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Research Article

In Modern Era of Intrauterine Foetal Therapy, Rural, Tribal Young Women's Awareness and Perceptions, Preconception, During Pregnancy and Antenatal Care Seeking-Community Based Study.

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Abstract

Background

Antenatal care is key entry point for pregnant women to receive nutrition advocacy, prevention, detection and treatment of anaemia, other preexisting illnesses' diagnosis and therapy of pregnancy specific disorders, monitoring baby's growth, abnormalities, birth preparedness, complications readiness, whole science of pregnancy care. It is an opportunity to get screened and learn about future health too. It is essential that women are aware preconception.

Objective

Community based study was carried out to know rural, tribal women's awareness, attitude towards antenatal care, preconception, during pregnancy and care seeking.

Material and Methods

After institute's ethics committee's approval, study was carried out in 100 villages in tribal communities where mother, child care activities were initiated after creation of health facility in one village, with 24 hrs 7 days services, specially for mothers, babies. Information about awareness regarding antenatal care, preconception, during pregnancy was collected through pretested tools. Study subjects, 15 to 45 years old, minimum 20, total 2400 preconception women, minimum 10 pregnant women from each village 1040, were randomly included.

Results

Of 2400 preconception women, 42.83% did not perceive antenatal care necessary. Those who said it was needed, had scatchy ideas about contents and advantages of basic antenatal care. Of 1040 pregnant women, 957 (92%) sought antenatal care, 174 (18.2%) were told about abnormality without any details.

Conclusion

Many rural tribal women of low resource region did not think ANC was needed. Those who said it was needed had scatchy awareness of contents, advantages of antenatal care. Many pregnant women had AN checkup but not all, some only once. There was lack of proper communication from health providers who needed to ensure to provide quality care with proper communication.

Keywords: antenatal care, preconception, pregnancy, awareness, perception, practice

Background

Antenatal care around which revolves the whole science of pregnancy care¹, is the key entry point for pregnant women to receive a range of health services, nutrition advocacy, prevention, detection and treatment of anaemia and other preexisting illnesses, in addition to timely diagnosis and therapy of pregnancy specific disorders, monitoring of the baby's growth and abnormalities and also get screened for disorders which affect future life. It is also an opportunity to promote birth preparedness, complications readiness (BPCR) and become aware of necessity of skilled attendance at birth and postpartum care for women and newborns. This is also ideal time to counsel about the appropriate breastfeeding as well as



towards antenatal care, not only when they are pregnant but antenatal care, 16 (47.1%) once or twice, 16 (47.1%) three to four preconception too. Johnson et al² also reported that pregnancy- times, only 2 (5.9%) five or six times. Sixteen women (47.1%)related outcomes can be improved preconception by finding out said that they were told that all was not well but what was the women's knowledge, perceptions about antenatal care and abnormality they did not know. Of 321 (30.86%) high school advocacy accordingly.

Objective

Community based study was carried out to know about rural tribal women's awareness and attitude towards antenatal care low or low middle class, 790 (98.25%) had sought antenatal care, preconception, during pregnancy and antenatal care sought by pregnant women.

Material and Methods

After ethics committee's approval study was conducted in tribal communities of 100 villages of hilly forestry Melghat region of Amravati, Maharashtra, India. In these 100 villages community based mother and child care activities were initiated after having Of 943 housewives (90.6%) out of 1040 pregnant women, 882 questions for yes or no answers and others open ended for short knowing any details. answers. It was decided to include minimum 20 preconception Of 1040 women, 117 (11.25%) were primigravida and 60 (51.3%) women of 15-45 years in each village randomly, making a total of of them had sought antenatal care, 34 (56.7%) once or twice, 11 2400 study subjects. Interviews included information about (18.3%) 3 to 4 visits and 15 (25%) had 5 to 6 visits and 3 (5%) awareness regarding antenatal care. Amongst 1040 pregnant were told that all was not well but they did not what was wrong. women information included awareness as well as antenatal care Of 820 (78.84%) women with 3 or more births, 813 (99.14%) had seeking.

Results

Of 2400 preconception women interviewed, 42.8% did not even think that antenatal care was necessary. Though 1372 (57.2%) women did say that antenatal care was necessary, their knowledge was scatchy. Some said it was for maternal wellbeing (14.07%), others said fetal wellbeing (14.9%), preventing complications (15.7%), getting advice about diet (11.09%), hygiene (15.7%) and medication (27.6%), with some overlap. Out of those women who said ANC was needed, 20% said that only one antenatal visit was enough, 19.33% said 2-3 visits, 20.25% said 4-5, and only 18.54% said more than 5 visits were necessary. When asked about contents of the care, their ideas were scatchy, 19.96% women opined that urine should be tested, 14.17% said height should be measured, 15.53% said weight, 19.25% Hemoglobin, 16.17% said 919 of 1040 (88.4%) had some knowledge of hygiene during Blood pressure and 18.13% said sugar should be tested, with some pregnancy. overlap. Overall only 58.75% women said that additional or special food was required during pregnancy, of which 36.24% said four times meals, 28.44% women said that green vegetables were needed, and only 35.32% said milk was necessary.

A total 1040 pregnant women were interviewed, of which 957 (92%) had antenatal care, one to six visits. Overall 783 (81.8%) women were not told about any abnormalities, however 174 (18.2%) were told that something was wrong without any details, as nothing was told to them about abnormalities. Of 1040 women, overall 323 (31.05%) were of 15-19 years and of them 306 (94.7%) had antenatal care, 148 (48.4%) had 1 to 2 visits, 96 However researchers also reported that mother's experience of (31.4%) 3-4 visits and 62 (20.3%) 5-6 visits. Of 306 pregnant abortions and stillbirths increased the probability of using women 14 (4.6%) were told that everything was not normal but what was abnormal they did not know.

contraception. So it is essential that women have positive attitude Overall 56 (5.38% of 1040) were illiterate, 34 (60.7%) sought educated women, 285 (88.8%) had sought antenatal care, 131 (46%) had 1 to 4 visits, 103 (36.1%) had 3 to 4 visits and 51 (17.9%) 5 to 6 visits and 31 (10.9%) were told that there were problems but they did not know what was the abnormality.

> Of 1040 pregnant women, 804 (77.30%) were of economically 355 (44.93%) once or twice, 307 (38.86%) 3-4 visits and 128 (16.20%) had 5-6 visits. And a total of 82 (10.37%) women were told that all was not well but they did not know anything more than that. And of the remaining 193 (18.55%) women of lower middle and middle class 165 (85.49%) women had sought antenatal care, 80 (41.45%) once or twice, 65 (33.67%) 3-4 visits and 20 (0.36%) had 5-6 visits. Total 14 (7.25%) were told of abnormalities with no details.

developed a health facility for 24 hrs 7 days services in one of (93.5%) had sought antenatal care, 303 (34.4%) had ANC once or these villages. After consent information was collected through twice, 461 (52.3%) 3-4 visits and 118 (13.4%) 5 to 6 visits and 3 pretested tools in the language which they understood, with some (0.3%) were told that there were abnormalities without women

> antenatal care, 578 (71.9%) had ANC once or twice, 178 (21.89%) 3-4 visits and 57 (7.1%) had 5-6 visits. Total 160 (19.68%) were told that there were problems with no details. Overall of 1040 pregnant women, 957 women (92%) had antenatal care either by nurse midwives or by medical officers at primary health centres. But only 234 (22.5%) of 1040 had done registration for place of delivery and 81 (34.6%) of those who registered did registration only at Aaganwadi, 100 (42.7%) at Subcentres and 53 (22.6%) at PHCs. Of 1040 pregnant women, 83 (8.0%) women did not seek ANC. When asked reasons for not seeking antenatal care 34 (41.0%) said they had no money, 23 (27.7%) had fear of going to medical facility, 12 (14.5%) said there was no medical facility around, 8 (9.6%) had family restrictions and 6 (7.2%) did not give any reason for not seeking antenatal care. When asked about knowledge about tetanus toxoid during pregnancy 992 of 1040 (95.4%) knew but 48 of 1040 (4.6%) were not aware. A total of

Discussion

Hill et al³ reported that health professionals and policy makers should actively pursue opportunities to improve knowledge of reproductive age women through ANC clinics. Actually researchers found that 57% women knew about importance and the benefits of antenatal care. Getachew et al⁴ and Kawungezi et al⁵ reported that around 30% women considered antenatal care a waste of time and delays in antenatal clinics were worrisome. antenatal care.

Onasoga et al⁶ reported only 58% women received regular

antenatal care and 56% got registered in the first trimester, around (22.6%) at PHC, 100 (42.7%) at Sub Centre and 81 (34.6%) just 40% women did know about possible complications. In the at Aaganwadi Accredited Social Health Activists (ASHA) were present study overall of 2400 preconception women, 1028 (42.83%) did not even think that antenatal care was needed. place of delivery. Of 83 (8%) study subjects, when asked about Among those women who said yes, also knowledge was low, and not having antenatal care, 34 (41.0%) said they had no money, 23 scatchy. Overall 27.6% said ANC was for medicines, 15.7% for learning about hygiene and prevention of complications, 14.9% for fetal wellbeing, 14.07% for maternal wellbeing and 11.9% said for getting advice about diet. About minimum visits required for ANC, 21.88% women said it was not required at all, 20% said only once, 19.33% said 2-3 times, 20.25% said 4-5 times, 18.54% said more than 5 times. On asking about investigations also the information was scatchy, 19.25% said hemoglobin estimation, 18.13% said sugar, 16.96% urine test, 16.17% blood pressure and 15.33% weight and 14.17% said height should be measured during ANC visits. Overall only 58.75% women said additional food was required during pregnancy, 35.32% said milk and 28.44% said vegetables were needed. Total 41.25% women said no additional food was needed.

The attitude was positive in 69.6% women in the study by Dulla et al⁷. Faye et al⁸ reported that women receiving antenatal care knew the importance of acceptable intake of protein, vegetables, fruits and milk during pregnancy and that green leafy vegetables and meat prevented anaemia. Takelab et al⁹ reported that utilization of at least one antenatal care visit by a skilled provider reduced the risk of neonatal mortality by 39% in Sub-saharan and type of family had significant association with the utilization African countries. Grenier et al¹⁰ reported that ANC was associated with higher facility delivery rates in Nigeria.

Grenier et al¹⁰ also reported that low quality and low frequency of antenatal care were associated with lower uptake of facility based deliveries, believed to be a key intervention to reduce maternal and neonatal mortality. In the present study of rural tribal preconception women of reproductive age, 52% women were aware about anaemia, 43.3% women were aware that prevention and treatment of anaemia before pregnancy could prevent pregnancy complications like giddiness (34.6%), swelling (29.4%) and excess blood loss during delivery (36%). Overall 42% women were not even aware of that additional micronutrients were required during pregnancy and lactation, 41.65% said that calcium and iron supplements were needed and 58.51% said that high protein and high fibre supplements were sufficient. Patel et al¹¹ did a study to determine the level of knowledge, attitude, and practice of ANC among pregnant women attending the antenatal clinic at a Tertiary Care Hospital and reported that 58% women had adequate knowledge of ANC. Researchers found that almost all the variables such as age, education, occupation, parity, type of family, and socioeconomic status (SES) had a significant association with awareness about ANC.

In the present study of 1040 pregnant study subjects, 957 (92.0%) had sought antenatal care but 653 (68.2%) women had only once or twice, 201 (21.0%) three to four times and only 103 (10.8%) five to six visits. Out of those who received ANC, of them 174 (18.2%) said they were told that all was not well but, they did not know about the problems. Rest did not know anything. So quality care is essential. Lack of communication affects their care, may discourage for revisit and others to seek services. Overall 83 (8%) women had no ANC. Of 1040 women 957 (92%) who received ANC, many did not even have basic investigations like urine, albumin, sugar and hemoglobin. Of 1040 pregnant women, when those pregnant women quite a few had ANC but some had only asked about registration for birth only 234 (22.5%) had done, 53 once and they had scatchy knowledge. Also information revealed

to decide other things. A big number 806 (77.5%) had not planned (27.7%) had fear of going to medical facility, 12 (14.5%) said no medical facility was nearby and 6 (7.2%) said they were not aware. Of 1040 pregnant women, 48 (4.6%) had no knowledge about pregnancy care, 121 (11.6%) had no knowledge of cleanliness during pregnancy. Hijazi et al¹² reported that taking women's experience of ANC as a key reporting for quality care is more likely to lead to increased utilization of ANC services by women in highly disadvantaged communities. Afulani et al¹³ reported that quality of ANC was suboptimal in both service provision and experience domains, with disparities in demographic and socioeconomic factors and facility type. More efforts are needed to improve quality of ANC and to eliminate the disparities. Awasthi et al¹⁴ reported that low education and lack of awareness among mothers, low socioeconomic condition, early marriage and pregnancy, inappropriate antenatal check-up, and cultural taboos were significant factors affecting the satisfactory utilization. Akowuah et al¹⁵ reported that to ensure adequate utilization of services, the government and other stakeholders should offer support to the less-privileged mothers. Gupta et al¹⁶ reported that the age, literacy status, socioeconomic status (SES), of ANC services. Their study revealed that maternal literacy remained a key factor in the better utilization of antenatal services. Yadav¹⁷ reported that 50% women had good knowledge. 40% had average knowledge. In the present study knowledge regarding antenatal care in pregnant mothers and utility was much less in primi gravida and low socio-economic status and low educational level too affected antenatal care seeking. Ali et al¹⁸ reported that various factors associated with utilization of antenatal care have not been synthesized collectively. So group antenatal care was being advocated in which women attended a health facility at regular intervals with about 10 pregnant peers. The antenatal care provider, usually a nurse or midwife, performed brief but thorough exam in privacy while the women socialized and helped one another checked their vital signs. The provider facilitated discussion of important pregnancy education topics. Research suggested that model, which offered education and support as well as recommended clinical care, had the potential to improve perinatal outcomes in some populations. Byerley et al¹⁹ reported that African-American women who participated in group antenatal care in the United States demonstrated a significantly reduced risk of preterm births. Studies of the effects of group antenatal care revealed improvements in blood sugar control among pregnant women with diabetes, smoking cessation and decreases in rapid repeat pregnancy²⁰. Strengthening counseling during antenatal care services that involved men together with partners is being recommended. Their involvement in antenatal care is identified as important in maternal health²¹.

Conclusion

Even in the present era quite a few preconception tribal rural women of low resource region did not think ANC was needed. Those who said it was needed also had scatchy knowledge. Of

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that there was lack of proper communication between health providers and pregnant women which is essential to have impact **Conflict of Interest**- No conflict of Interest. and quality care.

¥7 · 11			Awarene	ess of AN	С	Importance of ANC											
Variabl es Age	Total	No	%	Yes	%	Mate rnal Well bein g	%	fetal well being	%	Prevent complicat ions	%	Advice about diet	%	Hygiene Advice	%	Medi cines	%
15-19	336	14 3	42.5	193	57.4	10	5.1 8	21	10.9	44	22.8	20	10.4	16	8.29	82	4 2 5
20-24	828	34 6	41.7	482	58.2	97	20. 12	79	16.4	104	21.6	46	9.5	41	8.51	115	2 3 9
25-29	736	37 1	50.4	365	49.6	34	9.3 15	60	16.4	36	9.86	73	20	50	13.7	112	3 0 7
30-34	333	10 3	30.9	230	69.1	42	18. 2	41	17.8	24	10.4	18	7.8	105	45.7	0	0
35-39	93	45	48.3	48	51.6	10	20. 8	4	8.33	0	0	6	12.5	4	8.33	24	5 0
40-45	74	20	27.0	54	73	0	0	0	0	8	14.8	0	0	0	0	46	8 5 2
Total	2400	10 28	42.8	1372	57.2	193	14. 0	205	14.9	216	15.7	163	11.9	216	15.7	379	2 7 6
Educati on																	
Illiterat e	953	41 3	43.3	540	56.7	92	17. 0	57	10.6	76	14.1	81	15	56	10.4	178	3 3
Primar y	850	33 6	39.5	514	60.5	67	13. 0	99	19.3	80	15.6	61	11.9	76	14.8	131	2 5 5
Second ary	506	25 4	50.2	252	49.8	21	8.3 3	22	8.73	54	21.4	7	2.78	6	2.38	142	5 6 3
Higher Second ary	91	25	27.4	66	72.5	13	19. 7	4	6.06	5	7.58	2	3.03	3	4.55	39	5 9 1
Total	2400	10 28	42.8	1372	57.2	193	14. 0	205	14.9	216	15.7	163	11.9	216	15.7	379	2 7 6
Professi on																	
Housew ife	275	19 3	70.1	82	29.8	12	14. 6	15	1.83	4	4.88	28	34.1	13	15.9	10	1 2 2
Labore r	958	41 1	42.9	547	57.1	117	21. 39	73	1.33	39	7.13	55	10.1	43	7.86	220	4 0 2
Own Farm Labore r	468	15 4	32.9	314	67.1	13	4.1 4	35	1.11	40	12.7	43	13.7	28	8.92	155	4 9 4

Work Away Form Our Village	699	22 4	32.0	475	68	51	10. 7	59	1.24	133	28	37	7.79	57	12	138	2 9 1
Total	2400	10 28	42.8	1372	57.2	193	14. 0	205	1.49	216	15.7	163	11.9	216	15.7	379	2 7 6
Econom ics																	
Upper	147	66	44.9	81	55.1	18	22. 2	16	19.8	6	7.41	13	16	4	4.94	30	3 7
Upper Middle	183	94	51.3	89	48.6	15	16. 8	15	16.9	26	29.2	11	12.4	0	0	22	2 4 7
Middle	544	20 7	38.0	337	61.9	20	5.9 3	35	10.4	113	33.5	27	8.01	26	7.72	116	3 4 4
Upper Lower	662	29 0	43.8	372	56.2	59	15. 8	36	9.68	24	6.45	39	10.5	69	18.5	145	3 9
Lower	864	31 9	36.9	545	63.1	81	14. 8	80	14.7	47	8.62	73	13.4	42	7.71	222	4 0 7
Total	2400	10 28	42.8	1372	57.2	193	14. 0	205	14.9	216	15.7	163	11.9	216	15.7	379	2 7 6
Parity																	
P0	105	9	8.7	96	91.4	12	12. 5	14	14.5	6	6.25	16	16.6	29	30.21	19	1 9
P1	411	201	48.9	210	51.9	51	24. 2	60	28.5	35	16.6	36	17.1	14	6.67	14	1 4
P2	672	246	36.6	426	63.4	57	16. 2	48	11.3	125	31.2	34	11.7	116	10.3	46	1 9 2
P3	453	208	45.9	245	54.1	22	8.9 8	35	14.3	25	10.2	21	8.57	17	6.94	125	5 1
P4	250	113	45.2	137	54.8	18	13. 1	20	14.6	8	5.84	25	18.2	15	10.9	51	3 7 2
P5 Above	509	251	49.31	258	50.7	33	12. 7	28	10.9	17	6.59	31	12	25	9.69	124	4 8 1
Total	2400	1028	42.83	1372	57.2	193	14. 07	205	14.9	216	15.7	163	11.9	216	15.7	379	2 7 6

 Table I: Preconception Awareness about Antenatal Care

						Antena	tal Care				
Variables	Total	Only ones	%		%	4.5	%	. E	%	Not acquired	%
Age		Only once	%0	2—3	%0	45	%	>5	%	Not required	%
15-19	336	48	14.29	43	12.8	80	23.81	91	27.08	74	22.02
20-24	828	163	19.69	179	21.62	154	18.6	154	18.6	178	21.5
25-29	736	180	24.46	154	20.92	160	21.74	120	16.3	122	16.58
30-34	333	53	15.92	62	18.62	69	20.72	54	16.22	95	28.53

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143	93	13	13.98	23	24.73	13	13.98	15	16.13	29	31.18
40-45	74	23	31.08	3	4.054	10	13.51	11	14.86	27	36.49
Total	2400	480	20	464	19.33	486	20.25	445	18.54	525	21.88
Education	2100										I
Illiterate	953	178	18.68	163	17.1	224	23.5	233	24.45	155	16.26
primary	850	178	20.94	136	16	186	21.88	135	15.88	215	25.29
Secondary	506	108	21.34	158	31.23	62	12.25	64	12.65	114	22.53
Higher secondary	91	16	17.58	7	7.692	14	15.38	13	14.29	41	45.05
Total	2400	480	20	464	19.33	486	20.25	445	18.54	525	21.88
Profession		I									
Housewife	275	86	31.27	44	16	40	14.55	25	9.091	80	29.09
Laborer	958	208	21.71	174	18.16	158	16.49	163	17.01	255	26.62
Own farm laborer	468	93	19.87	80	17.09	125	26.71	77	16.45	93	19.87
Work away form our village	699	93	13.3	166	23.75	163	23.32	180	25.75	97	13.88
Total	2400	480	20	464	19.33	486	20.25	445	18.54	525	21.88
Economics											•
Upper	147	21	14.29	25	17.01	26	17.69	34	23.13	41	27.89
upper middle	183	81	44.26	17	9.29	31	16.94	11	6.011	43	23.5
Middle	544	149	27.39	151	27.76	129	23.71	75	13.79	40	7.353
Upper lower	662	106	16.01	84	12.69	176	26.59	157	23.72	139	21
Lower	864	123	14.24	187	21.64	124	14.35	184	21.3	246	28.47
Total	2400	480	20	464	19.33	486	20.25	445	18.54	525	21.88
Parity							-				
P0	105	14	13	187	11	35	33.3	28	21.3	246	15.24
P1	411	110	27	464	23	48	11.7	105	18.54	525	13.38
P2	672	195	28.02	12	12.05	118	16.07	110	18.6	16	24.26
Р3	453	52	11.48	93	17.22	75	24.28	89	22.52	55	24.5
P4	250	36	14.4	51	20.4	71	28.4	36	14.4	56	22.4
P5 Above	509	77	15.13	161	31.63	139	27.31	77	15.13	55	10.81
Total	2400	480	20	464	19.33	486	20.25	445	18.54	525	21.88

Table II: Preconception Women's Opinion of Number of Prenatal Visits

							Content	s of ANC					
Variables	Total	Weight	%	Height	%	Urine test	%	Sugar test	%	Blood Pressure	%	HB test	%
Age								test		Tressure			
15-19	336	47	13.99	39	11.61	56	16.67	64	19.05	67	19.94	63	18.75
20-24	828	145	17.51	101	12.2	127	15.34	103	12.44	133	16.06	219	26.45
25-29	736	115	15.63	122	16.58	133	18.07	123	16.71	129	17.53	114	15.49
30-34	333	35	10.51	55	16.52	71	21.32	71	21.32	47	14.11	54	16.22
35-39	93	12	12.9	11	11.83	13	13.98	42	45.16	6	6.452	9	9.677
40-45	74	14	18.92	12	16.22	7	9.459	32	43.24	6	8.108	3	4.054

Total	2400	368	15.33	340	14.17	407	16.96	435	18.13	388	16.17	462	19.25
Education													
Illiterate	953	179	18.78	157	16.47	153	16.05	190	19.94	185	19.41	89	9.34
Primary	850	135	15.88	124	14.59	183	21.53	131	15.41	141	16.59	136	16.00
Secondary	506	49	9.684	49	9.684	63	12.45	88	17.39	56	11.07	201	39.72
Higher Secondary	91	5	5.495	10	10.99	8	8.791	26	28.57	6	6.593	36	39.56
Total	2400	368	15.33	340	14.17	407	16.96	435	18.13	388	16.17	462	19.25
Profession		I						L					1
Housewife	275	23	8.364	36	13.09	54	19.64	110	40	25	9.091	27	9.818
Laborer	958	219	22.86	97	10.13	178	18.58	149	15.55	155	16.18	160	16.7
Own Farm Laborer	468	38	8.12	124	26.5	74	15.81	76	16.24	65	13.89	91	19.44
Work Away Form Our Village	699	88	12.59	85	12.16	101	14.45	98	14.02	143	20.46	184	26.32
Total	2400	368	15.33	340	14.17	407	16.96	435	18.13	388	16.17	462	19.25
Economics													
Upper	147	38	25.85	17	11.56	27	18.37	26	17.69	16	10.88	23	15.65
upper middle	183	50	27.32	26	14.21	62	33.88	20	10.93	10	5.46	15	8.197
Middle	544	148	27.21	64	11.76	32	5.882	70	12.87	95	17.46	135	24.82
Upper lower	662	56	8.459	137	20.69	88	13.29	149	22.51	115	17.37	117	17.67
Lower	864	76	8.796	96	11.11	198	22.92	170	19.68	152	17.59	172	19.91
Total	2400	368	15.33	340	14.17	407	16.96	435	18.13	388	16.17	462	19.25
Parity													
P0	105	28	26.7	17	16.2	13	12	17	16.2	14	13	172	15.2
P1	411	109	26.5	57	13.9	50	12	42	10.2	74	18	462	19.2
P2	672	98	14.29	50	9.524	180	26.79	160	16.67	56	6.845	158	25.89
P3	453	73	16.11	108	23.84	52	11.48	55	6.62	88	24.94	77	17
P4	250	24	9.6	33	13.2	33	13.2	61	24.40	53	21.2	46	18.4
P5 Above	509	66	12.97	75	14.73	92	18.07	87	17.09	103	20.24	86	16.9
Total	2400	368	15.33	340	14.17	407	16.96	435	18.13	388	16.17	462	19.25

Table III: Preconception Perceptions of Contents of Antenatal Care

Variables	Total	Additiona	l Nutrition Pregi	Requirement nancy	nt During			If ye	es		
Age	10041	No	%	Yes	%	Four meals a Day	%	Vegetables	%	Milk	%
15-19	336	154	45.83	182	54.17	46	25.27	93	51.1	43	23.63
20-24	828	354	42.75	474	57.25	240	50.63	81	17.09	153	32.28
25-29	736	322	43.75	414	56.25	117	28.26	132	31.88	165	39.86
30-34	333	95	28.53	238	71.47	86	36.13	70	29.41	82	34.45
35-39	93	49	52.69	44	47.31	13	29.55	12	27.27	19	43.18

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40-45		16	21.62	58	78.38	9	15.52	13	22.41	36	62.07
Total	74	990	41.25	1410	58.75	511	36.24	401	28.44	498	35.32
Education	2400	,,,,	41.25	1410	56.75	511	50.24	401	20.44	470	00.02
Illiterate	953	399	41.87	554	58.13	224	23.50	173	18.15	381	39.98
Primary	850	350	41.18	500	58.82	201	23.65	113	13.29	387	45.53
Secondary	506	211	41.7	295	58.3	74	14.62	97	19.17	124	24.51
Higher Secondary	91	30	32.97	61	67.03	12	13.19	18	19.78	31	34.07
Total	2400	990	41.25	1410	58.75	511	21.29	401	16.71	498	20.75
Profession											
Housewife	275	139	50.55	136	49.45	25	18.38	26	19.12	85	62.5
Laborer	958	335	34.97	623	65.03	252	40.45	196	31.46	175	28.09
Own Farm Laborer	468	288	61.54	180	38.46	61	33.89	30	16.67	89	49.44
Work Away Form Our Village	699	228	32.62	471	67.38	173	36.73	149	31.63	149	31.63
Total	2400	990	41.25	1410	58.75	511	36.24	401	28.44	498	35.32
Economics											
Upper	147	56	38.1	91	61.9	50	54.95	23	25.27	18	19.78
Upper Middle	183	56	30.6	127	69.4	55	43.31	30	23.62	42	33.07
Middle	544	179	32.9	365	67.1	143	39.18	92	25.21	130	35.62
Upper Lower	662	425	64.2	237	35.8	48	20.25	80	33.76	109	45.99
Lower	864	274	31.71	590	68.29	215	36.44	176	29.83	199	33.73
Total	2400	990	41.25	1410	58.75	511	36.24	401	28.44	498	35.32
Parity											1
P0	105	15	14.3	90	85.7	18	20.0	32	36	40	44.4
P1	411	205	49.9	206	50.1	77	37.38	57	28	72	35
P2	672	334	49.7	338	50.3	170	51.78	131	38.76	67	9.467
Р3	453	163	49.98	290	64.02	93	32.07	71	25.17	126	42.76
P4	250	136	54.4	114	45.6	32	28.07	44	38.6	38	33.33
P5 Above	509	137	26.9	372	73.08	121	32.07	96	25.81	155	41.67
Total	2400	990	41.25	1410	58.75	511	36.24	401	28.44	498	35.32

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Table IV: Knowledge Of Additional Nutrition Requirement During Pregnancy

Variables	Total		Antenat	tal care				If YES Number of				1	Any Abn	ormaliti	ies
AGE		NO	%	YES	%	One to Two	%	Three to Four	%	Five to Six	%	YES	%	NO	%
15 to 19	323	17	5.3	306	94.7	148	48.4	96	31.4	62	20.3	14	4.6	292	95.4
20 to 24	536	58	10.8	478	89.2	266	55.6	126	26.4	86	18.0	51	10.7	427	89.3
25 to 29	109	8	7.3	101	92.7	66	65.3	21	20.8	14	13.9	11	10.9	90	89.1
30 to 34	68	0	0.0	68	100	36	52.9	19	27.9	13	19.1	4	5.9	64	94.1
35 to 39	4	0	0.0	4	100	2	50.0	2	50.0	0	0.0	0	0.0	4	100.0

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TOTAL	1040	83	8.0	957	92.0	518	54.1	264	27.6	175	18.3	80	8.4	877	91.6
EDUCATION															
ILLITERATE	56	22	39.3	34	60.7	16	47.1	16	47.1	2	5.9	16	47.1	18	52.9
PRIMARY	321	36	11.2	285	88.8	131	46.0	103	36.1	51	17.9	31	10.9	254	89.1
SECONDARY	358	11	3.1	347	96.9	103	29.7	156	45.0	88	25.4	14	4.0	333	96.0
HIGHER SECONDARY	196	11	5.6	185	94.4	102	55.1	66	35.7	17	9.2	6	3.2	179	96.8
GRADUCATE	66	2	3.0	64	97.0	19	29.7	26	40.6	19	29.7	15	23.4	49	76.6
POST GRADUCATE	43	1	2.3	42	97.7	21	50.0	5	11.9	16	38.1	9	21.4	33	78.6
TOTAL	1040	83	8.0	957	92.0		0.0		0.0	957	100	91	9.5	866	90.5
ECONOMIC STATUS															
UPPER	43	41	95.3	2	4.7	2	100.0	0	0.0	0	0.0	0	0.0	2	100.0
UPPER MIDDLE	51	12	23.5	39	76.5	34	87.2	1	2.6	4	10.3	3	7.7	36	92.3
UPPER LOWER	142	16	11.3	126	88.7	46	36.5	64	50.8	16	12.7	11	8.7	115	91.3
LOWER MIDDLE	186	10	5.4	176	94.6	109	61.9	41	23.3	26	14.8	21	11.9	155	88.1
LOWER	618	4	0.6	614	99.4	246	40.1	266	43.3	102	16.6	61	9.9	553	90.1
TOTAL	1040	83	8.0	957	92.0	437	45.7	372	38.9	148	15.5	96	10.0	861	90.0
PROFESSION															
HOUSEWIFE	943	61	6.5	882	93.5	303	34.4	461	52.3	118	13.4	3	0.3	879	99.7
OWNFARM LABOUR	53	16	30.2	37	69.8	6	16.2	29	78.4	2	5.4	16	43.2	21	56.8
LABOURER	40	6	15.0	34	85.0	16	47.1	15	44.1	3	8.8	19	55.9	15	44.1
OTHERWORK	4	0	0.0	4	100	3	75.0	1	25.0	0	0.0	2	50.0	2	50.0
TOTAL	1040	83	8.0	957	92.0	328	34.3	506	52.9	123	12.9	40	4.2	917	95.8
PARITY															
P.1	117	57	48.7	60	51.3	34	56.7	11	18.3	15	25.0	3	5.0	57	95.0
P.2	103	19	18.4	84	81.6	41	48.8	12	14.3	31	36.9	11	13.1	73	86.9
P.3	155	5	3.2	150	96.8	91	60.7	41	27.3	18	12.0	12	8.0	138	92.0
P.4	204	2	1.0	202	99.0	166	82.2	15	7.4	21	10.4	22	10.9	180	89.1
P.5 Above	461	0	0.0	461	100	321	69.6	122	26.5	18	3.9	126	27.3	335	72.7
TOTAL	1040	83	8.0	957	92.0	653	68.2	201	21.0	103	10.8	174	18.2	783	81.8

Table V: Pregnant Women's Antenatal Visits

Variables	Total	Barriers to ANC required										
AGE		Not aware	%	No medical facility	%	No money	%	Family restriction	%	Fear of going to medical facilities	%	
15 to 19	17	6	35.3	3	17.6	6	35.3	2	11.8	0	0.0	
20 to 24	58	9	15.5	16	27.6	13	22.4	13	22.4	7	12.1	
25 to 29	8	2	25.0	1	12.5	4	50.0	1	12.5	0	0.0	
30 to 34	0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	
35 to 39	0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	

TOTAL	83	17	20.5	20	24.1	23	27.7	16	19.3	7	8.4
EDUCATION											
ILLITERATE	22	9	40.9	4	18.2	4	18.2	2	9.1	3	13.6
PRIMARY	36	13	36.1	11	30.6	7	19.4	4	11.1	1	2.8
SECONDARY	11	6	54.5	2	18.2	2	18.2	1	9.1	0	0.0
HIGHER SECONDARY	11	0	0.0	1	9.1	2	18.2	7	63.6	1	9.1
GRADUCATE	2	0	0.0	0	0.0	0	0.0	1	50.0	1	50.0
POST GRADUCATE	1	0	0.0	0	0.0	0	0.0	1	0.0	0	0.0
TOTAL	83	28	33.7	18	21.7	15	18.1	16	19.3	6	7.2
ECONOMIC STATUS											
UPPER	41	1	2.4	2	4.9	6	14.6	11	26.8	21	51.2
UPPER MIDDLE	12	0	0.0	6	50.0	2	16.7	2	16.7	2	16.7
UPPER LOWER	16	1	6.3	4	25.0	7	43.8	3	18.8	1	6.3
LOWER MIDDLE	10	0	0.0	2	20.0	7	70.0	1	10.0	0	0.0
LOWER	4	0	0.0	0	0.0	3	75.0	0	0.0	1	25.0
TOTAL	83	2	2.4	14	16.9	25	30.1	17	20.5	25	30.1
PROFESSION											
HOUSEWIFE	61	4	6.6	6	9.8	9	14.8	11	18.0	31	50.8
OWNFARM LABOUR	16	2	12.5	9	56.3	1	6.3	1	6.3	3	18.8
LABOURER	6	1	16.7	1	16.7	4	66.7	0	0.0	0	0.0
OTHERWORK	0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
TOTAL	83	7	8.4	16	19.3	14	16.9	12	14.5	34	41.0
PARITY											
P.1	57	4	7.0	11	19.3	17	29.8	6	10.5	19	33.3
P.2	19	2	10.5	1	5.3	12	63.2	1	5.3	3	15.8
P.3	5	0	0.0	0	0.0	3	60.0	1	20.0	1	20.0
P.4	2	0	0.0	0	0.0	2	100	0	0.0	0	0.0
P.5 Above	0	0	0.0	0	0.0	0	0	0	0.0	0	0.0
TOTAL	83	6	7.2	12	14.5	34	41.0	8	9.6	23	27.7

Table VI: Barriers to Utilization of Antenatal Care

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