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Utilization of Safe Motherhood Initiative by Female teachers in Public Secondary Schools in Enugu State, Nigeria

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ABSTRACT

Safe motherhood initiative (SMI) is a vital component of reproductive health and is of prime concern to fertility. It is a worldwide initiative whose aim is to reduce maternal morbidity and infant mortality and also to improve women's reproductive health. The study aimed at determining the extent of utilization of SMI by female teachers in public secondary schools in Enugu State. It specifically sought to ascertain the extent of utilization of Ante-natal care services by female teachers in secondary schools in Enugu state based on parity. The study adopted the descriptive survey research design. The population for the study consisted of all the 7419 female teachers in the 291 public secondary schools in Enugu State. A sample of 440 female secondary school teachers were selected using Taro Yamen formula. A selfstructured instrument developed by the researcher which was validated by three experts. The instruments reliability coefficient was ascertained using Cronbach Alpha reliability estimate. The reliability index for part 1 is 0.83 while that of the entire instrument stood at 0.82. 440 copies of the instrument were administered to the respondents and collected on the spot. The data collected were analyzed using mean and standard deviation to answer the research question. The hypothesis was tested using t-test statistic. The result obtained showed that pre-natal/ante natal care services were utilized by female teachers in public secondary schools in Enugu state based on parity to a great extent. Based on the findings. the researcher recommends, among others, that government should ensure the availability of skilled midwives at health centers within the health work force development plan in Enugu State. The researcher suggested that the study be conducted in all the other states of the federation.

Keywords: Safe, Motherhood Initiative, Pre-natal, Service and Ante-natal Service

INTRODUCTION

The health of mothers has long been acknowledged to be a cornerstone of public health and explains attention to unacceptable high level maternal mortality (MM) which has been a feature of global health and development discussions since the 1980s [1]. Although a few countries have made some remarkable progress in forstalling maternal mortality in recent years, the reality has not generally followed the rhetoric health and development. According to [2], a gross inequality exists in this world and the chances of a woman dving complications related childbirth is 100 times higher in resources-poor as compared to resource-rich settings.

account Developing regions approximately 99% (302,000) of the global natural deaths in 2010 with sub-Saharan Africa alone accounting to roughly 66% (201,000) followed by southern Asia (66,000) [3] As of 2015, the two regions with highest Maternal Mortality Rate (MMR) are sub-Saharan Africa (546,511.552) and Southern Asia (187,95-381) [4] At the country level, Nigeria and India are estimated to account for over one third of all maternal deaths worldwide in 2015. with an approximate 58,000 maternal deaths 19% and 45,000 maternal deaths (15%) respectively, eighteen

other countries all in Sub-Saharan Africa are estimated to have very high. MMR in 2015, with estimates ranging from 999 down to 500 deaths per 100 1000 live births. [4].

Indications are that maternal morbidity and mortality (MMM). globally every year, reaches over half a million [5]. Most of the deaths from pregnancy related conditions occur in rural and urban areas of developing countries [6]. As at 2012, Nigeria maternal morbidity ratio reportedly put at 630/100,000 live births making it the 10th worst country in the world [7]. In Nigeria, report has it that an average of 630 women die out of every 100,000 women who bring forth a life birth. Despite the observation traditional societies appear to have accepted the high MMM unavoidable, researchers have shown that MMM and other pregnancy related problems are preventable [8]. In the same vein many researchers have analyzed the, issue of MMM, and problems attributed to childbearing both in developed and developing countries and the conclusions are that they are preventable. That possibly suggests that safe motherhood is realizable.

Thus, in a bid to find a lasting solution to increasing rate of MMM, governments, international agencies of health such as WHO United Nations children's Fund (UNICEF), and nongovernmental organizations (NGOs) launched the worldwide motherhood initiative (SMI) at the, international conference in Nairobi, Kenya in 1987 [9]. SMI represents a effort to reduce global especially in developing countries. According to [10], safe motherhood initiative (SMI) is a multi year multistakeholder project which comprised nurses, midwives, physicians, patient safety specialists and other partners working together to standardize care obstetric emergencies all associated with maternal mortality and morbidity. SMI offers a unique

and unprecedented opportunity to review and amend existing clinical practices to reflect current evidencebased management guidelines in a non-primitive setting: access expert opinions and tools understand important nomenclature for obstetric hemorrhage severe hypertension in pregnancy venous thromboembolism [10]. [11], described it as a global effort to reduce MMM in developing countries. According to the report, programme aims at empowering obstetrics teams to share, assess and implement strategies to reduce the incidence of obstetric hemorrhage, venous thromboembolism and severe hypertension in pregnancy.

According to [12], SMI focuses on obstetric hemorrhage, severe hypertension in pregnancy thromboembolism which consists of step-by-step, evidence based tools to manage risk, prevent adverse event, respond and debrief. There are three main health care delivery services enlisted by the SMI for pregnant women to overcome maternal mortalities; they are prenatal care, obstetric care and family planning [9].

These laudable objectives of SMI have received some criticisms. According to [13], the problem of MM has not decreased since the initiative on set of the 1987 and the initiative has been largely ineffective. The report argued that this lack of success has been due not only to lack of knowledge of causes of MM or to lack of resources but to underutilization of the maternal services provided. There is absence of a clear focus. fuelled which has been misconceptions about how MM might be reduced. Again, [13], support the view that MM must be addressed as a "curative" issue rather than a "preventive" one. This notwithstanding, experts in public health have generally advocated that maternal deaths in developing countries of the world

such as Nigeria could be prevented if pregnant women are exposed to utilization of adequate components with the right attitudes on utilization of it during pregnancy [14]. Female teachers in public secondary schools in Enugu State may be exposed to the components of SMI, but their utilization of the component seems to be poor. This disposition may impact seriously on their health status during pregnancy possible negation of programme initiative.

It has been claimed that most of the pregnancy complications and problems being experienced are deeply rooted in improper utilization SMI components. It includes prenatal/antenatal care, nutrition, personal hygiene, obstetric family, planning, emergence care, postpartum care, post abortion care, prevention of sexually transmitted diseases (STIs), prevention of motherto- child Aids and child transmission (PMTCT) of HIV and AIDS and child care [15]. In this study the utilization of SMI by female teachers in secondary schools in Enugu State was based examined on pre-natal/ care. family planning antenatal essential obstetric care and child care services.

safe motherhood initiatives components may be available to female teachers in secondary schools but the utilization may be poor. According to [16], utilization is the proportion of the available time (expressed usually as percentage) that a piece of equipment or a system is operating. Some studies on the extent of utilization of health and facilities services were conducted by experts in health and [17], found that the education. utilization of HIV and **AIDS** prevention strategies among students of secondary schools in Abia State was low. In a related report, [18] posited that adolescents utilization of reproductive health services (RHS) in Enugu State was low. Perhaps, the

utilization of SMI among female teachers in secondary schools in Enugu may as well be low. This is of because the situation utilization in Enugu seems Most elusive. pregnancy complications and problems of SMI being experienced in Enugu are deeply rooted in poor utilization. That is to say, that poor utilization of qualitative health service contributes to maternal morbidity and mortality increase rate in Enugu State

Many maternal deaths in developing world could be preventable if women are sensitized well enough to utilize prenatal/antennal care services before conception and health care during pregnancy. Again in Enugu State, observations and chemical records have shown that maternal deaths toll is on the high side. This [19], attributed to the notion held by mothers of child bearing age that it is no use availing themselves of antenatal services before their pregnancy is five months old or utilizing postnatal services except their baby(s) are not feeling fine or they have challenge.

Antenatal care involves provision of advice and medical service to a pregnant woman bv a health professional from the time pregnancy to delivery and includes services such as urine test for albunium and sugar, haemoglobin, blood pressure, fetal auscultation and fetal palpitation [20]. Literatures show that routine pre-natal/antenatal care has three main components: education and promotion of healthy attitudes, the monitoring maternal and fetal progress, the identification women high risk at complications followed by treatment or referrals to appropriate equipped and staffed facilities [21].

Immunization during antenatal visits by women prevents and control childhood diseases.[22], asserted "immunization is the most powerful cost effective means of preventing some of the deadly diseases of www.idosr.org

childhood and an important component of primary health care (PHC). Notable vaccines include BCG (given at birth. the pentavalent vaccine (five vaccines in combining DTP, hermatite B and Hibuaccines (Haemophilns influenza type B) [23]. Female teachers in public secondary schools in Enugu State utilization of immunization schedules, nutritional and family planning services could hindrance to effective realization of SMI goals.

In Enugu State, safe motherhood initiative seems to be elusive. It has been claimed that most of the pregnancy complications and problems being experienced are deeply rooted in poor utilization of SMI. Poor utilization of qualitative health service continues to contribute to maternal morbidity and mortality in Enugu State [24]. When expectant women arrive at the hospital, certain

Complications of pregnancy and childbirth are the leading causes of maternal mortality and morbidity in women in developing countries of the world. Observations of women in rural and urban settings of Enugu State revealed that some of them appear to patronize traditional birth attendants (TBAs) more than having to seek expert advice in Maternal Care Hospital (MCH); maternities and hospitals. This invariably means that some aspects of SMI- prenatal/ante-natal care, family planning, essential obstetric care and child care services are neglected by female teachers teaching in public secondary schools in Enugu State as such increases mortality rate. However, it has not been established whether women are differentiated in

Purpose of the Study

The study sought to examine the utilization of SMI by female teachers in public secondary schools in Enugu State. Specifically, the study sought to ascertain the extent of utilization of:

1) pre-natal care services by female teachers in public secondary schools in Enugu State.

Research Question

The following research questions guided the study.

To what extent do female teachers in public secondary school utilize

preparations are made to make the delivery safe. This also means that SMIs are carried out by the nurses. desire confidence and continue the utilization of nurses and midwives as well as other health personnel may be largely dependent on these health personnel. This possibly suggests that utilization of these personnel bv female/teachers mothers may be high or low with far reaching health implications. Perhaps, understanding the preferences of the people and the various factors that influence their preferences will help to improve the utilization of SMI components and thereby reduce unnecessary loss of lives. As a result of the foregoing, the researcher is poised to ascertain the extent of safe motherhood initiative utilization by female teachers in public secondary schools in Enugu State.

Okafor

Statement of the Problem

attendance to these facilities by any recognizable criteria. It is therefore likely that such criteria may be based on attitudinal inclinations. For instance, could the preference to use any health facility of choice be based on location or parity or could it be that the more the inclination to utilize it, the more SMIs are prevalent? Recent report indicates that Nigeria is one of the six countries of the world that account for 50% of global maternal deaths [25]. These observations are indeed the motivation or problem and crux of this study. The problem of this study, posed as a question, is: what is the extent of utilization of SMI by female teachers in public secondary schools in Enugu State?

Pre-natal/Ante-natal care services

in Enugu State?

Hypothesis

The following null hypotheses guided the study and were tested at alpha level of .05 level of significance and at appropriate degree of freedom.

H₀₁ There is no significant difference between the mean ratings of

primiparous and multiparous female teachers in public secondary schools in Enugu State regarding their extent of utilization of pre-natal and ante-natal care services.

METHODOLOGY

The study adopted a descriptive survey Health Education Department and one design. The area of the study was Enugu from measurement and evaluation, all State, Nigeria. The population for the from Faculty of Education Foundation, study consisted of 7419 female teachers Enugu State university of Science and Technology (ESUT), Enugu. The internal in the 291 public secondary schools in Enugu State. In all, we have 4491 female consistency of the instrument was teachers are in urban public secondary using determined Cronbach Alpha schools and 2928 serve in rural public reliability estimate and it yielded a secondary schools. In accordance with reliability coefficient of .82. The study parity, 1307 female secondary school was carried out among the female secondary school teachers in all the teachers are primiparous (those that have given birth only once) while 2112 are secondary schools in the six education multiparous (those that have given birth zones of Enugu state. The researcher and more than once). A total of 440 female the research assistants administered the teachers in public secondary schools in questionnaire to the female secondary school teachers. The administered copies Enugu state were used for the study. The sample size was determined using Taro of the questionnaire were collected on the Yamane formula. The sample spot. This helped to minimize consisted of 264 urban and 176 rural interference which may substantially female teachers in public secondary influence the outcome of the study. schools in Enugu State. In accordance Through this a 100% return rate was with parity, the sample size was 153 for recorded. Data collected were analyzed primiparous (ie those that have given using mean, standard deviation and grand birth only once) and 287 for multiparous mean. The mean rating numerical value (ie those that have given birth more than was added up and divided by the number once) female secondary school teachers in of response items. This is referred to as public secondary schools in Enugu State. the cut-off point which the researcher The instrument used for data collection used to make inferences for the study. For was a 9 items questionnaire called safe the research question, any item below motherhood initiative Scale (SMIS). The 2.50 signifies low extent while items instrument had a 4-point response scale equal to or above 2.50 signifies high with response category of very great extent. The hypothesis was analyzed extent (VGE 4Points), great extent (GE-3 using the t-test. Nominal values were points), little extent (LE-2) and very little assigned to different scaling options as extent (VLE-1 Point). The instrument was follows: validated by three experts; two from

Low Extent (LE)------2 points Very little extent (VLE)—-1 point The decision rule for the null hypothesis is that if t-calculated **is** equal to or greater than t-critical at the chosen confidence level (.05) and degree of freedom $(n_1 + n_2 - n_3)$

2) the null hypothesis is rejected; if on

Very great extent (VGE)----4 points Great extent (GE)-----3 points

the other hand, the calculated t-value is less than the value of the t-critical from the table value, then the null hypothesis isaccepted.

Presentation of Results

This section presents the results of the study according to the research question that guided the study.

Analysis of Data The data analyzed was presented in Tables 1

Research Question 1: To what extent do female teachers in public secondary school utilize Pre-natal/Ante-natal care services in Enugu State?

Table1: Mean (Ratings of the Extent to which Female Teachers in Public Secondary Schools Utilize the Pre-natal/ Ante-natal Care Services in Enugu State

	N= 440									
S/I	N Items	VGE	GE	LE	VLE	\mathbf{X}	SD_3	Decision		
1.	I go for medical check-up duri in the hospital/health centre	ng pregr 213	nancy 119	57	51	3.12	1.03	GE		
2.	Present myself for immunization during pregnancy	n 187	97	83	73	2.90	1.12	GE		
3.	When pregnant, I insisted on getting care from specialists during hospital visits	143	117	99	81	2.73	1.10	GE		
4.	I take balanced diet	171	113	79	77	2.85	1.11	GE		
5.	I adhere to antenatal health tips given during health education talks	73	91	99	177	2.13	1.12	LE		
6.	I try to obtain folic acid supplements from a pharmacy	81	99	117	143	2.26	1.10	LE		
7.	When pregnant I go for antenata visits Regularly	al 191	157	48	44	3.40	0.76	GE		
8.	I go to traditional birth attendants when pregnant	77	91	133	139	2.24	1.08	LE		
9.	Child Delivery was at obstetric hospital	141	123	101	75	2.75	1.08	GE		
Grand Mean 2.71 1.06										

Table 1 shows that of the 9 items on the extent to which female teachers in public secondary schools utilize pre-natal/ante-

natal care services in Enugu State, the respondents agreed with 6 items 1, 2, 3, 4, 7 and 9 as they recorded mean scores

of (3.12, 2.90, 2.73, 2.85, 3.40 and 2.75) which are above the cut-off point of 2.50. They however disagreed with 3 of the items (5, 6 and 8) with a mean score of (2.13, 2.26 and 2.24). The standard deviation for all the items are small signifying that there is homogeneity in the responses of the respondents. The table also shows that the respondents grand mean score of the extent to which

female teachers in public secondary school utilize pre-natal/ ante-natal care services in Enugu State is 2.71. Based on the decision rule for the interpretation of the respondents data, the answer to research question 1 is that female teachers in public secondary schools utilize pre-natal/ante-natal care services in Enugu State to a great extent.

Hypothesis 1

There is no significant difference between the mean ratings of primiparous and multiparous female teachers in public secondary schools in Enugu State regarding their extent of utilization of pre-natal and ante-natal care services.

Table 2: t-test Analysis of the Difference Between the (▼) Mean Scores of Primiparous and Multiparous Female Teachers in Public Secondary Schools in Enugu State regarding their Extent of Utilization of Pre-natal and Ante-natal Care Services.

Parity	N	X	SD	df	t-cal	t-crit	Decision
Primiparous	153	2.97	1.01				NS
				338	1.04	<u>+</u> 1.96	Do not reject Ho ₁
Multiparous	287	2.90	0.96				

Significant at P<.05, df = 338, critical t-value = +1.96

The t-test analysis in table 2 above indicates that the calculated t- value is 1.04 while the critical t-value is ±1.96 at .05 level of significance. This implies that the calculated t-value is less than the critical t- value. Thus, going by the decision rule, there is no significant

difference between the mean ratings of primiparous and multiparous female teachers in public secondary schools in Enugu State regarding their extent of utilization of pre-natal and ante-natal care services.

Discussion of Findings

For the discussion of the findings inherent in this study, research question and research hypothesis that are related will be treated together. A major finding of this study showed that female teachers in public secondary schools utilize prenatal/ante-natal care services in Enugu State to a great extent. The first hypothesis ascertained if there was a difference significant in natal/ante-natal care services utilization by female teachers in public secondary schools in Enugu State based on parity/location. The analysis showed that there is no significant difference in the pre-natal/ante-natal care services utilization by female teachers in public secondary schools in Enugu State based

on parity/location. The findings is at variance with those of [25]. In a separate report, they observed that childbearing mothers do not avail themselves of this service thus putting themselves at risk and that this account for low coverage in Africa (about 34.1%). The findings are consistent with those of [26], who found that majority of the respondents from Kano and Kaduna States have poor knowledge of safe motherhood initiative. Findings of the study also showed that safe motherhood initiatives are strongly associated with antenatal attendance, being employed or acquiring some level of education, as well as the number of deliveries a mother had.

CONCLUSION

Conclusively from the above analysis and interpretations done and the information from related literature, it implies that

Educational Implication of the Finding

This study has revealed that Ministry of Health is to be commended for the outstanding accomplishments made to date in the establishment of relevant, appropriate, and forward-

looking policy in relation to the health of mothers and children, in general, and to Safe Motherhood specifically prenatal/ante-natal care services.

services to a great extent.

female teachers in Enugu State secondary

schools utilize pre-natal/ante-natal care

Recommendations

At the end of the study, the study recommended that:

i. State government should ensure the availability of

skilled midwives at health centers within the health work force development plan in Enugu State.

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