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TO ASSESS THE KNOWLEDGE AND UTILIZATION OF MATERNAL HEALTH SERVICES BY WOMEN

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ABSTRACT INRODU	TION:- NRHM major thrust is upon universal access to equitable, affordable & quality health

care services that are responsive and accountable to people's needs. For appropriate evaluation of NHM services, it is important to comprehensively understand the various factors that affect the utilization of maternity care during pregnancy. This will help in better implementation of the program. In its present form NHM has not achieved the stated goals in time and is suffering from many bottlenecks METHODOLOGY:- A field based cross sectional study was carried out at shapura block Jabalpur, a total of 360 response were included from 36 clusters in the period from March 2017 – August 2018.inclusion criteria included Women who were delivered in the past one year, and ready to give consent. RESULTS:- Majority of subjects were in 20-25 years age range, manual labour was main occupation of the husbands of participants. 43.8% study participants had completed middle school education and around 32% had completed high school or higher school education. 91% of studied participants had used urine pregnancy test kit for confirmation of pregnancy. UPT advice was given by health worker in 80% cases. Majority of them (87%) got registered in second trimester; subcentre accounted for 70% Of registration. Antenatal coverage was quite good at 86%. Vaccination with injection tetanus toxoid was 95.4%. Most(70%) of the subjects used free transportation service, and in 78% cases ambulance reached within 10 minutes. 93.2% had undergone institutional delivery and 1.6% home delivery. Better care for mother and child (50%) was the most cited reason for institutional delivery followed by money available under JSY(30%). ±0.58 mg/dl. CONCLUSION:- The evaluation has assessed the reach of the programme, awareness and utilization pattern of subjects and implementation of maternal health services at various levels. The study also identified the difficulties faced in the implementation of the services and role played by ASHA, ANM and other stakeholders. All the subjects had limited knowledge regarding benefits of preconceptional and early folic acid tablet administration. There is lack of knowledge about benefits of early registration. Registration of pregnancy within 12 weeks is the primary responsibility of ANM/ASHA. There is need to reset and evaluate the role and responsibility of ANM/ASHA. Motivation is needed to ensure that subjects keep compliance throughout pregnancy While awareness of JSY among mothers was fairly high, all the subjects had limited knowledge regarding various components of JSY. Monitoring, evaluation and supervision is being done as per the programme implementation plan of NHM.

KEYWORDS : NHM, ANM, JSY

INTRODUCTION

Health is a fundamental right. Good health is a major resource for social, economic and personal development and an important dimension of the quality of life. The government to India has started many programs to provide universal health care; the National Health Missionis one of them. Its major thrust is upon universal access to equitable, affordable& quality health care services that are responsive and accountable to people. The principal objective of NHM is to decrease neonatal and maternal mortality by promoting institutional delivery by providing quality antenatal , intranatal and postnatal care. For appropriate evaluation of NHM services, it is important to comprehensively understand the various factors that affect the utilization of maternity care during pregnancy. This will help in better implementation of the program. In its present form NHM has not achieved the stated goals in time and is suffering from many bottlenecks. If we can identify these "BOTTLENECKS" and remove them, it will increase the utilization rates of the various government initiatives. Very few studies have been conducted in the past on this subject. We therefore attempted to evaluate NHM through a study of the mother's knowledge and evaluation of the utilization of ANC services.¹

AIMS AND OBJECTIVES

- To assess the knowledge and utilization of maternal health services by women.
- To assess the service coverage of the target population.

- Toidentify the shortcomings, if any, in the implementation of scheme.
- Tofind out the level of achievement of the various components of maternal health services.
- To suggest measures for improvement of maternal health services.

MATERIALANDMETHOD

STUDY DESIGN: A field based cross sectional study STUDY PERIOD: 18 Months Duration March2017 – August 2018

STUDY AREA: HealthCenters in and around Shahpura block

SAMPLE SIZE:

Asper 2011 census total population of Shahpura block is 191710. We assume an increase in10% population in 2018. Thus total population of Shahpura is210881in 2018.Using the Right Size stastical software we considered 50% proportion of target population in this sampling frame with acluster size of 10,95% confidence coefficient, \pm 10% confidence interval, with a0.3rateof homogeneity and3.70 designeffect.**A total of 360** response will be required from **36clusters**. In addition there will be 10% non-responders hence final sample size of 396 will be required.

 $\label{eq:constraint} \begin{array}{l} \textbf{TARGETPOPULATION} \text{-} Women \ who \ were \ delivered \ in \ the \ past \\ one \ year \end{array}$

STUDYSETUP: Community Based

STUDYTOOLS: Questionnaire for beneficiaries (Target Population)

METHODOLOGYOFSAMPLECOLLECTION:

- Before initiating the study, clearance will be obtained from institutional ethical committee. Study participants will be selected according to inclusion and exclusion criteria. Data will be collected in a pretested questionnaire by personal interview.
- The questionnaire will consist to fin formation like age, sex, socioeconomic information, education, occupation etc. the questionnaire will also include specific question spertaining to the study.

INCLUSIONCRITERIA:

Women who were delivered in the past one year, and ready to give consent.

EXCLUSIONCRITERIA:

Those who will not give consent. Women having > 1 year child Women conceived first time Seriously ill women

RESULTS :-

TableNo-1, SocioDemographic Characteristics of Study Participants

Characteristics	Numbers	Percentage			
Āge	AgeGroup(inYears)				
<19	10	2.7%			
20-25	259	70%			
26-30	97	26.2%			
31-35	04	1.1%			
Total	370	100%			
	Religion				
Hindu	336	90.8%			
Muslim	34	9.2%			
Total	370	100%			
Occup	oation of Husb	and			
Labourer	242	65.5%			
Business	43	11.6%			
Farmer	48	13.0%			
Driver	25	6.8%			
Private Job	12	3.2%			
Total	370	100%			

Characteristics	Numbers	Percentage			
L	Literacy Status				
Illiterate	15	4.1%			
Primary	73	19.7%			
Middle	162	43.8%			
High School	83	22.4%			
Graduate	37	10%			
Total	370	100%			
Distance fro	m Nearest Hea	lth Centre			
< 1Km	90	24.3%			
1-2 Km	160	43.3%			
2-5 Km	120	32.4%			
Total	370	100%			
Source of Drinking Water					
Well	165	44.7%			
Hand Pump	202	54.6%			
Water Supply in Home	3	0.8%			
Total	370	100%			

TableNo.2:DistributionofFolicAcidAdministrationamongstu dypopulationPreconceptional:-

	Character	Numbers	Percentage
Ι	Not taken	366	98.9%
II	Taken	04	1.1%
IIA	No of Tablet Consumed (50-100 tablets)	04	100%
IIB	Source of Folic acid tablet		
	Government	0	0%
	Medical Store	04	100%
	Total	4	100%

Conceptional:-

	Character	Numbers	Percentage
Ι	Not taken	340	91.9%
II	Taken	30	8.1%
	Total	370	100%
IIA	No of Tablets Consumed		
	<50	01	3.3%
	50 – 80	27	90%
	>80 - 100	02	6.6%
	Total	30	100%
IIB	Source of folic acid		
	Medical Store	28	93.3%
	Aanganwadi	2	6.6%
	Total	30	100%

Only 1% studied population were aware of benefits of preconceptional folic acid. All of them bought medicine from medical store. In early pregnancy about 8% of participants took folic acid, out of them around 90% took 50-80 tablet.

TableNo.3:DistributionofDiagnosticprocessofpregnancy

Character Time from	Numbers	Percentage	
Conception to Diagnosis			
4 - 6 weeks	07	1.9%	
6 - 8 weeks	238	64.3%	
8 - 12 weeks	125	33.8%	
Total	370	100%	
Study participants u	sing UPT kit for	confirmation of	
	pregnancy		
Yes	336	90.8%	
No	34	9.18%	
Total	370	100%	
Advice	for UPT given b	У	
Doctor	06	1.78%	
AWW/ANM/ASHA	265	78.8%	
Self Administered	65	19.34%	
Total	336	100%	
Source of UPT Kit			
Medical Store	71	21.1%	
Aanganwadicentre	265	78.8%	
Total	336	100%	

In 64% of study participants time from conception to diagnosis was in range of 6-8 weeks.91% of study participants had used UPT kit for confirmation of pregnancy.In about 80% of cases urine pregnancy test was adviced by health worker (ASHA,ANM,AWW) and source of kit was aanganwadi centre.

TableNo.4:Distribution of 1stTrimesterANC Registration & Investigations

.00%	Character	Numbers	Percentage

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Number of Stu	Number of Study participants registered			
Yes	68	18.4%		
No	302	81.6%		
Total	370	100%		
Place of Registration				
PHC (AWW/ASHA)	47	69.1%		
Private Clinics (Doctor)	21	30.88%		
Total	68	100%		
Investigations done				
Yes	51	13.8%		
No	319	86.2%		
Total	370	100%		

TableNo.5:Distribution of II Trimester ANC. Registration & Investigations.

Character	Numbers	Percentage			
Number of Stu	Number of Study participants registered				
Yes	321	86.8%			
No	49	13.2%			
Total	370	100%			
Plac	Place of Registration				
PHC (AWW/ASHA)	227	70.71%			
Private Clinics (Doctor)	94	29.2%			
Total	321	100%			
Investigations done					
Yes	321	86.8%			
No	49	13.2%			
Total	370	100%			

Approximately 18% participants registered in first trimester, while remaining 69% of them were registered in second trimester. Place of registration was Govt. health facility in majority (70%), where registration was done by health care worker (ASHA,ANM,AWW).

Table No.6 : Distribution Of Tablet Iron Administration

Character	Numbers	Percentage	
Number of study Participants who consumed iron tablets			
Yes	370	100%	
No	0	0%	
Total	370	100%	
Number of Tablets consumed			
≤ 50	164	44.3%	
> 50 - 80	114	30.8%	
80 - 100 or more	92	24.9%	
Total	370	100%	
Source of Tablets			
Aanganwadi Centre	370	100%	
Medical store	0	0%	
Total	370	100%	

Compliance:All females who consumed >80 IFA Supplements, out of a total of 100 were considered compliers and those who consumed <80 tablets were considered noncompliers.

Feasibility:Feasibility was defined as 50-60% compliance among the study participants for supplementation. Approximately56% of participants consumed 60-100 IFA tablets. Source of medicine was aanganwadicentre.

Character	Numbers	Percentage	
Awareness of JSY & Knowledge			
Yes	323	87.3%	
No	47	12.7%	

Total	370	100%		
No. of study participants registered under JSY				
Yes	0	0%		
No	370	100%		
Total	370	100%		
Distribution of subjects as per the incentive given				
Aanganwadi Centre	276	74.6%		
Medical store	94	25.4%		
Total	370	100%		

JSY is 100% centrally sponsored intervention under NHM. It aims to decrease neonatal and maternal mortality rate .The present survey in Shahpura block indicates that awareness about JSY among mothers was fairly high (87%).

Approximately 75% had received incentive at the time of study while 30% did not receive any incentive.

TableNo.8:Distribution Of FreeTransport Facility

Character	Numbers	Percentage		
Transport facility awareness				
Yes	323	87.3%		
No	47	12.7%		
Total	370	100%		
Study participants who utilized transport services				
Yes	259	70%		
No	111	30%		
Total	370	100%		
Time taken to reach destination				
within 15 min.	202	77.99%		
15 - 30 min	46	17.76%		
> 30 min	11	4.24%		
Total	259	100%		

TableNo.9:Association between JSY awareness and place of delivery

		Where was the baby delivered			Total
		Home	Institution	On the way	
JSY awarene ss	Yes	2	303	16	321
	No	4	42	3	49
Total		6	345	19	370

Chisquare=15.35, df=2,

The free transport facility awareness was around 87% among pregnant subjects in Shahpura block, around 70% of them utilized facility during their delivery, and in 78% cases ambulance reached destination within 10 minutes.

TableNo.10:"Distribution Of Institutional delivery percent.

Character	Numbers	Percentage		
Place of delivery				
Home	6	1.6%		
Institutional	345	93.2%		
One the way	19	5.1%		
Total	370	100%		
Factors leading to Home delivery				
Convenience	2	33.3%		
Untimely delivery	4	66.6%		
Total	6	100%		
Motivating factors for institutional delivery				
Money available under JSY	101	29.27%		

Better access to institutional Delivery	67	19.4%
Better care of mother and new Born	172	49.85%
Support provided by ASHA	24	6.95%
Total	364	100%

DISCUSSION

"Janani Suraksha Yojna" is 100% centrally sponsored scheme(2). The scheme aimed to reduce maternal and infant mortality by promoting institutional deliveries. The primary component of Janani Suraksha Yojna are early registration, microbirth planning, referral transport, institutional birth, post delivery visit and reporting, family planning advice and mother and child health counselling. The government of India has introduced many schemes, yet many fail to access the services due to lack of awareness and knowledge.

Awareness in present study referes to knowledge about various components of JSY i.e. information and understanding of different aspects of the scheme. Present study shows that 87% of subjects were aware about JSY. Similarly, in study conducted by DivyaTiwari in rural areas of Uttar Pradesh, 96% of the subjects were aware about JSY. Kristi Sidney et al 3 in his study found that 90% of the subjects had prior knowledge of JSY. Major source of information came from ASHA. The study result contradicts the findings of Sidney et al where the source of information was through public health facility in 40% of mothers, village creche worker in 30% and ASHA in only 21%⁴.

An important component of JSY scheme is to provide monetary incentives to the subjects who deliver in an institution. As per JSY guidelines, subjects who deliver in government or accredited private hospital are entitled to get benefit. Incentive should be paid before discharge at the place of delivery. Present study reveals that 75% had received their incentive at the time of study while 25% did not receive any incentive due to various reasons like delay in receipt of funds or delivery at private institution. Similarly, assessment of JSY scheme in selected states of India, 2008(18) was carried out by Ministry of health and family welfare, Government of India reported a high proportion of beneficiaries in Rajasthan, Orisa and Madhya Pradesh (93,89,83% respectively) had received money. 75% of mothers in Bihar and Uttar Pradesh received money after delivery. Evaluation of JSY (Feb , 2009) was done by State Institute of Health and Family welfare Jaipur reported 75% got payment after 24-48 hours.⁵

CONCLUSION:-

The evaluation has assessed the reach of the programme, awareness and utilization pattern of subjects and implementation of maternal health services at various levels. The study also identified the difficulties faced in the implementation of the services and role played by ASHA, ANM and other stakeholders. All the subjects had limited knowledge regarding benefits of preconceptional and early folic acid tablet administration. There is lack of knowledge about benefits of early registration. Registration of pregnancy within 12 weeks is the primary responsibility of ANM/ASHA. There is need to reset and evaluate the role and responsibility of ANM/ASHA. Motivation is needed to ensure that subjects keep compliance throughout pregnancy While awareness of JSY among mothers was fairly high, all the subjects had limited knowledge regarding various components of JSY. Monitoring, evaluation and supervision is being done as per the programme implementation plan of NHM.

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