	0%	0%				0
provided to my child										
at the health center										
I feel that the staff is	Ν	85	121	57	16	1	80%	3.98	0.877	agree
professional, trained	%	30%	43%	20%	6%	0%				_
and well experienced										
I am satisfied with	Ν	49	113	25	43	50	65%	3.24	1.385	Neutral
the procedures	%	18%	40%	9%	15%	18%				
followed in the										
health center from										
reception to the last										
procedure										
I will go to the health	Ν	88	105	72	1	14	78%	3.9	1.015	agree
center in the future if	%	31%	38%	26%	0%	5%				
my child gets sick										
I had no difficulty	N	9	48	38	80	105	44%	2.2	1.205	Disagree
getting to the health	%	3%	17%	14%	29%	38%				
center		05		0.0	101	4	64.07	0.05	1.0.40	
Wait long periods of	N	35	57	83	104	1	61%	3.07	1.043	Neutral
time to receive health	%	13%	20%	30%	37%	0%				
care at the health										
center	NT	70	102	0(	11	10	750/	276	0.00	
The time allotted for	N	70	103	86	11	10	75%	3.76	0.99	agree
examining my child	%	25%	37%	31%	4%	4%				
was sufficient	2	717								1
weighted mean	-	5747							-	
SD.deviation	0.4	10783							J	

children's caregiver

Moderate level: [2.60-3.39]

#### 2. Quality of General Examination

Table (3.2) shows (Quality of General Examination to quality assessment of PHC services according clinics to children's caregiver), from which we find that the heights average was awarded to the question( The health worker asks me take the measurements of my child like temperature. ) with mean 3.79and std. deviation 1.189 followed by question ( I am asked by the health worker about my child's ability to eat or breastfeed) with mean 3.74 and std. deviation 1.004, With strongly agree by percent (31%, 23%) respectively) and agree by percent (40%, 45% respectively).

While lowest average was awarded to the question (I am asked about the condition of my child, if he has ever lost consciousness ) with mean 2.87and std. deviation 1.364 ,followed by question (I was asked about my child's condition if he has hearing problems) with

mean 3.04 and std. deviation 1.343 , With strongly agree by percent (18%, 15% respectively) and agree by percent (16%, 29% respectively)

Weighted average of section 2 was 3.38 and std. deviation 0.61938 which indicate the trend of ( Quality of General Examination to quality assessment of PHC clinics services according to children's caregiver ) is neutral as a general trend according to 5-point Likert scale show in table (3.6 ) since 3.4484 lie in the interval { 3.40-4.19}

So the average of Quality of General Examination to quality assessment of PHC clinics services according to children's caregiver is 3.4484 which consider a Heigh level: since the interval of levels as follow:

Low level: [1-2.59]

Moderate level: [2.60-3.39]

Heigh level: [3.40-5]

Table (3.2) Quality of General Examination to quality assessment of PHC clinics services
according to children's caregiver

Questions		strongly agree	agree	Neutral	Disagree	strongly disagree	%	mean	SD	sample orientation
When I visit the	N	73	96	71	39	1	74%	3.72	1.014	agree
health center, the	%	26%	34%	25%	14%	0%				
health worker asks										
me the reason for the										
visit										
	N	65	98	79	30	8	73%	3.1	1.04	agree
dangerous symptoms of the child	%	23%	35%	28%	11%	3%				
Temperature	Ν	56	92	105	26	1	73%	3.63	0.918	agree
measurements are taken every time I visit the health center	%	20%	33%	38%	9%	0%				
	Ν	64	126	48	38	4	75%	3.74	1.004	agree
health worker about my child's ability to eat or breastfeed	%	23%	45%	17%	14%	1%				
Weight and height	N	70	95	37	54	24	70%	3.48	1.287	agree
measurements are taken every time I visit the health center	%	25%	34%	13%	19%	9%				

										155111 E/ 55 / CE
I am asked about the	Ν	50	46	50	86	48	57%	2.87	1.364	Neutral
condition of my child,	%	18%	16%	18%	31%	17%				
if he has ever lost										
consciousness	NT	4.0	0.0	50	10	50	(10)	2.04	4 9 4 9	D.
I was asked about my	N	42	80	58	48	52	61%	3.04	1.343	Disagree
child's condition if he	%	15%	29%	10%	27%	19%				
has hearing problems										
My child's	Ν	53	104	38	59	26	67%	3.35	1.262	disagree
nasopharyngeal	%	19%	37%	14%	21%	9%				
examination was										
performed by a										
health worker										
The health worker	Ν	88	112	32	29	19	76%	3.79	1.189	Neutral
inquires about my	%	31%	40%	11%	10%	7%				
child's condition if he										
has diarrhea										
Health worker ask	Ν	62	87	69	48	14	70%	3.48	1.158	agree
me if my child suffer	%	22%	31%	25%	17%	5%				
from any digestion										
problems.										
weighted mean 3.42										
std. deviation 1.1579									]	
L									-	

#### **3.Quality of Counseling**

Table (3.3) shows (Quality of Counseling to quality assessment of PHC clinics services according to children's caregiver ) ,from which we find that the heights average was awarded to the question (I am told what to do if my child has a side effect from the vaccine) with mean 4.23 and std. deviation 0.723,followed by question (I am told about the immunizations my child will receive and when the next remaining immunizations are due) with mean 4.16 and std. deviation0.831 , With strongly agree by percent (36%, 38% respectively) and agree by percent (55%, 46% respectively).

While lowest average was awarded to the question(I always visit the health center in order to receive health services for my child) with mean2.66 and std. deviation1.428 ,followed by question ( The health worker explains ways to avoid the current problem my

child is suffering from) with mean 3.2 and std. deviation 1.09, With strongly agree by percent (0%, 26% respectively) and agree by percent (48%, 38% respectively)

Weighted average of section 3 was 3.6711 and std. deviation 0.55447 which indicate the trend of ( Quality of Counseling to quality assessment of PHC clinics services according to children's caregiver ) is agree as a general trend according to 5-point Likert scale show in table (3.6 ) since 3.6711 lie in the interval {3.40-4.19 }

So, the average of Quality of Counseling to quality assessment of PHC clinics services according to children's caregiver is 3.6711 which consider a high level: since the interval of levels as follow:

Low level: [1-2.59]

Moderate level: [2.60-3.39]

Heigh level: [3.40-5]

## Table (3.3) Quality of Counseling to quality assessment of PHC clinics services according to<br/>children's caregiver

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sample
orientatio
n
Neutral
agree
agree
0
Neutral
agree
agree
agree
agree
agree

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I am told about the immunizations my child will receive N 106 130 29 14 1 83 4.16 0.83 agree   1 38 46 10 5% 0% % 1 <td< th=""><th></th></td<>	
child will receive % % %	
and when the next	
remaining	
immunizations are	
due	
I am told what to do   N   101   153   18   6   2   85   4.23   0.72   strongly	
if my child has a side $\frac{1}{20}$ 36 55 6% 2% 1% % 3 agree	
effect from the % %	
vaccine	
I always visit the N 1 135 26 3 115 2.66 1.42 Disagree	
health center in % 0% 48 9% 1% 41% 8	
order to receive %	
health services for	
my child	
weighted mean 3.65	
std. deviation 0.55	

#### Discussion

Research on patient satisfaction with primary healthcare services has been conducted in many countries around the world. A systematic review of 95 studies from 31 countries found that overall patient satisfaction with primary healthcare services was high, with a mean satisfaction score of 72.5 out of 100 [5]. Another systematic review of 61 studies from low- and middle-income countries found that patient satisfaction with primary healthcare services varied widely, with mean satisfaction scores ranging from 40.1 to 93.6 out of 100 [6]. Factors that influenced patient satisfaction included provider-patient communication, provider competence and technical quality of care, access to services, and availability of medicines. However, there have been numerous studies that have investigated the quality of primary healthcare clinic services and the general examination conducted by pediatric providers. Some of these studies have found similar results to the one mentioned, while others have found varying degrees of agreement between the two.For example, a study conducted in Nigeria found that there was a moderate level of agreement between the general examination conducted by healthcare providers and the quality of healthcare services provided to children in primary healthcare clinics [7].

Similarly, a study in the United States found that the quality of general examination conducted by pediatricians was moderately associated with the quality of preventive care provided to children [8]. the average score of 3.65 for the quality of counseling dimension falls within the range of what is considered a high level of satisfaction with counseling services.a systematic review of studies on patient satisfaction with mental health services found that the mean score for satisfaction with counseling/therapy services was 4.23 out of 5, with a range of 3.4 to 4.8 across studies [9]. Another study that assessed satisfaction with counseling services in primary care settings found that the mean score for satisfaction was 4.31 out of 5, with a range of 2.63 to 5.0 across clinics [10].

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