ABSTRACT

Objective: To assess the quality of antenatal care provided to pregnant women in our set up at social security Hospital Rawalpindi.

Study Design: Cross sectional

Place and Duration of Study: Department of Obstetrics and Gynaecology, Social Security Hospital, Islamabad from October to December 2011.

Materials and Methods: Women attending the antenatal OPD were interviewed using a pre tested semi structured questionnaire. A total of 285 women were included in the study. They were interviewed at their first antenatal visit.

Results: Mean age of study population was 30 years and parity ranged from 0- 7. Majority were house wives and had their monthly family income less than 10,000 Rupees. Majority of the patients were multigravida. All (100%) patients were looked after by doctors in Out- Patient Department (OPD). About 34.78% patients were educated about complications of Labour. Only 16.84% and 28.42% patients got advice about antenatal exercises and episiotomy care respectively. More than half (56.8%) patients were counselled for delivery in hospital, 26.31% patients were given contraception advice. About 57% received specific dietary advice for pregnant ladies and 45.26% were told about importance of breast feeding.

Conclusion: Our study concluded that adequate antenatal care does not mean merely establishment or improvement of health centers or antenatal clinics, adequate supply of medicines and reducing waiting time, but it also involves education of pregnant women about good antenatal care and different health related issues.

Key words: Antenatal, labour, family planning, immunization, lactation.
Hospital, Islamabad. This hospital is providing health facilities to 318,000 registered patients (secured workers and their dependents). About 80 patients' daily visit the out-patient department in Gynaecology department. In obstetric set up of Social Security Hospital, antenatal care is provided by women medical officers' under the supervision of a gynecologist. Record of antenatal visits is kept on specially designed antenatal cards to select high risk patients. Antenatal record includes detailed history, findings of examination, details of investigations and ultrasonography. It also contains advice including hospital delivery especially in high risk patients, tetanus prophylaxis and warning signs of labour. The patients include wives of secured workers who are entitled in the hospital for free of cost treatment. So no patients are lost to follow up.

Inclusion Criteria
A total of 285 patients attending the antenatal OPD were included in the study. They were interviewed at their first antenatal visit.

Data was collected through semi structured pre tested questionnaire and by interviewing the patients. The questionnaire was written in easy Urdu, so that most of the patients could read and understand it. Those not able to read Urdu were interviewed by the women medical officers (WMO) of Gynae department.

The variables included were sociodemographic factors, health information and satisfaction for resources. Questionnaire sought information about bio data, factors affecting antenatal attendance and knowledge about antenatal services. Data collected was entered on SPSS- 12 and was analyzed. The results were shown in percentage.

Results
The mean age of women was 30 years and parity ranged from zero to seven. Most of the patients (84.2%) were less than 30 years old and 15.78% were more than 30 years. Majority of them belonged to poor socioeconomic group as 89.47% had their monthly family income less than 10,000 Rupees. Only 5.26% patients had income between 10,000- 15,000 Rupees and a similar proportion more than 15,000 Rupees. Majority (91.57%) patients were house wives and 8.42% were self-employed in mills and schools. In our study, 135 (47.36%) women were educated to secondary level, 57 (20%) had got primary education, 33 (11.57%) were graduates and 12 (4.21%) had master degree; however 48 (16.84%) patients were illiterate. In the study population, 22.1% patients were primigravidas, 74.3% were multigravida and 3.6% were grand multipara. All (100%) were attended by doctors (medical officers, specialists/consultants) in OPD. All women were aware of at least one or two methods of family planning.

Table I shows distribution of different factors which affect attendance of Pregnant patients in antenatal care OPD.

Table II shows the education of women during antenatal visit. Regarding different aspects of patient's education or instructions given to the patients by their attending doctors during their check-up, 99 patients (34.73%) were counseled about complications or problems of labour, 201 (70.52%) were counseled regarding immunization against tetanus, 129 (45.26%) were emphasized about benefits of breast feeding, its importance and standard
methods of lactation. More than half (57.89%) patients were educated about specific dietary needs of pregnant ladies, and possible psychological problems in pregnancy and puerperium were discussed with 33 (11.57%) patients. Only 48 (16.84%) ladies received information about antenatal exercises and 84 (28.42%) patients were counseled about the possibility and care of episiotomy. Need for hospital delivery was emphasized during counselling of 56.84% patient.

About 60% patients were satisfied with the overall care provided to them; however 40% showed their concerns over quality of care. Most of them were unsatisfied about waiting time in outpatient department. Most of them said that they had to wait for more than two hours. Especially worth mentioning was their apprehension about delay in getting laboratory investigations. About 70% women were worried about getting medicines and shortage of medicines.

<table>
<thead>
<tr>
<th>Variables</th>
<th>Number of women attending antenatal clinic n= 285</th>
<th>percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Age in years</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Less than 30 yrs</td>
<td>240</td>
<td>84.2%</td>
</tr>
<tr>
<td>More than 30 yrs</td>
<td>45</td>
<td>15.78%</td>
</tr>
<tr>
<td>Woman's education</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Illiterate</td>
<td>48</td>
<td>16.84%</td>
</tr>
<tr>
<td>Primary</td>
<td>57</td>
<td>20%</td>
</tr>
<tr>
<td>Secondary</td>
<td>135</td>
<td>47.36%</td>
</tr>
<tr>
<td>Graduation</td>
<td>33</td>
<td>11.57%</td>
</tr>
<tr>
<td>Masters</td>
<td>12</td>
<td>4.21%</td>
</tr>
<tr>
<td>Occupation</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Employed</td>
<td>24</td>
<td>8.42%</td>
</tr>
<tr>
<td>House wives</td>
<td>261</td>
<td>91.57%</td>
</tr>
<tr>
<td>Monthly income (Rupees)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Less than 10,000</td>
<td>255</td>
<td>89.47%</td>
</tr>
<tr>
<td>10,000- 15,000</td>
<td>15</td>
<td>5.26%</td>
</tr>
<tr>
<td>More than 15,000</td>
<td>15</td>
<td>5.26%</td>
</tr>
<tr>
<td>Parity</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Primigravida</td>
<td>63</td>
<td>22.1%</td>
</tr>
<tr>
<td>Multigravida</td>
<td>213</td>
<td>74.3%</td>
</tr>
<tr>
<td>Grandmultipara*</td>
<td>09</td>
<td>3.6%</td>
</tr>
</tbody>
</table>

**Table-I: Sociodemographic variables affecting antenatal attendance**

**Table-II: Education of women during antenatal visit**

<table>
<thead>
<tr>
<th>Sr. no.</th>
<th>Education of patient</th>
<th>number</th>
<th>percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Complications of labour</td>
<td>99</td>
<td>34.73%</td>
</tr>
<tr>
<td>2</td>
<td>Family planning services</td>
<td>74</td>
<td>26.31%</td>
</tr>
<tr>
<td>3</td>
<td>Immunization</td>
<td>201</td>
<td>70.52%</td>
</tr>
<tr>
<td>4</td>
<td>Dietary advice for pregnant women</td>
<td>165</td>
<td>57.89%</td>
</tr>
<tr>
<td>5</td>
<td>Antenatal exercises</td>
<td>48</td>
<td>16.84%</td>
</tr>
<tr>
<td>6</td>
<td>Delivery in hospital</td>
<td>162</td>
<td>56.84%</td>
</tr>
<tr>
<td>7</td>
<td>Psychological problems in pregnancy/ puerperium</td>
<td>33</td>
<td>11.57%</td>
</tr>
<tr>
<td>8</td>
<td>Lactation</td>
<td>129</td>
<td>45.26%</td>
</tr>
<tr>
<td>9</td>
<td>Care of episiotomy</td>
<td>84</td>
<td>28.42%</td>
</tr>
</tbody>
</table>

*Women having more than five viable pregnancies.

**Discussion**

High quality antenatal care is a fundamental right of women to safeguard their health and attain a desirably healthy outcome of pregnancy. It not only includes detailed history, examination, appropriate investigations and ultrasonography but also contains advice including specific dietary needs for pregnant women, preparation of patient for labour and possible problems, hospital delivery especially in high risk patients, tetanus prophylaxis and warning signs of labour. Counseling for breast feeding as well as contraceptive advice must also be included in the care of antenatal patients.

In our study, mean age of the study population was 30 years, majority of them belonged to poor socioeconomic group, they
were unemployed and had got education up to secondary level. Majority of them were multigravidae and only a minority were grand multiparas (patients having more than five viable pregnancies). This fact has also been observed in other surveys that women with high parity tend to seek advice and care less frequently.\textsuperscript{7,8}

In Pakistan, only 30% patients utilize antenatal care services, while 70% do not. Only one third of deliveries take place in hospitals. Only 25% patients are counselled about warning signs of pregnancy complications and less than half receive any postnatal care.\textsuperscript{9}

It has been emphasized in different studies that quality care has improved maternal and perinatal outcomes worldwide.\textsuperscript{10,11} About 88-98% of all maternal deaths could be avoided by proper care and handling during pregnancy.\textsuperscript{12,13} Awareness should be created for proper utilization of services.\textsuperscript{14} In this study, all pregnant women were attended by doctors. This is contrary to findings in another study conducted at a public sector hospital of Hyderabad (Sindh), most of the women reported that they received care from lady health visitors (LHV).\textsuperscript{14} Although 100% patients were attended by doctors in our study, but their actual performance in taking care of women and their education regarding various health related issues was not up to the desired level. Less than one third patients received advice about antenatal exercises, care of episiotomy and problems/ warning signs of labour. Need for hospital delivery was discussed with half of the patients. The need for proper training of medical and paramedical staff for effective delivery of available services has also been emphasized in other studies.\textsuperscript{14,15} In addition to history taking, examination and advice of appropriate investigations, improvement of women's perception and counseling about standard antenatal care is also desirable.\textsuperscript{15} This involves giving information/ education about complications of pregnancy, antenatal exercises, immunization, lactation and advice about family planning. Information should also be given about care of episiotomy. Specific psychological problems in pregnancy and puerperium must also be addressed. Good antenatal care also means hospital delivery especially in high risk patients. Dietary advice for a pregnant and lactating mother must also be part and parcel of optimal care. Medical and paramedical staff needs to be trained about the various educational needs of the patients and factors influencing patient satisfaction in order to improve quality of health care.\textsuperscript{10,16}

Most of our patients expressed their dissatisfaction about prolonged waiting time, inappropriate attitude of hospital staff and availability of medicines. Among pregnant women, long waiting time, spending time during visit, inadequate supply of medicine and attitude of medical and paramedical staff were seen to be main areas of dissatisfaction in another study.\textsuperscript{17} Need for up grading the existing facilities as well as adequate training of medical and para medical staff to improve delivery of the available facilities has also been emphasized in different studies.\textsuperscript{14,18}

**Conclusion**

Our study concluded that adequate antenatal care does not mean merely establishment or improvement of health centers or antenatal clinics, adequate supply of medicines and reducing waiting time, but it also involves education of pregnant
women about good antenatal care and different health related issues. Medical and Para medical staff needs to be trained for improving counseling skills, so that patients receive the available services and education in a more effective manner.

References

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DISCUSSION
The author's comment on the results supported with contemporary references, including arguments and analysis of identical work done by other workers. A
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