A CROSS-SECTIONAL STUDY TO ASSESS THE COMPLIANCE TO IRON FOLIC ACID TABLETS AMONG WOMEN ATTENDING ANTENATAL CLINIC

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ABSTRACT

Objective: As anemia is highly prevalent among pregnant women, the government of India took the initiative to start prophylactic iron folic acid tablets (IFA) to reduce its prevalence. Hence, this study was done with the objectives to assess compliance to IFA among antenatal women and to identify the associated factors.

Methods: The present study was a cross-sectional study conducted among 100 women attending antenatal clinics. A pre-designed semi-structured questionnaire was used to collect the data. The data were analyzed for frequency, percentage, and Chi-square.

Results: The compliance to IFA was found to be 46.15% and was significantly more in anemic pregnant women.

Conclusion: The prevalence of compliance to IFA tablets was only 46.15%. Hence, counseling and awareness to be done about the importance of taking IFA tablets regularly during the antenatal period, so that compliance can be improved.

Keywords: Iron-folic acid tablets, Antenatal women, Compliance, Awareness, Prevalence.

INTRODUCTION

As there is a high prevalence of anemia among antenatal women, India started the National Nutritional Anemia Prophylaxis Program in 1977. In this program, 100 mg of ferrous iron and 500 mcg of folic acid tablets are distributed to the antenatal women [1,2]. Despite all these efforts, still anemia is more prevalent (52.2%) among antenatal women [3,4]. The success of all these interventions depends on compliance to Iron-folic acid tablets (IFA) [5,6].

Hence, this study was done with the objective to assess the compliance to IFA tablets among women attending the antenatal clinic of Urban Health Centre, Kalaburagi.

METHODS

The study was a health facility-based cross-sectional study conducted among pregnant women attending antenatal clinic over duration of 3 months. The study area was Urban Primary Health Centre, Maktampur, Kalaburagi district of Karnataka, India.

Those pregnancies confirmed by urine pregnancy test or pelvic ultrasonography and antenatal women who were willing to participate in the study were included in the study. Antenatal women who were not interested to participate were excluded from the study.

The sample size was calculated using the Cochran formula 4pq/d² with the prevalence of anemia among urban pregnant women as 37.3%, according to NFHS-5 Karnataka [7].

Sample size (n) = 4pq/d² = (4) (0.373) (1–0.373) / (0.1)² = 0.93 / 0.01 = 93

The sample size was 93 which was rounded off to 100 antenatal women.

A pre-designed pre-tested semi-structured interviewer-administered questionnaire was used to collect the data. Anonymity and confidentiality were maintained. Informed consent was obtained.

The collected data were entered in Microsoft Excel and analyzed for frequency, percentage, and Chi-square test. p<0.05* was considered statistically significant.

Ethical considerations

Approved (ESICMC/GLB/IEC/36/2023).

Operational definitions

Medication non-compliance missing two or more doses consecutively in the last 15 days was considered as non-compliance [5].

RESULTS

Among 100 antenatal women, most women were between 20 and 29 years of age (80%), literate (97%), belonged to joint family (67%), and were from lower middle class (45%) (Table 1).

In the present study, majority (91%) were consuming IFA tablets once daily (82.41%) and were availing IFA tablets from government hospitals (73.63%) (Table 2).

In the current study, 76% of women were anemic (Table 3).

Majority (53.85%) of the woman had missed more than one dose in past 15 days. The most common reason given was, no harm to skip tablets sometimes (32.65%) followed by forgetfulness (28.57%) (Table 4).

Compliance was more in pregnant women of age >30 years (63.63%), belonging to joint family (47.54%), and lower middle class (53.33%) (Table 5).

Compliance was more in anemic (52.11%) pregnant women and association was statistically significant.

Compliance was better in women who had more than three antenatal visits (56.41%) and who were taking IFA tablets twice a day (56.25%) but association was not statistically significant (Table 6).
DISCUSSION

The present study revealed that 46.15% of the antenatal women were compliant with IFA, whereas in similar studies conducted by Choudhuri et al. [8] (52.5%), Debi et al. [9] (81.74%), Mithra et al. [10] (67.4%), Pal et al. [11] (62%), Deori et al. [12] (77.1%) the compliance was found to be higher than the present study.

In the current study, we found that the main reason given for skipping IFA tablets was no harm to skip it sometimes (32.65%), followed by forgetfulness (28.57%), whereas the study conducted by Choudhuri et al. [8], the main reasons cited were a side effect of the tablets (25.09%) followed by forgetfulness (28.07%). The study conducted by Table 4: Compliance to iron-folic acid tablets among the study participants

<table>
<thead>
<tr>
<th>Compliance to IFA</th>
<th>n (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Missed IFA dose (n=91)</td>
<td></td>
</tr>
<tr>
<td>Yes</td>
<td>49 (53.85)</td>
</tr>
<tr>
<td>No</td>
<td>42 (46.15)</td>
</tr>
<tr>
<td>Reasons for missing (n=49)</td>
<td></td>
</tr>
<tr>
<td>No harm to skip sometimes</td>
<td>16 (32.65)</td>
</tr>
<tr>
<td>Forget fullness</td>
<td>14 (28.57)</td>
</tr>
<tr>
<td>Side effect</td>
<td>7 (14.38)</td>
</tr>
<tr>
<td>Was sick recently</td>
<td>7 (14.38)</td>
</tr>
<tr>
<td>Running out of supplement</td>
<td>5 (10.22)</td>
</tr>
</tbody>
</table>

IFA: Iron-folic acid tablets

CONCLUSION

The present study observed that only 46.15% of the pregnant women were compliant to the IFA tablet supplement given to them. Hence, awareness to be created about the importance of taking IFA tablets regularly during ANC period, and counseling to be given so that compliance can be improved.

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AUTHORS’ CONTRIBUTION

Dr. Siva Keerthika, Dr. Santosh Biradar, Dr. Vinod S Kamble, and Mr. Shrinivas Reddy were responsible for the conception of the research.
idea, study design, data collection, analysis, interpretation, and supervision. Dr. Siva Keerthika participated in the data collection, entry and analysis, and manuscript write-up. All authors have read and approved the final manuscript.

CONFLICTS OF INTEREST
All authors declare that they do not have any conflicts of interest.

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Nil.

REFERENCES