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A STUDY ON PREGNANT WOMEN'S SATISFACTION WITH PRIMARY

HEALTH CARE SERVICES IN BASRA

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ABSTRACT

The study was designed to assess some aspects of expressed maternal (pregnant women) satisfaction of care provided at 34 primary health care centers within the first and second sectors for Primary Health Care in Basra City. The study covered a sample of 400 pregnant women attending for maternal health care. Each individual in the sample was interviewed using a specific questionnaire form. The results indicated that most of women attending antenatal care are fairly satisfied with care provided, but the level of satisfaction was mostly in the middle scale. A small percentage 4.5% expressed unsatisfaction with the overall quality of care. When women were requested to suggest ways to improve care, they suggested providing the primary health care centers with ultrasonography which was the prime concern by 61.25% followed by 41.25% who regard the crowdedness and reception, and 33.75% provision of dentist, increase no. of doctors 6.25%, provision of female staff at the maternal health care unit 3.75%, location of the health centre and location of the

maternal care unit within the centre 2.5% and 5% respectively.

KEYWORDS: Pregnant Women, Primary Health

INTRODUCTION AND LITERATURE REVIEW

The Concept of Antenatal Care

The word 'antenatal' relates to any event or condition that occurs or exists in the embryo or the mother during the period between conception and delivery of the infant. Antenatal care, therefore, is the care of a pregnant woman and her fetus by health care staff from conception to the onset of labor (1).

In addition to providing antenatal care, health professionals in the primary health care centers perform face-toface education for all pregnant women on issues such as pregnancy, delivery, and the postpartum period, and also recommend a schedule for the next visits. Pregnant women can select their own health professionals for receiving prenatal care and the education they need. (2)

The effectiveness of antenatal care is not only the aim but also improving maternal satisfaction with health care services. (3) The knowledge about users' views is still very limited, especially in the developing countries (4).

The number of pregnant women in the developing countries receiving antenatal care during pregnancy has increased significantly since 1990 about 20 % ⁽⁵⁾.

What is Meant by Clients' Satisfaction?

Patient or consumer satisfaction may be defined as the multiple evaluation of different aspects of health care

which is determined in some way by the individual expectation, attitude and comparison process. It represents a general patient overall assessment of physician delivered care and other related activities within a given setting ⁽⁶⁾.

Importance of Satisfaction in the Evaluation of Health Care

The measurement of patients' satisfaction is a common component of many evaluations. It is a wholly subjective assessment of the quality of health care and, as such, is not a measure of final outcome. Evidence has suggested that care which is less than satisfactory to the patients is also less effective because dissatisfaction is associated with noncompliance with treatment instructions, delay in seeking further care and poor understanding and retention of medical information⁽⁷⁾.

How to Achieve Clients' Satisfaction

Satisfying pregnant women is achieved through satisfying their needs and expectations, which in turn causes a pleasant feeling in them and promotes their mental health and brings about a feeling of calmness and security. The better the needs and expectations are satisfied, the satisfaction achieved will be more profound and complete and vice versa i.e. failure to satisfy their needs causes anxiety and imbalance ⁽⁸⁾.

Without complete identification of the perceptions and expectations of the population receiving a service, any effort for satisfying them will certainly be defective. Such identification is based on paying continuous attention to their expectations and also on the criteria they use to evaluate the quality of the services provided ⁽³⁾.

If health care provider fails to perform in a way that conforms to patients expectations, it will be reflected negatively on patient satisfaction and may increase the frequency of doctor visiting. (9)

METHODS OF MEASURING SATISFACTION

There are two methods of measuring patients' satisfaction, which are qualitative method and quantitative method. In qualitative method, there are three ways of measuring satisfaction such as managerial observations, employee feedback programs and focus groups.

By using quantitative method, there are five ways of measuring satisfaction such as comment card, self-administered patients survey, personal interview survey, telephone survey, and mystery shoppers (10)

Also it has been shown that patients reported levels of satisfaction reflect doctors' technical competence as judged by independent, population assessors. Thus, satisfaction or dissatisfaction is an intermediate outcome that may reflect a failure to answer patients' needs, meet their expectations, or provide an acceptable standard of service. (7)

Clients' Opinions as Feedback Measure to Improve the Quality of Care

An important characteristic of investigating satisfaction is that it evaluates the opinions of the population receiving related services, i.e. the people whose satisfaction leads to effectiveness, acceptance, and collaboration in all health programs.

This acceptance and compliance should continuously be evaluated and measured, in order to promote the quality of health programs and also to prevent dissipation of the precious human resources and the heavy costs involved in these health centers. (2)

The study objectives

- To determine the extent to which pregnant women attending Primary Health Care (PHC) Centers are satisfied with the care provided.
- To obtain their opinions on major deficiencies, as identified by the clients themselves and to gather clients' suggestions for further improvements of quality of care provided at PHC Centers.
- To find out if there is any association between level of satisfaction and selected characters.

METHODOLOGY

The study setting, study sample and data collection

A cross sectional study was conducted in the first and second primary health care sectors in Basra. 34 primary health care centers within first and second sectors were covered in the study. Four hundred pregnant women attending primary health care for ANC (antenatal care) were included in the study.

The participants were selected in series in a health institution on a randomly selected day and were those coming for antenatal visit. First, we selected one day from five working days of the week to visit each health care centre. On that day, we enrolled the women in sequence (meaning pregnant women visiting the clinic one after another as they presented on the day that was randomly fixed for conducting the study in that primary health care centre).

The data on satisfaction were obtained through a direct interview of each woman included in the sample using a specific questionnaire form, during the study period, the investigator visited the waiting area of the antenatal clinics and explain the purpose of the study to waiting mothers and obtained their verbal consent to participate, their replies were noted. The response of the person accompanying the woman was not noted. All pregnant women were informed about their right to participate or refuse this interview, in fact in the field of our study, all enrolled women agreed to participate and there were no pregnant women who refused the interview. The interviews were conducted in an area with adequate confidentiality and without any involvement of health care providers.

The Study Variables

- **Personal Characteristics:** such as age, place of residence, education whether she is illiterate or attending primary, intermediate, secondary or higher education and nature of work (Governmental employee, housewives or others {students and self employed}).
- Accessibility to Health Care Centers: Two aspects were assessed, first was the travel time which is the time in
 minutes taken to arrive to the health centre as an indicator of geographical accessibility to the services. The
 second was the waiting time which is the time in minutes spent by each woman at the health centre in waiting to
 receive the health care services.
- Satisfaction: This aspect concentrated on pregnant women points of view (expressed satisfaction in terms of very satisfied, satisfied to a great extent, satisfied to some extent and not satisfied) on the services received by pregnant women in the form of clinical examination and laboratory investigations, treatment of existing conditions, next visit appointment, education about health and nutrition, crowdedness, cost of transportation, availability of medicine, provision of supplements, privacy, time spent for each pregnant woman, response of doctor to woman inquiry,

hygiene, equipment supply, type of building and the overall rating of care in the centers.

• Suggestions of Pregnant Women, to improve healthcare at these primary health care centers, women were requested to give their own suggestions.

Statistical Analysis

The Statistical Package for Social Science (SPSS), Version16 was utilized for the purpose of statistical analysis of the data.

RESULTS

General Characteristics

The general characteristics of the studied pregnant women are described in Table 1

Age the age of the study population ranged between 14-45 years. The majority were in the age groups 20-29 and 30-39 years, 52% and 28.5% respectively. Those below 20 years represented 17.5%. While those above 40 years represented only 2%. In the current study the mean age of the study sample was 25.86 ± 6.116 .

Education

With respect to education, about half of the study population (47.8%) were either illiterate and not complete primary education, 24% attained education up to intermediate level, secondary education was attained by 14.8% while higher education was attained by 13.5% of the pregnant women included in the study. Mean years of education was 7.74 with S.D=4.306.

Occupation

Most pregnant women were housewives (86.5%), followed by governmental employees who formed 13% of the pregnant women, while only 0.5% were students.

Residence

All users of the primary health centers from the catchment areas of these centre.

Table 1: Characteristics of the Studied Population

A. Age (Years)	Frequency	%
<20	70	17.5
20-29	208	52
30-39	114	28.5
40+	8	2
Total	400	100
Mean <u>+</u> SD	25.86 <u>+</u> 6.116	
B. Education(years)	Frequency	%
Illiterate	13	3.25
<6 year	178	44.5
Up to intermediate(up to 9)	96	24
Secondary(up to12)	59	14.8
Above secondary(>12)	54	13.5
Total	400	100
Mean <u>+</u> S.D	7.74 <u>+</u> 4.306	
C. Occupation	Frequency	%

Table 1: Contd.,					
Students	2	0.5%			
Housewives	346	86.5%			
Governmental employees	52	13%			
Total	400	100			

Accessibility to the Health Care Centers

Accessibility to health care as indicated by the time spent by each woman to reach the health centre and the time spent by each pregnant woman in waiting or receiving the intended care is shown in **Table 2**

It seems that most of the users need short time to reach the health centre, most of the women need 10-15 minutes to reach the health centre (79.8%) while only 0.2% need more than 30 minutes to reach the health centre, with mean arrival time=11.3625 and S.D=5.12560. (**Table 2-A**).

The waiting time was markedly longer than arrival time (**Table 2-B**) shows that the waiting time for 33.75% of pregnant women was 120 minutes, 11.25% of them spent 90 minutes, 12.5% spent 30 minutes, 27.75% spent 60 minutes and 14.75% spent more than 120 minutes with mean waiting time=99.5,S.D=5.220.

Table 2: Time Spent by Pregnant Women on Travel to the Centre, and Waiting at the Health Centre

Time Spent in Minutes	Pregnant Women frequency	%
A. Travel time to the health centre	Frequency	%
<10	68	17%
10-14	319	79.8%
15-19	3	0.8%
20-29	9	2.2%
30+	1	0.25
Total	400	100
Mean <u>+</u> SD	11.3625 <u>+</u> 5.12560	
B. Waiting time at the health centre	Frequency	%
30-59	50	12.5 %
60-89	111	27.75%
90-119	45	11.25%
120-	135	33.75%
>120	59	14.75%
Total	400	100
Mean <u>+</u> S.D	99.5 <u>+</u> 5.22	

Recurrence of Visit to Primary Health Care Centre

Most of the pregnant women included in the study were recurrently using the health centers for maternal health Care.

Table 3: Recurrence of Visit to the Primary Health Care Centre

Recurrence of Visit to Primary Health Care Centre	Frequency	%
First visit	59	14.75%
Recurrent visit	341	85.25%
Total	400	100

The Advocators of Pregnant Women to Use Maternal Health

Table 4 shows the distribution of pregnant women according to the source of advice to visit antenatal care at the primary health care centers. The results show that 60.25% of the pregnant women attending the primary health care centers for maternal health care did so by their own initiatives, the remaining 39.75% were advised by their relatives (husbands and other family members).

Table 4: The Advocators of Pregnant Women to Visit Primary Health Care Centers for Antenatal Care

Advice Given	Number	%
Self initiative	241	60.25%
Husband	49	12.25%
Other family members	110	27.5%
Total	400	100

Services Received by Pregnant Women at the Health Centers

In addition to preventive and curative services, women were interviewed about specific items of services expected to be provided during their visits to the primary health care centers (measurement of blood pressure, body weight, hemoglobin and urine test).

The results are shown in **Table 5**, none of the listed services were done to 0.02% of the pregnant women, but multiple services were done for 99.5% of them, while the rest 8.2% received other services.

For all pregnant women, tetanus toxoid vaccination during the current pregnancy was done for 88% of them

Table 5: Type of Services Done to Pregnant Women Visiting Primary Health Care Centre

Type of Service	Frequency	Percentage
A. Clinical and Lab. Examinations:		
None	1	0.02%
Blood pressure	379	94.5%
General urine examination	394	98.5%
Body weight checking	399	99.8%
Hemoglobin	398	99.5%
Multiple services	398	99.5%
Others	33	8.2%
B. Vaccination during current Pregnancy	352	88%

Pregnant Women's Satisfaction as an Assessment of Quality of Care

It seems from **Table 6** that pregnant women were fairly satisfied with the care provided by doctors at primary health care centers. When women were requested to rate the overall quality of care provided to them, only 4.5% of the pregnant women expressed non satisfaction, the rest were very satisfied, satisfied to great and some extent.

Table 6: Expressed Satisfaction by Pregnant Women

Satisfaction	Very No.	Satisfied %	200022222	l to Great t No. %	10 0000	d to Some t No. %		atisfied . %	Total	No. %
Rating of overall quality of care	9	2.25	66	16.5	307	76.75	18	4.5	400	100

Pregnant Women's Satisfaction in Relation to Selected Personal Characteristics

When we examined women satisfaction in relation to specific personal characteristics, the results are shown in **table 7.** It is clear from the table that regardless of personal characteristics, the level of expressed satisfaction is high.

Few exceptions were noticed, highly educated people (those who had been educated above secondary level) expressed lower rates of satisfaction than other educational groups, occupational groups who were labeled as (Others) including students, self-employed etc.) also were less satisfied than housewives and governmental employees, with regard to age high percentage of satisfaction was expressed among women aged between 20-29 and the lowest in those older than 40.

Pregnant women waiting 90-120 minutes express the highest frequency and satisfaction rate followed by those waiting more than 120 minutes. With respect to recurrence of visit to primary health care centre, those with recurrent visit showed higher frequency and satisfaction rate in comparison with those of first visit.

Table 7: Pregnant Women's Satisfaction in Relation to Selected Characteristics

Characteristics A. Age(Years):	Very Sa	atisfied %	Satisfie extent	d to Great No. %	Satisfie extent	d to Some No. %	Not S No.	Satisfied %	Tota	l No. %
<20	1	0.25	17	4.25	49	12.25	3	0.75	70	17.5
20-	6	1.5	35	8.75	160	40	7	1.75	208	52
30	2	0.5	12	3	92	23	8	2	114	28.5
40+	0	0	2	0.5	6	1.5	0	0	8	2
Total	9	2.25	66	16.5	307	76.75	18	4.5	400	100
B. Education	Very sa	atisfied	Satisfie	d to great	Satisfie	ed to some	Not s	satisfied	Т	otal
(years):	No.	%	extent	No. %	extent	No. %	No.		No.	
Illiterate	0	0	4	1	9	2.25	0	0	13	3.25
< 6 year	2	0.5	33	8.25	138	34.5	5	1.25	178	44.5
Up to intermediate	4	1	12	3	75	18.75	5	1.25	96	24
Secondary	1	0.25	8	2	45	11.25	5	1.25	59	14.75
Above secondary	2	0.5	9	2.25	40	10	3	0.75	54	13.5
Total	9	2.25	66	16.5	307	76.75	18	4.5	400	100
C. Occupation:		atisfied . %		d to Great t No. %		d to Some t No. %		Satisfied o. %		otal o. %
Housewife	7	1.75	58 14	4.5	268	67	15	3.75	348	87
Governmental employee	2	0.5	8	2	37	9.25	3	0.75	50	12.5
Others	0	0	0	0	2	0.5	0	0	2	0.5
Total	9 2	2.25	66	16.5	307	76.75	18	4.5	400	100
D. Waiting Time (minutes)	Very Sa No.	atisfied . %	ex	d to Great etent o. %		d to Some t No. %		Satisfied o. %		otal o. %
30-		0.25	5	1.25	1	0.25	0	0	7	1.75
60-	8	2	19	4.75	16	4	5	1.25	48	12
90-120	0	0	41	10.25	232		13	3.25	286	71.5
>120	0	0	1	0.25	58	14.5	0	0	59	14.75
Total		2.25	66	16.5	307	76.75	18	4.5	400	100
E. Type of the current Visit	No.	atisfied . %	exten	d to great t No. %	exten	ed to some at No. %	N	satisfied o. %	N	otal o. %
First visit	2	0.5	7	1.75	47	11.75	3	0.75		14.75
Recurrent		1.75	59	14.75	260	65	15	3.75	341	85.25
Total	9	2.25	66	16.5	307	76.75	18	4.5	400	100

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Level of Women's Satisfaction toward Specific Objective Evaluation

299

Cost

74.75

100

As shown in Table 8, satisfaction to good extent was the highest percentage recorded by pregnant women in the clinical examination 55.8%, laboratory investigation 65%, treatment of existing condition 62.8%, appointment system 79%, information about pregnancy and education about nutrition 49%, supplements of the health centre 50%, time spent with each woman 59%. Privacy 69.2%, inquiry 69.2% and hygiene 62.8%. Crowdedness 60.8% and medicine supply 70% demonstrate the highest percentage in satisfaction to some extent, pregnant women gave 74.8% to cost of transportation, the crowdedness was the highest percentage in the no satisfaction score (17%).

Satisfaction Rate toward Good Some Not Total Very Good **Specific Objective Satisfied Extent** Extent **Evaluated** No. (%) No. % No. % No. % No. % Clinical 29 12 3 223 55.75 136 34 7.25 400 100 examination. 4 1 260 65 134 33.5 2 0.5 400 100 Lab. investigation. Treatment of 10 2.5 251 122 30.5 17 4.2 100 62.8 400 existing condition 22 5.5 316 79 60 15 2 0.5 400 100 Appointment Education about 11 2.75 196 49 166 41.5 27 6.75 400 100 nutrition 12 77 17 400 Crowdedness 3 19.2 243 60.8 68 100 3 0.75 112 28 280 70 1.25 400 100 Medicines 200 5 400 Supplements 11 2.8 50 184 46 1.2 100 Time spent for 19 4.8 236 59 113 28.2 32 8.0 400 100 each patient 19.8 Privacy 17 4.2 277 69.2 79 27 400 100 6.8 4.5 277 69.25 85 21.25 20 5 400 100 Response to inquiry 18 251 34.25 0.25 400 Hygiene 11 2.75 62.75 137 100 Equipment 11 2.8 197 49.2 190 47.5 2 0.5 400 100 Building 19 60.75 22 400 100 4.75 116 29 243 5.5

Table 8: Level of Women Satisfaction toward Specific Objective Evaluation

Table 9: summarizes the suggestions of women to improve the health care provided by primary health care centers.

25

1

0

0.25

400

0

100

Nearly two thirds of the women interviewed (61.25%) of the pregnant women) pinpointed to the provision of ultrasonsgraphy and 41.25% regard the crowdedness and reception and suggested improvement in this aspect of care. Provision of dentist was suggested by 33.75%, improvement in the drug supply was suggested by 20%. Increase no. of doctors was the suggestion of 6.25%, 3.75% suggested the need for maternal care unit to be served by a female staff and only few 2.5% gave suggestion regard the location of the health centre and 5% recommended the maternal care unit to be placed at the ground floor, 27.8% of women gave no suggestion.

Table 9: Suggestions Given By Pregnant Women to Improve Care

No	Suggestions	Frequency	%
1	Provision of ultrasonography	245	61.25
2	Improve the crowdedness and the reception	165	41.25
3	Increase number of doctors and staff	25	6.25
5	Provision of dentist	135	33.75

	Table 9: Contd.,		
	Location of primary health care		
6	centre	10	2.5
7	Maternal unit at ground flour	20	5
8	Provision of female staff	15	3.75
9	Improving drug supply	80	20
10	No suggestions	111	27.75

DISCUSSION

Satisfaction with antenatal care services motivates pregnant women to seek and continue antenatal care whereas dissatisfaction with antenatal care services results in decreased utilization ⁽¹¹⁾. It is well known that most deaths can be prevented if adequate and timely obstetric care is provided but if nothing is being done to avert maternal deaths, it will be rose to 1000–1500/100, 1000 live births, which is unacceptably very high. ^(12,13) Therefore it is our widespread desire to improve maternal care and make optimum use of women contact with health services. Furthermore it is also important to identify which interventions are effective and how best to deliver them.

The final result of this study showed that 96% of the pregnant women were satisfied with the service that they had received, divided into 2.25% very highly satisfied, 16.5% good satisfaction, 76.75% express satisfaction to some extent while the non satisfied women represent 4.5%.

Similar study which was conducted in 2005 illustrated that level of satisfaction of the pregnant women was higher, from 218 pregnant woman who received antenatal care at four primary health care centers included in the study within the first sector in Basra city it was reported that the satisfaction of pregnant women with the overall service that they had received was 98.2%, divided into 41.3% very highly satisfied, 56.9% fairly satisfied, only 1.8% had no satisfaction at

all (14)

The results of this study, in general, agree with many previous studies carried out in different places in Iraq, for example, previous interview studies carried out in Basra in 1989-2000, reported a wide range of satisfaction with various components of antenatal care⁽¹⁵⁾. In a study carried out in Turkey in 2004 about the level of satisfaction of pregnant women with public health centre, the results reveal that they were somewhat satisfied.⁽¹⁶⁾ A study in Malaysia in 2005 showed 56.7% overall rating of satisfaction.⁽¹⁷⁾

Investigating women's satisfaction with antenatal care received at the primary health care centers of Shirvan Chardaval, Iran in 2005 revealed a total of 89.8% of the women had very high or high satisfaction with the antenatal care schedule while 10.2% of them had low or very low satisfaction ⁽¹⁸⁾. The study which was conducted by Mawajdeh et al on an assessment by pregnant women receiving antenatal care from maternal and child health centres in Irbid, Jordan, showed that the majority (94%) were satisfied with the service received ⁽¹⁹⁾. A study carried out in Karachi and Hydarabad in Pakistan in 2005 revealed that satisfaction with over all care was 49.6% ⁽²⁰⁾, similar study carried out in Khartoum in Sudan in 2009 resulted in 22% reported full satisfaction ⁽²¹⁾. Also there was a study in the Mosandom region of Oman in 2005 revealed that 59% of the participants were in the excellent grade, the rest of the participants reported "very good" levels of satisfaction. ⁽²²⁾

A study of client satisfaction towards antenatal care service in the maternal and child health hospital in Thailand found that most of the respondents (91.8%) were satisfied with the service given and behavior of service providers (10).

Regarding the laboratory services, in the present study, the pregnant women included in the sample gave 65% to good satisfaction with laboratory services.

The dissatisfaction with the laboratory services were noted in a study carried out in the Mosandom region of Oman at 2005⁽²²⁾. These issues were also the reasons for low satisfaction in a study covering four countries including Saudi Arabia in 2003 (a neighboring country of the present study area). (23)

Waiting time had been reported to influence the level of satisfaction of the clients⁽²³⁾ Waiting time emerged as an important predictor of satisfaction and long waiting time had been associated with dissatisfaction with care in many studies. The present study revealed longer waiting time associated with less level of satisfaction, those who waited more than 120 minutes constituted 14.75%. Similar finding was obtained by a study carried out in Oman in 2005⁽²²⁾, two studies carried out in 2005 one in Iran⁽¹⁸⁾ and the other in Karachi and Hydarabad in Pakistan⁽²⁰⁾, and a study carried out in Khartoum at 2009 ⁽²¹⁾.

Previous study by Greene reported that there was positive correlation and significant relationship between level of satisfaction and waiting time whereas patients who wait shorter time were more satisfied compare with patients who wait long time. The above results showed that waiting time is a major factor to be addressed for ANC⁽²⁴⁾.

Although we did not have any benchmark for the time required at different stages of the antenatal care, grievances about delays, especially in the laboratory tests should be taken into consideration in the future.

With regard to physical examination during the visit to the health centre, our study resulted in a good satisfaction (55.8 %), and 7.2% not satisfied with clinical examination, like a study in Iran which reveals that more women were satisfied with completeness of physical examination and competence of the provider⁽¹⁸⁾.

Regarding education about nutrition and other information received during this period of women life, our study revealed that 49% were highly satisfied with the education about nutrition and other information, while 6.8% expressed no satisfaction. In contrast to a study carried out in Iran in $2007^{(18)}$, 60.2% of the mothers had very low satisfaction with the education received during antenatal care, while 39.8% of them were very highly satisfied. A study in Pakistan showed that 68.3% of the women were satisfied with the information and instructions had been received during $ANC^{(20)}$, a study in Saudi Arabia reported that the information were good in amount and quantity⁽²⁵⁾.

In the current study good percentage (59%) of the participants were more satisfied when their providers spent more time with them and when their providers engaged them by listening to their problems, answering their questions and interest shown in their feeling, which is similar to the result of the Iran study⁽¹⁸⁾. While in a study in Saudi Arabia, the women didn't feel confident enough to ask and because doctors do not necessarily respond to their question. (25)

Based on level of education, this study found that patients who were illiterate and those with <6 years education were more satisfied (47.75%), than intermediate (23.95%), secondary (14.75%) and higher education (13.5%), this result was similar to the result of a study carried out in Basra in 2005 in which those who had higher education reported the lower level of satisfaction (23.1%), ⁽¹⁴⁾ while the study of Shirvan Chardaval in Iran in 2005 showed that those with secondary education were more satisfied (63.8%) than primary (44.8%) and tertiary education (56.5%) ⁽¹⁸⁾. The study of Mosandom region in Oman revealed that 79.5% of the participant women were educated and this reflected positively on their satisfaction. ⁽²²⁾

The finding of our study was similar to that of a study conducted by McCrea and Marion in Malaysia at 1999⁽²⁶⁾. A study involved 154 women in Northern Ireland, the result of their study showed that there was no relationship between satisfaction and education level. However, previous old study which was conducted by Pascoe at 1983 found that higher education is associated with greater satisfaction.⁽²⁷⁾

Regarding women s' occupation, housewives & employees were more satisfied (87% and 12.5%) respectively, with the antenatal care schedule as compared to other subject groups (0.5%) which is the result of the present study, also a study in 2005 resulted in that those who were labeled as "others" including the self employees and students were less satisfied (13.5%) than housewives and governmental employees. (14) The results from previous studies carried out in Iran (18), Malaysia (17) showed that workers were more satisfied (57.4%) than non workers (51.4%).

With regard to the age and level of satisfaction, the present study demonstrates that higher satisfaction rate was among those aged between 20-29 (52%) and the lower rate was in women whose age was more than 40 years (2%), this result is similar to the result of a study in 2005 which reveals that those who were 40 year and above had the lower satisfaction rate (3.8%) (14). Studies had been done in Iran⁽¹⁸⁾, Malaysia⁽¹⁷⁾, Oman⁽²²⁾ revealed that younger women were more satisfied than the older, however, study by Pascoe⁽²⁷⁾ showed that increased service satisfaction was found to be significantly and positively associated with being older.

One of the factors which is related with the continuity of care was the number of visits. The Malaysian study reported that a positive relationship exists between previous visit at the similar hospital and the pregnant women total satisfaction score.⁽¹⁷⁾

It is similar to the finding of this study which reveals that recurrent visitors are more satisfied than those of first visit to the health care centre. A study in Malaysia found that number of visits and satisfaction were significantly associated.⁽¹⁷⁾

Studies examining the cost of care in Turkey⁽¹⁶⁾ and Malaysia⁽¹⁷⁾ had found that the higher the cost, the lower the level of patient satisfaction, it was similar with the finding of the present study which reveals that pregnant women were satisfied with the low cost of antenatal care services (the service is free of charge).

Satisfaction with getting medicines, our study resulted in that 70% were satisfied to some extent, a study in Malaysia reported that 36.6% were satisfied with medicines supply. (17)

CONCLUSIONS

Generally, most of the pregnant women were satisfied with the service that they had received. Also they were satisfied with multiple aspects of care in the health centre in the form of clinical examination, laboratory investigation, treatment of existing condition, appointment system, education about nutrition, supplements of the health centre and equipment supply, also they were satisfied with the time spent with doctors, privacy, response to their inquiry and the health care center hygiene, and the cost of services available.xnbbbnm

However, pregnant women were less satisfied with the crowdedness at the health care centers and to the medicines supply. Our study concluded that highly educated, older women and those who wait longer at the health care center expressed less satisfaction.

This study concluded that antenatal care provided needs improvement, and concluded that measures should be taken to improve public sector services through increasing resources, adequate medicine supply and reduce waiting

time. Furthermore awareness among women should be created to properly utilize services, which are being provided to them, increase their attention to improve the quality of services provided.

RECOMMENDATIONS

- This report to be presented to the health authorities in Basra.
- This survey need to be repeated after a time to check any change in the clients' perception and satisfaction.
- Increase in the number of doctors and improving the facility of the clinic are important things which should be
 considered by the maternal health care centre management to improve the level of pregnant women's satisfaction
 in antenatal clinic.
- Application of effective appointment service (day and time of visit).

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