FACTORS ASSOCIATED WITH LATE REPORTING FOR ANTENATAL CARE AMONG WOMEN OF CHILD-BEARING AGE IN UDI LOCAL GOVERNMENT AREA, ENUGUISTATE, NIGERIA

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B.Sc. Nursing (UNN)

A Dissertation in the Department of Health Promotion and I ducation Submitted to the Faculty of Public Health

College of Medicine

in partial suffilment of the requirements for the Degree of

MASTER OF PUBLIC HEALTH

(Population and Reproductive Utalth Education)
of the

UNIVERSITY OF IBADAN

DEDICATION

the work is especially dedicated to my mather Mrs. Mary Assumpta Okeke (Sine He) who bravely hore the pains of motherhood and was also instrumental to the faunching of my career.

AHSTRACI

Maternal mortality due to pregnancy and childbirth poses a unifor public health challenge in Nigeria and late reporting for Antenatal Care (ANC) is known to be a contributory factor. However, the reasons for poor utilization of antenatal services are yet to be adequately documented. This study therefore assessed factors associated with late reporting for ANC among women of child-hearing age in 1 di 1 oc 1 Government Area (LGA), Nigeria.

A two-stage random sampling technique was used to select 450 technidents from three (Ngwo, 1 di and Emuabi) out of twelve communities in 1 di 1 GA. The inclusion eratena included registration for ANC and delivery of a life baby in the two years preceding the survey. A validated semi-structured question traine was used to collect quantitative data. Six Facus Group Discussions (FOL)s) and nine Key Informant Interviews (KIts) were conducted among respondents. Quantitative data were analyzed using descriptive and Chi-square statistics. The thematic approach was used for analyzing the qualitative data.

The mean age was 27.7 ± 5.2 years, most (44.4%) were married and 67.1% were employed Majority (6.3-1%) had secondary education. The mean number of antenatat visits was 8.1 ± 4.6. Pacifics used inclinded private (60 4%) and public (30.4%) health care establishments traditional delivery homes (4.9%) and simultaneous use of public and private facilities (4.2%). Lanvane percent booked early while 50.0% registered late Of the 206 who reported late, 87.2% and 12.8% booked during the second and third trimesters respectively. The major reasons for reporting early included inexperience (72 3%) and ill health (52.6%). Matur reasons for reporting late included prior expenence (95 1%), perceived sound health (75 8%) and nonchalant attitude 172 8°) The pattern of late reporting by level of education was primary (20 5° 5) secondary (65.5%) and tertiary (14.0%) (p. 0.05). More respondents earrying first pregnancies (54 3%) booked early compared with those with two or more previous premaneres (p. 0.05). The reasons for non-campliance with follow-up visus impact 17 1 s of the re-pondents were tecling wellness (37.7%) and enough experience. from previous pregnancies (62.3%). Respondents mittude to early broking was prositive is 44 4 4 and recel that ica digital health repository project it the was in the first trimes ter The perceived consequences of late banking included complix mans (84.4%), poor

health outcome for the baby (58.2%), inadequate planning for delivery (51.6%) and missed opportunity for health education (49.6%). The view of most key informants was that women booked late for ANC due primarily to lack of knowledge of the associated benefits. Most I GD discussants associated late reporting for ANC with wrong perception of pregnancy and believed that public enlightenment could help in addressing the situation.

The high prevalence of reporting late for Antenatal care was due mainly to misconceptions. Health education hould focus on promoting early booking for Antenatal care as an indispensible health seeking behaviour

Key words: Antennal care. Late reporting, Women of child-bearing age

Word count: 453

ACKNOWLEDGEMENTS

The success story of achieving this academic goal was possible due to the support encouragement, and friendship of many canny people. Top on the list is the enviable support of my indomitable, ealth and calculating supervisor. Dr. (Mrs.) O.S. Arulogun. She supervised every stage of this project, making suggestions, corrections and valuable contributions. Lappreciate her open door policy and motherly care too.

I am indebted to the neademic staff of the Department of fleath Promotion and Education for their support and encouragement—the Head of Department. Dr. Isane Olascha for his latherly advice. Prof. Oladineji Oladepo, for suggesting the topic, and the Associate Prof. A.J. Ajuwon for his enatributions of reserve a special honour for the Sub Dean. Dr. Fredrick Oshimanie my 'boss' and 'brother', for his meticulous, constructive and critical suggestions. I will always remember the selfless role played by the citire non academic staff of the department. My profound gratitude also goes to Dr. (Mrs.) Bedemi Vusuf who assisted with the design of this research work. God reward you all

The understanding, co-operation and team spirit of my colleagues in the 2004/2005 set provided a custom effect for the stressful period. Worthy of mentioning is the exemplary friendship, love and care shared with Mrs. Lunso Orenuga. Mr. John linatedo. Biodu Bangbopa. Tonn. Ayodeji. Tunbosun Ogidi. Laolu Lajobi. Kunle Omotosho and Mr. Wole Oluwadunmila, my sweet friends. Edna Okwor. Chika Onyema. Suzie Adamu and Mercy Egemba. I will not torget the prayers and moral support of the entire worshiping community of St. Luke's Catholic Church I CH. St. Alicheal's Catholic Church Yemetu and the Capuchin Frairs Olunde. Ibadan You are all dear to me.

Thanks to Miss Chidiebere Okeke, Ifeanyi Chika, Mr. Amechi. Agu and others who a sisted with the field work and to all mothers who purticipated in this work.

May (fod ble s my loving parents, Mr and Mrs. C.C. Okeke, my shlings my bruther m-law, Bob Menakaya and other relations too numerous to mention to God be all glory honour and power torever

CERTIFICATION

I certify that this study was carried out by I mily Chinyelugo Okeke in the Department of Health Promotion and Education, Faculty of Public Health, College of Medicine, University of Ibadan, Ibadan, Nigeria.

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LIST OF ABBREVIATIONS AND ACRONNYMS

ANC Antennal Care

BCG Bueille Calmette Guerne

BPCR Birth Platining and Complication Renducts

CBO Charity Based Organisation

CHEW Community Health Extension Worker

COMPASS Countries Participation for Action in the Social Sector

IANC Focus Antenatol Care

1 BO Futh Based Organisation

DIIS District Lealth System

FOC Essential Obstetne Care

FGDs Focus Circup Discus ions

FGN Federal Government of Nigeria

I MOH Federal Ministry of Health

lib llaemoglobin

HBM | Health Belief Model

1CPD International Conference on Population and Development

II C Information Communication and Education

IMI International Monetary Fund

1P1 Internittent Preventive Treatment

IPT-SP Intermittent Preventive Treatment with Sulfadoxine

Pyrmichanine

ITNs Insecueide Treated Red Nets

JHPH OD An affiliate of Johns Hopkins University specializing in

reproductive health issues

Kils Key Informant Interviews

Local Government Area

LHAs Local Health Authornes

Millennium Development

NBC Nigerian Bottling Courtainy

NIM Nigeria Breweries Limited

NDHS National Demographic Health Survey

Nation: AFRICA DIGITAL HEALTH REPOSITORY PROJECT

PHC Primary Health Care

PHI Pregnancy Induced Hypertension

PMV Patent Medicine Vendor

SMI Safe Matherhood Initialise

SMOH Stue Ministry of Health

SOCION Society of Gynaecologists and Oh tetricians of Nigeria

SPSS Statistical Package for Social Sciences

SIII Sexually I ran mitted Infections

TRA I raditional Birth Attendant

UBITI University of Benin Teaching Hospital

UN United Nations

LINITA United Nations Fund for Population Nett thes

UNICEF United Nations International Children Intergency Fund

111V Human Immuno Delicience Vinus

AIDS Acquired Immune Delicioney Syndrome

UNIH University Of Nigeria Leaching Hospital

United States Agency for International Development

VDRI Veneral Disease Research Laboratory

VYF Vesico Vaginal Fishilae

WB World Bank

WHO World Health Organisation

DITINITION OF TERMS

For the purpose of this study the following words were used

Antennial care (ANC): any form of care or interventions that a pre egalinkoman receives from any form of organized beath care setting other than her home

Area of residence: the community where respondent was living at the time of this study which should correspond to the place where she had ANC and delivery in the last two years. For the purpose of this study they include Ngwee, Umusliment I di

Booked women: Those who received formal antenatal care and delivered within the

Forty repairing; booking or initiating antenntof care before or at the 13 completed weeks of gestation.

the date of last menstrual period of that pregnancy to the day of delivery

Indirect muternul ilembs: Deaths resulting from previous existing disease or disease that developed during pregnancy and which was due to direct obstetric causes.

Infrequent use of ANC: having made less than three ANC visits, the minimum number needed to benefit from intermittent preventive treatment (IPT) with sulfadoxine pyrimethamine for malaria

The last confinement: the intutediate past pregnancy period

Late reporting: booking or initiating antenntal care after the 13 completed weeks of gastation

Maternal ilenth The death of a woman from pregnancy-related causes while pregnant in within 32 days of termination of the pregnancy. Direct maternal deaths: Deaths resulting from obstetric complication of the pregnant state.

Maternal mortality ratto. The number of maternal deaths per 100,000 live births.

Multipanus wantan who had delivered more than once

Nulliparous woman: a woman who has never delivered a child before

l'acity: number of pregnancies it woman has had

Parous woman a woman who has given birth on at least one occasion.

Printhara (e): woman women who had delivered for the first time.

Skilled attendant/health care personnel a mediculty qualified provider with midwifers skills (midwife nume or doctor) who has been trained to proficiency to the

complications.

Traditional hirth attendant (TBA) a community-based provider of care during pregnancy and childbirth other than a killed attendant

Unbooked women: Those who did not receive any formal ANC but presented to any health facility in labour or with complications

Women of child-hearing age: women in their reproductive years who are between ages 15-49

CHAPTER ONL

INTRODUCTION

Background to the study

Maternal mortality is a serious public health problem worldwide Complications of pregnaticy and childhirth are the leading cause of disability and death among wanter heaveen the ages of 15-49. Although the topic has dominated discussions in many international and regional conferences for two decades now, ratios of murtality and murbidity among women of child-bearing age have remained high especially in sub-Sabaran Africa and Asia—areas where most of the deaths occur (United Nations 2006)

Maternal mortality refers to the death of a woman while pregnant or within 42 days of termination of pregnancy irrespective of the deathon and the site of the pregnancy from any easier related to or aggravated by the pregnancy or its management, but that from incidental or accidental causes (WHO, 1992; WHO, 1993). It is estimated that approximately 585,000 women (equivalent to one woman every minute) die globally each year as a result of complications of pregnancy and childbirth, 90% of these deaths occur in developing countries and up to 90% in sub-Saharan Africa and Asia, for each woman who dies, many more suffer damage to their health. In addition to this, each year over 50 million women experience pregnancy-related complications, 15 million of which tend to life-long pants, disability and economic exclusion. As a result, 300 million women suffer from pregnancy – related health problems and disabilities such as unacmia, merine prolapse, fistulae, pelvic infectious and infertility (UNIPA) WHO (UNIPA) WHO (UNIPA).

A report on population heretites by the United Nations (UN) showed that maternal deaths are from preventable cause that could be avoided with adequate and available resources and health services (UN) 194, 2003; According to the report approximate Africa Digital Health Repository PROJECT

software of maternal deaths worldwide are due to five direct causes haemorrhage obstructed labour, eclampsia (pregnancy-induced hypertension), sepsis (inferection and aussafe abortinate indirect causes are responsible for the rentaining 20% and are due to an existing metheal condition that is worsened by pregnancy or delivery (such as inflatia, amaemia, hepatitis, or increasingly, AIDS). The same source noted that in developed countries, the availability of high-quality health services has made maternal death a rare occurrence. On the contrary, maternal mortality situations have reached an alarming stage in most developing countries. Women in Nigeria are directly affected by low utilization of healthcare services (Okafor, 2003), and povery and limited access to appropriate care pose major challenges to improving utaternal health and reducing maternal mortality. Mathai (2005) argued that the knowledge and technology to prevent deaths among women are available but do not reach the intended target in time due to one or more delays, delay in deciding to seek care, delay in reaching care, and delay in receiving eare after reaching the place of care.

The tesulting impact of these deaths on family and community is enormous. Beyond the immediate suffering and grief caused, maternal deaths diminish children's own life change esteath rates for these children, measured over the two years after the women's deaths, are between three and ten times higher than for children with both parents living (Panos Institute, 2002). Recent esthnates for Africa are that between 2001 and 2010 there will be 2 smillion maternal deaths, 7 Smillion child deaths, and 49 million maternal disabilities, with a cost to economic productivity of 45million US dollars (WHO, 2004).

The need to reduce death among reproductive age women is now of paramount concern to nearly all the governments of the world particularly in developing countries such as Nigeria. Many surategies have been tested to improve the maternal mortality actuation in the world yet not all strategies in the past have yielded the desired results betteving the launch of the state Motherhood luminouse (SMI) in 1987, the goal of reducing maternal mortality has been stressed in many global conference, from the World Summit for Clulchen in 1990 to the International Conference on Population and Development (ICPD) and its review (ICPD) 51 in 1999. In 2000, the United Nations (UN) Member States at the Millemmuni Summit, set and adopted for themselves a total of each goal celled the Millemmuni Summit, set and adopted for themselves a total

prevention as one of the goal illustrated that the global community view safe motherhood as a top priority (Bloom, Lippeveld, and Wypij, 1999, UNIPA, 2003). Hamey and Cassels, 2004)

Improving maternal health is the fifth goal of the Millennian Development Goals (MIDG-5). The target is to reduce maternal invitality rate by 75% between 1990 and 2(115) Huwever, analysis of progress by the World Bank or recent past revealed that unly in three region (Listern and South-Eastern Asia and Northern Africa) were my significant progress made and that the de eloping world was off larget (World Bank and IMI 2004; UN, 2006) Both the progress-use of skilled attendant at delivery, and process indienturs-essential obstetric care (EOC), were also not encouraging (Maine and Rosenfeild, 1909; Wagsinff and Claeson, 2004; Although all regions of the world showed improvement in the number of deliveries attended by a skilled health care personnel- physician, nurse midwife or trained traditional birth attend in (113A), only 16% of deliveries in sub-Saharan Africa are assisted by skilled attendants (I mied Nations, 2006). Fewer than 50% of the women in some countries attend even one antennial consultation is health preventive measure inrected at every pregnant woman with my trained person. The resultant effect is turther reduction in the number of women issisted by skilled health care bersonnel during delivers followed by a corresponding rise in the number of women with poor delivery outcomes. This has implications to health Providing evidence in his report. Jowett (2000) wrote that improving access to LOC is the key to reducing maternal mortality

Antennal care (ANC) is named as one of the four pillars of SMI programmes. Provision of amenatal services is one of the most coxt-effective strategies for reducing maternal death, in many countries (Nuraim and Parker, 2005), investigations have shown that a strong positive correlation exists between antenatal use and likelihood of using safe delivery care. An analysis of ANC use potterns and trends, using data drawn from household survey, carried out in 40 developing countries during the 1900s and 2000. 20th showed that women who had four or more insteadal visits are far thore likely to have given birth with medical man tance than women having fewer visits (WHO I NICLE 2003). A study conducted in India by Bloom, Lippeveld and Wypii (1909), showed that after CAFRICADISTALHEAUTREPOSITORY PROJECTIOGRAPHIC and materinty history.

an estimated odd of using trained assistance at delivery that was almost four times lugher than women with a reduced level of care at the 25° percentile of the score. With regard to pregnancy outcomes, a study estimated that ANC and community-based interventions can prevent 26 percent of material deaths and another 48 percent can be avoided by ensuring access to quality EOC (Jowett, 2000).

Overall, findings of many studies suggest that a high level of unitration of obstetric services including early reporting to antenatal clinic will ensure a high level of maximization of the benefits of maternal health programme and so ensure a better health outcome for both women and infants (Mella, 2003) But in practice, a combination of factors including poor health-seeking behaviour and limited access to LOC are responsible for the dismul maternal mortality picture. In many countries of Africa, utilization of obsietric services is still very low I on ANC attendance in the tirst trimesters has been reported in many countries such as Zimbabwe. Tanzania. Uganda und Nigeria (Kambaranii, Chirenie and Rusakaniko, 1999, Massawe, Urassi, Ny tront, 1999 Mwaniki, Kabiru, Albuguu, 2002). For itistance, in some countries antenatal coverage is as low as 26%, a significant proportion of pregnant women receive no care at all. A lurge number of the women attending ANC book late and many attities do not deliver in hospitals even after attending antenatal care (Jimoh. 2003) In Nigeria utilization of inodern ANC is poor in most parts of the country and majority of those who present in all do so late (fibergue and Igberase, 2005) Consequently only one in three pregnant women received skilled assistance when in Inbour.

Statement of the problem

A key objective of maternal health care programmes has been to ensure that women present for ANC early in pregnancy in onler to allow time for essential diagnosis and treatment regimens. When women report early in their pregnancy, they avail themselves of the opportunity for man) important health programmes other than that of obstetric case But fate ANC attendance may preclude them from benefiting fully from these preventive strategies, particularly from and folic acid supplementation, treatment of helminthic intections and intermittent preventive treatment with Sulfaloxine-pyrinicthamine of the programme and folic acid supplementation.

Odmanibo, Axisi, Blokfand, Rosen, Adazu, Slittsker, and Lindblade. 2006). Altlaria. tuberculuse, nutrition and HIV AIDS and other sexually transmitted infections (SIII) e g syphilis programmes become undermilized. About 25% of study participants in one study did not get a minimum of two doses of tetanus toxoid. This predisposed them and their neonates in the risk of contricting tetanus, one of the mijor causes of mentality in Nigeria Maternal tennus is responsible for at least 5 per cent of maternal deaths, approximately 30,000 deaths annually (UNICE) WHO UNIPA 2000) A study in Kenya showed that barely half of the women received haeniannie supplements, one out of five women received one or more dose of sulfadoxine-Dynmethanine for malaria and an anthelminthic treatment was received edy only 3% (van Eijk et al. 2006) numbly because they registered line in their pregranes. Malaria is especially dangerous for pregnam women and their unborn children in sub-Saharan Africa malana infection is estimated to cause 400,000 cases of severe material anaemia and 75,900 200,000 infant deaths agriculty. Maternal anaemia contributes significantly to minerial inortality and causes an estimated 10,000 deaths per year. Cointections of malaria and IIIV AIDS which are most common in sub-Saharan Afric ea have major health implications, IIIV AIDS increases the risk of infection with malana and decreases response to standard anti-malarial treatment. Malana also contributes to increased viral load among III V-infected people (JHPII (it), 2007)

The first/booking visit is very significant in many ways as it helps health service, providers use the occusion to collect basic medical information that will form the basis to care for the patient throughout the period of pregnancy and beyond. Late reporting therefore he sate this objective with the result that so the underlying medical complication, may pay undetected. This is one of the causes of delay in getting that enter entions in case of emergences.

Information about the reasons for reborting late for ANC among program without in Nigeria is yet to be adequately documented, lew studies relating to the topic were conducted in the hospitals (Ezerwa Outh Ezerwa and Diator, 2008 (Thanore, and little 2000) to the best knowledge of the researcher, no investigation of this nature has been carried out in any twist community of the rate. There was need therefore to midual this study in this local payerminent area (1414) of linings State. Suppose of the largest trivial local payerminent area (1414) of linings State. Suppose of the largest trivial local payerminent area (1414) of linings.

Justification of the study

Antenatal care is an essential part of modern health care and every pregnant woman needs full access to antenatal service. Fo fully benefit from all its intervention packages, it is important that women develop positive health-seeking behaviours that will encourage timely and appropriate use of ANC services. This will directly impact on maternal and child health outcomes. This study was therefore, important in three ways first, it explored deeply into and exposed the root causes of late initiation of ANC among the reproductive age women. Secondly, clumging unhealthy behaviours is one of the most effective abproaches to improving utilization of important health programmes such as ANC services. Health care providers and beauth planners will find the results of this investigation useful in designing health education programmes that will help improve early reporting for ANC. Thirdly, the current on-going health system reforms of government will find enough evidence in the result of this study to support its action plans.

Research questions

This study act out to answer the following questions:

- 1. What are the knowledge and apinions of women about antenatal services in their communities?
- 2. What are the intitudes of women towards use of nationalal services?
- 3. What are the ANC practices of women in the last pregnancy period?
- 4 What are the women's perceived consequences of late reporting to ANC?
- 5 What frictors hinder or promote early reporting to ANC among the study
- 6 What me the women's suggestions of ways to improve ANC miendance among pregnant women?

Hypotheses

The following hypotheses were tested

- I there is no significant relationship between the age of the respondents and time at reporting for ANC.
- 2 There is no significant relationship between the area of residence and the time of reporting for ANC

- 3. There is no significant relationship between the educational level of worner and the time of reporting for ANC
- 4 There is no significant relationship between the employment status of the winner and time of reporting for ANC.
- 5 There is no significant relationship between the number of pregnancy pregnancies of the wonten and the time of reporting ANC
- ANC facilities in the community and the time of reporting ANC
- 7. There is no significant relationship between attitude of the women and time of reporting for ANC

Objectives of the study

The broad objective of the midy was to assess and document factors associated with late reporting for antenatal care among women of child-bearing age in Udi local government area of Enugu state. Nigeria

The specific objectives were

- 1 To document the knowledge and opinions of women about untenatal services in their constructives
- 2 In examine the attitudes of women to use of antenaul services.
- 3 To determine and document the ANC practices of women in their last pregnancy period
- 4 To assess the knowledge of women about consequences of late reporting for ANC
- 5 In identify and document those theors that hinder early reporting for ANC.
- 6 To document the suggestions of women about ways to promote early reporting for ANC

CHAPTER I WO

LITERATURE REVIEW

In this section, reports of different researchers were reviewed in an attempt to set the stage for this study. The indior headings that were discussed include: the global picture of innternal mortality, inaternal inortality situation in Nigeria, concept of ANC, medical and obstetne implications of ANC. The following were also x-rayed current status and trends in ANC use, models and contents of ANC, the focused antenntal care, including ANC in poor resource developing coursines. Others were ANC in Nigeria, factors influencing utilization of ANC, factors influencing gestational age at reporting, improving utilization of ANC service and the conceptual framework of the study.

Maternal mortality: the global and African picture

Studies have shown that a considerable difference exists in the levels of material mortality between high income and law income countries, and between the rich and the poor within countries. Only one percent of material deaths occur in the developed world Maternal mortality ratios range from \$30 per 100,000 births in African countries to 24 per 100,000 births in European countries Of the 20 countries with the highest maternal murtality ratios. 19 are in sub-Saharan Africa. Some of these include Rwanda, Sterra Leone, Burundi, Ethiopia, Somalia, Nigeria, Chad, Sudan, Burkina Faso. Equatorial Guinea and Kenya Rural populations suffer higher mortality than urban dwellers rates can vary widely by ethnicity or by wealth status, and remote areas hear a heavy burden of deaths (I meer 2005, WHO, 2007). In the industrialized countries, marginal monality ratio is as low as 12 per 100,000 live births, 440 per 100,000 in the developing countries and as high as 1,000 per 100,000 in the least developed countries. With an estimated majernal mortality ratio of 1,100 per 100,000 live hirths talmost thrice the global figure) sub-Saluran Africa has the highest risk of moternal death in the world A woman's literate risk of dying due to pregnancy complications in the region is 1 in 13 as apposed to 1 in 4,100 in industrialized nations For in tance whereas one out of every 3 800 women tund, the risk of death over the course of her reproductive lifetime in the United Kingdom. I in 6 has a similar risk in Siena Leone and Alghanist AFRICA DIGITAL HEALTH REPOSITORY PROJECT 3(K)33

Maternal unirtulity situation in Nigeria

The National Population Commission (NPC) (2004) estimates that there are about 60 million women in Nigeria, and of these, 27 million are in the reproductive age (15-49) years. Other demographic characteristics of Nigerian women are

Marticul by age 34 95%

Median age at first marriage 18 years

Adult female literacy rate 41%

Contraceptive prevulence rate 8.9%

Total femility rate 51

The near universality of marriage, the early age at marriage the low literacy rate among adult females, the low utilization of contraceptives and a pro-natulistic socio cultural millieu have led to a persistently high feitility rate. The total femility rate is 5.1 implying that, on the average, a woman bears more than 5 children in her lifetime. With each additional pregnancy and childbirth, the woman faces an even greater risk of experiencing complications that can result in disability or death (W III), 2003)

Nigeria's muternal inortality simulation is grave and its statistics have been indicated as one of the highest in the world (Federal Ministry of Health (FMOH), 2001; IGN, , 2002. I GN. 2004. I MOLL 2004. Shillman. Okonotus and Ved. 2006) despite several inters ention programmes aimed at its reduction (Unicora, Epikeme and Egwilliu, 2005. Umoryoho, Ahasinttin, Udomu and Etuk 2005) Available data showed that an estimated 54.000 women and girls die each year. This represents 10% of the global annual figure though Nigeria contributes about 2% of world population (WIIO, UNICHT UNFI'A and World Bank. 2001; Annually, close to 1 06 to 1 6million marbidity occurs. Maternal mortality ratin ranges between 800 and 1500 per 100,000 live hinth. The average material monality ratio of 1000 per 100,000 deliveries often quoted for Nigeria is derived mainly from ligures from urban based hospital studies. In the runil areas maternal mortality ratio appear much higher (Sule-Odu, 2000; Adamu and Salihu 2002. Fgwnatn. 2003, Uzorgwe and John. 2004). A woman's lifetime risk of dying is as high as I in 13 - the worst anywhere in the world (I indroos and , Linikkamen. 2004. Kupan 2005). This is worsened by low rate of faimly planning usage of only It? and corresponding high tertility rate estimated at 5.7 children per woman (ND)115. 2008). The AFRICA DIGITAL HEALTH REPOSITORY PROJECT ble variances that exist between

come and within cities with the northern part of the country having the worst experience. Needs assessment report of the Society of Gynaecologists and Obstetricians of Nigeria (SOCON) shows the following distribution of maternal mortality ratio.

Table 2.1. Maternal mortality ratios in some selected states in Nigeria

City	MAIR
1 nugu	703
Bornu	727
Plateau	846
Cross River	2,977
Lagas	3,360
Капо	7.50

Source, SOGON (2004).

Ninety-five percent of these deaths are attributable to seven causes, namely; bleeding thremorrahage) during pregnancy or delivery, infection (sepsis), pregnancy induced hypertension (PHI), musafe abortion, obstructed labour, malaria and anaemin (WHO/IMOH, undated, UNEDA 2002, Lucas and Gilles, 2003; lizugwu, et al. 2005). A review of maternal mortality data at Ogan State University Teaching Hospital. Sagaini, Nigeria, found a maternal mortality ratio of 1.936.1 deaths per 100,000 live births, liighty-six percent of the deaths were due to obstetric causes, and 11 percent cases related to septic induced abortions. Maternal deaths were higher for unbooked than booked cases (Sule-Odu, 2000). Maternal death reviews have also shown that many maternal deaths occur as a result of three main delays namely.

- Delny of pregnant women and their families an deciding to seek appropriate care
- Delay in reaching treatment facility after deciding to seek care
- Delay in receiving adequate treatment after the woman libs reached the health care facility

Lack of both planning and complication readiness (BPCR) contributed to all of the delays (Panos Institute, 2001, IMOH, 2006). The National HIV AIDS and Reptuductive Health Survey (2003) revealing some of the reasons why women die AFRICA DIGITAL HEALTH REPOSITORY PROJECT

premant women receive ANC from doctors, nurses and midwives while about 35% of them do not necetive care at all. As many as 50% of leenage women do not receive any form of ANC. Less than 5% of women made 4 or more antennial visits, contrary to the WHO recommendation of at least 4 visits for low risk women to ensure proper care (FMOH, 2006). There was an obvious decline in the proportion of women who receive edNC from health professionals between 1999 and 2003 as clearly shown by the respectively (NDHS, 1999, NDHS, 2003, FMOH, 2004).

Antenatal care use, urnang others, is one of the process indicators for monnoring the Millemman Development Goal 5 (MGD-5) which is, to improve by three-quarter the maternal health situation by the year 2015. Although some authornies have argued on its substantial effect in reducing mortality among women, there are several evidence to show that as a preventive intervention tritiegy it will have a huge impact on mortality ratios it targeted at the appropriate population (Wagstaff and Claeson, 2004; Boss-2007) Effective ANC services have been reported to improve maternal health, thus reducing maternal infam morbidity and monalmy (Jimoh 2003, Mesganaw, Abubeker and Asselu 2005. Paniela, Jamis. Trecia Sarina, Maybardb and Tevila, 2005). the introduction of ANC in 1913 was pioneered by Ballantyne at the University of I dinburgh who numbuted the high pennaial mortality rates observed at the beginning of the 20" Century to inadequate materially care during pregnancy and lack of supervision of progress of labour During the 1930s, the falling mortality rates were associated with a gradual increase in the number of intennal visits because women were encouraged to initiate ANC during pregnancy and were counselled to deliver in hospitul's (1)odd, Robbinson and Crowther 2002)

A recent descriptive study conducted in a tertiary hospital in Enugu however, found that over a two year period, a maternal mortality ratio of 2397.3 maternal deaths per 100,000 live highs. The principal maternal risk factors identified were unbooked statu no ASC (21.3%), printigravidity mulliparity (19.1%), previous caesarean section (6.4%), 141V AIDS (4.3%), poor attendance at the antennal clinic (4.3%), gandniuhiparity (4.3%), poor attendance at the antennal clinic (4.3%), gandniuhiparity (4.3%), provious periodal deaths (2.1%), previous history at hypertension (2.1%). LamiAfricAdistrauhealth Repostory provides for 12.1%, varidate disease in

programmy (2.1%), teeringe pregnancy (2.1%) and premature rupture of membranes (2.1). The results also showed that the key avoidable factors were delay in seeking care by the patient (19.1%), delay in recognizing a problem (6.4%). Financial constraints (i.e. itability of the patient to pay for relevant te its drugs or both 8.5%), lack of his 1 for transfusion (4.3%), lack of drugs (2.1%), industrial strike action by (2.1%) and substandard care (27.7%) (Opiniba and Nwogo-Ikojo, 20.8)

Concept ul autenalul care

Amenatol care, in its authlest incaning, is the care of a woman during pregnancy According to Vicears (2003), it is the eare given to a pregnant winner from the time that conception is confirmed until the beginning of labour. Banta (2003) noted that he a preventive programme, it is designed to screen a population of pregnant women in order to detect those in risk of disease prevent treat or manage certaiti asymptomatic complications of pregnancy such as eclampsia or pregnancy induced hypertension (PHI) Yavla (2003) was broader in his upinion and wrote that ANC is one concept that extends from pie-pregnimes to the postpartum period, fending to effective emergency care for unpredictable and predictable complications during pregnancy and childbirds According to him the prospects of a smooth pregnancy and the birth of a healthy bah are aided by thorough ANG and is a good entry point for interventions that could save maternal and newborn tives. In other word, this care should have begun even before pregnancy and continued throughout pregnancy and after delivery. Noting the formal nature of the care Majako (2005) pointed out that ANC is the complex of interventions that pregnant women receive from organized health care services. referring to it us the pregnancy-related services provided between conception and delivery consisting of monitoring the health status of women, providing information of juster uptimal health good delivery habits and proper hygiene as well as providing appropriate pay chalogical and social support

In the national clinical service protocol for obstetric and neonatal care (2006), the Federal Ministry of Health (IMOH) in conjunction with USAID and Community Participation for Action in the Social Sector (COMPASS), defined AMC as the appearation advice and intervention given to a pregnant woman by a health care provider during which a relationship of trust and confidentiality is established between them it should therefore fuarrica digital protocopy projecting and maintaining maternal and

found well-being throughout pregnancy and childbirth in their own definition. (amphell and I ce (2005) were of the view that ANC is the clinical assessment of mother and feotus during pregnancy for the purpose of obtaining the best outcome for both mother and child

From the love-going, and for the purpose of this study. ANC can be summarized as the planned examination, observation, investigation tremment and counselling given to a pregnant mother; the advice, supervision and attention a pregnant wormst receives to ensure good health throughout the period of pregnancy, up to the delivery of a live healthy baby.

Goals of intenatal care

The goal of ANC necording to Banta Houd Suarez Ojeda, 1987, is to prevent health problems in both infaut and mother and to see that each newborn child has a good start its primary aims are fourfold namely.

- To detect early factors that may heighten the perinatal risk of both individual pregnancies and numbers of voluciable groups.
- · To intervene to improve outcomes,
- To educate all who provide or receive care, and
- · To help make pregnancy and birth a positive life experience

As a major component of maternal health care services, the main objectives are as follows.

- bearing
- and the influences that these may have on the family,
- formation the progress of pregnancy in onjer to ensure maternal health and normal foctal development.
- To recognize deviation from the normal and provide management or treatment as required
- emotionally prepared for her delivery

- brea theeding in a sensitive manner and give advice about preparation for last atton
- To offer the family advice on parenthood either in a planned programme or on in
- Will encourage them to participate in and make informed choices about the care they receive (Thomson, 1996)

The purpose of ANC is to prevent or identify and treat conditions that may threaten the health of the frictus/newborn and or the mother, and to help a woman approach pregnancy and birth as pasitive experiences. To a large extent ANC can contribute greatly to this furpose and can in particular help provide a good start for the newborn child. The purpose was summarized in a study by broad. De Bernius and El-Joud. (2002) as follows:

- non; uterine score, malpresentation, premuture supture of membranes.
- hypericusion, infection (malaria, venerual disease, HIV, icianus, urnary traci infection), anaemia and trace element deficiencies, gestational diabetes niclius.
- for provide counselling, support and information for pregnant women and their families (including the partner), concerning severe signs and symptoms of pregnancy and delivery, community Organisation of emergency transfer delivery planning.

The authors were of the view that these potentially effective actions will produce more if they are implemented within an organized maternal health system with functional network of delivery units, as was earlier observed by Majoko (2002).

Medical and obsterric implications of antennal care

The antenaul period presents important opportunities for reaching pregnant women with a number of interventions that may be vital to their health and wellbeing and that of their infants. It also provides an opportunity to supply information on birth spacing which is recognized as an appointment properties and infants. It also provides an opportunity to supply information on birth spacing which is recognized as an appointmental perfect of their materials.

immunization during pregnancy can be life a ving for both the mother and infant. For instance the elimination of neonatal and maternal teams in many parts of India is attributed largely to nicce ful intervention through ANC (Muthai 2005) Antenatal care is also used to deliver intermittent preventive treatment of malaria, though a study in Mulawi found two coverage despite high unionatal attendance (Holtz Kachur, Roberts Mkundula, Chizam Macheso, and Parise, 2003). The prevention and treatment of malurin among pregnant women, management of anaemin during pregnancy and trenuncut of sexually transmitted infections (STIs) can ignificantly improve facial auteomes and improve maternal health. Adverse outcome, such as low buth weight can be reduced through a combination of interventions to improve women's nutritional status and prevent infections (e.g. malaria and SIIs) during pregnancy. A study in Kenys found that offering free insecticide—treated bed nets (ITNs) to pregnant women through ANC climes is a cost-effective equitable way to distribute the malarin prevention tool (Couvait Corlett Robin on, Ochola and Snow 2002) More recently, antenutal period is an entry point for III V prevention and care in particular for the prevention of HIV transmission from mother to child (WHO) UNICEL, 2003). Rosser (2000) stated that providing good care to women who have IIIV AIDS before, during and after pregnancy could help reduce the spread of IIIV. especially between mother and infant

Surveys indicate that mutational supplementation could reduce maternal morbidity and mortality (Tomkins 2001; Villur, Ba'aged, Plaggio, Lumbiganon, Migoel, Farnot, Al-Mazrou, Carroli, Dannet, Langer, Nigenda, Mugford, Fox-Rushby, Huston, Bergsjo, Bekketeig, Berendes, Gareta, 2003), especially among women with early or closely spaced pregnancies (King, 2003). A large study in Nepal found that upplementing reproductive-aged women with vitamin A or buta-carotene reduced maternal murtality by 40 percent (West, Katz, Khatry, LeClerq, Pradhan, Shrestha, Connor, Dali, Christian, Pokhrel and Sommer, 1999). The prevalence of maternal anaemia, a significantly despite the initiation of large-scale from supplementation programmes (Galloway, Dusch, Elder, Achadi, Grajeda, Hurtado, Favin, Kanani, Marsaban, Meda, Moore, Morison, Raima, Rajutatuum, Rostriquez, and Stephen, 2003). They noted that difficult access and underatilization of ANC services.

harriers to notable success.

Antenatal care can contribute to reducing the complications of hypertensive disorders of bregnines (for example, ececlampsia)mong developing-country women in University of Port Hurcort Teaching Hospital. Nigeria, the high maternal mortality observed was common among the unbooked primigravidae who presented late with preeel unpsia echniquesia (Uzoigne and John, 2004). A study in another tempty heigh institution in Nigeria found that out of 3.106 deliveries in a two-vear period, there were 42 cases of ruptured incrus and virtually all the cases (-11) were illiterate and 93% had no ANC (Ekele and Andn, 2000). In a study to identify the socio-demographic and obstetric risk factors for ruptured uterus mother study showed that the meidence rate was I in 426 deliveries and being unbooked for ANC was a major factor (I beighe I nabudoso and Ande 2005). Levels of permutal and maternal mortality in the Greater Harare Maternity Unit in Zumbahwe were markedly higher among women who did not book for ANC compared to women who booked (Laweus, Crowther, Van Baelen and Marumahoko 1992) After controlling for ANC among teenage mothers and other counterparts, the poor obstetric onleames of quaettia, preterm delivery low birth weight and neonatal admissions that were observed were related out their non-utilization of ANC rather than their hilolgical age (1 oto, Leecht, Kalu, Loto, Ezechi and Ogumniy (2004)

Data from observational studies in Matavi suggest that those who attended ANC and attend early have better pregnancy anteonies than those who attend late or not at all although there may be confounding variables (fillen, 2007). Twenty percent of all mothers who died in the maternal mortality survey of 1997 – 1999 had either missed more than lour ANC appointments or booked after 24 weeks. Lack of ANC was ened as a risk factor for maternal death. Ninety-eight percent of all women in developed countries receive ANC leading to a high as 04% of skilled attendance during delivers with nimely access to appropriate emergency treatment if complication, arise. In contrast, large numbers of pregnant women in Africa and Asia do not receive adequate prenstal care and so lack skilled attendance at birth (Zancanato, Msolomba, Outu attained), 2006)

Current status and Irends in autenatal care use

Available data during the periods 1900s and 2000 – 2001 showed that most women have some ANC. Over 70% of women wouldwide are attended at least once during pregnancy by skilled health personnel (midwife, nurse or doctor). In the industrialized countries coverage is extremely high, with 98% of women having at least one visit. In the developing world. ANC use is around 68% (data was not available for China during the period of the study). Even in the developing countries, coverage was found to be high as about 71% of pregnant women reported visiting antenatal facilities at least once. The rate was highest in East Asia and Pacific (87%) and I will America and the Caribbean (87%) and lowest in South Asia (54%). In sub-Saharan Africa, generally the region with the lowest levels of health care use, 68% of women reported at least one antenatal visit (UNICLE/WHO, 2002; WHO/UNICLE, 2003). The levels in the remaining regions of the world range from 82% to 86% as shown in table 2.2 below.

Table 2.2. Amenaial care by region

Regions	To women aged 15-49 years attended at least once during pregnancy by skilled health personnel (doctor, unrse, midwife) 1996-2004	
Sub-Saharan Africa	1,9	
Eastern and Sombern Africa	72	
Western and Central Alrica	66	
Middle Last and North Africa	71	
South Asia	5-1	
Fusi Asia and Pacific	87	
Latin Anterea and Caribbean	87	
CLECIS	86	
World	71	

Source: UNICLE Global Database on Antenatal Care (last updated) 2006

Although trend data were not available for all developing countries, malyses of Demographic and Health Surveys of 45 countries showed that in general, ANC had improved steadily rising by more than 20% over the decade (from 53% in 1990 to 64% in 2000). Progress was greatest in Asia, where ANC increased by nearly one third over the period, although this region staited from the lowest base. By contrast, in sub-Sahuran Africa the increase was only 4%, in the Middle East and North Africa and in

Taun America and the Canhhean the increases were 10% and 1.5% respectively (WHO) UNICEE, 2003)

Models and contents of antenatal care

The Lutopean Western model of antennal care which began as regular check-ups for all pregnant women originated from the United Kingdom and the Northern Island. It later became in integral part of maternity care in the 1920s, some thirty cars after the introduction of formalized labour and delivery (WHO 2003. Chan and Kean. 2004) The traditional risk-approach to eare that is still in widespread use today was adapted from this European model It as times that more is better in eare for pregnant women. I requent reatine visits are the norms and includes 12 16 visits to health services by the pregnant woman, as well as provider visit to her home in its standard form, women visited the climes oftee a mouth for the first six months of pregnancy, once every 2-3 weeks for the next two months, and then once a week until delivery. They were routinely screened with minuty test for proteinum and infections, and with blood tests for syplulis, hactroglobin measurements and blood-group typing, Subsequently individuals are classified into high and low-risk categories to determine their chances of complications and the level of care they need (WHO, 2002). Nigeria and other developing countries had adopted this approach without adjusting the interventions to meet the needs of their population, taking into account available resources or cyaluating the scientific basis for specific practices (Stephenson, 2005) Madubuko, 2007

The first booking visit, in the standard European model, focuses on taking a detailed social, tamily medical and obstetric history, carrying our a comblete physical examination, and making a risk assessment that nequires a broad range of laboratory tests. Subsequent visits include simple examinations, though some examinations are till conducted at every visit, Later in pregnancy, examinations focus on the stants of the developing factus and the preparation for a safe delivery (WHO 2003). Although this model is still in use in many countries, research has discredited it, use on the ground, that it fails to predict who will go on to develop complication of pregnancy and delivery. Thus, following the results of two main randomized trials in the

developing countries a new ANC model that is better, cheaper, faster, and more evidence-based was recently developed by WHO (Villar, Carroli Khan-Neelofur, Praggio, Ciblinezoglu, 2001; WHO, 2003 Stephenson, 2005, Ellen, 2007)

Overview of the new WHO antenatal care madel

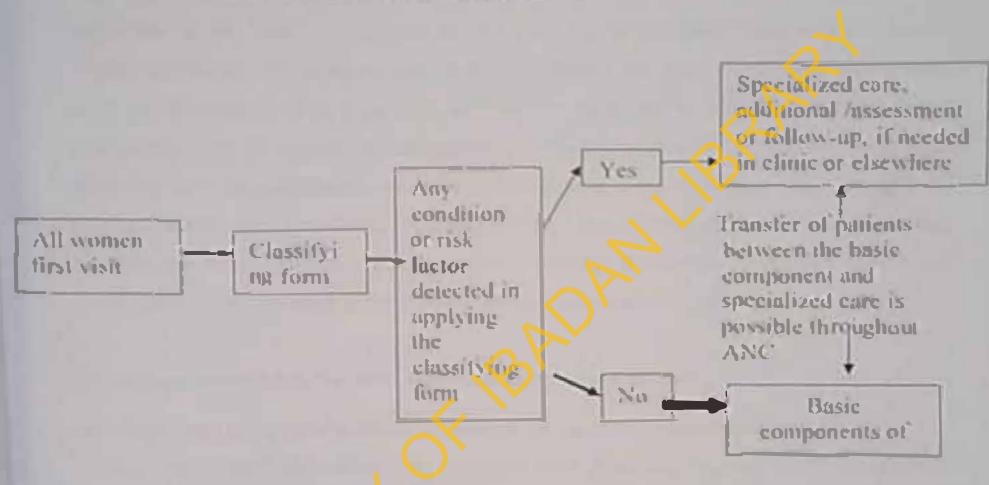


Fig. 2.1. The new WHO antenatal care model

Source: Manual of the New WHO antenatul care model (WHO, 2002).

the new ANC model developed by the WHO is represented diagrammatically in figure 2.1 above. The main characteristics of the new protocol were reduction in the number of visits with an evidence-based set of contents, and the provision of accurate information to women to identify warning signs and encourage preventive behaviour. Screening for risk factors is no larger the focus rather, all pregnant warner, on their first visit to the facility, are evaluated using pre-set criteria known as the classifying form. The purpose of this is to see if they require special care for existing medical conditions. By this pregnant women are divided into two groups.

- Those eligible to receive routine ANC (alled the basic component), and
- ii Those who need special care based on their specific health conditions or risk factors

Women considered not to be it-risk or having existing medical conditions are offered the basic component of the new model. They are considered not to require any further assessment or special care at the time of the first visit regardless of the gestational age at which they start the programme. On the other hand, those reduiring special care are not eligible for the basic component rather they receive treatment for their specific condition and are still included in the intervention group.

Activities in the basic component of the new model include screening for health conditions likely to increase the risk of specific adverse outcome, therapeutic interventions known to be beneficial, and alerting pregnant women to emergencies and instructing them on appropriate response. Clinics employing the new WHO model are provided with the resources necessary to implement these activities. The strengths of this new WHO model are in the fact that it limits the number of visits to the clinic and restricts the tests, clinical procedures and follow-up actions to those that have been shown to improve outcomes for women and new borns (WHO 2002).

Principles underlying the new WHO untended care model

The following principles underlie the new WIIO antenutal care inodel

- I An ANC model should include a simple form that can be used easily to identify women with special health conditions and or those at risk of developing complications, such women need to be referred to a higher level of care
- 2 The identification of women with special health conditions or risk factors for complications should be done very carefully. Such women should be referred to ligher levels of care only when the higher levels of care are known to have the expertise to deal with their Decific health care needs.
- The opening hours of clinics providing ANC should be as convenient as possible for women to come to the clinic. It has been shown that the number of women seeking ANC at clinics increases proportionally with increases in hours of operation of those climes. Health care providers should make every effort to keep their appointments with women in order to reduce patient writing time. However, women who come without an appointment should not be turned toway even when there is no emergency. A fair to possible, any required interventions (for treatment) or lest-

should be done at the women's convenience for example on the same day of the woman's visit

- 4 Only examinations and tests that serve an immediate purpose and that have been priven to be beneficial should be performed for example, there is justification for performing a specific test only one eduring pregnancy it should be performed at the most appropriate time that is when in intervention is possible in case the test result Is uhnormal
- 5 Whenever possible, rapid and easy-to-perform tests should be used at the amenual clinic or in a facility as close as possible to the clinic. When test results are positive le g positive for syphilis), treatment should be initiated at the clinic the same day (WHO, 2002).

The Lucused Antenatal care

In promote the health and survival of mother and babies, some countries have udapted the WHO goal-oriented focused ANC (FANC) (Birting) and Onyango-Ourna 2006) Here, the emphasis is on quality of care nather than the quantity for normal pregnancies therefore, only thur antenntal visits are recommended. Two important realities are taken into consideration namely

- frequent visits do not necessarily improve prignancy outcomes, and in developing enumines, they are often logistically and lineneually impossible for wanten
- Many wanten who have visit factors never develop complication, while women without visit factors often do so, when ANC is planned using a visit approach, scarce healthcare resources may be devoted the unnecessary care.

therefore every woman should receive the same basic care and monnoring for complication

The major goal of FANC is to help women maintain normal pregnancies through

- Identification of pre-existing health conditions
- Larly detection of cumplications arising during the pregnant
- Health promotion and disease prevention
- Birth preparedness and complication readings: planning.
- · Identification of Pre-existing Health Conditions: As part of the initial assessment the provider talks with the woman and examines her for signs of chronic conditions AFRICA DIGITAL HEALTH REPOSITORY PROJECT

and intectious disease. Pre-existing health conditions such as HIV, malaria, syphilis and other sexually transmitted diseases, anaemia heart disease, diabetes, malnutrition and tuberculas is may affect the outcome of pregnancy, require immediate treatment, and usually require a more intensive level of monitoring and follow-up eare over the course of pregnancy.

- Early Detection of Complications arising during the pregnancy: The provider talks with and examines the woman to detect problems of pregnancy that might need treatment and closer monitoring. Conditions such as anaemic, infection, viginal bleeding, by pertensive disorders of pregnancy, and abnormal fetal growth or abnormal fetal position after 36 weeks may be or become life-threatening. Left untreated
- Health Promotion and Disease Prevention: Counselling about important issues affecting a warman's health and the health of the newborn is a critical component of FANC. Discussions should include how to recognize danger signs, what to do, and where to get help, good autrition and the importance of rest, and hygiene and infection prevention practices. Other issues for discussion are risks of using tobacco, alcohol, local drugs, and traditional remedies, breatheeding and postpartum family planning and birth spacing. All pregnant women should receive as preventive interventions, immunization against tetanus and from and talate supplementation. In areas of high prevalence worten should also receive presumptive treatment of hookworm, voluntary counselling and testing for HIV, protection against malarin through IPT and ITNs and protection against voluntary and redirection against malarin through IPT and ITNs and
- Birth Probanciness and Complication Readiness: Approximately 15 percent of women develop a life threatening contalication so every woman and her tanaly should have a plan for
 - Addled attendant in hirth
 - I he place of high and how to get there including how to obtain emergency transportation if needed
 - . Items needed for the birth
 - Money saved to pay the skilled provider and for any needed mediations and supplies
 - . Support during and atter the firth (e.g., family, triends)
 - Poisinial blood donor in the of emergency

Implementation of Focused antenatul care: The WIO ANC package is designed as job and for ANC providerarica digital Health repository projected instructions for that are needed

depending on the country, updating national clinical standards and guidelines for ANC, modification of pre-service training curricula in ANC, in-service training for ANC providers and their supervisors, and a thorough assessment and plan for making changes in drugs, equipment, and supplies needed to implement the package USAID-funded programmes have developed model standards and guidelines that can be adapted to local conditions. Likewise, training modules and curricula exist to help providers update their knowledge and skills (Stephenson, 2005)

Frequency and timing of antenatal visits

In all models, early initiation of ANC is important in many ways namely to prevent and treat inaerma, to screen and treat syphilis, and to identify and manage women with medical complications. Early care also allows for the development of interpersonal relationships between health care providers and the pregnant woman so that her particular needs and wants are known and expressed in a plan for delivery. The World Health Organisation recommends a minimum of four antenatal visits, scheduled at specific times in the pregnancy to accomplish the essential level of ANC. In their study. Prual, De-Bernis and El-Joud (2002) showed that these four antenatal consultations would be enough if appropriately timed at 12, 26, 32 and 36 weeks of pregnancy. However, this is only a minimum requirement. More visits may be necessary depending on the woman's condition and needs. The optimal number and content of antenatal visits is well specified in the WHO new model of ANC in which the style of care described requires a type of interaction between the woman and her health care provider that takes more time than has previously been available in many of the world's overcrowded clinics.

The initial/houking visit

The unital booking view is the first visu made by a pregnant woman to an arganized maternity grace. The term booking come from the day when women literally had to book them also a hospital bed for labour. Ottename at a the woman's first introduction to the team that will sate for his dating the period of pregnancy. Thomas in 1990, the booking visit has a important component of AC and marking a done and the standard factor the someon beath to table as full works in done and the standard repository projects later his the standard in the standard factor of the someon beath to the standard factor of the someon beath to the standard factor of the standard factor of the standard factor of the someon beath to the standard factor of the standard factor of

and her healthcare provider. Subsequent visits are then made according to the need of the individual – lesser visits for low risk women and a more frequent visit for high risk women (Katharyn and Mahlmeister, 1989, Charoro and Igbafe, 2000)

According to the new WHO model, duration of the itutial visit lasts between 30-40 minutes for an individual woman and is expected to meet the following objectives

- For assess levels of health by taking a detailed history and to offer appropriate screening tests.
- To ascertain buse-line recordings of blood pressure, unnalysis, blood values, interine growth and focial development to be used as a standard for comparison as the pregnancy progresses es
- To identify risk factors by taking accurate details of past and present inidesifery obstetric medical, tannily and personal fustors
- concerns they might have about the current pregnancy and previous pregnancy loss, labour, birth or puerperium.
- To give public health advice and that pertaining to pregnancy in order to maintain the health of the mother and the healthy development of the factus
- To begin building the foundation for a trusting relationship in which the woman and midwife are partners in care (Viceurs, 2003)

Ideally, the first wat should occur in the liest trimester, around, or preferably before week 12 of pregnancy (WHO, 2002). Women presenting later than this date are deemed to have booked late (I beighe and laberase, 2005), flowever, regardless of the pestational age at booking all pregnant women coming to the clinic for ANC are enrolled and examined according to the norms of the first and subsequent visits. Kupair (2005) moted the importance of early reporting for eare during pregnancy stating that ANC can be note effective in presenting negative pregnancy outcomes when it is sought early enough in the pregnancy and continued through delivery. In his opinion, beoking beyond the first trimester negates the objectives of the programme, and the period may likely become musted opportunities for other important programmes that contribute to improved health of the woman and her focus even beyond pregnancy or malaria telanors tobercules and marition interventions supporting the above submarricapidate.

ontenutal services and delivery care in rural western Kenya which showed that among 570 women who could recall the number of tetanus doses received, 97% received at least one dose, 46% received only one dose, 43% received two doses, and 8% received three doses. On the contrary, five doses are considered appropriate to confer life-long immunity (van Eijk et al., 2006). Most women (64%) in the study first visited the facility in the third trimester.

Antenatal Care in Pour Resource Developing Countries

Antenalial care has been implemented in developing countries according to the satte mode as applied in industrialized countries with little adjustments for local conditions (Prual, et al. 2002) Availability and use of ANC services were shown by several studies to be high even in low resourced developing countries. In rural western Kenya. a community-based survey on use of antenat il services and delivery care among women showed that of the 635 participants, 90% risited the antennal clinic at least once during their last pregnancy (median number of visits was four), ninst women (64%) had their first visit in the third trimester. Eighty percent of wanten delivered omside a health facility. TBAs assisted 62%, laypersons assisted 36%, while 22% received no assistance (van Eijk et al. 2006) Ramarao, Caleb. Khan, and I own end (2001) examined utilization of material and child health services and the readiness of primary health care (19116) facilities to provide maternity services to determine why the state of Litter Princesh continued to have one of the higher elevels of material mortality in the country less than half of pregnant wanten in roral Unar Prodesh sought any ANC throps 90 percent of deliveries mok place at home, and nearly half were attended by family or relative

Regarding the number and timing of attential visits, the majority of women presenting for any ANC have at least four visits, which measure up to the minimum number of visit, recommended by the WHO for a law risk mormal pregnancy. In Nepal however, 38% of women reported at least one visit but only 9% reported four or more visit. Most women had two or three microatal visits (AbouZahr and Wardlaw, 2002), thusever at was noted that though most pregnant women in Sub-Saharan Africa much up to four and extra like in any restore, most women can four NSC late in pregnances (WHO) 2004). Most women are likely to wast until the second trains and a relatively substantial professional relatively substantial relativel

South African study was 20 weeks with a range of 12 to 32 weeks (Myer and Harrison, 2003). In another study, only 62 women (21%) attended during the first trimester. Most women (47%) only attended during the third trimester. The follow up pattern showed that 94% came for a subsequent visit – 77% thrice, 76% four times, 74% five times and 73% six times (Peltzer and Ajeghornogum, 2005).

Avcording to Myer and Harrison (2003), widespread availability of free ANC services in rural South Africa was not a factor for early clinic attendance. The median gestation of first booking in rural health districts of Hlabisa. KwaZulu-Natal was approximately 25 weeks and significant proportion of women who sought ANC did not return for any follow up. Similarly, in Zimbabwe only 21.6% of ANC attendees started in the first trimester and 62% made live or fewer antenatal wishs (Kambarami, Chirenje and Rusakaniko, 1999).

Antenatal care in Nigeria

the standard recommended number of aniental visits in Nigeria is according to previous protocols and concern monthly visits up to 28 weeks of pregnancy, followed by bi-wackly visits to the 36 week of pregnancy and weekly afterwards to delivery if for any reason the woman cannot make the recommended muther of visits, the minimum of four visits are to be made at the 10th 20th, 30th and 36th weeks of pregnancy. Apart from these routine visits, the policy recommends that pregnant women report to a climic anytime they feel unwell and that the first amendal visit be made as early as possible as soon as the woman thinks the is pregnant. During the ANC state the development of the pregnancy is to be monitored, health advice given, health hazards such as anaemia, hypertension and infection screened for and, if necessary treated and telanus immunization administered (EMOSELES AID) COMPASS 2006)

company not the 1909 and 2005 813HS in the howed a decline in the proportion of women who received ANC from health one professionals in recent times compared to four years hash. Where, 63 or it women received intenstal inher than a decline must inside the inside the inside the law survey.

Africa Digital Health Repository Project.

for CHIW in the three year preceding the 2003 urvey. Over an eight-year period between 1995 and 2003, the average coverage of ANC stood at 58% and only 35% of deliveries in Nigeria had, killed attendance (UNICIE, 2003).

The above picture has remained unchanged as shown in the results of the NHDS 2008. Fifty eight percent of women still receive some ANC from a skilled provider, from a nurse or midwife (30%) or a doctor (23%). Only 31% of women in the North West zone received any ANC from a skilled provider compared with 87% of women in the South Fast and South West zones. Fonty-five perce end women had the recommended four or more ANC visits, but only 16% of women had an antenatal cure visit by their fourth month of pregnancy as recommended. More than one third of women (36%) received no antenatal cure (NHDS, 2008).

ANC from trained personnel during their last pregnancy while 12% did not As a result 45% of women took iron tablets or syrup during their last pregnancy 10% took intestinal parasite drugs. Six in ten women (6) a) who received ANC were informed of the signs of pregnancy complications. About half of women's most recent hirths were projected against neonatal terains (Bawa, Unia) and Oradeko, 2004. NHDS, 2008)

Just as several studies show that utilization of modern ANC is generally paor in most parts of the country, health seeking behaviour among women of child bearing age falls short of expectation panteularly among teenagers. One study found a 79.9% incidence of late banking with a mean gestotional tipe of booking at 23.1 weeks. Only about a fifth (20.15a) of the study population booked in the first trimester. J. 9% in the second and 35 are in the third trimester (Ekele and Audu, 1998; Gibarnio and Igbofe, 2000). According to Okunlola. Ayinde. Ownnikako, Ontigbodini, (2006), in a terriary hospital in southwestern Nigeria among 205 women who attended the ANC booking clinic, mea argestational age at banking was 21.82 (± 7.0) weeks. Only 29 (14.1%) brooked before 13 weeks. In a cross-sectional study in Shagamu also revealed a mean gestational age at booking of 21.4 ± 5.1 weeks among 2,084 participants (Lamina, 2004), in the binge I clin area, 79.9% of the study population booked but for antennal care 11 beingte and Igberiese, 2005). Also, results of another study interviewing 378 consecutive pregnant women utiliting ANC in urban ternary health facility in Benin City, the mean gestational agreeagoritatheathirepostory prefer weeks. The peak period for

(Gharoro and Igbate, 2000).

The proportion of Nigerians with access to health care services has been put at 56.5% (WHO. 2003) Less than half of pregnant tecnagers (48.7%) received ANC from a health professional compared to 61.2% of pregnant women of age 20-34, and 60.7% of thuse above 35 years of age in five years preceding the 2003 survey (FMOH/UNFPA. 2004) What are the factors influencing the health-seeking behavior of women towards receiving APC and the choice of where the care is received? In Nigeria, women receive ANC from the following sources: public health facilities, private health facilities, missionary homes and 18As. The total number of health facilities in Nigeria by the year 2000 was 23.676 (data for I bony) State was not available). Thirty-seven percent of this number was productly owned in terms of service delivery, less than half (49 8) of the 13 211 PHC facilities in the country provided ANC while 42 9% and 43.9% respectively, provide delivery and postingtal services (FMOH WIIC), 2002). The sounce also revealed that almost three-littles [58.2%] of the PHCs offering ANC and delivery services have been recently documented as having no midwife, while 17% have neither a midwife or a senior CHEW. The northern zones are even worse allected thin the wuthern rones

Studies also show that in Nigeria women who book especially in government facilities concurrently use multiple ANC care givers – both formal and informal. Results of 200 randomly selected women attending two booking clinics in a terrary institution in I born 1 tale howed that 25% and 30.5% respectively from the two clinics were concurrently using tormal and unorthodox ANC care givers (Adeave, Ogboranny), I meomb and A realty 2005). It has also been recorded that another determinant of the unity insternal martality attention in Niperia is inscreasing number of deliveres outside how pind environment. Even booking for and attendance to ANC tacilities was not found to be associated with delivery in hospital Leechs Facilities. Unlike the Dubob and Olomola, (2004) found that 12.8% out of 9,515 women defaulted from hospital delivery over a five year period in a terrary institution, nonthine to Niperia.

factors influencing utilization of autenatal care

Researche's have investigated the factors associated with use of ANC (Magadi, Nlachise, Rodrigue, 2000; WIIO and UNICEF, 2003). Studies conducted locally and internationally suggest that factors like costs, socio cultural beliefs, levels of education, and place of residence (urban or rural) are of import AhouZahr and Waidlaw, 2002, FMOH, 2004; World Bank, 2007).

Affordability: Poor women have limited access to appropriate information and health services. Oftentimes, direct service fees as well as the fees associated with transportation, drugs and supplies in many settings strongly influence the utilization of maternal-newborn health services. Exemption nucleanisms rarely work properly. This is particularly the ease for delivery and other pregnancy related emergencies. The unpredictability of total costs for pregnancy and the possible complications deter the poor from seeking skilled attendance. Opportunity costs of sickness and treatment is onerous on poor people who depend on daily wages. High out-of-pocket expenditures on health care force lamities to slide into poverty because the majority of poor women lack health insurance (World Bunk, 2007).

In their study titled Understanding users perspectives of barriers to maternal health care use in Maharashira India. Girffiths and Stephenson (2001), found that sockeconomic status was not a barrier to maternal health service use if women perceived the benefits of the service to outweigh the cost, and if the services were within reasonable distance of the woman's home. They further demonstrated that many women thought private services were superior to public services, but their use was often prevented by their higher cost. Even when services me provided, they may not be used because women have to perceive that using services will benefit them and their unborn child before they will use them. Also a good number of women even it they received ANC services at a facility preferred to deliver at home in a tantiliar environment often with the assistance of sumeone known to them.

Socio cultural beliefs: Cultural manns and practices may negatively impact on maternal health. The perception of health and risk during premines birth and perturbation perturbationally influence both health seeking beliefs.

witchcraft encouraged their to hide pregnancies and delay ANC to protect themselves and their children (Chapman, 2003). In Nigerian rural communities women did not seek ANC because of lack of linancial resources, God's will and husband's denial (Adamu and Salihu, 2002) Most of the participants in a study among the Among women, southeast coast Nigeria. felt hospitals generally connoise sickness and were places reserved for only sick people. The most commute causes of maternal death highlighted by the participants were spiritual attack from enemies and punishment by the Gods for infidelity. Thus suggestions made by the participants to reduce maternal death included, education of women on the need to be faithful to their husbands. 4 4eceptance! Christianity by all women and total sufferder to God during pregnancy 11 moryoho. Abasiattai, Edoma and Etuk. 2005) Women in Horina a zurul continuinty in Uganda, rely on traditional birth practices because they were familiar and accepted pregnancy is viewed as a test of endurance, and maternal deaths are a sad, but normal event Lack of skilled staff at the PHC level, complaints of abuse of patients, neglect and poor treatment in the hospital. poorly understood reasons for procedures, lack of money to pay for care and medicines and health workers' views that patients are ignorant were the reasons given for the unwillingness of women to deliver in facilities (K.yomuhendo 2003)

Level of educations investigations have demonstrated that there is a strong association between level of women's education and use of nuternal health services. Data analysis of surveys carried out in 45 countries confirmed that in developing countries as a whole, educated women are more likely to receive ANC and the likelihood of their using ANC is associated with their level of education (WHO, 2003). In a national malaria knowledge, annudes, and practices survey in Malawi by Schultz, Steketes, Chis ulo Macheso, Nyasulu, and litting (1994), the woman's level of education was the only agrificant predictor of initiating ANC continued ANC intendance and delivery in hospital. Another survey showed that 30% of those with no level of education and 85% of those with higher education made at feast four ANC visits (About abroad Wardlaw, 2002). Educational status is not only a factor to ANC migration but also to choice of place of care and delivery (Bawa, Umar and Onadeko, 2004).

In a study in Nigeria titled Determinants of utilization of ANC services in Kombotsa village Kano Nigeria in which 200 pregnant women were interviewed 86% had secondary education, all (100%) of those with post secondary education and 83% of those with husbands with post secondary education utilized ANC (Kahir, Iliyasu, Abubakar, and Sant. 2005) Using 60 participants in an experimental study to ascertain if a new approach to ANC can unprove knowledge of pregnant women about its benefits in Indonesia, the investigators demonstrated that improvement of knowledge in the intervention group was significant particularly in the knowledge about healthy pregnancy, pregnancy complications, safe high and taking care of the newborn. The improvement of knowledge was significantly influenced by educational back ground and socio-economic status of the respondents (Nuriani and Parker, 2005). However, Ikeako. Onah and Iloabachie (2006), noted that though formal education was still a significant predictor of use of orthodox maternal health services, the depressed Nigerian economy since 1986 had marginalized the benefit of education with the result that educated women stopped making use of existing health facilities because they could not afford the cost of health services

Place of residence: Analysis of data from 23 Demographic and Health Surveys in sub-Saharan African countries from the 1990s, revealed that poor urban women appeared to receive worse maternal health care than their urban non-poor and numl counterparts. The urban poor were more likely to begin ANC later, make fewer visits to a health facility during Pregnancy, and receive non-professional delivery care than urban non-poor. Though these results were not uniform across countries, the data indicated that the disadvantages of urban poor relative to non-poor in terms of uniental and delivery care its worse in countries where indicators showed better overall maternal health. The urban poor in these countries fate worse than rural women, indicating that improvements in maternal health care have not benefited urban poor women (Magadi et al., 2003). Delays in seeking and obtaining quality maternity care resulted in high maternal mortality in Kalaba, Zambia because according to one study distance, lack of transport, user tees, tack of adequate health education during ANC, inadequate staffing, and poorly equipped clinic, were barrier to early attendance track lenburg. Kyanantina Mukelabai, Wolffers, and van Roomwilett 2004).

Quality of services: The quality of services is another major factor to utilization of maternity services such as ANC. Quality of care, according to Jam, Bruce and Mesch (1992), is the way the health system treat the patient; or as Kols and Sherman (1998) defined it, providing good quality services involved in offering a range of services that is safe and effective and that satisfy clients' needs and wants. A study in rural Nepal found that the quality of services at health posts and the presence of village outreach workers, not the quality of facilities were the strangest determinants of use of ANC services (Achary's and Cleland, 2001). Similarly, a study in Cape Town South Africa found that women's attendance of antenntal clinic was influenced by their petcaption of the quality of care, and the perceived benefits and risks of ANC (Abrahams, Jewkes, and Mvo. 2001). On the other hand, women cited poor quality of care at government facilities as a reason to deliver at home in the Criffiths and Stephenson study.

In Nigeria, reports of Performance Factor special Studies and Performance Needs Assessment in 2003 showed that the service delivery skills of most Nigerian health care workers were poor. In terms of professional conduct and attitudes, many Nigerians, particularly the poor, vulnerable and rural dwellers face a lot of humiliation from unethical practices of health workers who exploit them financially, and abose them verbally and psychologically. In a recent national study, community-based respondents reported that the behaviour of health workers was a major factor that discouraged them from using modern health facilities even for emergency obsteric conditions (FMO) hand UNFPA, 2003). This is supported by a study by Osubor, Fantsi and Chiwazae (2006) which found that only 15.7% of respondents preferred to use government facility as opposed to 37.3% and 25.5% who preferred private facility and TBA, respectively. The public of staff at work, poor quality of service and high cost, were the major transparativen for the low partonage (if the 13 women who died in the Ozumba and Nwogu-Bolo study (2008), 23.4%, and 4.3% experienced substandard care from general practitioners and midwives respectively.

Re who of a household survey which a sessed community satisfaction with the quality of material and shild health a recommunity satisfaction with the quality of material and shild health are seen in south astern. No createstath that must never a tested that must never a tested with the concentration. As Const childboth services to be tweed within the concentration. As Const childboth services to be tweed within the concentration of drug was a fearly and would prove that the concentration and would prove the concentration.

2004). However, long waiting queues, providers behaviours and lack of doctors militated against the utilization of those services.

Perceived need for antenntal care

Pregnancy is a natural process and women with some experience might consider ANC less necessary. However, 12000) reported that a higher number of previous pregnancies is associated with less use of ANC and Magadi et al. (2000), reported a negative correlation between parity and early attendance to ANC. However, some other report had found that complications experienced during earlier pregnancies have a positive effect on early attendance to ANC. This suggests that knowledge of possible complications makes women more aware of the need for ANC.

Other personal characteristics

Religion and ethnicity have also been attributed to have in influence on the animale of women towards pregnancy and modern health care and can thus have in effect on ANC use Adda (2000) reported a positive association between being Catholic and the use of ANC in Chana and a regarive with having a traditional religion, while ethnicity showed no significant effect. In this juin, a negative circuit of being Muslim on ANC use was reported in Thailand (Overbosch, Naowah-Nuamah, van den Boom and Dammyan, 2004).

Factors influencing restational are at reporting

Several studies have also demonstrated that many factors influenced pregnant women's posterional age at first reporting. A survey of information on personal data, index pregnancy, reasons for booking at a particular gestational age, past obstetric and medical houses of 205 pregnant women attending the antenatal booking clinic at a tertiary bospital, southwest bigeria, found that the mean gestational age at booking was 21,82 s.7.0 weeks. Only 14.3% of clients booked before the 14th week. The sections given for early booking among alson were the personnel benefits of such practice (41,4%), physician's recommendation (34,5%) and recommend of complication is previous pregnancy (24,1%).

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4.9

difference in the age parity and level at education, occur class previous focult loss, and previous objectite complications between the two groups. Seventy-nine percent of stud population because the for care. The mean gestational age at booking was -3 1 11 1 we have the tange of 6 39 weeks. Only about a lifth (20 1%) booked in the first transester 44.9% in the second and 35.0% in the third transecter (Ebeighe and 1200151 The only factors found to senificantly favour early booking were illness in the index pregnancy and multiparity (Okunlola et al. 2006). Are and education were significant factors related to practice in Adrove, et al study This finding regards the said by Charcoro and Ighele (2000) which found that the number mothers opening declined with increasing parity. In their study, late booking was a result of ignorance and financial constaints rather than pently

In a community-hazed survey in rural westerentianya, where 9 out of 10 women reported at least one ANC visit during their last pregnancy, two-thirds of these women began attending ANC in the third trimester A perceived lack of quality in the ANC was associated with a late first ANC visitin the study (van Fijk et al., 2006)

The value of formal education on ANC attendance was revealed in several studies Findings of a prospective study in Guinea Equatorial using 200 participants showed that more women who had formal education tended to attend ANC clinic earlier and ware more tikely to tolk w instructions given by the attending doctor or midwife (Jamob. 2003). From the study, hospital workers (50.71%), husbands (14.73%) and puremy (13.9%) and a tot of influence on ANC attendance whilst farming square CLE-97% L. Lake delivery and treatment (13.05%), conveniences (10.93%), reduction in number of amenatal visits (9.73%) were the factors that monthly influenced the time of requirement for ANC care. Poor obstetric lossory, previous obstetric complications and advice by the ANC staff made more bromen to book early, while enhanced in the member of visits, traditional practice and distance were responsible factors for regularization in the shied telementer, Mont of the women (93%) believed that they destined benefits from the ANC rendered and 70% of them considered the ANC services. self-med at passignable. They was correlessated by the findings of latter study be the same method which sharmed that the higher the horizon who selection a wavenumbed, the last than their that were to brook here so progressing. A sentencing in study on mandesons, Nigoria wheat, AFRICA DIGITAL HEALTH REPOSITORY PROJECT

Sevents two percess of cases gave no specific reason for choosing the time of antenatal booking (Lannina, 2004).

In urban Riyadh, Saudi Arabia, women were found to report early for ANC. The average gestational age at booking was 13 weeks: the number of antenatal visits during the current pregnancy was six and a high (97%) level of awareness of the importance of ANC visits was observed. Various demographic characteristics were found to relate with pattern of ANC uptake among the study population. Level of education of both husband and wife and poor obstetric history significantly affected gestational age at booking, while the family income and gestational age at booking affected the number of antenatal visits. The respondents' most striking reason for non-compliance was related to accessibility to health centre. Twenty three percent thought that the health centres were far away from their residence and they needed to involve the husbands in driving them to health centres (al-Shainman, Khoja and Jarallah, 1994).

Most pertinent studies on the risk profile of women booking late or not booking at all to ANC have shown that the most common barriers to attendance at ANC in modern Western society are lack of insurance low income, low educational level, low social class, unmarried states ethnic origin of the woman, difficulties in obtaining appointments and long distances (Rapukainen, Heiskaiten, and Heinonen, 2007).

Improving utilization of autenatal cure services

mon women of child-bearing ge but positive observe health seeking behaviour does in afficiantly affect the outcome of pregnancy. The following have been found to improve cees ability of in term I he lith services in both tural and arban communities.

Women empowerment/education: Measures that promote education and economic empowerment of women and the utilization of modern ANC were likely to reduce the presidence of maternal deaths and community (Pheighe, final and Anche 2005). Therabe and lightness (2005) suggested that community based health education.

programmes on the importance of early presentation for ANC needed to be put in place to address the anomaly of late utilization of ANC in Nigeria.

Availability of resources: According to Anand and Barnighausen (2004), investing in human resources for health must be considered as part of a strategy to nchieve the MDCs of improving maternal health and reducing child mortality. In their cross-country regression analyses, they demonstrated that the density of human resources for health is not only significant in accounting for numernal mortality rates but also for inlant and under-five mortality rates. Uzochukwu et al., (2004) noted that Barnaku initiative programme improved availability and physical appearance of the health centres thereby leading to high levels of consumer satisfaction and people's willingness and ability to pay for PHC services. It was therefore suggested that continuous improvement of services, especially constant drug availability should be maintained in order to motivate people to pay for services.

The role of nien in maternal health; Men as the heads of households and major maternal and sexual health decision-makers occupy a strategic place in reproductive health of women. Consequently, men's social and financial supports for women during pregnancy and childhirth have prolound and positive impact on maternal outcomes. The changes needed to men's roles have been shown to be within the context of changes in the culture, religion gender and societal norms relating to women's health. Provision for the expectant fathers to anend maternity care notivities will improve antennal services uptake (Charoro and Igbafe, 2000)

been found to be useful in improving uptake of healthcare services by women, for in time measures to avert industrial ations by health workers are could improve quality of care that women receive. The training licensing, accreditation, and continuum medical education for all health providers could be legislated and periodically reviewed. One finds the information and environment that encourage responsive legislation requires the discrimation of information on maternal health to patient, continuates legislation in legislation, investigator, and the general public from time to time by a lattern on compating free education for all including series, and on the minimum.

Africa Pictal, Health Repository Project) and 18 years of age with a

long way in reducing the major determinants of poor maternal health. The provision of free maternity care for all women and liberal maternity leave for pregnant women bould be a complimentary strategy for reducing maternal mortality and morbidity.

Conceptual framework

Analysis of this study was based on the concept of the Health Belief Model (HBM) to aid understanding of major issues regarding ANC utilization among women of child-bearing age

The Health Belief Madel

Propounded by Kurt Lewin and further developed by Rosenstock in the 1950s, the HBM attempts to explain preventive health behaviours particularly in relation to utilization of health services such as a screening programme like antennatal care (Ross and Mico. 1980). It addresses an individual's perceptions of the threat posed by a health problem (susceptibility, severity), the benefits of avoiding the threat, and factors influencing the decision to act (barriers, cues to action, and self-efficacy). Simply put, the authors adduced that people's beliefs about whether or not they were susceptible to disease, and their perceptions of the benefits of trying to avoid it, influenced their readiness to act

Constructs of the model

Six main con true: influence people's decisions about whether to take action an prevent screen for and control illness. In order words, people are ready to act if they

- . Believe the are susceptible to the condition (perceived susceptibility)
- . Believe the condition lus serious consequences (bereeived seventy)
- severity (perceived benefit)
- . (delieve co is of taking action (perceived harmers) are outweethed by the
- Are exposed to factors that prompt action (e.g., a television ad or a terninder from one's physician to get service) (one to action)
- Are confident in their hills in the solubly perform at a time (all efficies)

 It is important to make that personal anaceptibility to a discuss condition as well as

 Personal actions in the discuss that them for at the personal actions and the discuss that them for at the personal actions and the discuss that them for at the personal actions are personal actions.

tetors which includes the demographic social psychological and structural variables. The modifying factor impinge on the level of knowledge and also account or about them to take resonanceded action. Modifying factor enable the individual to evaluate the outcome expected in relation to the constraints. Where the benefit of the individual is evaluated that outcome expected in relation to the constraints. Where the benefit of the individual is evaluated that the constraints in the finding.

Antenatal care as a preventive/screening programma s tent identificing programma settent identification identificing programma settent identificing program high and for programmer and delicery a undicatore on the car the cold by the there is no fed sick, they may not much be early to be a differ of instruction to return for any rollow up. The Beatth care the horaviol. reposition where and voc programme're historical in man, a vice in a the HBM, it schings where people believe that the dancy is its an innest. The inmay not adequately inflize amountal services of lonow a specified pateers of visit the shood of taking action) unless they perchant themselves as prone to developing of the transplant of this state with the compatibility of the ment that complications can led to detained such as a small dish the property of the last of the last of the party of the transmit in antena de la la companya de la companya and make and any man of the Leville and the training the training of the content of properties. Table to the second of the sec definition operated that the Advise Mean State and State Same Same to when the limitary header care grandlers a term of which has no factor, happen THE RESIDENCE AND ADDRESS OF THE PARTY OF TH and the state of t

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CANDONISM TO A STREET TO

It is also important to note that women may have a high perception about the benefits of ANC and are equally willing to take action but such factors as high cost of services, long trekking distances, no transportation, poor quality of ANC services, long waiting time, etc. may hinder the likelihood of taking action.

Lig. 2.2. The Health Belief Model and Factors Associated with Late Reporting for Antenagal Cure

PHASE I

Modifying factors

- Demagraphic variables Age, marital status educational level place of residence (urhan/rural) religion tribe occupation
- Sociopsychological variables: Social class, peer and reference groups personality etc.
- Structural variables. knowledge about physiology of pregnancy and possible autcomes, knowledge of ANC, and prior contact with persons who utilised ANC.
- Perceived benefits of ANC:

 Regular checks by healthcare

 professionals, positive

 outcome of pregnantly etc
- Perceived constroints Cost.

 long distants no transportation, poor quality of ANC services, long waiting hours.

PHASE II

- Perceived susceptibility: lielief that she is intherable to inegrancy related complications, helief that pregnancy may mobile some risks
- Perceived severity: Feeling that pregnancy related conditions has utilestrable effect which could be either short or long listing

Perceived threat:

poor pregnancy
outcome or
pregnancy related

PHASE III

Likelihood of taking recommended action

- Availability of ANC services. Iree/subsidised services
- · Accessibility of services
- Friendly providers behaviour

Cues to action

- Advice from significant others healthcare provider, friends or neighbours
- Mass media campaigns eg radio and TV programmes
- · Pusters, billboards, bandbills etc.

CHAPTER THREE

METHODOLOGY

the chapter begins with the design, scope of the tudy, and description of the study are a tudy population and maly variables. It also describes the methods and in truments of data collection and data analysis, the validity and reliability of research instruments and efficial considerations.

Study design

A rew-sectional descriptive study de ign was used to document factors associated with late reporting for antenatal care antong women of child-bearing age in Udi I GA of I nugu State. Nigeria.

Description of the study area

India State is an inland state in the southeastern part of Nigeria. It was carved out of the old Atlanthra State on 27th August, 1997. With its e-pital at Linigu, it lies between longitude 6-30. North and latitude 7-30. Fast, and covers a land area of approximately 8.727.1 square kilontetres. The state shares borders with Abia and Into States to the South, Ebouyi State to the East, Benue State to the Northeast. Kogi State to the northwest and Augustia State to the West. Its population of about 5.6 million people is spread across the seventeen LGAs. The people belong largely to the Igbo ethnic group, which is one of the three largest ethnic groups in Nigeria.

the stildy was conducted in Udi LCAL one of the oldest and largest local council areas in Enaguestate. It is a mind LGA with its headquarters in Udic a town from which it derived its name. Although all its towns and villages are closely linked by network of routis, most are not tarred and have very difficult terrains. According to the recent population census, there are about 254,002 people living in Udi LGA (NPC, 2006). Agricultural and commercial activities are the main stay of the people's economy with palm wine tapping and animal rearing being the most popular. Nevertheless, it good number of them are involved in civil service and other government parastatals. The political activities

eomer, where up to four bottline companies including the Nigeria Breweries I mited (NBI) that is the Ama Greenfield, the Nigerian Bottline Company (NBC), the 7-Up Buttline Company and more recently, the Aqua Rapha industries, have their plants alost of the commercial activities take place here, and because of its trategie location it is a stop-joint for any t commuter to and from the northern parts of the country.

theathh services in Udi LGA, like other parts of Enugu state are delivered by both private and public sectors facilities. The private sector includes for-profit and non-profit methics and lew number of faith-based health facilities. Public sector services are provided mainly through the District Health System (DHS) francework (Enugu State Ministry of Health (SMOH), 2008) similar to those obtaines at other parts of the state. Under the framework, the public health service has five uers comprising health posts at the base, health clinics, health centres cottage hospitals, and district hospitals at the upex. Health posts, health clinics, and health centres deliver primary health care services. Cottage hospitals provide limited secondary care services, and the district hospital provides secondary care and finiteions as a referral centre.

Udi I GA and its neighbouring counterpart lizeagu make up one DHS - the Udvl zeagu DHS. This is further divided into Udi and Ezeagu Local Health Authornes (LHAs). In Udi LHA there are about exents eight health facilities—one district hospital. 15 health centres, health clinics and health posts, and 12 private health facilities. Tradmonal birth attendants and patent medicine vendors are also in full operation in the communities.

Population of Study

The population for this study comprised aggregate of women of child-bearing age (15, 39 years) in Udi I GA. Those of them currently resident in the area during the period of study formed the target population and it was to this number that references were made. According to the National Population Commission (2006) I di I GA has a total fentale population of about 118,423. Since by proportion, forty-five percent of all temples is said to be within the reproductive age group in Nigeria, it follows therefore that the population for this study was taken as 53,241 women.

Inclusion Criteria

Tho e who took part in the study were those women who were within their reproductive years who registered for ANC during their periods of pregnuncy and delivered of a life baby in the two years preceding the survey. Each must have been a regular resident of the area for the same length of time and must have given her consent to be a part of the sludy.

rea in 1 il o whose habies died at birth or within the two years duration were excluded

Sample Size determination

The Sample size was determined electronically using the FPI INFO Stat Cale programme for population survey or descriptive study using the simple random sampling (Dean, Dean, Coulombier, Brendel, Smith, Burton, Dicke, Sullivan, Fagan, and Amer, 1995). The target population earlier derived from the total female population of the LGA was used for the estimation of the numinium sample size. This method was used in a similar study conducted in southwest Nigeria by Bawa et al (2001). The formula was applied as follows

Total female population	118,423
Women of child-bearing age (calculated)	53.291
Desired precision	5%
Expected prevalence	58.89.
Desired effect	1.0
Confidence level	95%
Sumpling size	370

This number was rounded to 450 in order to give room for unrition, non-responses and high validity

Sampling technique

a two-stage roudom sampling technique was used to draw respondents as follows

Stage I stuple random sampling technique with paper halloting was first used to select three out of twelve towns in Udi LOA Ngwo. Udi and Umuabi were selected

Stage 2° stratified random sampling with proportionate allocation was used to select tespondents from each of the selected towns.

The 1996 projected female population for the selected towns was used as a gaine to proportionately draw respondents from each of the communities. This estimate was used because the breakdown of the 2006 house and population census figures for Nigerta is yet to be released for public use by the tederal government as at the time of this study. The distribution of participants by locality is shown on the table below.

Table 3.1: Distribution of respondents by locality

	Town	Number	υſ	l'opulation of	Number of
		females*		women of child- hearing age	respondents selected
	Nguo	14.646		6,591	308
	Umuabi	3,441		1,548	75
	Udi	2,527		1 137	57
	Tutal	20.614		5,276	450
_					

Projected female population for 1996 (NPC, 2006).

In each community, every household in which a woman delivered a live baby in the last two years was entered until the number of respondents for the community was completed. Where there was more than one eligible participant in one household, recruitment was done by balloting.

Instruments for data collection

Qualitative and quantitative methods were used for data collection.

Qualitative method

locus group discussions (IGDs) and key informant interviews (RIIs) were used to collect data for the qualitative aspect of the study. They were used as diagnostic tools to initially explore the topic. The data so generated were subsequently used to design the instrument that was used for the survey. The FOD guide comprised eight tiems which focused on mother's knowledge and opinion about untential services in their communities, their attitude toward the use of the services and their current antenntal communities, their attitude toward the use of the services and their current antenntal corresponds to the practices. It also clicited responds on women perceived benefits at our during corresponds.

preprinted, reasons for early late reporting for care during pregnancy and perceived consquence of these on omeomes of pregnancy. The table below shows the summary of the IGDs conducted in each study site.

Table 3.2: Summary uf I Cibs conducted

Conununity	(15-25) years	(26 -49) years	Total
Ngwo	1	1	2
Udi	1	1	2
Umunbi	1	1	2
Tutal	3	3	0

The KII guide was designed to collect data from different energories of heathcare providers who work at various levels of ears in the communities, medical practitioners, nurses, midwives, community health extension workers (C(IEWs), and traditional birth unendants (IBAs). With a total of 10 items, the guide was designed to generate responses regarding the antenatal care practices of women in different communities, factors associated with time of their reporting to health facilities and the implications of these to obstetric/maternity care Data that were gathered through this method were also used to develop the questionnaire

Quantitative method

An interviewer-administered, semi-attuctured questionnaire was used for the survey. Data generated with the EGD and the KII were used to improve its design. There were a road of thirty-five questions which were grouped under seven sections to cover the demographic variables of the respondents and the specific objectives of the study. The first section generated information on the demographic variables of the respondents the second section gathered information about the antennal core practices of respondents in the last pregnancy the third section explored on their knowledge and opinion about the antennal services in their communities while the fourth section accessed information regarding the attitude of women to use of autennal services, the fifth section accessed information about factures that hindered early reporting for care. The sixth and seventh sections sought the respondents' perceived consequences of fate reporting for care and the suggested ways of imbroving on time of banking respectively.

Instrument validity

Several steps were taken to ensure high validity and reliability of all the instruments used for data collection. First, each of them was individually subjected to face validation by colleagues. The supervisor critically examined them and made necessary corrections. They were intersubjected to expert opinions by specialists in obstetric care projects. Next, the instruments were translated from English language to Igho language—the local language of the respondents (see Appendices 2, 4 and 6). Each one of them was limitly pre tested among groups with similar characteristics of interest in a different, but nearby location. Akama-Oghe, a town in Ezeagu LGA that shares a common boundary with the study site, was chosen and used for the purpose.

Instrument relinbility

Prior the pre testing exercise, recruitment and training of research assistants were carried out to ensure clarity, understanding and consistency in interpretation of the variable items. The training focused on the objectives and importance of the study, sampling process, how to secure respondents informed consent, basic interviewing skills and how to review questionnaires to ensure completeness. The research assistants were involved in the pre-testing of the questionnaires in order to create opportunity for them to acquire practical interviewing skills.

The Internal consistency of the questionnaire was further rested with Cronbach's alpha coefficient analysis. This is a model of internal consistency, based on the average internetic correlation. When results show correlation coefficient greater than 0.05 they are said to be reliable. A correlation coefficient result of 0.67 was obtained. A high degree of reliability against a scale of 0.05 to 1 was therefore confirmed.

Pre testing of instruments

Fucus group discussion. The research ream (made up of a moderator, a recorder/note taker and an observer), led by the researcher find an advocacy visit to the community leader of Akama-()ghe to intimate him with the intention of the researcher and to obtain permission to enter into his community. Two women leaders were assigned to assist the team. They acted as both community guides and contact persons between the team and the women groups in the community. Through their assistance a meeting was team and the women groups in the community.

the study and the nature of the IGD formed the topics of the discussion. A convenient date, time and venue for the interaction were agreed upon

I wo I GDs were conducted, one for each of the groups of respondents. The first group was made up of six discussants in the age heacket of 15-24 years. Interaction with this batch lasted for about 35 minutes. The second group of 8 discussants aged between 25-49 years interacted for about 40 minutes. The vernacular version (see appendix IV) of the guide was used for the two groups and the investigator moderated both sessions. Their demographic data were collected at the end of each session.

Key informant interview: Four healthcare providers working in four different health facilities in the community were visited and interviewed. They included one medical officer in a mission hospital, one senior CHEW in a public health centre, two junior CHEWs in their private delivery homes. These homes are popularly known as 'maternities' in the area. The criteria for selecting these facilities were based on the length of service in the area and they were the most frequently purronised facilities in the community as mentioned by discussions during the FGD. While the two 'maternities' had been in existence for 14 and 24 years, the public facility and mission hospital have been running for 2 and 7 years respectively. All the interviewees reacted to all ten questions with ease and did not complain about the duration of time

Questionnaire: Data generated with the reviewed versions of the FGD and KI) guides were used to design the questionnaire used for the survey. Since it was to be interviewer, administered five rescueh assistants were recruited and trained, to acquaint them with the instrument for ease and uniformity in item decoding and administration to the respondents. A total of forty-five questionnaires (that is, 10% of the sample) were administered and collected over a two-day period. There was a 100% teturn rate. A post field meeting was held by the team and the researcher in order to share experiences and ideas that helped in the final designing of the instrument. The following were the observations and cumments made at the end of the pre testing exercise.

Almost all respondents were willing to take part in the study. None of them say any of the que tions as intruding manipul ting or difficult to inswer

- Beautse respondents were interviewed in their homes or stalls, the problem of interrupting their work schedule was brought to the baresi minimum.
- Response items that tested on knowledge and attitude in sections 2 and 3 respectively largely influenced those that test on practice in section 4. A rearrangement of the items that brought the questions forward was done
- In section 3, eleven out of seventeen item statements that tested on attitude were all on general use of ANC. Since the key variables of the study bordered on attitude to early and late reporting, six statements were considered too few to test on them. Thus relevant tiem statements that spread across general, early and late reporting for care during pregnancy were added in the following order general statements on ANC (5 statements), early reporting (6 statements). Tale reporting (6 statements). Negative and positive item statements were distributed evenly.
 - v. Questions 19 and 30 were similar. Since there was no question item that elicited response on time considered to be late reporting, item 30 was changed to become what time naive a pregnum woman be said to have booked late? In question 33, items 2 and 12 were similar thus item was deleted
- Questions 18 and 21 were refranted to read do the inspirity of pregnant women in this community keep their appointments regularly? And are pregnant women supposed to keep their appointments regularly? 1) Yes 2) no 3) I don't know
- vii Screening respondents before administering the questionnaire was very important to avoid wasting time and material. The date of list confinement was inquired at the beginning before recruiting the respondent
- minutes

Data collection procedure

The process of data collection began with an advocacy visit to the I GA chairman, the leaders of each selected community, and the heads of the health institutions that were interviewed. The data collection exercise was conducted in three phases. First, all six interviewed. The data collection exercise was conducted in three phases. First, all six interviewed among the re-pondents, the KIIs were administrated on the

healthcare providers and finally the questionnaires were administered again on the respondents

In each selected community, two different groups of women interacted among themselves with the investigator moderating all the sessions, a trained note taker taking all proceedings and the observer noting other unprecedented happenings. All interactive sessions were recorded on tapes and were laier transcribed by the note taker and the investigator. The criteria used for selecting key informants were health facilities most frequently patronised in the community as mentioned by the discussants during the interactive phase, and the health care provider must have worked in the community for at least a period of twelve months. In Ngvvo community, two medical practitioners and a registered midwife, all in private health facilities were interviewed In 1 di community, a registered nurse midwife in a public health facility, a junior Chew, in a health centre and a local birth attendant in a mission health facility were interviewed. A inedical practitioner in a private hospital, a registered ourse nudwife also in a private facility and a juntor CHEW in a public health centre were interviewed in Umuabi continunity. All informants were interviewed in their facilities. The average nine taken for each interview was 15 minutes

The validated, semi-structured questionnaires were administered with the help of filteen research assistants made up of four males and eleven temales, who were earlier trained for the purpose differed for selecting assistants were strongly based on level of education, previous expense in data collection exercise, knowledge about the terrain of the communities ability to understand. Beak and interpret the questions and responses in the local thaletis as well as translate and write responses back and forth Inglish and Igbo languages. Virtually all the males had had previous experience in data collection A until of 450 questionnaires were administered to eligible respondents over a six-day period. There was a hundred percent return rate. The average time taken to complete each questionnaire was 24.7 10.6 minutes with a maximum time of 60 initiates. Data collection exercise was completed over a period of a weeks

Data management and analysis

The data colleged with the 1617 and the Kill gride were transcribed from the types and important themes cenerated were analyzed unneithe themsitie approvade Data from AFRICA DIGITAL HEALTH REPOSITORY PROJECT

coding guide was developed to facilitate data entry. Another coding guide was also developed for open-ended responses at the end of data collection. Each questionnaire was coded and entered into a computer through the Statistical Package for Social Sciences (SPSS) version 16 software and analyzed. The data collected were subjected to descriptive (means and standard deviations) and integential (Chi-square) statistics. Finally, information obtained were summarized and presented in tables for better understanding.

Name them to mention different facilities where ANC could be obtained by pregnant women, their perceived contents of the package, and the benefits of such care to the community. Knowledge about existing facilities, contents and benefits were each rured on a 4.9 and 12 points scale respectively. Their total knowledge was later measured on a 25 point scale and the mean knowledge score statistically determined.

Libical considerations

Approval to conduct the study was sought with a fener of introduction from the baculty of Public Health to the local provention chairman, supervisory councillor for health, heads of each of the healthcare facility and the local heads of each of the communities. The heads of each household were also approached for similar approval. Details of the purpose and objectives of the study were clearly explained to the feathern detail language and translated versions of the appropriate instruments were used to collect data informed verbal consent was obtained after accertaining that the individual respondents fully understood the implications of being a part of the trady. They also understood that they had the choice to withdraw at any near they gave. This was also stressed during the training of the research responses they gave. This was also stressed during the training of the research maintaints. Some of the questionnaire could be traced to any respondent as only eastern mathers were used to identify them, I very form of identifier was eliminated including numbers were used to identify them. I very form of identifier was eliminated including numbers were used to identify them. I very form of identifier was eliminated including numbers and house number. At the end of the exercise all data collected were nearly packed in a safe.

Limitations of the study

this study had three limitations. First, the researcher had to rely on the respondents self-reported accounts of ANC intendance pattern and their opinions about the ANC facilities in their various communities imprecise estimates of gestational ages at booking and number of ANC visits could occur due to potential recall bias. These reports could not be verified. There was no way of ascentining if the respondents' claims were true or false. Secondly, the respondents' power of recult of events which took place during the pregnancy period could be affected by length of time between the last confinement and the time of interview Individuals do not have the same rate of recall However, people tend to remember joy ful and interesting events such as childbirth more than the sorrowful ones hence only those who had delivered of life babies were recruited for the study. Thirdly, variables like beliefs, feelings and perceptions are cognitive processes that may not be accurately measured with the data collecting instruments used for this study. These variables have other competing interests Applying, as much as possible, the local language of the participants and explaining to them the benefits of the research helped munimize confounders Lastly, some respondents seemed to be biased in their opinions about the ANC facilities in their communities. Some left that the interview exercise was an opportunity for them to rate the ANC services in their respective communities while some gave their opinions with respect to the facilities they used in the last pregnancy penod. This resulted in the high values obtained in the analysis of apinion of respondents regarding the facilities in thenr communities though quite some time to convince some respondents that the exercise was only for ucademic purpose. Despite the faci that the researcher applied a high level of pandomization in the sampling procedures, three communities in an I GA were mall represention of I nugu state

CHAPTER FOUR

RESULTS

The results of the study are presented in this chapter. Distribution tables and graphs are used to present neighbor of the survey. Where necessary, the results from the qualitative methods (FGDs and KH1) are presented in nurratives to lend support to the results of the survey. Relevant statistical tests are used to test the hypotheses of the study on knowledge autmide and practice of antennal core among the study population.

Dentographic Characteristics of the respondents

The demographic characteristics of respondents presented on Table 4.1 below show that respondents were between ages 15 to 49 years with a mean age of 2.7 as 1 years. More than three quarters (76.0%) were in age group 25-49 years. Virtually all the subjects (96.4%) were married, 98.7% were Christians and 97.1% of lights edinicity. Among the married respondents 60.9% had had had had never restrict and 0.0% in religible works serving as elergies. Respondents had between 1 and 8 children with an average of 3 children. Almost all the respondents had formal education. Staty-one percent had secondars, 20.7% had tentary and 15.3% had primary education. Only 0.9% did not have the formal elegibles.

Table 4.1. Demographic characteristics of respondents

N = 450

	No	Percent (%)
Age Group (in years)*		
2549	342	76.0
15-24	108	2-1.0
Marital status		
Married	434	96.4
Single	9	20
Widowed	4	09
Divorced	3	07
Lthnic Group		
lgbo	437	97.1
Hausa	3	0.7
Yoruba	6	1.3
Others**	1	0.9
	- 1	
Religion		
Christianity	444	98.7
Islam	6	13
Educational level		
No formal education	4	0.9
Pomary	50	153
Secondary	284	63-1
Teman	93	20.7
Occupation		
Empleyed	367	67.1
Unemployed	112	24.9
Students	33	7.3
Clerry	3	0.7
Husbands' occupation		400 (0
Sell employed	274	60.9
Civil/public servants	160	35.6
Clarey	1	0.9
Not upplicable	12	20
Sumber of children ***		26.2
		28 2
2	116	25.8 16.0
2	207	Other etlinic gro

2 •• Other ethnie groups include I do. I fik, et

^{*}Mean age 27 7 5 1 years 26:15

Knowledge and opinion about ANC services in the community

Results of this objective are presented in tables 4.2 to 4.4.

Knowledge about ANC services

Almost all the respondent (98.9%) were aware of the meaning of ANC and where the services could be obtained Each of them could mention at least one such facility in their areas (summary on table 4.4). Government health institutions were popular among 4.4.3% of the respondents while TBAs' homes were continuou to almost one-lifth (19.9%) of the respondents. Nurses and doctors were the most perceived direct eare providers in private facilities (37.5%) and nurses by apprentice (11.2%) were the perceived popular care givers in 1.BA homes (see details on table 4.2).

A large proportion of respondents appeared conversant with the contents of ANC packages in their communities as nearly all of them could list an average of 7 contents (see table 4.4). The fullowing were the list of contents mentioned by respondents in order of frequency, health infinimation popularly called health talks (13.2%) often begins each clinic session, advice and counselling services (11.6%), pre and positival exercises often part of the demonstration activities (10.8%), weight taking (10.6%) and blood pressure cheeks (9.0%). Other services that were mentioned included urine testing (8.7%) tron drug supplements (hearnatenies) (8.6%) various blood tests (7.4%), foctal growth auditioning often assessed in form of abdominal palpation (7.1%), tetanus toxold minimization (5.1%) and treatment of complications (5.0%) Intermittent precentive treatment (11.11 against malaria as part of ANC packages was mentioned by increty a proportion of 2.8% of the respondents.

Table 4.2. Perceived knowledge of respondents about NSC facilities and facility personnel in the community

	No.	l'ercent ("")
Type of facility		
Private	384	44.3
Public	303	34.9
TBAs	173	199
Prayer houses	8	0.9
Total	RGR	0.001
Personnel in:		
Covernment facilities		
Nurses and doctors	249	287
Nursesonty	34	6.1
Private facilities		
Nurses and doctors	326	37.5
Nurse only	58	6.7
TRAS		
Nurses by apprentice	97	11.2
Nurses only	47	5.4
1 med person	25	2.9
Nurse and discions	4	0.5
Prayer houses		
Name by apprentice	9	1.0
Total	869	100.0

multiple responses

Knowledge about the benefits of antenatal services to the community

It was observed that the bemalts of ANC to pregnant women in the community were not so popular among the tudy population. Respondent could list an average of 4 and not so popular among the tudy population. Respondent could list an average of 4 and not so popular among the tudy population. Respondent could list an average of 4 and not so popular among the population of that abdumned a apparent of 9 benefits (see table 4.5). I wenty percent thought that abdumned a apparent of 9 benefits (see table 4.5). I wenty percent thought that abdumned a apparent of 9 benefits (see table 4.5). I wenty percent thought that abdumned a apparent of 9 benefits (see table 4.5). I wenty percent thought that abdumned a apparent of 9 benefits (see table 4.5). I wenty percent thought that abdumned a apparent of 9 benefits (see table 4.5). I wenty percent thought that abdumned a apparent of 9 benefits (see table 4.5). I wenty percent thought that abdumned a apparent of 9 benefits (see table 4.5). I wenty percent thought that abdumned a apparent of 9 benefits (see table 4.5). I wenty percent thought that abdumned a apparent of 9 benefits (see table 4.5). I wenty percent thought that abdumned a apparent of 9 benefits (see table 4.5). I wenty percent thought that abdumned a table of 9 benefits (see table 4.5). I wenty percent thought that abdumned a table of 9 benefits (see table 4.5). I wenty percent thought that abdumned a table of 9 benefits (see table 4.5). I wenty percent thought that abdumned a table of 9 benefits (see table 4.5).

13 6% stated that the health conditions of both the mother and the unborn child are continuously monitored throughout the period of pregnancy, 11 1% said that treatment complications could be treated etc.

Respondents were also assessed on the time they considered early or late initiation of care in pregnancy. Majority (74.7%) thought that booking within the first trimester was early practice. 23.1% thought it was 4-8 months, and 0.2% considered that 7-9 months was late while 2.0% did not know. Concerning late booking, only 2.0% of respondents stated that thi thinning ANC even after two months was already late. 27.8% thought the second trimester was late, while the greatest percentage of them (68.0%) thought the last trimester was late. However, 2.2% claimed they did not know which time was considered late relociting.

Table 4.3. Perceived knowledge of respondents about henefits of ANC facilities to pregnant women in the community

Renefits	No.	Percent (%)
Helps to know position of baby	408	20.2
Munitoring and assessing of mother and baby 's condition	275	13.6
realment of complications	224	11,1
Ofters opportunity for odequate care	213	10.6
Gets health education	210	10.4
Delivery is planned before time	192	9.5
Detection of hilden complications	166	8.3
Inimunization against some infections	166	83
	162	8.0
Counselling and advice	2816	109.0
l'atal		

[•]multiple responses

Table 4.4. Overall knowledge of respondents about antenatul services in the community

	N	Tutul score ohtamahle	Menn	S.D
Encilities in the community	450	4	1.0	0.8
Knowledge score about content of ANC programme in the community	450	9	6.7	2.2
Knowledge score about benefits of ANC in the community	450	12	-15	21.7
Fotal knowledge of antenatal services by individual respondents	450	25	11(2)	3.6

Data in table 4.4 were used to categorise respondents into three sub groups with those who scored 1.1-25 points as having good knowledge, those who scored 13 points as having average knowledge and those who scored less than 13 points as having poor knowledge. Outcome results showed that knowledge was good among 251 (55.8%), average among 45 (10.0%) and poor among 154 (34.2%) of respondents.

The knowledge grade of respondents were compared with age, number of children and respondents' fevel of education to observe the effects of their relationship. From table 3.5 below, age and level of education were found to be statistically agrificant to the knowledge of respondents about the ANC facilities in their communities. A greater proportion of respondents in age group 25-49 years (57.9%) had good knowledge compared to those in age group 15-24 years (df-2, p=0.03) regarding the level of education of respondents, most respondents with terraity education had good knowledge about ANC in the community than all others (df-4, p=0.01) however, no lightly and association was found between the parity of respondents and the knowledge (df-4, p=0.05).

Table 4. 5. Relationship between age, parity, and level of education of participants and knowledge about ANC in the community

	Knowledge ea	tegory of resp	ondent				
Age group	Good	Average	Poor	Total	X ²	Pvalue	Df
15-24 years	52 (48 1%)	18 (16 7%)	38 (35.2%	108			
25-49 years	[98(57 de o)	28 (8.2%)	116 (33 9%)	342	7.2	0.03	2
Number of							
pregnancies							
1.	63 (40.6%)	18 (14.294)	·16 (36 2° o)	127			
2	00 (51.7%)	8 (6.93%)	18 (41 4%)	116	0.2	0.06	4
>2	127 (61.4%)	20 (9.6%)	60 (29 0%)	207			
Level of							
education							
Primary	38 (55 1%)	4 (5.8%)	27 (39 1%)	69			
Secondary	146 (51 4%)	36 (12 7%)	102 (35 9%)	284	13.5	0.01	리
Tertiary	66 (71 ()%)	6 (6.5%)	21 (22 (1%)	93			

^{*}no formal education excluded Row percentages reported

Results from the FGD corroborate the above data from survey. Discussants in all three communities were awate of the meaning benefits, contents and the implications of antenatal care to the wellbeing of pregnant women and their infants. According to them antenatal care is all about someone taking care of a pregnant women and the baby is migord baby in her womb maintaring their conditions checking whether the baby is migord baby in her womb maintaring their conditions checking whether the baby is migord position, and weing that both are doing well. An older discussant in Ngwo community moted that such care is abtainable in an organized setting hence going for antenant noted that such care is abtainable in an organized setting hence going for antenant means a summan going to a minerally frame to check her body and how her buby is means a summan going to a minerally frame to check her body and how her buby is positioned in her womb. It was further emphasized that such care must be obtained in positioned in her womb. It was further emphasized that such care must be obtained in positioned in her womb.

Availability of ANC tradition in their communities was captured in a statement by one contributor who and that there are a wide range of facilities, private hospitals and materinias government hospitals primary health care centres and local traditional delivery homes known as traditional birth attendants (TB ts). Although these facilities exist in varying degree within the towns. New community appears to have the highest number of private hospital materiaties government health centres and few local delivery homes. Umuable community has only a government health centre serving the entire community and its environs. Others are private health facilities. The only general (district) hospital in the LGA is located in Udi town.

A sumble trend was observed with the results about the contents of ANC services. All the discussion knew about contents of antenntal programme. Health talks were unentioned thost frequently. One discussion in a group described in this manner, we re taught different things like baby batting proper dressing during programmy importance of all the routine infant and mothers immunications their timing types e.g. BCG different doses for each of them. Another woman natived first we providen we are advised on what to eat and how to correspond to the authority ourselves throughout the period of pregnancy. As part of the teaching, another discussion added we retainfly the kind of work we re suppose to do, the position we should be taking when we want to lie down to sleep

Describing the geograf and obstetric assessments that are usually done as part of antenatal services, discussing stated they examine our body very well, they check our BP (blood pressure) and take our weights. Another woman added that starses or doctors would check how the lights is positioned in your womb four people call it lights also (which means abdominal pulpation), whether the baby is in a normal or abnormal position. They examine if the baby is alive or dead. Mention was also made of the various laboratory investigations that are toutinely or specifically carried out as well as management and treatments that may follow findings. One discussion in one of the older groups said the woman's blood level would be monitored. If the is short of blood, the can be given some blood and may be follow her up with good their because her blood fixed must rise before the delivery. Other laboratory test meantured were urine blood fixed must rise before the delivery. Other laboratory test meantured were urine blood fixed must rise before the delivery. Other laboratory test meantured were urine blood fixed must rise before the delivery. Other laboratory test meantured were urine blood fixed must rise before the delivery of the cribe the pelvic assessments a stally carried out about the 36° week of pregnancy in older discussion and a at a cerum carried out about the 36° week of pregnancy in older discussion and a at a cerum

month the dector will extinone you to check if you can deliver the buby. If you can t. he will prepare you very well for an operation

Qualitative data responses from all the discussion groups continued that women had inlequate knowledge about benefits of ANC To them. it is impurtant for pregnant woman to get amenatal cure because by that the postman of the child in the womb is known the pregnant woman is assessed to know if she is healths and lit for delivery, she is also told the kind of food she is suppose to our so that her body out that of the boby in her wanth will be well invirished A young mother in Udi emphasized that now that different diseases are spreading such as HIV SIDS it is unportant that every pregnant women shanld go for laborators texts to screen for such diseases if she is detected to be positive, they will stort in time to prevent her transmitting it to the bub) In her worth And some women who suffer one illness or the other when they are pregnan remain under abservation to prevent death of their babies

A discussant among an older group in one of the communities emphasized that the benefits of obtaining care in pregnancy increased when wanten utilised multiple tucilities simultaneously in the same pregnancy According to her ottending antenatal in both the turner home and the doctors dine is good some women have nurrous belvis At a vertan menth the nurse will ask van in see a doctor. The doctor will check if you can deliver the baby normally if you can the will prepare you very well for operation When the time is the he can then upon up and bring out your haby both ul you will be in good conditions

in order of frequency. The under listed are the benefits as mentioned by the discussants:

- It helps in know the state and position of the boby in the worth
- The marker and baby a condition of health is constantly assessed and mountered
- . The mother gets indequate education in with e g un diet dressing etc.
- Counseling and advice on what in do and what not in do
- in hidden illness or abnormality is detected eg narrow pelvis
- Some preventive tremments are Riverre y nummineation against temms
- Helps women to plan lor delivery
- Sick mathers are often kept under elese observation

Similar results were generated from the key informants interview. All the health care personnel interviewed stated that a wide variety of services were offered to pregnant women in their faculties. The services included health information, general obstetric examinations, advice and counseling, routine specific laboratory investigations, prevention and for treatment of specific disease conditions, and referral of cases. Enumerating the packages of ANC programme in his facility, a medical practitioner said. He give them (the pregnant women) with palpute them check their bloud pressure theek their urbic haemoglobin we screen them for HII and it somebook is HIV positive we refer her to a higger centre where she'll he looked after we also give them innumeration () ne temple provider elaborated extensively suying. I check whether her blood is sufficient or not I pin her on scale that will tell me if the buby is intreasing or decreasing) theck her blood pressure to know whether her baby is normal Then if she binsked early I will be watching her tuking her letal abservation to know how the feels, whether she is feeling healthy or the has malnotrition. When f search for all these things and immediately see she has some problem I will keep on treating her and telling her what do gold what not to do so that she'll have a healthyhuby on the den she Il deliver

In Uch community while the more qualified personnel explained — we give health talks, conduct general examination, ust urine check blood pressure, test blood for HIV VDRI, the check for syphilis, genutype as well as blood group and rhesus factor, we also pulpate their obdomen to determine the he and position of the baby", the less qualified personnel said, when they came, we welcame them very well, make them feel at home and comfortable, then we examine them very well and take proper core of them and record all findings. We proy and sing with them, give them health talks on proper dressing, duet in pregnancy rest and sleep, breast care, personal hygiene type of slaves to wear they are in wear flat shoes) to avail falls, we do palpation, weighing and blood pressure checks, then tests like urine tests. It has thematolism and IIIV tests if we detect anything further tests can be dime. Contents of antennal services seemed the sante in Umuab; community as contained in a statement by one respondent, we make they came, we have good interdetions with them, give them antennal talks. When they came, we have good interdetions with them, give them antennal talks then they came, we have good interdetions with them, as a question and get answers for that is health talker, they tell us their problems, ask as questions and problems, we do blood them, we carry our investigations like urine tests (for sugar and problem), we do blood them, we carry our investigations like urine tests (for sugar and problem), we do blood them, we carry our investigations like urine tests (for sugar and problem), we do blood them, we carry our investigations like urine tests (for sugar and problem), we do blood them, we carry our investigations like urine tests (for sugar and problem).

texts take their weights, check bland pressure, palpute their abdomen to check the conditions of their babies

All the key informants believed that antenatal eare is of great benefit to the well being of the pregnant women and their babies. The most popular benefit mentioned by the informants was the screening benefit of antenatal care summarized in a statement by one interviewee in this way. Intenatal care is very very important. It is during antenatal that most things that happen to women during pre-grancy are detected. You can detect especially, a women with had obstatric history, in this era of fifth you can still detect it early enough and advise their un what to do, some women that are pourly led use detected, some that are dirty are also detected. Referring to the health information benefit of antenatal care, a lew informants said that the pregnant women learn a lot during untenatal Elaborating further, a medical practitioner described a typical antenatal day in his clinic this way; Once in a mouth, we organize a general antenatal clinic during which we teach them we educate them on what they should know that the pregnancy, about labour, about health generally. They gother in a large, number and we instruct them as been as we can

It was also noted that a pregnant woman who attends antenatal care stands the chance of receiving adequate eare and treatment by virtue of continuous monitoring of progress to which size is often subjected. According to a provider, unlended care is important because it is designed to take care of the woman's health physically and mentally to anticipate problems difficulties that may arise in labour to ensure the programmy is curried to term, and to ensure the birth of a living and healths baby. With regard to prompt management and referral, a junior health worker points out that, pregnant women are continuously mannated to direct some danger signs like protein and sugar in turne—the doctor will then be invited to take over the management of the case.

Opinion about the antenatal services they used to the last pregnancy

the opinion, of respondents regarding the antennal serves they used were obtained it was observed that opinions of respondents were involumble to most items rated it was observed that opinions of respondents were involumble to most items rated that the observed that opinions of the pondents were involumble to most items rated it was observed that opinions of the pondents were favourable to most items rated that the luminost were available they were available they have been appropriately eight percent of them affirmed that the luminost were available they have a propriately eight percent of them affirmed that the luminost were available they have a propriately eight percent of them.

provided quality services (90.2%), and number of facilities were sufficient for those who sought care (88.0%). On the contrary, nearly one-quarter of respondents (24.9%) thought that ANC services were not affordable by majority of women in their communities, and 21 % thought that the facilities were not close to the majority of the people However. O 9% of respondents reported they did not know if facilities for ANC were available in the community or not. Full responses are shown in table 4.6

Table 4.6. Opinions of respondents about antenotal services they used in the last pregnancy

N = 450

Statement	Ver	No	I don't know
	No. (%)	No. (%)	No. (%)
a. Are the places available?	442 (98.2)	4 (0.9)	4 (09)
h In your opinion, do you think they all	306 (90.0)	21 (4.7)	23 (5 1)
provide quality services			
c. Are they sufficient for pregnant women?	396 (88.0)	39 (8.7)	15 (3.3)
d Are their staff all friendly to homen?	395 (87 8)	.10 (8.9)	15 (3.3)
c. Do you think their staff is qualified?	375 (83.5)	24 (5 3)	51 (11.3)
Is there enough stuff there?	374 (83.1)	60 (13.3)	16 (3.6)
g Are there enough equipment and or	363 (80.0)	60 (13.3)	27 (6.0)
drugs?			
h. Do you think their services are affordable	302 (67.1)	112 (24 0)	36 (8.0)
b) the majority of pregnant women?			
Are those places close to the majority of	209 (66.4)	97 (21.6)	54 (12.0)
those who seek their services?			

Results of the 16D were also consistent with that of the quantitative data above Discussints varied in their opinions about the antenatal services in their towns Availability and proximity of heath care facilitates in News community were captured in the following statement the health facilities are available and they are lacated around our home, those that live for mer spend just about \$20 on trunsportations Discussints in Unmahi noted that the different places they pregnant wemen go for amenatal is the maternity some use the hospitals while some use the traditional birth homes. In another group a discussant explained, we get it from the maternate which is centrally lacutett in our town people trans Ohmagn and Unmaga om neighbouring men, also patronne here some do go to Udi general hospital while some others go to a private haspital at Visioogn in Udi town one contributor disclosed that some qualified health care personnel operated some private clinics around the area. Pregnant winners have a good number of places to choose from There are some qualified staff nurses who have antonatal homes around there is also a general haspital including other private haspitale Wanten also visited health courts and rural wanten ande march the villages

Attitude to use of antenntal services in the community

The attitudes of women to ANC use were assessed by requesting them to respond to a set of outlined statements of common beliefs about ANC and early or late reporting in particular. Respondents, were requested to 'agree', 'disagree' with or remain 'undecided' to each of the item statements. Agreeing with a positive statement or with a negative statement was scored one point each, while disagreeing with a positive statement or detecting with a negative statement were scored zero. All undecided responses were scored zero. The total attitude score was weighed on a 0 to 17 point scale with 17 points being the ntantituum abunitable score. Using the 50° percentile, respondents were divided into two main categories. Those whose attitude score were above the mean value were classified as having positive attitude to ANC use while those whose score were below it were classified as having negative attitude.

Attitudes of respondents were found to be stati tically positive. This is reflected by a high mean attitude score of 13.9—21. Attitude was found to be positive in 65.1% of high mean attitude score of 13.9—21. Attitude was found to be positive in 65.1% of high mean attitude score of the individual score of the subject. It all the test item is pondents. A breakdown of the individual score of the subject. It all the test item.

displayed in table 4.7. Ninety nine percent of respondents agreed that every pregnant woman should receive this care for all of her pregnancies. 99.1% agrees ethat most of the services rendered to pregnant women at ANC were of great hencfit to both the minhers and their babies. Ninety four percent agreed that the best time to register was within the first three months of pregnancy. Over two-thirds of them were opposed to late booking as majority (84.7%) agreed that it was a risk for a pregnant woman to wait for long before registering for ANC. It was therefore the belief of a large proportion (90.7%) of them that early registration for ANC should be made compulsory. On the other hand, 44.9% of the respondents disagreed that early registration was not cost effective and that whether a pregnant woman registers early or not what will happen will happen

Table 4.7. Attitude of respondents to early reporting for antenntal care

N = 450

liem statement	Agree	Disagree	Undecided
	No. (%)	No. (%)	No. (%)
A Most services rendered to mothers during antenatal care are of great benefit.	146 (99.1)	2 (0.4)	2 (0.4)
B Every pregnant woman should obtain antenatal for all her pregnancies	447 (99.3)	0 (0.0)	3 (0.7)
Every pregnant mother should take ANC seriously.	449 (99.8)	0 (0.0)	1 (0.2)
D) Those who leel healthy may register when it is convenient for them.	154 (34.2)	295 (65.6)	1 (0.2)
Pregram wonten should decide when and where she may register for ANC	390 (86.7)	57(12.7)	3 (0.7)
It does not matter when a pregnant ntother registers for antenatal case.	99 (22.0)	341 (75.8)	10(2.2)
G A pregnant woman should register early for antenatal care only in her first	108 (24.0)	331 (73.6)	11 (2.4)
Pregnancy H Early registration for ANC is not cost-	229 (50.9)	202 (44 9)	10 (4.2)
effective. It is a risk for a pregnant woman to want for so long before the registers for		62 (13 8)	7 (1.6)
J. Those who register late may not obtain	399 (86 7)	52 (11.6)	8 (1.8)
niost of the benefits of antenntal care K. Only those who can afford a may register	119 (26.4)	323 (71.8)	8 (18)
l. Late registration for ANE can cause delay	402 (89.3)	37 (8.2)	11(2.4)
in getting help in time of emergency	134570371	5(11)	6(13)
register early it she becomes pregnant Not will register after six months if I am no	121/26 0	316 (70 2)	13 (2.9)
sick moisteinen should be mas	4.10.400 75	38 (8.4)	4(0.9)
compulsory for every pregnam woman	120 1717 61	253 (56.7)	18 (40)
Q It is best to register within the lits!	406 (114 .11	18 (4 0)	7 (1 6)
manth at pregnancy			

The effects of age, level at education and mulber of children was observed on the intitude of the respondents ANC use. The results showed that there was no significant relationship between attitude and any of the variables. Table 4.8 shows the details.

Table 4.8. Comparison between age, level of education and parity of respondents and attitude to ANC use

	Attitude	of responder	115			
	Positive	Negative	Total	N ²	P value	Di
Age group	No. (%)	No. (%)	No.			
15-24 years	63 (58.3)	45 (41.7)	108			
25-49 years	230 (67.3)	112 (32.7)	342	2.8	0.00	1
Level of educatio	tı —					
l'mmary	12 (60.9%)	27 (39.19)	69			
Secondary	181 (63.7%)	103(36)3%)	284	42	0.13	2
Tentiary	69 (74,2%)	2.1 (25 8%a)	93			
Number of						
children						
1	C82 (64.6%)	45 (35.4%)	127			
2	72 (62 (%)	44 (37 990)	116	0.9	0.65	2
	139 (67 1%)	08 (32 9%)	207			

Kow priventuges reported

A positive attitude to use of untertaint services among women was confirmed by the (ii) discussants in the two age groups in all the communities. A common belief among them was that ANC use should be oright of every pregnant wontan arespective of demographic or sociocconomic backgrounds including obstetue histories of the women To them. It is a cost effective preventive measure and no amount of money The content of the Africa digital Health Repository Project

ANC should be taken seriously especially by those women who often develop sickness during pregnancy. In all age groups women were of the view that decision to inmate ANC as well as the choice of facilities should be a special reserve of the pregnant woman herself because she is the one who bears the children and knows where her mind accepts. However, a few believed that such decisions should be a joint responsibility of the both spouses.

The inajority of discussints were also of the view that ANC worded best if commenced in the first trimester of pregnancy and its objectives are best achieved when mothers kept regular appointments. On the other hand some believed that early or late booking was acceptable so long as the woman considers herself healthy whe can may back at hanne Better stiff if one was had to have on older woman around her flike a mather in a mather-in-line), one could register anything one wished because according to them, they (the older women) are more experienced and know how to handle pregnancies. Nevertheless, majority of discussints perceived that early registration was a common practice among the printigravidae (first timers) and those who feel they are not healthy.

Discussants had different opinions on the minimum number of visits before delivery. A few of them asserted that visits to ANC clinies should not be limited to any number of nines rather it should be dependent on when one started receiving care. One discussant explained it this way, at hot is spent—so I reduce the number of my mine to when I m Mck. A different opinion came from another older woman who said. I register early so mine is uncountable—h was however, observed that in that community pregnant women were given weekly appointments by private health workers. They observed that mate visits attracted more expenses.

It was also a common betief among some mothers that the quality of care received during pregnuncy depended on alTordahtlity. These places that charge more offer better services and that is offen the case in private hospitals. However, it was observed that in Umarbi, women thought that services were cheaper and of bener quality at the lone health care in the area bin healthcare providers are few and times that present in time of need. One woman concluded that wint it who have strong trust in God may about dot the meetics into the care of God and tust take antennal care as a reserve about dot themselves into the care of God and tust take antennal care as a reserve

Antenatal care practices of women in the last confinement

Re pondent were requested to answer questions regarding their use of antenatal services during their initiadiate past pregnancy. Data responses are presented in tables 49. 410 and 411. The mean time of reporting was 175± 69 weeks. A little above hall of the respondents (53.1%) reported registering for the first time in the second trimester. (40.9%) in the first trimester and a small number (6.0%) in the third runester. This translates to a total of 59 1% of respondents booking late for ANC. Of this 266 who reported late, those who booked during the second and third transsters were 87.2% and 12.8% respectively. More than half the respondents (60.4%) reported using the private facilities while 30.4% used government facilities. Only 4.9% acknowledges using the traditional homes just as 4.2% reported using government and private facilities simultaneously the reasons given by respondents for choosing to book when they did and for using the preferred facilities are displayed in table 4.10 The average number of visus to these facilities was \$1124.6. The largest number of respondents (83 1%) visued the facilities more than four times before delivery while unly 11 8% made between one and four visits live percent of the respondents could not remember the number of times they visited the facilities before delivery

Table 4.9. Antenutal care practices of respondents in the last confinement: time of reporting, facility used and number of visits made

		N= 450
	No.	l'ereent (%)
Time of reporting (in weeks)*		
5-13 (first trimester)	184	40 0
4-26 (second trimester)	230	53.1
26 third trimester)	27	6
Facilities used		
Private	272	604
Covernment	137	30.4
IBA	22	5.0
Government and private	19	4.2
Number of visits made**		
14	53	118
5-10	284	63.1
10	ભા	20 U
Carliember	23	5_1

^{*} Average units of reporting 17.5 to 9 weeks (range 5.30) * mean number of vicits

Table 4.10 Respundents' reasons for choosing the time of reporting and the

	*No.	Percent (%)
Reason for reporting at that time		
I just telt like no reason	282	62.7
I was sick	135	30.0
It was my first pregnancy	47	10.7
• Others	5	
Total	469	100.0
Reasons for choosing facility:		
They take good care of women	273	60.7
Their stuff are qualified	132	29.3
Their services are cheap	63	14.0
My mind accepts it	20	4.4
Total	488	100.0

multiple responses . for pregnancy to get advanced, distance to facility was too far

With regard to compliance with follow-up visits/appointments, the inajority of respondents (82.9%) claimed that they kept all clinic appointments, while 17.4% did not. The reasons for non-compliance among the 77 respondents were "feeling of wellness" (37.7%) and possessing of enough experiences from previous pregnancies wellness" (37.7%) and possessing of enough experiences from previous pregnancies (62.3%). It is also seen that 44.0% of respondents took the decision to initiate care on their own. Decision was taken by the husbands in 14.9% of cases (see table 4.11). Their own Decision was taken by the husbands in 14.9% of cases (see table 4.11). Analysis of the overall ANC practice of respondents was determined by runing tespondents on a 0-2 point scale with zero representing poor practice one representing four and two representing good practice. Results showed that practice was good in only fair and two representing good practice. Results showed that practice was good in only fair and two representing good practice. Results showed that practice was good in only fair and two representing good practice.

Table 4.11. Antenatal care practices of respondents in the last confinement: compliance with appointments untl decision to initiate care

		N = 450
	No.	l'ercent (%)
Complied with all follow-up visits		
Yes	373	82.9
No	77	123
Decision to initiate care was by:		
Sell	198	44.0
Partner and self	106	36.9
Husband	67	14.5
*Others	19	4.2

^{*}Others include mothers, mother-in-laws friends, etc.

To determine if the major reasons given by respondents for booking at the reported time were related to their nges, each of the reasons was matched against their time of booking. It was observed that personal thoices (that is, those who booked when it pleased them) and sickness at the early stage of pregnancy were major factors for booking early among those in the older age group. Although the former was stongly significant (df = 1, p = 0.002) the latter was not found to be significant (df = 1, p = 700) to the time of booking. However, being pregnant for the first time (mexperience) was a factor for reporting early among those in the younger age group (df = 1, p = 0.002). See details in tables 4-12 and 4-13.

fulle 4.12. Comparison between time of reporting and reasons for respondents' reporting

	t	me of report			
Reasons	Larly	Late	total	N^2	P vulue
No reason (1 just felt like)	89 (31.6%)	193(68 4%)	282	27.196	0.001
Sickness	71 (52.2%)	65 (47.8%)	136	10.930	0.001
l irst pregnancy	33 (70.2%)	14 (29.8%)	47	20 176	0.001

NB Row percentage reported

Table 4.13. Comparison between age of respondents and reasons for booking at the time

	Ake group respondents					
Reasons	15-25 YO	25-19 vrs	Total	df	P value	
	No. (%)	No. (%)	No.			
No reason (Ljust felt like)	5.1 (19.1%)	228 (80 3%)	282	1	0.002	
Sickness	3.4 (25.2°6)	101 (74.8° 6)	135	1	700	
First pregnancy	24 (61 7%)	18 (38 3%)	47	(1)	0.001	

NB column percentage reported

Contributions made hy most FGD discussants in all the groups regarding the ANC practices of pregnant women were in harmony with the findings of the survey results above. A common view among them was that ANC was well embraced by the majority of pregnam women at different levels of healthcare According to the majority, choice was often determined by personal beliefs, values and costs in Ngwo community, discussants claimed that the most frequently utilized health care facilities were private maternities hospitals. In tide and t mught communities local birth attendants were mostly purronised because, according to them, they were affordable and accessible They were also of the opinion that women of all socioeconomic classes utilized care during pregnancy but those in the middle and high classes sought care at the private, general and teaching hospitals while those in the low socioeconomic class mostly patronised the local midwives. A common view among them also was that irrespective of socioeconomic chise, the majority of pregnant women commenced ANC late in pregnancy. In their ohiming, primigravidae are more likely to book cartier, at two and lour months while multiparous and grandmultiparous women could book as late as seven and eight months Some may even appear only in tabour.

Results of the Kills in the three settings, continued that majority of pregrant mothers obtained care at all levels of health care booked late, paid few visits or no visit at all and irregularly kept appointments. Despite the perception of providers in News that the community members were enlightened and are health conscious, no significant difference was observed in the general ANC practices of women. All the informants also noted that a large propoulon of prognant women still tratromsed the traditional hirth attendants, printigravidae sought care most because of fear of the unknown, and majority come in the second trimester a few come in the first trimester while a few uguin come in the third trime ster

Reacting to pattern of compliance with subsequent visits a ten health workers and that many pregnant women usually kept appointments. According to a respondent, some are quite regular some first wan until they fell sick before they come some don t hearder at all they just regimer and then you awar if they have problem during lubour then they come wherever they just take the hospital as a reserve

The average number of visits for woman before delivery as we observed in one provider antennal record varica digital Health Repository Project pregnant women also patronised different cadres of health facility, reported late and also kept irregular appointments. One care giver said. He used to see them of the seventh or eighth months, some even come at the ninth month. They say that they don't have money for their transport so they go to birth attendams who are closer to them. Interviewees noted also that primigravidae usually came earlier around three months, and that frequency of visits was largely dependent on complication in previous pregnancy. Another provider pointed out that late booking nutwithstanding, women made about three to lutar visits before delivery, probably because they were given more frequent appointments toward delivery time. In the words of a long time practicing midwife, they do not keep appointments. It is just the day they feel tike coming or the day they may have complaints such as fever we see them.

In Umuabi, the picture was similar to that in Ngwo and Udi communities. All the care providers reported that pregnant women booked late, kept irregular appointments and made between one and twelve visits. According to a medical practitioner, pregnant women book in late stage here, some don't even come until when they re about to deliver or when they have problem during delivery argain another provider said, some make up to 10 or 15 visits, some dan't even make up to two visits before delivery claiming they don't have any problem. Although primigravidae are thought to book earlier, an informant pointed out that the first timers come around four and five months while those who have had second or third deliveries book around seven and eight months because they have had experience.

Knowledge about consequences of late reporting

Respondents were asked to mention what they perceived as the consequences of registering late at the antenatal clime. The data responses shown in table 4.14 indicates that the most frequently listed effect of late initiation of ANC among the study group were maternal complications and death (24.9%), pour health outcome for the baby were maternal complications and death (24.9%), pour health outcome for the baby (17.2%), delay in getting help in time of emergency (17.2%), etc. Less than one percent of the study population knew that late booking could intract more monitory percent of the study population knew that late booking could intract more monitory expenses for the individual

Table 4.14. Respondents' perceived consequences of late reporting for antenatal

Consequences		
	No.	Percent (%)
	N=1525	
May lead to maternal complications death	380	24.9
Poor health autcomes for the baby e.g. jaundice	262	17:
Delay in getting help in time of emergency	262	17.2
Inadequate planning for delivery	232	15.3
Missed opportunity for health education	223	14.2
Incomplete treatment preventive measures e.g. T1 and IPT	142	9.3
Increases neomital death	17	1,1
Others (attracts more money)	7	0.5

^{*}multiple responses Percentages based on new *N

Among the F(il) discussants in all age groups, myriads of consequences of late booking for care in pregnancy were enumerated. The major points that were raised were the winner mit han and problem that may have been prevented it she had registered earlier some presentive measures like telumis toxuid mity not be completed the mather any times the apportunity to learn many things about health or pregnanc) she may develop complications such as malarla that may affect the boby adversely hading to monatul jaundice, and that the may take untaranguible decisions in time of emergence

They were all in favour of early booking as shown by the comparative statement of a certain discussant who aid. One might be writing till six months before repairing and mor not know that the devil is planning evil for her If she sourced as early as she noticed that she has taken in the ourses will be taking care of her she and her haby will be building But if the required lute untiling can happen in her the or her baby may be ill mich for example some micht deliver and have conventions, or tenunlies may attack their habies. Same might feel that they is healthy and will continue told the

local herbs until their blend dries up Bu reporting early will enable you in be checked you and your bals will be healthy

Most of the informants also perceived that booking within the first trimester was best for the well being of the mother and her fetus. Among them also a long list of mems and demerits of early and late hooking was obtained. The under listed are the merits of early reporting us was given in their order of frequency

- Screening for and early detection and correction of complication
- Adequate time to care for the womon
- Prevention of discuses complications e g underta tetunis Hill ele
- The woman obtains help early in time of trouble
- Early and hener planning for delivery.
- Better opportunity to wednie bealth information learning
- Pregnancy is confirmed early enough being admists faster to condition
- Emmeh time at complete certain presention schedules such as intermittent preventive treatment (PT) for malarin and retains toxoid.
- The woman is more confident and is assured at safety

Conversely all informants disapproved of the habit of booking late, which according to them have the following consequences

- Detection and memagement of complications play he too late
- Delayed abservation of serious complication ex. amounta which may lead to cleath
- . Ramon may be boorly informed obout positive health behaviour eg personal hygiene dies in pregnancy swithirtim care
- Nin-completion of preventive measure such as telumin toxond
- Pour immunits cover for the buty before delivers
- Telmus toront schedule may be bruken
- Lane management of cuses example pre eclampsin
- Poor planned delivery method exprendly in emergency
- Alten's getting help is in time of emergency is difficult
- Blind management of cuses in time of emergency
- They are lossed to come to haspital imprepared
- Intervelling mentales men pula extremely

Perceived factors associated with early and late reporting to untenatal care among women

this objective was assessed by requesting respondents to mention all they thought could be responsible for early and late reporting among pregnant women in their communities from the result analysis, 30 8% of the respondents and that sickness in early stage of pregnancy, first pregnancy expenence. (170%) and complications in previous pregnancies (13.7%) were the major reasons why pregnant women would present early to ANC clinic. Other reasons that were given included: being enlightened or educated (10.9%), free east services (10.6%), when there was adequate fund (4) (10 a) having experienced a previous neonatal death (5 6%) and a feir of unknown such as complication (1.5%)

With regard to late initiation of ANC, the major reasons given by respondents why women would present late to the facilities are a feeling of wellness (22 4%), lack of money/poverty (21 4%), ignorance about benefits of early reporting (10.0%), and etc. See table 4 15

Table 4.15. Respondents' reparted reasons why women book late for ANC

Reasons	No.	Percent (%)	
	N=1604		
Feeling of wellness	360	22.	
Lack of money	344	21.4	
lynounce	161	10 0	
Estavez-faire attitude to ANC	157	9.8	
Multiparity several experiences	110	6.4	
Untriendly utilised of health workers	104	6.5	
Dislike for hospitals drugs	102	6.4	
Long trekking distances	102	6.4	
Long waiting time in clinics	86	5.4	
Other alternatives (PMVs, TBAs,)	78	43	

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Thematic analysis of the data from the FGDs showed that the findings corroborate the above results. Majority perceived that pregnant women reported late primarily because of the perception that a pregnant woman is not sick thus the saying 'there is nothing wrong with me' that is, they feel well This according to the discussants was particularly a common belief among those who had had previously hitch-free pregnancies, labour and deliveries. The second was lack of money. To them many women delayed booking till late stage in pregnancy because they do not have money and amenatal charges are often high especially in private-owned facilities as young mother in one of the groups pointed out that advice from older women such as mothers or mathers in law could cause late reporting. One other discussant among an older age group observed that some women might not know they are pregnant until their stomach starts bulging mit. Other reasons included that baby had not fully formed at the first few months, and ignorance of benefits of early booking

A good number of discussants also thought that women encounter a lot of problems while obtaining ANC. Some of these problems included high cast of services transportation indifferent attitude of some spouses dislike for amenatal drugs and untrivindly attitude of health care providers especially in public health facilities including long waiting time spent at the facilities. These problems however, force women to report late or seek ears in alternative place such as local delivery homes.

On the contrary, feeling of unwell at the early stage of the pregnancy, inexperience and complications in previous pregnancies were the major reasons given by discussants why pregnant would begin ANC early

Results from the Klis were confirmatory of the reasons why women reported late to health facilities for ANC services. An informant sometiment captured it as follows some nomen have varied reasons some don't have any reason just that they feel they are not suck there is no need going to autenated clime some complain that the are not suck there is no need going to autenated clime some liaises force attitude distance is far some may attribute it to cost some may just have liaises force attitude distance is far some may attribute it to cost some may just have liaises force attitude distance in far some may attribute it to cost some may just have liaises force attitude distance in far some may attribute it to cost some may just have liaises force attitude

Suggestions for improving on late reporting for antenatal care

Respondents were requested to suggest ways which they think could help to tackle the problem of late registration for care among pregnant women. Making antenual services free for all pregnant women (31.0%), creating awareness through the electronic and print media (20.5%), reducing the current antenatal service charges for women (12.7%) among others were their major suggested ways of improving the problem (see table 4.16)

Table 4.16. Suggestion for improving late reporting by respondents

Suggestions for improvement	N = 6.19 Percent (%)		
Make ANC free at all levels of care	201	31.0	
Create awareness through radios, T.Vs etc.	133	20.5	
Reduce charges for ANC services	83	12.7	
Giving whaten meentives at booking ey snacks	66	102	
Through individual public health education	51	7.9 4.8 3.9	
Building more govi health centres	32 25		
Providers should be naire friendly			
Through advice and counseling	25	3.9	
Improving quality of services	24	3.7	
By making ANC compulsory	Q	1.4	

"nultiple responses Percentage based on the new "N

Discussants appeared exhaustive with suggestions about ways to help improve on ANC uptake by women porticular in respect to the presentation. Top on the list is tackling the unfriendly behaviors of healthcare two iders especially in government tackling the unfriendly behaviors of healthcare two iders especially in government the distinct facilities. In the words of a contributor, Organizations committee that will limited the matter especially in government institutions whould be set up to consider maintain the matter especially in government institutions whould be set up to consider maintain the matter especially in government institutions whould be set up to consider

them and ensure they go about their duties the right was - with patience Regarding cost of services a discussion said the amount charged women could be brought him or just free supply of drugs and necessary equipment to both government and private hospital. Another discussion suggested that welfare at workers should be taken veriously according to her, prompt pd) ment of their sularies will improve the interpersonal relationship with pregnant women thus promote early attendance among women. Other suggestions included employing more workers and posting them to rural health lucilities, teaching women the benefits of early reporting during antenatal talks. or out-right use of persuasion.

Tests of hypotheses

Some assumptions that were made at the beginning of this project work were tested during the course of the analyses. The outcome variable, early and late reporting, was compared against some key variables of the research to determine their independent effect on one another the sunmary of the results of each outcome is presented in tuble 4.17

The first hypothe is states that there is no significant relationship between age of the respondents and time of reporting for ANC. The result showed a significant association between age and time of booking for ANC (df = 1, p = 0.047). Late booking was more among the older age group (61.7%) than the younger age group (50.9%). The hypothesis was therefore rejected.

The second hypothesis states than there is no relationship between the area of residence and the time of reporting. This relationship was not statistically significant (df = 2, f) 0.05) However, early initiation of care in pregnancy was practiced more among women resident in 1 di (54 4%) than those in either Univahi (41 290) or Ngwo (38 3%) communities. The hypothesis was not rejected

the third hypothesis states that there is no agrifically relationship between the tughest educational qualification of respondents and there time of reporting for ANC There was a trong statistical association between the two vinables (dt 2. p = 0.001) Larly relaining to antential facilities was found to be more automy winner who had tertimy report late (78.3%). This hypothesis was therefore rejected

The fourth hypothesis states that there is no significant relationship between the employment status of women and time of reporting for ANC Results showed that though more women aged 25-49 years who were employed (60.3%) booked late than those in younger age group, no significant association was found between age and employment status of women (df = 1, p=0.05). The hypothesis was therefore not rejected.

The tifth hypothesis states that there is no significant relationship between the number of pregnancy pregnancies of women and the time of reporting Result showed that there was a strong statistical relationship between parity (number of pregnancies) of a woman and her time of initiating ANC. The reporting was more among those who have had more than two children than those with one or two children (df = 2, p = 0.001). This hypothesis was therefore rejected.

The sixth hypothesis states that there is no significant relationship between the knowledge of women about antenatal services in their community and their time of reporting for ANC. This hypothesis was referted because knowledge about antenatal services was found to be statistically significant to the time of reporting for care (df = 2 p = 0.046). Farty reporting was greatest among women who had good knowledge about ANC services in the community.

The seventh hypothesis same that there is no syndic introductionship between attitude of the women and time of reporting for ANC. Women with positive attitude (45.1%) to ANC tended to report early and a significant association was found to exist between the two variables (4f = 1, p = 0.014), this hypothesis was therefore rejected.

Table 4.17. Results of relationships between some variables and time of reporting

		Time of reporting			Te or reporting	5
	Larly	Late	Intal	X^2	l' value	1)6
Age group	No. (%)	No. (%)		***	1 value	ા
15-24 years	53 (49 1)	55 (50.9)	108			
25-49 years	13 (38,31	211 (61.7)	342	3.939	0.013	
Area of residence				2 424	0.047	1
Ngwa	118 (38.3)	190 (61.7)	308			
tdr	31 (54.4)	26 (45.6)	57	5.1.15	00076	
Umuahi	35 (41.2)	50 58.8)	85	3,1,1,5	0.076	2
Highest education			43			
Primar	15 (21.7)	54 78.31	69			
Secondary	111(39.1)	173 (60 9)	28.1	25,237	0.001	
Tentary	56 (60 2)	37(39.8)	1)3		0.001	2
Marital status						
Married	180 (41 3)	255 (58.7)	266			
()(8te, 75, 4 %)	4 (26 7 0)	FI (733)	15	1 73 3	289	1
Employment status						
Employed	123 (39.7)	184 (60.3)	305	0.580	.446	1
Vaemployed Number af children	63 (43, 8)	82 (56.6)	145			
1	68 (53.5)	59 (46.5)	127			
2	53 (-15.71	(13 (54 3)	116	18 880	0.001	2
22	63 (30 4)	1.44 (69.6)	207			
Knowledge shout						
INC.						
Coopy	115(-160)	135 (54.0)	250			
Fair	15 (32 6)	31 (67.4)	46	6168	0.046	2
Porn	5.1135.11	100 (64.9)	15-1			
Mitude to ANC						
Positive	132 (45.1)	161 (54.6)	293			
Negative	52 (33.1)	105 (66.9) Leducation excluded (1 57	6.020	0014	-1

Bow percentages reported, *no formal education excluded (New N = 446). Percentage in bracket Row percentages reported, *no formal education excluded (New N = 446) **single, with

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CHAPTERLIVE DISCUSSION

This study explored the factors associated with late reporting for ANC antong women of child bearing age in this chapter, explanation is given regarding the results presented in the previous chapter. The demographic characteristics of the respondents. their knowledge about ANC services in the communities and their atmodes towards ANC use were explored. The ANC practices of the study population in their immediate past pregnancy period were also examined and finally the factors associated with late reporting for care among them were highlighted implication of the findings of this study to health promotion and education was also discussed Recommendations were made at the end of this report

Demographic characteristics

The mean age of 27.7 ± 5.1 found in the study is expected as most of the study participants were at the peak of their reproductive years. This is consistent with the findings of an earlier study with similar population in Frugu that which found a mean age of 29 8 years (Ozumba and Nwogu-Ikoju, 2008) but differed with that in Uganda in which participants were younger having a nican age of 24 7159 years (Kawawa and Mulubenga, 2008) The group was predominantly married women with Christianity being the religion practiced by virtually all of them. This is supported by a public health exchange report which highlighted Christianity as the predominant religion of the muthern parts of Nigeria (Kupan, 2005), and particularly the southeast to which the andy area belongs the of naternal health services has be a found to be high anning women in Christian communities Of the 9 respondents who were single 77 8% were below 21 years and 22 2% were below 14 years Pregnancy among this The group is likely to be implanned and since teen the pregnature is viewed with serious un prints the victums could uffer some social diginalization and shame which could become harrier to reporting early for any meaningful ARC However airly main be Is still previoced as about 86.7% of this age moup was mirried the rules of

pregnancies and childhigh antong adolescents are numerous and could result in damage to the reproductive health organs, maternal mortality and infertility. complication during pregnancies and childbirth and obstetric fistula (Rulus, 2006). Nevertheless, a study in southwest Nigern showed that scontagy to the popular belief. poor obstetrie outcome of teenage pregnancy was related to nun-unligation of prenatal care rather than their biological age (1 oto, et al. 2001). Although warmen in age group 25-49 years had a more positive attitude to ANC use, those in the younger age group (15-2-1 years) were more likely to register earlier. In order words, age was statistically stemficant to time of reporting (df = 1, p = 0.47)

Contrary to an earlier study in Enugu state which found a low literacy level of 13 5% and 21 5% of secondary and post-secondary education respectively (Ikeako, et. al., 2006) most women (83 8%) had a secondary or a terriary education A study in Benia Edo state, found that 87.5% of the study population eather had secondary or terriary education (Charges and lybafe (2000). This is highably un indication that female enrollment into schools in these parts of the country is increasing. It was noted that though more than halt of the women were employed, as high as 52.78% of them were engaged in petty trading with approximately one-quarter of the study population having no torin of employment is an indication that the status of women is still on the law side and should be a cause for concern. The situation, made worse by the recent global economic meltalown could marginalise the benefits of maternal education in seeking care early in pregnancy. Many women might not be able to afford the cost of inaternal health crices thus have to depend on their husbands for income and decision making the resultant effect of this could be booking at a later date

Knowledge and opinion about antenatal services in the continuity

Accessibility and availability are important factors to use cothealth care services particularly intenstal services in any locality. Antenstal services are avulable and acceptible a all levels of care in the area of study that virtually all the women in this study affirmed the and could mention at least one facility where ANC could be ubtained is evidence in this regard Private facilities seemed the most popular health in litutions unlong the women finibally because according to one [GD discussion They are never stimes the partical digital Health Repository Project

services. This could also contribute to the reasons why more women received care from private than government or any other health facilities. However, with the recent government declaration of free medicare for all pregnant women and children in the state, public institutions are likely to begin gaining popularity once again. The findings are in line with the report of other surveys in which chifferences in geographical distribution of hospitals and health centres often located more in urban than tural areas have led to more accessibility of such services in the urban areas (Kupan, 2005) Despite the fact that many women knew that ANC attendants at the homes of the TBAs were unqualified personnel who acquired midwifers experiences through a period of apprenticeship, TBAs are still popular in all three communities. The reason addited by a discussant was that their give us the local medicines togen a igho) which reduce the size of our babies and so make us deliver them easily

Another important factor to use of antenntal services is the quality of care rendered to wamen who present to the sterlittes Quality in turn is often judged by the contents of ANC package In harmony with the HBM, the framework for this study women are likely to use ANC services effectively if they judge the individual contents of the package as being high and of benefit to them. Contrary to a study in Kenya, east Africa (van lijk. Et al., 2006) wonten in this study reported a good number of service offered by the ANC facilities attended by them in their triunediate bast pregnancies Women could report at least sevel contents with health information, whice and counselling and pre and mistingtal exercises being the most trequently appreciated Confirming their claims, all the key informants listed myriads of activities which they gave their patients during anienated visits it follows therefore that if women were aware of the contents of ANC package and especially the timing of these services they are likely to improve their uptake by making ensure that they brooked early in other words women may have to begin ANC early enough so as to maximise the benefit of these programmies. This was not the case with pulicipants in this study A good number still reported late despite that they knew the contents of the services. This was mure among the multiparous women Recently, there have been concerns over the quality of ANC services provided in Sub-Saharan Africa (Brown, Schan). Khan Liffied and Mukhwana. 2008) It is important to note that the study participants were not so familiar with some antenual service with proven benefit. Only a mall is opertion of the regarder thought they entitle receive iron upplements telements

preventive programmes as was the case with countries like Kenya (van Eijk, et al. 2006) and Uganda (Kiwuwa and Mufuhenga, 2008). However, ascertaining if women were aware of tuning and doses of each of these packages they are supposed to receive per pregnancy was beyond the scope of this study.

The low reporting of tetanus immunisation in this study which was also observed in a similar survey in 1-ntebe. Uganda (1-am. Kizza, Morison, Mabey, Mawanga-Grosskurth, and Elliott 2007) could stem from the fact that its provision has stightly declined among the multigravidae who should have received ellie recommended live doses during previous pregnancies. This group of women constituted the greatest proportion of the respondents used for this study. If the coverage of tetanos instituted attended that a statistically significant relationship exists between ANC attendance and four behavioural decisions namely tetanus toxwid, 197-SP, use of 17Ns and the person assisting with delivery and place of deliver. This may be the case in Nigeria too if action is taken to forestall late attendance for ANC.

Women in this study generally, had Just an average knowledge about the direct benefits of ANC programme. This is expected as majority of the women had just secondary education. It could also be the reason why only less than half of the respondents reported early for ANC. Only 11.1% of women feh that ANC was intended to address complications that might threaten the life of the woman or her baby. It is possible ulso that their knowledge about the benefits was shaped by different circumstances related to specific cultural settings. These circumstances in different environments such as the household the community, turn can be present in different environments such as the household the community, the school and others. Generally the factors that were found to have statistic list the school and others. Generally the factors that were found to have statistic list inguificant associations with knowledge of women about ANC services were age (program associations with knowledge of women about ANC services were age (program and level of education (programs) contains a direct or indirect, the latter have been influenced by previous pregnancy experiences, direct or indirect, the latter have obtained knowledge thought acodemics.

Women in this study had positive opinions about ANC facilities in their community Majority were of the obtinou that the facilities were not only sufficient in number but were close to the majority of women in the community. This is at variance with findings from other studies that far distances were associated with late reporting for ANC (Brown et al. 2008). Surprisingly most wonten rated the annual of health care providers in most of the facilities in their community as friendly contrary to reports from many previous studies. Nonetheless, it is assumed that contact with health care institutions, and particularly beath providers, are pararmount in the shaping of women's views (Nigendn, Langer, Kuchmsit, Romens, Rojas, et al 2003), It is therefore possible that since the majority of women in this study preferred the private sacilities to any other sacilities in the community, they are hound to de entre their views based on the nature of the facilities they use edn their pregnancies. Private institutions are often known to be profit oriented and so tend to keep the behaviour of their staff under some kind of cheek. The resultant effect is that earegivers in these facilities lend to have friendlier disposition than those in the not-for-profit institutions such as government facilities. This notwithstanding, prevention strotegies such as ANC programmes can still be used to improve pregnately auteomes. and also efficiency and quality of care particularly those aspects addressed by women in this study. It is also important that changes in an institution based programme such as ANC services are to be muite, being sensitive to women's opinions will go a long way to producing effective results

Attitude of women in use of untenatal services

In I di LCA most women were well informed about the meaning of ANC and its health benefits to both the mother and the baby. This, together with a high literacy rate observed among thein could be responsible for the high proportion of women with positive attitude to early reporting for care in pregnancy found in this study. More than two-thirds of respondents consented that women who waited beyond the first trinester before booking were taking a risk just as almost all of them concurred that the best time to register for ANC was in the first three months of pregnancy further ventications of respondents' claims revealed a kind of mix up in their belief about the appropriate time for booking. When usted the separate direction when a premiunt wearnin could be said to relative bigital health repository project

resterated that the first three months was considered early booking. 23 1% thought it was in the second trimester, and 20% thought it was the third trimester. Findings of a niral South African study also showed that 61% of participants stated that the first triniester was ideal for broking (Myer and Harrison, 2003) In order to confirm this, respondents were then asked to state out rightly which time they felt was late registration for ANC to this. 68 0% of the respondents now said that last trimester was to be considered fare reporting, while 2.2% now said they did not know. This ambivalent attitude was contained in the statements of two FGD discussards who said

Buoking early or late is acceptable early buoking is of great herefu because the pregnant remain collects her unconstal drugs takes them making her healthy on the other hand if she considers herself healths she can star back at home

A teenage mother in another group said:

Buth me okus Abooking early or late), it depends on your luck If you restaying with an elderh woman like four mother or mother-in-line she night tell you to register around 6 minutes It the and of it all you il still have a safe delivery they re more experienced and know how to handle pregnancies

Statistically however, attitude was found to be significantly a sociated to time of reporting with early reporting being more among those whose attitudes were positive (p = 0.014), however not all those who had positive attitude reported early for ANC More than half the number in this category still reported fate to the facilities. Attitude was neither found to relate with oge, level of education or parity of the respondents (p 0.05) This behaviour of women could be multi foctorial and is an area that in in require jurther research

Antenntal care practices of women

The median interval between delivery and the time of interview was 90 months with a range of 0.24 months. In line with the NDHS (2008), all participating women reported having visited an antenntal facility during their most recent pregnancy. More than half the number of the women (50.1%) hooked late for ANC. This is in consonance with reports from other countries in Africa (Hannel Odhacha Roberts and Deming 2001 van lijk et al. 2006) and other developing countries where life booking for ANC has africa digital Health Repository Project

also been reported (Kambarami et al. 1988). Jahn 2000, Mivaniki, et al. 2002. Thuy thi Irinh and Ruhin. 2000) About 40.9% of women in the study reported initiating ANC in the first immester. Although the figure is unexpectedly high, this impears to be an improvement over findings of other studies in different part of Nigeria where low ANC attendance in the first trimesters was reported. The finding was almost quadruple the tesult of less than 10% in a mission hospital in Ibadan, southwest Nigeria (Aluko and Ohnvatosin. 2008), imple the result of 15 9%. 21% and 14 1% still in the southwest (Bawa et al. 2004, Pehzer and Ajegboniogun, 2005, Okunlola, et al. 2006). and double the result of 20 1% in the Niger delta (Ebeight and Igherase 2005). The mean gestational age at first clinic attendance of 175±69 weeks is also an improvement over the findings of other reports viz: 23.7 weeks i Charoro and Igbale. 2000) 23 1 10 1 weeks (Fbeigbe and Igberase, 2005) and 21 82±70 weeks (Okuniola, et al., 2006). Even in the two years preceding the new millennium. Ekele and Audu (1998) had found a mean gestational age at booking of 23 weeks in Sokoto Nigeria However, these results could be the outcome effect of the numbed used for data collection for this study Since the women's claims could not be ventical it is possible that they may have overestimated their time of reporting for ANC or may have suffered bias due to recall However, this result still differs markedly from findings in most developed countries and some developing countries where the vast majority of pregnant women present early for ANC (al-Shantinan et al. 1994 | 1-Kak Chanya. Campbell and Kaddour 2004 Raatikomen et al. 2007)

Corroborating another tudy in Equatorial Guinea (Jimoh. 2003) the decision to initiate & Chair laken by husband in 1499 of women showing that a significant proportion of women still depend on their husband to take critical decisions such as health care services. The FCiD discussing explained that such women may have to depend on their husband for income otherwise in the event of trouble she may be abandoned to fate. This finding however is a great improvement from the 52% of husband interference in Charoro and Igbale study

A closer look at the reasons given by women for registering the time they did showed that most women had more than one reason for reporting early or late Majority reparted early become a was their liest pregnancy a little above half reparted as a result of sickness in the early lage while one think repository project at all other than they just felt like booking at the time they chose. Most women who registered early because it was their first pregnancy were in the younger age group whereas thuse who registered because of sickness and no particular reasons were mostly those in the older age group. In a study by Limina (2004) 72% of women gave no reason for choosing the time of untenatal booking. The only explanation for this could be that the lirst timers have no idea about pregnancy and are more likely to have lear of the unknown due to inexperience. The older wontest, on the other hand, might have had experience(s) thus may likely postpone booking till a later stage. This is supported by the result of a similar study in Ihadan, southwest Nigeria, which found nulliparity and illness in the index pregnancy as strong factors that favoured early reporting (Okunlola et al. 2006)

More than half the proportion of the women preferred using the private facilities. The major reasons given for such practice were that they took good care of women and had better qualified workers. This could also be viewed from the stand point that most women often prefer to obtain care from female care givers especially in pregnancy periods. As one respontdent desembed in the DOD everything apart you see these women (nurses and inidivives) are ware experienced than the doctors (males). This was also reflected in the results shown on table 12 in which respondents had high value results for nurses. They really referred to any female in health facilities as nurses while males were regarded as ductors

The traditional prodet of ACC that provides for up to 15 to 18 visits is still being practiced in Nigeria in Udi LGA all the health facility personnel interviewed attested to this some private facilities even follow an exaggerated platern of care. One provider said he preferred women to have a total of three visits- one in each immester while another clanned that pregnant women are given bi-weekly appoinments irrespective of time of booking till delivery little fatter case a woman who registered at first trimester may have to make between 18 to 20 visits. The costs of services thotwith tanding the wormen may get disenchanted with her core the mean number of vine (X 4 6) per women observed in this tight is beyond the recommended munimina number of visits in the new WII() model of care While twelve percent of women made less than the required nimim number only of 4% made the required four visits to the facilities like fact that the majority of women made between five and ten vista

hows that the findings of this study corroborated an earlier study by Bawa, et al. (2004) which reported a ficility visit of less than 10 visits by a high proportion of women. The implication is that if the WHO new model of eare will be adopted in Nigeria, a lot of mobilization would have to be done with both the health personnel and the women themselves.

If as studies had shown, a strong relationship exists between antenatal utilization and delivery by trained health personnel, it could be adduced therefore that women in this study had a high chance of being assisted by a trained personnel. With most women utilizing private hospitals and government institutions is an indication that there is a rising awareness of women to proper use of ANC facilities of preven benefit. The usual high service changes by private institutions did not seem to deter most women from preferring them despite the high unemployment rate found among them. It follows therefore, that economic constraint was far from being a factor to late reporting. This finding was confirmed by the fact that employment status was not found to be significantly associated with time of reporting. Surprisingly, late registration was found to be more prevalent among women in employment. This positive health-seeking behaviour among pregnant women has to be encouraged in order to ensure advancement towards behaviour of the MDG-5.

Wunten's knowledge about consequences of late reporting for antenatal

traditions are very important in lgbo culture but current economic and social reality is making people change their views about the importance of sticking to traditions in the context of modernity. For insurace, women in this study demonstrated a high level perception of consequences of line reporting for ANC to the mother and her child and even consequences beyond delivery. This ideal could scarcely translate to practice as many women still reported late for care notwithstanding the fact that they could enumerate numerous consequences of such action in line with the HIMI framework, enumerate numerous consequences of such action in line with the HIMI framework, light women have a lot of myths surrounding pregnancy, among which are that pregnancy is not an illness and one doe not have to say she is pregnant until she starts pregnancy is not an illness and one doe not have to say she is pregnant until she starts freding the travelment of the baby inside her. In which case, the pregnancy must have feeling the travelment of the baby inside her. In which case, the pregnancy must have feeling the travelment of the baby inside her. In which case, the pregnancy must have

developing complications in either pregnancy or childbirth they are not likely going to initiate steps that will offer any meaningful security blowever, other lactors/cues to action such as exposure to modern technologies, interpersonal relationship with significant others, etc may have contributed to the high level of perception observed among the study participants

bactors that hinder early reporting for antenatal care

Women would report late for ANC. For on their list was a feeling of wellness. This hittresses the point that the cultural belief that pregnancy is not a disease is a strong factor late reporting especially when it is considered alongside the teasons given by women why they booked the tune they did. It could be recalled that a good number of subjects booked early because they tell ill at the early stage of the pregnancy. Majority of the unbooked participants Bawa et al study made no facility visit because they believed that everything was normal.

Another reason proffered by women was lack of money to pay for the cost of ANE services us well as other indirect costs such as transportation. True the cost of booking for ANC varies from one facility to another, ANC remains a cost effective programme Some women also understand this as some I GD discussants were of the opinion that, no amount of names we are asked to pay will equale with the babies we have been bleared with 13mite (2003) noted that an increasing number of complex exonunations and intercentions are becoming justs of modern ANC such that an average pregnant woman many countries receives 150 or lesistexulminations interventions during pregnancy. Some of these tests examinations can be deserted for him risk cases in order to reduce costs. In a poor, low resource setting like Nigeria where p lot of people are living below povent level, any amount of charge will lay strain on the already distressed economy of familles and individuals and the condition is waise in rural areas. High cost of services us a reason for low preference of government facility in a study by Osubor, et al. I innied financial resource were one of the major reasons given by women for non-use of ANC in a rural community in Kano Nigeria i Adamii and Salihu. 2002) Priving facilities are must aften muste costly than public hospitals set withen its this tudy had a high preference for them. It therefore follows that cost may not be a primary barrier for women in this study. Linugu state government has recently declared free maternity services for women up to six weeks post partum. The sustainability of this kind of venture is doubtful since the WHO estimated that the average cost of ANC services was about US \$3000 per pregnaru woman in 1996 and this is likely to have increased. But contrary to the belief some studies have revealed that women still report late for care even in facilities where services are free (Raatikainen, et al., 2007). A study in Mozamhique demonstrated that women's tear of their pregnancies being a target of sorcery by lealous neighbours and families made them hide their pregnancies. Instead of seeking free prenand care at nearest health clinics these women visited nonmedical prophets, pastors, and traditional healers who understand women's vulnerabilities (Chaptman, 2003). Health-seeking behaviours of women will likely improve if they are assured of confidential maternity care and economic security.

Women also noted that long trekking distances was a loctor to poor utilisation of ANC intents women in the study mea Magadi et al. (2000) also observed that long distance to the nearest ANC facility was an obstacle to ANC. But only one woman in this study mentioned that distance was responsible for her poor use of ANC. That the generality of the respondents were unaffected by distance in the study was explained by a contributor in the FGDs.

(The facilities are located around our homes. Those who live far may spend just about 20 Saira on transportations

Bawa, et al. (2004) reported that distance from the facility had no statistically significant association with delivery in a health facility. What is of impart for rural women is availability of public transport but not the distance to a hospital or clinic (Swenson et al. 1993)

Suggested ways of improving early reparting for antenntal care

Women thereselves made event suggestions about two mendance to ANC can be women thereselves made event suggestions about two mendance to ANC can be improved the four major was were offering free untenstal services to all pregnant improved the four major was were offering free untenstal services to all pregnant improved the four major was were offering free untenstal services to all pregnant improved the four major was were offering free untenstal services to all pregnant improved the four major was suggestion about two mendance to ANC can be women to all pregnant and programme, women reducing ANC charges in Africa digital Health Repository Project of the four major was suggestion about two mendance to ANC can be women.

public and individual health education, citing more government health centres especially in rural areas, better attitude of health workers especially in public hospitals, advice and counselling, improving quality of services and by making ANC compulsory. More light was thrown into some of these suggestions during the FGDs. For instance, to tackle the attitude of care providers in especially public hospitals, women opined.

Organisations commutees that will monttor the purses especially in government (hospitals) should be set up to connsel them and ensure they go about their dames the right way - with punence

And

Taking workers welfare seriously and prompt parment of their salaries will improve the way they treat pregnant women and this will encourage us to come early if they keep shouring at us nobody will want to come

Health cure providers also made the following suggestion when they were interviewed

Constant education on benefits of corty booking, public enlightenment through the media charches home visuation women associations town announcer economic empowerment for women microcredit ventures making antenant care free for all pregnant women impraving the annuale of health workers especially in government owned facilities construction of good roads in rural areas to ease transportation penblems and proper saving and planning for the earth day

Implication for health promotion and education

three major components of health humation were clearly defined in the national health prontation and education policy and its strategic framework plan These include health education, service improvement and advocacy (FMOH, 2006, FMOH, 2007), beath education component, information is directed to individuals, families and By health education component information is directed to individuals, families and communities to influence their knowledge, attitudes and skills service improvement continuouses to influence their knowledge, attitudes and skills service availability, could be achieved through improvement in quality and quantity of service availability, outled to achieve different improvement in quality and quantity of service availability, outled to influence laws and policies concerning the direction of services and enforcement of to influence laws and policies concerning the direction of services and enforcement of the influence laws and policies concerning the direction of services and enforcement of

laws.

this study has identified reasons behind the poor ANC seeking-behaviour among women of child-bearing age. A substantive proportion of women reported late for ANC mainly due to misconceptions about pregnancy. The root causes of these misconceptions are inadequate knowledge about the associated benefits of ANC furthermore, the old traditional risk-approach that separates pregnant women into high and how risk cases is still being predominantly used by all the health care facilities in the state. Addressing this problem goes beyond the individual women themselves and extends to all stakeholders including health care providers and policy makers. Accordingly, and within the ambit of health promotion and education and the HBM framework of this study, health education, improvement of service delivery and advocacy approaches can be used to address this problem.

The impact of information and communication on behaviour change cannot be over emphasized. Information, Education and Communication (IEC) materials can be designed to address the gaps between knowledge and practice or nutright knowledge delicit as the case may be Health education should be targeted at all women generally. Individual or group process approach or better still a combination of both methods can be used to inform women about the benefits of not only antennal but material health services generally. Individualized approaches that may be used include one-on-one discussion, advice and counselling and home visitation. Group teaching may be done through peer education, seminars and workshops including mass media. Civil organizations, professional bodies, charity based organizations (CBOs) and faith-based organizations (CBOs) as well as philanthropic and voluntary agetteres concerned with safe metherhood can work together to tackle the problem.

Health embowerment approach through which sufficient information are made available to individuals to enable them make informed choice especially in matters that concern them is an effective method of improving the status quo. A long term objective of girl child and preconception education for all females can also become useful tools for providing information for health literacy and self-efficacy. Women useful tools for providing information for health literacy and self-efficacy. Women useful tools for providing information for leather and organisations can be inobilized to interest groups in form of unions associations and organisations can be inobilized to his groups in form of unions associations by providing fund or logistics that will be providing fund or logistics that will

Advocacy comportent can be done in form of visiting and speaking with different endres of stakeholders at the family, community and government levels. At the family levels, husbands as heads of families are important change agents. Educational programmes can be designed to provide information for them to enlighten them also on the benefits of earl reporting for ANC. This can be extended to community and religious leaders since they are known to influence people's behaviour positively. At the government level, bye-laws and evidence-based polices backed by appropriate legislation can be formulated at all levels of care. Policy guidelines could contain plans for training and retraining of health care providers with the purpose of disseminating knowledge and skills for best practice

Conclusion

Considering the total tertility rate of 5.7 births per woman (FMOH, 2004), pregnancies play an important role in the lives of most Nigerian women, and favourable pregnancy outcomes are of particular interest for both current and future generations. Amenatal care has been named as one of the four pillers of SMI, one among many strategies to combat maternal mortality and murbidity. The objectives of ANC as a health preventive measure is better achieved it women commenced care in the first immester of pregnancy It is unfortunate then that 68% of women who sought any kinn of ANC from modern health care providers such as disciors, nurses and midwives in 1999 dropped to 58 8% in 2003. Nonetheless, a considerable number of those seeking ANC do not make proper use of it and initiate care only late in bregnancy. This poor practice of women has precluded them from full utilization of many interventions with proven benefits

This study revealed that there was a high prevalence of late reporting for care during Pregnancy among women of child-hearing age in Udi LCiA, Nigeria. Though there was a high level of awareness about the meaning of ANC, knowledge about the direct benefits of such care and the appropriate time of registration was insidequite. Women perceived pregnancy as a normal phenomenon and so would only commence early for ANC either because of inexperience (usually in the first pregnancy) or sickness. A substantive proportion of we men booked late because of a feeling of wellness and a belief that reducing the sympatrica digital Health Repository Project

the standard model of eare that emphasizes up to 10-15 visits with invitads of non specific procedures and tests that only add to increase cost per unit care. However, late reporting increases a woman's risks of developing complications. This problem must be tackled if the objectives of 81DCi-5 must be achieved. Health education directed at the woman and various stakeholders is highly advocated.

Recommendations

In view of the finding of this project the following recommendations are made

- The study revealed a light level of misconception about pregnancy among women. Adequate information about the concept of pregnancy should be provided to women in form of health talks in climes, churches, and other social gatherings like vitlage meetings. Appropriate the materials should be designed to contain messages that specifically address these mixths and misconceptions. The influence of health care providers as well as other change agents like teachers and religious leaders will be effective in this regard.
- Inadequate knowledge about the benefits of early reporting and incongruence of attitudes of women and practice about early reporting found in this study can be tackled through educational interventions like advice and counselling, individual and panel discussions, workshops and seminars organized and coordinated by health care providers. Involving women at every stage of the programme will strengthen the efforts of all the group and increase confidence and self-efficacy.
- Women's behaviours with regard to decision-making and choices are often influenced by their husbands, other telatives and peers especially during pregnancy I ducational intervention programmes largeling the husbands and significant others can be designed to improve decision making and appropriate choices in pregnancy
- Advocacy visits and campaigns that will increase girl child and preconception education should be undertaken by government and other interest groups education should be undertaken by government and other interest groups education should be undertaken by government and other interest groups education should be undertaken by government and other interest groups education should be undertaken by government and other interest groups. In Pregnancy and risk complications including the importance of ANC in

reducing complications during pregnancy and childbirth should become topical issues in the school curriculum.

- Administrative efforts that will reintroduce the use of community public health ufficers who are skilled in community and family care into the PIC system should be accelerated. Adequate plans should also be made by appropriate government to remunerate them accordingly.
- 6 Guidelines that will introduce the more evidence-based cost effective. FANC should be formulated and udopted for use in Nigeria to minimize most of the harriers that women encounter while receiving ANC. Under this guideline, training and re-training of heath care providers as recommended by WHO should be followed conscientiously to improve facility attendance and service delivery.

REFERENCES

- Aboulahr. C and Wardlaw, I 2001 Maternal mortality at the end of the decade agus of progress? Bullenn of the Warld Health Organization, vol. 79, No. 6, pp. 561-573
- AbouZahr, C. and Warldaw, T. 2002. Demographic Health Survey in 45 developing countries.
- Abrahams, N. Jewkes, R., Mvo, Z. (2001) Health care-seeking practices of pregnant women and the rule of the midwife in Cape Town, South Africa. Journal of Michigery and Hamen's Health, 46, 240-247 (pdf 52 kb), MEDIANE
- Acharya. I B and Clehard, J. 2001. Maternal and Child Health Services in rural Nepal.

 Does access or autility matter toore? Health Policy and Planning, 15(2)

 Available at SSRN http://scm.com/ab/tract_237308 Accessed 13/2/2006
- Adamu. Y.M. and Salihu. H. M. 2002. Harriers to the use of untennal and obstetre are services in tural Kano. Sigeria lowered of Obstetes and Gravecalogs. 22(6): 600-603.
- Addin, I. 2000. Determinants of use of maternal child health services in rural Chana.

 Journal of Biomeral Science, 321-15 doi:10.1017/S0021932000000018
- Adekogbit. O Rautsi, A O and Olukoya O 2003 Reports of reproductive health monitoring visit submitted in WHO (Nigeria) December 2002
- Adeaye S. Ogbonnnya. I. U. Uneorah. O U and Asieghu. O 2005 Concurrent use of multiple antenatal care providers by women utilizing free antenatal care at Ebonyi State University Feaching Hospital. Abakuliki African Journal of Reproductive Health 9(2) 101-106
- al-Shammari, S.A. Khoja. I and Jarallah, J.S. 1994. The pattern of antenatal visits with emphasis on gestational age at booking in Riyadh health centres. Journal of the Royal Society of Health, 114(2) 62-6

- Aluka I () and Oluwatosin, A 2008 Patieri and autoome of antenatal care among women attending a Catholic mission hospital in Ibadan, Nigeria African Journal of Medical Sciences 37, 231-238
- Anand. S. and Barnighausen. I (2004) Hunian resources and health ourcomes cross-country econometric study. Lancet 36.1(9.145), 16(13-161)9
- Antefick J Umoryoho, Antekan M Abasiattai, Edem J Udorna, Saturday J Fluk 2005.

 Community perception of the causes of inmernal mortality among the Annang of Nigeria's South-East coast Tropical Journal of Obstateres and Granecology Vol 22, No 2 htm
- Antennal care. http://www.childinfo.org/ateas/antenntal/Accessed on 6 6/2006
- Banta 1110 Houd S. Suarcz Ojeda E. 1987 Prenatal care an introduction International Journal of Technology Assessment in Health Care 1 783-788
- Bania. D. 2003. What is the efficacy effectiveness of antenatal care and the financial and Organisational implications? Copenhagen, WHO Regional Office for Europe (Health Evidence Network report http://www.curo.who.in/Dacoment E82006.pdf Accessed 5 2/2007.
- Band S. B. Uniar 11.5 and Considera M. 2004. Utilisation of obstetric care services.

 111 a rural confunction in South-western Nigeno. African Journal of Medicul Sciences, 32, 239-24-4.
- Birungi, II and Onyango-Ouma W 2006 Acceptability and Sustainability of the W110 Focuse Antenatal Case package in Kenya Nairobi Frontiers in Reproductive Health Program
- Bloom S. S. Lippeveld. 7 and Wypij. Does antenatal care make a difference to safe delivery. A study in urban Uttar Pradesh. India Health Policy and Planning 14(1) 38-18
- Box, 1 2007 improving maternal health the need to focus on teaching the poor washington DC. The World Bank

- Brown, C.A. Solmin, S.B. Klian, K. Lilford R. and Mukhwana, W. 2008. Antenatal care and permatal outcomes in Kwale district. Kenyn. BMC Programs vand. Childhirth. 2008, 8-2 dni. 10, 1186/1.171, 2393-8-2. http://www.hiomedeeniral.com/1471-2393-8-2. Accessed 28, 05/2009.
- Campbell. S and Lee. C. 2005 Obstetries by ten teachers. London: Churchill livingstone
- Chan. K I and Kean, 1-11-2004 Routine intential management at the booking clinic Current Obstetrics and Communication (14):79-85
- Chipman, R.R. 2003. Endangering safe motherhood in Mozamhique, prematal care as pregnaricy risk. Social Science and Medicine, 57:355-374
- Dean, A. G., Dean, J. A., Couliombier, D., Brendel, K. A., Smith, D. G., Burton, A.H., Dicker, R.C., Sullivan, K., Fagan, R.I. and Amer, F. O. (1995). EPI Into Version 6.04. A word processing, database and statistics programme for public health on 1BA1 compatible microcomputers. Centre for Disease Control and Prevention, Atlanta, Georgia, USA.
- Medical Journal of Australia 176 (6) 253-254
- Ebeighe, P.N., Enabudoso, E., Ande, A.B. 2005. Ruptured mens in a Nigerian community of such of sociodemographic and obstetric risk factors. Icha Obstetricia Osnovenlugica Scandinavia, 84(12), 1172-1174.
- Ebeigbe. P. N. Igberase. G. O. 2005. Aniennial case: a comparison of demographic and obstetric characteristics of early and late attenders in the Niger Delta, Nigeria. Medical Science Monttur. 11(11) CR529-532.
- Okoronkwa Kesanda Ottan memorial arabian Tempical Journal of Obstetricy and Grancealogy 20(1) 76-82
- Tkele, B. A. Audn, L. R. 199x. Gestational age at antenatal chinic booking in Sokoto.

 Northern Nigeria. ** **Incare laurenal of Medical Sciences** 27(3-4):161-163

- Ekele, B.A. Audu, I. R. Muyibi, S. 2000 Uterine rupture in Sokoto, Northern Nigeria. Are winning: African Inurnal of Medical Sciences, 29 (3-4): 191-193. Pubmed. Indexed for MEDLINE
- Ekwempu (C 1988 The influence of antennal care on pregnancy outcome Tropical Journal of Obstetrics and Gynaecology 1(1) 67-71
- El-Kak, I Chanya. M Campbell O and Kaddour. A 2004 Patterns of antennial care in low-versus high-risk pregnancies in Lebanon. Eastern Mediterroneon Health Journal; 10/3/268-276
- fillen. K. 2007. Perinatal Review: Challenging antenaial care, introduction http://www.perinatal.org/uk/reviews/nc/ac/intro-htm/top/Accessed
 - Tzechi O C Lusuban, O B Obiesie, I O Kulu BK Loto O M Dubub V L and Olomola. O 2004 Deliver out ide hospital after untenntal care prevanlence and its predictors. Journal of Obstatrics and Cyneaeology 24(1) 745-49
- Transmonal Hospital in Enugu South East Nigeria African Journal of Reproductive Health i 3(4)
- Fawers, S.R. Crowther, C.A. Van Baelen P and Murumahoko J. 1902. Booked and unbooked anothers delivering at Hamre Maternity Hospital Zimbabwe a companisation maternal characteristic and foetal outcome. The Control African Journal of Medicine. 38(10) 402-8.
- Lederal Covernment of Nigeria 2004 National population policy Abuja FGN
- Federal Government of Nigeria 2002 Namenal Leonomic Policy Abuja FUN
- Federal Ministry of Health 2001 National Reproductive Health Policy Abusa FMOII
- Federal Ministry of Health 2004 Maternal martality situation and determinants in

- Federal Ministry of Health and United Nations Population Fund (Nigeria) 2003.

 National study on essential obstetne care Abuja FMOH & UNFPA
- Social Sector (COMPASS) 2006 National clinical service protocol for obsetetric and neonatal cure Abuja FMOH secretariat
- Tederal Ministry of Health 2004 Maternal Mortality Situation and Determinants in Nigeria Abuja IMOH
- health resources and services survey 2002
- Freser. Arabella 2005 Approaches to reducing maternal mortality. Oxform and the MIDGs. Gender and Development, 13(1) March 2005
- Galloway, R., Dusch, E., Elder, L., Achadi, F., Grajeda, R., Hurtado, I., Favin, M., Kanam, S., Marsaban, J., Medu, N., Moore, KM., Monson, L., Raima, N., Rojaratman, J., Rodriquez, J., and Stephen, C., R., Dusch, I., Elder, I., Achadr, I., Grajeda, R., Hurndo, E., Favin, M., Kanam, S., Marsaban, J., Meda, N., Moore, KM., Monson, J., Ruma, N., Rajaratman, J., Rudriquez, J., and Stephen, C. 2002. Women's perceptions of fron deficiency and anemia prevention and control in eight developing countries. Social science and Metherne, 55 (4):529-544.
- Gay, J. Hardeg, K. Judice, N. Agarwal, K. Heming, K. Hairston, A. Walker, B. and Wood, M. 2003. What Works: A Policy and Program Courde to the Evidence on Family Planning. Safe Motherhood, and STI HIV MIDS Interventions. Modult I. Sale Motherhood, Wishington, DC. POLICY Project.
- Gheiwei. N.B. 2004 Health education and communication strategies. A practical approach for community-based health practitioniers and rural workers. Lagos.

 Nigeria. West African Book Publishers I id.
- Character 1 12 lybase. A A 2000 Antenatal care waste characteristics of eth booking visit in a major teaching hospital in the developing world. Medical booking visit in a major teaching hospital in the developing world. Medical booking visit in a major teaching hospital in the developing world. Medical booking visit in a major teaching hospital in the developing world. Medical booking visit in a major teaching hospital in the developing world. Medical booking visit in a major teaching hospital in the developing world. Medical booking visit in a major teaching hospital in the developing world. Medical booking visit in a major teaching hospital in the developing world.

- Griffiths, P and Stephenson, R 2001. Understanding users perspectives of barriers to maternal health care use in Maharashtra, India. Journal of Biasacial Sciences, 33-339-359
- Guyatt III. Corlett SK Robinson, IP Ochola, SA and Snow, RW 2002 Maloria prevention in highland Kenya indior residual house spraying vs. insecticide-treated bednets. Tropical Medicine and International Health, 7(4) 298-303
- Guyer, B. I reedman, M.A. Strohino, D. and. Sondik, E.J. 2000, "Annual summary of Vital Statistics. Frend in the Health of Americans during the 20th Century."

 Pediatrics. 106-1307-1317
- fivatkin. D 2004 I doking beyond the averages in order to ensure that poor women benefit fully from progress toward reporductive health goals Paper prepared for the International Conference of Population and Development at 10.
- Haines A. Cassels A 2004. Can Millennium Development Guals he attained? British

 Medic al Journal 329 394 397.
- Hannel, All. Odhacha, A. Roberts, JAI and Deming, MS (2001) Malaria control in Bungunta District. Kenya: a survey of home treatment of children with fever bednet use and attendance at antenatal climes. Bulletin of the World Health Organisation, 79 1014-1023.
- Hill. K. AbouZahr C. and Wardlaw T. 2001. Istimates of maternal mortality for 1995.

 Hulletin of the World Health Organ Salton, 79(3) 182-193
- Hotehkiss DR 2000 I getors Influencing the Live of Minternal Healthcare Services in Ethopia imsear hellis orgabitstreom 1234 56780 8240/jhpn2003v21n4p374 pdf Acce sed 14 2/2006
- Holle TM Kachur SP Roberts, JM Maram 111 Mkaodala C Chieani N Mache of A and Parise. ME 2003 Use of antennal care services and intermittent and Parise. ME 2003 Use of antennal care services and intermittent preventive treatment for malaria among Pregnant Women in Blantyre Di trict preventive treatment for malaria among Pregnant Women in Blantyre Di trict preventive treatment Method in the Malawi Trop and Method in the Intervation of Method It h.

 Malawi Trop and Method in the Intervation of Method It h.

- lkenko, 1 C. Onah, 111 and Iloabachie. (1 C. 2006 Influence of formal maternal education on the use of maternaly services in Enugu. Nigeria. Jaurnal of Obstetrus and Concacology. 26(1) 30-34
- Jun. A., Bruce, J and Mesch, B. 1992. Setting standards of quality in family planning programies. Studies in family planning, Nov. Dec. 23 (6Pt 1): 392-395.
- Jintoh AA 2004 Unlization of antennal services in Koko town Sokoto State.

 Nigeria Vigeria Jimmal of Medicine 13 (2) 11 4.7
- Jimoh AAC 2003 Utilization of antenatal services at the Provincial Hospital.

 Mongomo. Guinea I quitoria. Arrican Journal of Reproductive Health 7 (3)

 49-54
- Jowett. M. 2010. Safe motherhood interventions in low-income countries in economic justification and evidence of com-effectiveness. Health Policy 53 201–228
- Kahir, M., Hiyasu, Z., Abubakar, IS and Sani, AA 2005. Determinants of Utilisation of untenatal care in Kombotso village. Kano, Nigeria. Tropical Doctor. 35

 (2) 110
- Kamubaranii, R. A., Chirenje, M. Z., Rusakani, K. O.S. 1999. Antenatal care patterns and factors associated with permain outcome in two runit districts in Zimbabwe. The Conical African Journal of Medicine, 45(11), 294-299.
- Kutharyn, A M Mahimeister, I. R. 1980 Material and Neomial Nursing Family Centred care (3th ed.) Philadelphia J.B. Lippincon Company
- King. JC 2003. The Rick of Maternal Nutritional Depletion and Poor Outcomes Increases in Early or Closely Speed Pregnancies. Journal of Nutrition, 133:17328-17368
- Kiwawa, M.S. and Mulubengu P. 2008 Use of antenatal care, maternity ervices, intermittent presumptive treatment and insecticide treated bed nets by pregnam women in Luwero district. Uganda Mularus Journal, 7-44

- Kols A J and Sherman, J.E. 1998 Family planning programmes improving quality Population report series J. No. 17 Baltimore. Johns Hopkins University School of Public Health Population Information programme
- Kupan. Sux 1 2005 Public Health 1 xchange Report Access and attitudes towards aftenutal care and skilled birth attendance in Oyo State. Nigeria Available it Adohe Read (1 iming of 1 irst aftenutal visits pdf)
- Kyumuhendo, G.B. 2003, Low use of rural maternity services in 1 ganda, impact of winnen's status, traditional beliefs and limited resources. Reproductive Health Matters. 11(21) 16–26
- Western Nigeria Nigerian Journal of Clinical Practice, 7 (1) 13
- Lindroos. A Luukuinen 2004. Antenntal Core and maternal mortality in Nigeria
- Pour obstetric performance of teenagers, is it age- or quality of care-related?

 Jaurnal of Obstetrics (it neucology 24(4):395-398
- Loudon, I. 1992. Maternal care and maternal mortality in Britain. 1935-1950. In death in childhirth. An international study of maternal care and maternal mortality. 1800-1950. Loudon, I. (ed). London. Oxford Claredon Press.
- the propies (6th ed). Rodan Nigeria Hodder and Stoughton Ltd
- Madubuka 6 L. 2007 Material mortality in south-castern Nigeria. The experience of the care-giver (Unpublished). A paper presented at the West African Council of Nigeria (WACN) annual general meeting held in Energy campus of the University of Nigeria. 16th 20th January 2007
- Magadi, M. A. Machi e. N. J. an Rodrigue R. N. 2000. Frequency and timing of antenatal care in Kenya. Explaining the variations between women of different e communities Social Science. Manuar. 51(4): 551-561.

- Magadi Mi et al. 2003. The inequality of maternal health care in urban sub-Subaran Africa in the 1990s. Populatium Studies, 57(3) 347-366
- Maine D and Rosenfield A 1909 The Sale Motherhood Inmutive Why Has It Stalled? American Journal of Public Health 89(4) 480-483
- Massawe, S.N., Urassa, E.N., Nystrom, L., Lindmark, G. (1909). Effectiveness of primary level antennial care in decreasing anaemia at term in Tanzania. Acla Obstetricia Gynaecologica Scandinavia, 78, 573-579. (Puhmed-Indexed for MILDI INF.)
- Mathor Matthews 2005, Improving maternal and child survival in India Indian Journal of Medical Research 12 624-627
- Mesgamus F. Abubeker R and Assefa. M 2005 Assessment of antenatal care services in a Rural Training Centre in Northwest Ethnopia. Ethnopian Journal of Health Development 14 (2): 155-160
- Mwaniki. P.K., Kabiru, I.W., Mbugua, G.O. (2002). Itilisation of amendial and maternity services by mothers seeking child welfare services in Mbeere District Lastern Province. Kenya, East throm Medical Journal. 70:184-187 (Pulmend-Indexectible MEDLINE).
- Myer, L., Harrison, A. 2003. Why do women seek uniential care late? Perspectives form rural South Africa. Journal of Midwelers and Homen's Health, 18(4) 268-272.
- National Center for Chronic Disease Prevention and Health Promotion, Centers for Disease Control and Prevention 2003 Safe Mutherhood Promoting Health for Women Before During, and After Pregnancy. Atlanta Georgia CDC
- National Institutes of Health 2005 Theory at a Glance, A Guide For Health Promotion Practice US Department of Health and Human Services
- National Planning Commission (NP) Ct. UNICES 2004 Child Survival, Protection and Development in Neueria Key Social Stanstics. Abuju, Nigeria. NP1 C and

- 1 NICE 1998 In Patusi A Maternal Montality Situation and Determinants in Nigeria A Review Commissioned by Federal Ministry of Health Abuja.

 Nigeria Federal Ministry of Health
- National Population Commission (Nigeria) (2000). Nigeria Demographic and Health Survey 1999. Maryland: NPC.
- National Population Commission (NPC) (Nigeria) and ORC Macro (2004). Nigeria Demographic and Health Survey 2003. Calverton. Maryland Population Commission and ORC Macro.
- National Population Commission of Nigeria (2005). Nigerian Population Facts and Figures Abuja. Nigeria Micro Products I to
- National Population Commission of Nigeria 2006.
- Nigenda, G. Langer, A. Kuchaisat, C. Romein, M. Rojas, G. Al-Osimy, M. Villar, J. Garcia, J. Al-Mazrou, Y. Ba'aqeel, H. Carroli, G. Farnot, U. Lumbaganon, P. Belizan, J. Bergsjo, P. Bakketeig, E. and Lindmark, G. 2003. Womens' opinions on anternatal care in developing countries results of a study in Cuba, Thailand, Saudi Arabia and Argentina BMC Public Health. 3-17. http://www.biomedcentral.com/1471-2458/3-17. Accessed 1/3-2008.
- Numini. Earlied Parker. E. 2005. Improving knowledge of antenntal care (ANC) among pregnant women a field trial in central Java. Indonesia. Isla Partie Journal of Public Health. 17 (1):3-8
- Okafor, C. B. 2003. Maternal and child health project in Nigeria. Journal of National Black Nin sex Association. 14(2): 51.58. (Pubmed Indexed for MEDLINE).
- Okunlola, M.A., Ayinde, O. A., Ownnikoko, K. M. and Omighodim, A. O. 2006.

 Factors influencing gestation age at antenatal booking at the University College

 [Inspital Ibadan Argerian Journal of Obstatices and Generology 26 (3) 195.

 [197]

- Osubor, K.M. Istust. A.O. and Chiwuzic. J.C. 2006. Maternal health-seeking behaviour and associated factors in a rural Nigerran community. Maternal and Child Health Journal 10(2) 159-169
- Overbosch, GB. Nsawah-Nuumah, NNN van den Boom GJM and Dammyag. L 2004 Determinants of antenotal care use in Ghana. Journal of Metean Leanantes 13 (2) 277-301
- Ozumba B C and Nwogu-Iknjo, E 1- 2008 Avoidable maternal mortality in Laugu. Nigetia Public Health journal of Royal Institute of Public Health 122-354 360
- Phinela, I. Junis, P., Trecia, W., Samia, C. Maybardb, W. and Teoria, P. 2005 Factors affecting antenatal care attendance by mothers of Pacific infants living in New Zealand The New Zealand Metheal Journal 118-1216
- Panos Institute 2002. Birth Rights: New Approaches to Safe Motherhood. London Panas Institute
- Pelizer K and Ajegbomogun 2005 Utilisation of antenatal care in a Nigerian Teaching Hospital African Journal at Reproductive Health 9(3) 159-161
- Prual. A. De-Bernis, L. and El-Joud. D. O. 2002 Potential role of prenatal care in reducing maternal and perinatal mortality in Sub-Saliaran Alrica Journal of (1) nave alogy and Obstetricy Biologs of Responduction (Paris), 31(1) 90-99
- Ruatikamen, K. Heiskanen, N. and Heinonen, S. 2007. Under-miending free antenatal care is associated with adverse pregnancy outcomes BMC Public Health 7 268
- Ramanu, S. Caleb Khan, and Townsend, S. Caleb S. Khan, ME and Townsend, J.W. 2001 Safer nauemal health in rural Uttar Prailesh do primary health services contribute? Health Policy and Planning 16(3) 256-263
- Runi M and Lule, I. 2004 1 xploring the socioeconomic dimension of adolescent reproductive health a majorounity analy is international Family Planning Persynchis 30 (3) 110-117

- Rufu TF 2006 Reproductive health usues among adolescents in Nigeria Banglade the Jenernal of Sociology 3(1) 1-14
- Rutstein, S. Johnson, K., Pande, M. and Wagstaff, A. 2000. Socioeconomic differences in health, nutrition, and population Health. Nutrition, and Population Discussion Papers. The World Bank, Washington, D.C.
- Schultz LJ. Steketee RW. Chusulo L. Macheso A. Nyasulu Y. Ettling M. 1994.
 Malaria and childbearing women in Malawi: knowledge, autuales and
 practices. Trapheal Medicine and Parasitology, 45(1):65-9
- Shiftman, J. 2003. Generating political will for sale motherhood in Indonesia. Social Seigner and Medicine. 56:1197-1207
- Shiffman, J., Okonolua, F., and Ved R. 2006. The State of political priority for maternal mortality reduction in Nigeria and India.
- Shiftman, J., UNFPA, WHO and UNICEF 2003. Sole motherhood in Africa. Social and economic impact of maternal deaths. Paper presented in the 7th Conference of African Ministers of Health. Inputi Libya. 26-30. April. 2003.
- Society of Gynaecologists and Obsteinmins of Nigeria (SOGON) 2004 Status of entergency obstetric services in six states of Nigeria- A needs assessment report.
- Stekelenburg, J. Kyanamitta, S. Mukelabai, M. Wolffers, Land van Roosmalen, J. J. Kyanamitta, S. Mukelabai, M. Wolffers, Land van Roosmalen, J. 2004.

 Naiting too long low use of material health services in Kalabo, Zambia.

 Napical Medicine and International Health, 9 (3):390–398.
- Stephenson P 2005, Focused antenatal care A better cheaper, laster, evidence-based approach. Global Health Technical Biness Produced in association with The Maximizing Access and Quality Initiative Designed and produced by The INTO Project at the Johns Hopkins Bloomberg School of Public Health/Center INTO Project at the Johns Hopkins Bloomberg School of Public Health/Center for Communication Programs, July document. Accessed on 8, 2009.

- Sule-Odu. A. O. 2000. Material deaths in Sagamu, Nigeria. International Journal of Coynaccology and Obstetrics (Opt): 47-49.
- Swemon, I.E. Nguyen much thank and Vit Qin Nhan 1993. Exclore related to the utilization of prenatal care in Viennan. Journal of Tropical Medicine and Hydrone, 96 (2) 76-85.
- 1 an CJ Kizz M Morison I Mabey D Miny in a M Gro kurth H and I lliott AM 2007 Use of intenstal service and delivery care in Entebbe. U and i a community survey BMC Pregnancy Childhurth 7-23
- Thomson V Antennal care 1906 in Bennett VR and Brown. (R-(eds) Myles textbook for midwives (12 Ld) London Churchill Livingstone
- Tomkins A 2001 Nutrition and Maternal Morbidity and Monality Bratish Journal of Naterition 85 (2) 93 99
- Umoryoho, A.J., Abasiatus, A.M. Udoma, I.V. and Etuk, S.J. 2005. Community perception of the causes of maternal mortality among the Annang of Nigeria. South-Last coast. Teopheal internal of Obsteters and Obsteters and Obsteters 22 (2) 189-
- 1 inted Nations Fund for Ropulation Activities 2002. Maternal Monality Update 2002. A locus an emergency obsteric care. New York, LNIPA
- United Nations Fund for Population Activities 2004 Material Monality Update 2004

 Delivering into good hands. New York: UNIPA.
- 1 nited Nations Fund for Papulation Activities, WHO and UNICIT 2003. Safe matherhood in Africa. Social and economic impact of material deaths. Paper presented at the 7th Conference of Atmenn Ministers of Health. Impali, Libya. 26:30th April 2003.
- United Nations 2006 The Millemium Development Goals Report 2006 New York

- United Nations International Children Emergency Fund, WHO and UNFPA (2000)
 Maternal and neonatal tetanus elimination by 2005. Strategies for achieving and minimum elimination.
- Vith the quality of maternal and child health services in southeastern Nigeria.

 Last African Journal of Medicine, 81(6), 293, 299
- Harcort Leaching Hospital Port Hurcott in the last year before the new Millennium Vigerum Journal of Medicine, 13(1) 32-35
- Van Fijk, A. M. Bless, H. M., Odluambo, F., Ayisi, J. G. Blokland, J. J., Rosen, D.H., Adazu, K., Slutsker, I and Lindblade, K. A. 2006. Use of untenatal services and delivery core among women in rural western Kenya. A community based survey. Reproductive Health 3(2), 1186/1742-1755-3-2.
- Viceurs. Anne 2003. Antenutal care. In: Finser DM and Cooper MA (eds.) Myles textbook for midwives (14th ed.) London: Churchill Livingstone.
- Villar J. Carroli G. Khan-Neelolur D. Pinggio G. Gillmezoglu M. 2001. Patterns of routine antenatal care for low-risk pregnancy. Cochrane Database of Systematic Reviews 2001, Issue 4 Art. No. CD000934. DOI: 10.1002/14651858.CD000934.
- Wagstaff, A. and Claeson, M. 2004. The Millennium Development Goals for Health: Rising to the Challenges, Washington DC: World Bank
- Wardhall, F and Maine. D 1999 Process Indicators for Maternal Mortality Programmes In Beter. M and Rayindian, T.K. eds Sale Motherhood Initiatives Critical Issues
- West Jr KP. Katz J. Khate. SK, LeCleiq SC, Pradhan FK, Shresthn SR, Connor PB, Dah SM, Christian P. Pokhrel RP and Sommer A on behalf of the NNIPS-2 Dah SM, Christian P. Pokhrel RP and Sommer A on behalf of the NNIPS-2 Study Group 1909 Double blind cluster randomized trial of low dose Study Group 1909 Double blind cluster randomized trial of low dose supplementation with vitamin A or a carotene on mutality related to supplementation with vitamin A or a carotene on mutality related to supplementation with vitamin A or a carotene on mutality related to supplementation with Vitamin A or a carotene on mutality related to supplementation with vitamin A or a carotene on mutality related to supplementation with Vitamin A or a carotene on mutality related to

- World Health Organisation 1992 International classification of diseases. 19th revision Coneva WHO
- World Health Organisation 1993 World Health Organisation It D-10 International statistical classification of disease and health-related problems. Lenth Revi ion Volume 2. Geneva. WHO
- Wild Health Organisation 2002 Antenutal Care Rundomized Trial Manual for Implementation of the New Model Geneva World Health Organisation http://www.who.invreproductive-health-publications/RHR-01-20- Accessed \$2,2009
- World Health Organisation. 2002. WHO intenstal care fundomized that manual for the implementation of the new model. Geneva. WHO Programme to map best Reproductive Health Practices.
- World Health Organisation 2003. Maternal Mortality in 2000, estimates developed by WHO UNICEL and UNIPA Geneva WHO http://millenniumindlennits.un.org/unsd/mi/mi/mi/source_vrvx.asp/source_code 51. Accessed 30 on 2006
- World Health Organisation, 2003. WHO contribute to making pregnancy saler. A present the quoting from the keynote address delivered by Professor Umanustration with the Nigeria and titled disproving maternal health services in Steems at WHO Nigeria and titled disproving maternal health services in Steems.
- World Health Organisation 2004 Fourth International Meeting on Women and Health www.wbo.or.jp/women/publications/0310_p.pdf
 World Health Organisation/Federal Ministry of Health (FMOH). (undated).
 World Health Organisation/Federal Ministry of Health (FMOH). (undated).
 Reduce maternal and newborn deaths in Nigeria. Make pregnancy sales. WHO and EMO

- Warld Health Organisation 1992 International classification of diseases 10th revision Geneva WHO
- World Health Organisation 1903 World Health Organisation & D-10 International statistical classification of diseases and health-related problems. Tenth Revision Volume 2. Geneval WHO
- World Health Organisation 2002 Amenatal Care Randomized Trial Manual for Implementation of the New Model Geneva World Health Organisation http://www.vvho.int/reproductive-health/publications/RHR 130 Accessed 8 2/2009
- World Health Organisation 2002 WHO intenstal care randomized trial manual for the implementation of the new model Geneva WHO Programme to map best Reproductive Health Practices
- World Health Organisation 2003 Material Martality in 2000; estimates developed by WHO. UNICLE and UNFPA. Geneva WHO http://millenniumindiculors un organisal mi/im_ource_arxx.asp?source_code_51_Accessed 30/06/2006
- World Flealth Organisation 2003 WHO contributes to inaking pregnancy safer. A press netwase quoting from the keynote address delivered by Professor Unitary Shehu at WHO Nigeria and taled "Improving material health services in Nigeria" www. whontgeno org press frequency. Accessed 2005/2006
- World Health Organisation 2004 Fourth International Meeting on Women and Health www.who.orgp.women publications 0310 p.pdf
 World Health Organisation Lederal Ministry of Health (FMOII), fundated)
 Reduce maternal and newhorn deaths in Nigeria Make pregnancy safer WIIO
 and IMO

- World Health Organisation/ UNICEF 2003. Antenatal care in developing countries. Promises, achievements and missed opportunities. An analysis of tends, levels and differentials, 1990-2004. Geneva. WHO www.who.in/reproductive-health/does/antenatal_care.pdf.
- World Health Organisation/ UNICEFUNFPA 2003 "Maternal Mortality in 2000".

 http://millennimindicators/un/org/unsd/nu/nn/source/xrxx/asp/source/code
 51 Accessed 30/06/2006
- World Bank and IMI 2004 'Global Monitoring Report 2004 Policies and Actions for Achieving the MDGs and Related Outcomes' http://siteresources.worldbank.org/GLOBALMONITORINGEXT/Resources DC2004-0006-Add1(E)-GMR pdf Accessed 14/04/2008

World Health Report 2005. Make every mother and child count who or sponomen/ publication 20310 p. pdf

- Vayla. M 2003 Maternal Monality in developing countries Journal of Permatal Medicine 31 5, 386-91
- Zanconato, G., Msolomba, R., Guarenti, I., Franchi, M. (2006). Anumatal care in developing countries, the need for a tailored model. Seminanar in Fetal Neonatal Medicine, 11(1): 15-20. PMID: 16364704

APPENDIX : 2

QUESTIONNAIRE (English version) LACTORS ASSOCIATED WITH LATE REPORTING FOR ANTENATAL CARE AMONG WOMEN OF CHILDREARING AGE IN UDITLG, A., ENUGUESTATE

Introduction

Good morning Madom My name is Emily Okeke I am a posignaduate student in the Department of Health Promotion and Education. College of Medicine University of Ibadun, I um conducting a study and need to collect data to find out why women are booking late for antenatal care. I request that you honestly and sincerely answer the questions I shall ask you. The information you shall provide is for the purpose of the study and will be kept in strict confidence and will not be held against you. However, your participation is voluntary. You are also free to pull out at any time you wish. Thank you.

Please.	would you like to participate?	D Yes (2	No
Serial	Number	interviewer's	Nume
Date	Time started	Time ende	1
Date la	ast delivery		
Please	fill in the responses. Thick () wh	iere appropriate	
Section	11: Spein- Demographic Data		
2 3 4 5	Age has birthday ton. Nforttal Sums (1) Single (2) Mar Ethnic group 1) Igbo 2) Hau 3) S Religion 1) Christianny (2) Islan Highe estevel of I document (1) S 4) Terthary 5) others (specify) Occupation (State exactly)	med (3) Separated (- foruba 4) others (p. 11 (3) Traditional (4) ko (urma) education	others (specify) 2) Primary 3) Secondary
7.	Husband's occupation (state exact	13.1	
8	Total number of birth		

Section 2: ANC practices of mothers during the last confinement Please tell me what ANC is all about It is about taking case of pregnant women and the babies in their wombs. 1) Yes 2) No 3) Others (specify) When did you book for antenatal care in your last pregnancy (State exactly) 10 Why did you book at that time? (DO NOT READ OUT, Tick as jungy as apply) a) I was sick b) it was my l Pregnancy e) I thought it wise to book at that time d) others specify II The decision to book at that period was taken by whom? 1) Myself 2) my husband 3) both of us others (specify) 12 Which facility did you use? 1) Gove facility 2) private facility 3) IBA 4) others (specify). 13. Why did you prefer to book at that place? (lick as many as apply) a) It was close 1) Yes 2) No b) their staff are qualified 1) Yes 2) No Their services are cheap 1) Yes 2) No 4) they take good care of women 1) Yes 2) No 5) others (specify) 14 How many ANC visits did on make before delivery (State exactly), 15. Did you keep all your appoinments? 1) Yes 2) No 16. If no. why? 17 At what month of their pregnancies do the majority of winnen in this community register for untensial care? 1) 1-3 nuts 2) 4-6miles 3) 7-9 in the 4) 1 don't kom 18 How many times, at least, do the majority visit before delivery? (State char(ly) 19 How regularly do the majority keep appainments? () Very regularly 2) regularly 3) not regularly 4). I don't know Section 3: Knowledge and opinion about antenatal services in the community 20 When is the most appropriate time to real ter? 1) 1-3 mth 2) 4-6mth 3) 7

Junhs 41 I don't kno w

- 21 How many times at least, should a woman visit before she puts to bed (State exactly)
- 22 How regularly should a pregnant woman keep her antenatal care appointments? 1) Very regularly 2) regularly 3) not regularly 4) I don't know
- 23. Please tell me all the benefits of antenatal care (DO NOT READ OUT. Fick all that apply)

	Items	Tick
11:	Helps to know the state and position of the baby in the womb	
h	Mother and baby's conditions are continuously assessed and inonitored	
C	Mother has opportunity to get adequite care in pregnancy.	
d.	Mother gets health educated on many issues	
C	Mother gets counseling and advice about vehicle to do and what not to do	
ſ.	Any hidden illness or abnormality is detected.	-
¥.	Some immunizations are given eg tetanus toxuid	
h.	Helps a mother and the health provider plan for delivery.	
£.	Sick mothers are treated	
Ť.	Others (specify)	

- 24 Tell me the different places program women get internal care in this community? (DO NOT READ OUT Tick all that apply) 1) Private hospital materials 2) Gove hospital materials 3) Indutional delivery home 4) Pruyer houses (5) others (Specify)
- 25 Mention the calibre of people who render antennal care in the different places you mentioned (DO NOT REAL OUT Tick as many as apply)
- I Private hospital/maternity 1) Nurses only2) nurses and doctors 3) others (specify) 2 (Just hopital maternity!) Nunc only2) nurses and doctors 3) others
- 3. THAS 1) Nurses only 2)nurses and doctors 3) nurses by apprentice 4) others
- (specify)

- 4 Prayer house 1) Nurses only 2) nurse and doctors 3) nurses by apprentice others (specify)
- 26. Which tacility do the majority of women patronize most? 1) Govt. facilities 2) private facilities 3) TBAs
- 27 Which facility do the majority of pregnant women patronize most? 1) private facility 2) gove facility
 - 3) TBAS 4) Prayer house 5) I don't know
- 28 What things are usually done for pregnant women when they report for amenatal care in those places (DO NOT READ OUT. Tick all that apply)

	Services	Tick
n.	Healthtalks	+
b	Advice & Counselling	1
C	Weighing	
d	Blood pressure cheeks	
C	Urine testing	
c.	Blood rests	
t	l'alpating the abdonun	
y	Malana prevention treatment	
11	Tetanus immunization	
ī	Treatment of some illnesses	
J	Grying antenotal drug	
k	Diercise	
1	Others (specify)	

29. What can you say about the antennal services in this community generally?

(T30 (1/38)

1366	() () E I)	Ves	Nu	11 1 200
	Statements		. 10	1 Jan't kn
<u>n)</u>	Are the places available?			
151	An they ufficient fill the proper			
	the same shall tile te			
ds	Do you think the ir said to said the said the said to said the said			
	to these toly friend?			
1)	Do you think the places are close to the majority of			
g)	Are there expect the equipment and drug			

h)	In your opinion do they provide duality services?
i) j	the people?
j) What	other things can you say about the services? 1).
2)	3)

Section 4. Attitude to use of antenatal care

30 to each of the following questions I will read out to you, please state if you agree, disagree or undecided (READ OUT PLEASE)

A Most services tendered to mothers during antenatal care are of great benefit. B. Every pregnant woman should obtain attenatal for all her pregnancies C. Every pregnant mother should take ANC seriously. D. Those who feel healthy may register when it is convenient for them. E. Pregnant weaten should decide when and where she thay register for ANC. E. It does not matter when a pregnant mother registers for antenatal cure. G. A pregnant woman should register early for antenatal care only in her first pregnancy. It have registeration for ANC is not cost-effective. It is a risk for a pregnant woman to want for so long before she registers for antenatal care. I those who register late may not obtain most of the benefits of untenatal care. K. Only those who can alford it may register early for antenatal care. I have registeration for ANC can cause delay in gening help in time of emergency. I will advice my friend neighbor to register carly if she becomes pregnant. N. I will register after six menths if I am not sick. I will register after six menths if I am not sick. I will register after six menths if I am not sick. I will register after six menths if I am not sick. Whether a prephant mother registers early or not what will happen will happen will happen.		Statement	Agree	Disagree	Undecided
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Pregnant woman mother resisters early or not with		Lady construction should be a seen and the s			
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	10	will become will become			

Q	It is best pregnancy	lu	register	withm	the	first 7			• q ~
	pregnancy.					11131 3	nionths	of	
				-	-				

Section 5: Factors that Hinder early reporting

31 What things can make a woman book early? (DO NOT READ OUT, Fick as many as apply)

a leeding sick at the early stage.	11 Yes 2) No
b) Primigravida (first pregnancy)	1) Yes 2) No
e) Complication in previous pregnancy	1) Yes 2) No
d) Previous neonatal death.	1) Yes 2) No
e) I-ree antenatal services	1) Yes 2) No
1) If the woman is enlightened	1) Yes 2) No
g) If she has money	1) Yes 2) No
Others (specify)	

- 32 At what time could you say a pregnant woman booked late?
 - (1) 1-3 months (2) 4 = 6months (3) 7-9 months 4) 1 don't know
- 33 What things can make a woman book late? (DO NOT READ OUT. Tick as many as apply)

	Reasons	Tick
1)	Feeling of wellness (there is nothing wrong with me)	
2)	Lack of money poverty	
3)	Ignorance of benefits of early reporting	
4)	Multiparity	
5)	Laisez-faire (I don't cute) attitude toward antenatal care	
6)	Alternative options like the chemist/patient medicine vendors	
	and 18A	
7)	Dislike for hospitals (associating hospital with sickness)	
8)	Long watming time at internal clinic	
91+	Lang trekking distances	
	When health workers are not friendly	

11) Others (specify)

Section 6: Consequences of late booking 34 What in your opinion are the consquence of booking late! (DO NOT READ)

O11. Tick as many as apply)

	Statement	Tick
a.	The woman may run into trouble whose cause may have been detected early and prevented.	
b .	She may miss the opportunity of learning many things	
C	Some preventive measures like tetanus toxoid muy not be completed	
d	She may have hidden problems that may badly affect the baby e.g. HIV or jaundice	
e.	She may not plan well for delivery	
£.	Others (specify)	

Section 7: Ways to improve early honking

35 Please suggest the	different ways	women can be	made to star	booking early
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v.	NAMES OF THE OWNER OWNER OF THE OWNER O

APPENDIX: 3

IGBA NJŲ (QUESTIONNAIRE: Igbo version) HIT GBASARAEDI BENYEGIII ATIA S'OGE N'ETITI (MŲ NWANVĮ KA NATŲ IME NA ORPURI OCIIJCIIJ UDI. STETLI NUGU

Nkowa

Nine anani ekene Aha m bu Emily Okeke. Abu m nwata akwiikwo na Ngalaba na-
akwalire aby the na Mmyta. N'ulo akwakwo aby ike. Mahadum Ibadan Anam eme ibe
ommuni na nny ocha ichoputa ihe na ebula edebanyeghi nha n'oge maka ilekola ato inte
il che jimu nwanyi no Achoro m ka ijin eziokwa zaa ajiju ndi m ga aju the obula
izara banyere the omitimu a agaghi citide gi maka ya ma obu kwe ka onye ozo nu ya
Ozokwa, o hught no mnanje lowekwara ike ikujisi mgbe objila omasici gl
Fkenckwa m ozu.

Biko, obu mmasj gj isonye? (1) Omasji m (2) Omasjehi m Akala Aha onve olu ajųjų libyeli aby (deti) Elekele mmatire Hekere jkwiri Ubochi implu nwa llipeave Biko Jenve the mere. Kanve (/) ebe o dahum. Agha nke mbp: Nkowa hanvere mave Ary ole idi mghe i munu i wa ikpeazu 2 Alum di (1) Alghi m (2) Alum m (3) Any ghasari (4) Anyi escla (5) Ajada 3 Asusti (1) Peter (2) Haussi (3) Yoruba (4) Ndl ozo (ikowaa) 4 Okpubere chi (1) Onye uka (2) Onye alakuha (3) Onye ogo mmuo (4) Ndi ozo ((kowaa) 5 The ompradehere (1) Licehi akwukwo (2) Pralmon (3) Sekondin (4) Mahadum (5) Ndj 920 (rkowao) n Aka olu gi (kpui, ha ihe i na aly) 7 Aka yiy di gi (kewaa ihe y na aly) 8 I muoli unu ole i

Agba nke abuo: Agwa nwanyi banyere nlekota n'afo ime ikpeazu

9. Biko gwa m ihe bu ilekota afo ime.

	O bu ilekoja jimu nwanyi di ime na nwa ha bu n afo (1) fié (2) fié éé (3) Naj ozo (ikowaa)
J	10 Kedu ingbe idehanyere aha maka nlekota afo ane na ime ikpeasta gi? (kpoo- va).
	Il Gint mere qui debanye aha oge ahu? (ACLIPLTAKWALA, Kashie ndi
	dabanyere) (a) Ariara m orja (b) Q by ime nibu m (ch) Echere na oka n ina
	idebanye aha mgbe ahu (d) Ndi ozo (ikowa).
	12 Onye kpebiri kii idebanye aha mgbe ahu? (1) Onwe m (2) Di m (3) Mii ha di m (4) Ndi 1)zo (ikowaa)
	13 Olee che iniere ya? (1) Na nke goomenii (2) Na nke onwe (3) Ndi na cji ime n'udi odinala (1) Nd ozo (ikowaa)
	14 Gini mere njiri horo idebanye n'ebe ahu? (Kachie ndi danvere) (a) Q et in nso
	(1) l č (2) Éc-ce (b) Ndi olu ha tozum etuzu (1) Éc (2) Éc-ce (ch) Ego ha di alu
	(1) Ec (2)Éc-cc (d) Ha na-elekots unu nwany nke oma (1) Fé (2) Éc-ce (e)
	Aidi ozo (ikowa)
	15 Ugboro ote ka ijere nickora afo inte tuju imuo nwa
	(kwew20)
	16 ljezuru mgbe akunyere ya? (1) Fź (2) Řé-éé
	17 si ce ce. gini kpatara ya'a
	18 the dika n'onwa nke ole n'afo ime ha ka ntinu um uwanyi ndi obodo o ji
	edebatve aha maka nlekqta alo ime" (1) n'agbata onya mbu na onya ato (2)
	n'quive and rue con a 1811 (3) quiva asso rue oniva ileghete (4) Amaghi m
	19 Opekata muche dka unburo ole ka orung umu nwanyi di ime na cje nlekota
	afo une lugu ha amus nwa? (kwuwaa)
	20 He and agachi ya anya nke oma ingbe obla akanyere" (1) ingbe n'ile obula (2)
	mybe nile (3) ingbe μίφαψ (4) ismagh) m
	a nke aly: Aliy nu echiche hansere ka esí elekota afy ime n'ohodo a.
	21 Kedy mube kachasi inma idenye aha? (1) (niwa mbu rue o iwa alo (2) onwa ano
4	EL MONA INTERESTINATION AND AND AND AND AND AND AND AND AND AN

A42

- rue onwa isii (3) onwa assa ine onwa nephete (4) amaghi m
- 22 Opekuin mise ugboro ofe ka manyi kwesin ije tupu omno nua thulual
- 23 Kedu ka e a kwea ro no any di imega elezu ni keta uli une meje akaran a (1) make mile offul 12) make mile (3) make modu (4) and the m AFRICA DIGITAL HEALTH REPOSITORY PROJECT

24 Bike gwa m efele dom di na ilekota afo ime (AGUPÇITAKWALA, Kachie ndj dabanyere)

	Ncheputn	Akaru
a	() na enye uka na (mara snode na ka nwa siri noro pinfo	
ъ.	A nu elekuta ku nne na nwa di mgbe nile	
ch_	Nne na cuwe ohere niekota zuru oke n'afo une	
d	Noe no enweto mmuto aby ike n'orusy ihe	
9	Nine na enweta ndumodu na aagbam ume banvereike okwesiri ime na ndi nkwesighi ime	
f	Ana achoputa nria mle obula zoro ezo	
g.	Ana agha ogwa inghochi pfodu, finatu beny nje tetanus	
gh	O nu enyere nne na onye olu uhu ike aka ikwadebe maka	
थाः	Nue un atta oda un cuncta og mogno	
h.	Ndj 929 (kimaa)	

- 25 Own m che di che sche sunu nivanyi di ime na ejegasi enweta nlekota alo ime n'obodo ae (AGUPCI AKW M.A. Kuchie ndi dabanyere) (1) Ulo ogwu che juno niva nke onive (2) ulo ogwu che juno niva nke goomenti (3) ndi na-cji ime n'udi odinala (4) ulo ekpere (5) ndi ozo (ikowan)
- 26 Kwuputa udi nd enye nlekota afo ime n'ebe udi ahu (AGUPUTAKWALA Kachie ndi dabanyere)
- 1. Ulo ogwu/ebe imu nwa nke onwe (1) nanj ndj noosu (2) ndj noosu na ndj dokinta (3) ndt ozo (kwuwaa)
- July ognizi etie jinii nu nke goomenii (1) naul ndi noosu (2) ndi noosu na ndi dukinia (3) iidi uzu (kuunaa)
- 3 Nat wa-chi ime n'adi adinata (11 mant ndi noosa (2) ndi noosa na ndi dokinia (3) ndi oza (kwawaa)
- 4 (ho expere (1) man and noosh (2) and noosh na and dokima (3) and ovo

- 27 Kedu nke grutu pmu nwanyi kasi ele na ya? (1) Nke goomenti (2) nke onwe (3) ndi na-eji ime n'udi odinala
- 28 Kedu nke Othth janu nwanyi kasi eje? (1) nke goomenti (2) nke onwe (3) ndi na-eji ime n'udi odinala (4) ulo ekpere (5) aniaghi in
- 29 Q hu gini ka una emere umu nwanyi n'ebe nlekota ndi a? (AGUPUTAKWALA, Kachie ndi dahanyere)

	गुंद कराँ	Akara
11	Okwu ahu ike	
b.	Ndymodu na nghim um c	0
ch.	Nele ibu	
d.	Inyocha obara	
e.	Inyocha amiri	9
f.	Ilele ajo	
g.	Igbochi Igwo çıla iba	
gb.	Igba ogwu mgbochi nje tetamas	
gh.	lywo nija nija di iche iche	
h.	inye ogwu niekota ato nne	
k.	Imesipy and	
kp.	Ndj ezo (kowan)	

30 Ginj ka inwere ikwa abasara ka-esi elekota afo inie n'obodo a? (C.L'I'LITA)

	the nguputa	f.E	E ed	Amaghi m
а.	I hend a ha adi nso inveta?			
Ъ.	Ha its ezuru ndi in n obodo o?			
ch	ייי באריט חלון סוף ח כאב חלון ביי			
d.	leliere na ndj gly ha tozuru etozu?			
c	Nell of ha enwere ohi oma			
E	Tchere na che nd a di mo nive olutu nuninju?			-
8	Akara newa na ogwp ozuru uke na ebe ndi a			
gb	N'uche aka gi; ichere na ha n'enye nleta zuru oke?			
gh	lehere na odjej ojviv odj ninado nje ikujevu vikuo			
	niekom ali			

1-	Kedu	ihe	ndj	020	mwere	ikwu	banyere	ijc.	071	ha?	(1)	11.10000000000000000000000000000000000
(2)			ali.			(3)		****	CIE (*)	3000	

Agha ii) teamy: Akpara in agwa nye ilekota afo ime

31 Na ajujų obula ndi a m ga agupetara gi kwuputa ka ikwere, ikweglij, ma 9bu na ikpebibeghi (GCPUTA IIA)

Ekwere m	Ekweghtm	Ekpebighim
	2	
	28	
i		

	ike idebanye sha n'oge	
	debanyeght aha n'oge maka nlekota a nwere ike idoghacht aka elekere enyem aka azu maka o daa na mberede	
j.	Aga in adu enyi agbata obi in odu ka o debanye aha n'oge ma odiri inie	
k.	A ga m edehanye aha mgbe qgasifi quwa nke ish ma qhuru na ahu siri m ike	
kp.	ldebanye aha n'oge ga abu iwu diri	
kw.	Ma nwanyi di ime edebanyere aha n'oge ma odebanyeghi, ihe obula ga- enie ga eine	
L	Okachast mma idebanye nha maganta onwa nke ato	

Agba nke ise: Ihe ndi n'egbochi ije n'oge

32 (nni puru ime karnwanyi debinye aha n'oge? (AGUPUTAKWALA, Kachio ndi dahanyere)

a. Iria oria in malite afo une	(1) Gé (2) Gé-28
b Altimemby	(1) 1:6 (2) 1 6-28
ch Odachi n alo ime gara nga	(1) दिहें (2) है है है है
Onwh und u.oge ata aga	(1) Éé (2) Ge-स्टे
e lickou ato ime n'efu	(१) हिर्द (२) १ हे स्ट्रे
L Na spar in in which springs are our	(1) Éé (2) Le èé
g Ma uturu na o nwere ero	(1) हिं (2) हिंदेरे
Ndj ozo (ikowas)	

- 33. Kedu mgbe I gasi na nwanyi di ime edebanyeghi aha n'oge? (1) onwa mbu rue onwa ato (2) onwa ano rue onwa isii (3) onwa asaa rue onwa iteghete (4)amaghim
- 34 the ndi glas ga-eme ka nwanyi ghara idebanye aha n'oge? (AGUP(TAKWALA, Kachie ndi dabanyere)

	The nivere ike ibuta ya	Akara
1.	() djka arti esiri m ike	
2.	Uko ego ogbenye	
3.	Amaghi usu di na ije n'oge	
4.	Onye tuwora înte otutu ugharo	
5	Ejighi ilekota alo ime kporo ihe	
6_	Inwe ebe ndi ozo dika ndi na-cre ogwa na nd ogwa igbo	
7.	Enweght mntast n'ulo ogwu	
8.	Oke igbu oge n'ebe nlekota	
4,	Ogologo ije	
10.	Ndj glu ahu ike enweglij obi oma	

11. Ndi ozo (ikowaa)

Agba nke isii: Ihe na-adaputa n'edebanyeghi aha n'oge.

35. N'uche gi, kedu ihe ichere nwere ike idaputa n'edebanyeghi aha n'oge?
(AGUPUTAKWALA, Kuchie ndi dahanyere)

	The neurons	Akara
a.	Number of the thinks no nooghu akara jehoputa ma ghochie	
	n'oge	
b	Observ intula ofuto the inversity is a	
ch	Enwere ike o gaghi ejezu usoro mgbochi oria ufodu dika nke nje	
	(elimin)	
<u> </u>	Onwere the nive una zoro ezo nivere the imetala niva nice ofo,	
	imply, me HIV ma oby the ocha n'anya	
¢	Onwere the maya envela est nkwadebe maka (mumu nwa	
1		

f. Ndi ozo (ikowaa)

Agba nke asaa: Çzo mezi idenye aha n'oge 36 Biko cheputa ottitu tizu isi mee ku imu nivanyi bido bia elebanyebe aha n'oge 1. 11. 111. IV. 1.

APPENDIX: 4

FGD GUIDE (English version)

FACTORS ASSOCIATED WITH LATE REPORTING TO ANTENAL VE CARE AMONG WOMEN OF CHILDREARING AGE

Good day. My name is brilly Okeke. I thank you all for agreeing to take part in this discussion. I will be moderating our discussion today. This discussion is a research work that intends to find out some vital information on pregnant mothers and use of antenatal care services. During this discussion, no views expressed by any participant will be judged right or wrong and everybody is free to express her views on any issue pertinent to the topic. This discussion will remain completely confidential and will only be used for the purpose of the research project. Thank you for your cooperation.

- Please, tell us how pregnant women in this community take care of their pregnancy Probe
 - 1. The different places where they go to get care,
 - 11 Different types of services rendered to them in those places
 - in Types of personnel who render services in those places:
 - Which of the places women patronize most;
 - Why has most patronized.
- 2 Tell us why it is important for pregnant women to get antenotal care Probe
 - the benefits of getting antenatal care,
 - 11 Consequences of not getting antenatal care,
 - in Benefit of seeking untenneal care early in pregnancy,
 - is transequences of seeking untenatal care late in pregnancy
- Let us discuss how pregnam women in this community utilize these animatal services. Probe
 - multipr sick women with problems, etc.
 - At what stage in their pregnancy the majority of women begin to cele care i.e. when the respontly book for amenatal care: 1... 2nd or 3... three manths

- in. How many visits they make before delivery,
- iv frequency of the soul.
- v. Which one of the pregnancies care is sought most and why
- 4. Talking about early and late booking for antenatal care, which time is considered early and which time is late? Probe
 - i. What things would make a pregnant woman book early?
 - ii. What things could make her book late?
 - in Which is better, early or late booking? Why?
 - in the what was a cult women be more to book early for anterplate and
- What is the possible problems women encounter by reason of their being pregnant
 - Who assumity decides where and when a pregnant woman should back for antenutal care in this community? Probe why?
 - T. What difficulties do women encounter while using the antennal services community?

 Probe:
 - 4 Availability of health facilities
 - ii. Accombility
 - in: Affordals lity
 - av Assistate of one providers
 - 8. Suggest ways of oversoming each of the problems that were mentioned.

APPENDIX: 5

FGD GI IDI (Igho version)

NCHİKQTA NKETHE DETCHEJCHE N'AKPATA NA ÇALÇAWANYEKA NA-AME NWA ANAGHI EJE N'OGE EDEBANYE AHA HA MAKA NLETA AHETKE OGE HA DEIME

Ndl banyl ekence ni unu. Aham bu limily Okeke likenee m unu. 620, n'ihi na unu kwenyere iso mee ntughan uche nkea. Mkpalita uko nke myl ga-eme lighua hu myocha na ntule nke anyl n'eme banyere umunwanyl di ime na uru y bara na ha jere n'oge debenye aha n'ebe di iche iche ana eleta ha na awa ha bu m'alik unya.

Mgbe unyi n'eme mkpalite uka ukea, unye ubula nwere ikike ikwu ihe bu uche ya. N'otu akaahukwa, odighi echiche obi nke unye objun agast na ozighi ezi m'obu na o kasi mma.

Biko, the mine nke my i ga-akpa ubught the aga eji wee mere akuku n'okpolo uzo. Nant the m g'eji ha mee bu ide edemede maka nyoelia na nchopuju nke anyi ji n'aka ugbua. Ekenee m uju n'ihi aka unu nyelu in ikpokoba mkpalita jika nkea.

- 1. Biko gwakene anyi etu umunwanyi di ime n'ubodo a si akpachapulu onwe ha anya mgbe ha bu afo ime Nyocha nke oma:-
 - Ebe a che la na-uga ku cleia ha anya-
 - if Lidingers any a in the engernal of the telle and enge han'ebe ndia ga.
 - in Idi ndi viu enwegalu n'ebe ilhu n'enye uniunwanyi ndi inleia abu ike a
 - N'ime ebe ndi ahu gasi, kedu ebe nke umunwanyi ndi di ime naejekanaricha?
 - Gial mere hunminanal di elepanantei epe urea i khoto upa
- 2 (makene any) the f chere of di ske mkps na sga eletariti umunvany) di une ahu tupu ha amuq nwa Nvuchan nke oma:-
 - I tu di ii tleta niv da) i di ime aliu tupu o mito inva
 - The oghom nwere the Idakwasi nwamy nke n ejeghi nictu ahu. The tupu o

- the invanyi di une na-erna in obibli na o jee n'oge ka eleta ya ahit jupu o
- the option na-adakwasi nwanyi nke n'amaliteghi jee debenye aha ya n'oge maka nleta ahu ikea ingbe o ka di ime
- 3 Ka any i kpalitakene uka banyelu etu umumwanyi di ime n'ogbe a si ejetadebe nyabu nleta ahu ike tupu ha ana muo nwa. Nyachaa uke oma:-
 - Kedu udi ununwanyi di sehe iche di une na acho nleta ahu ike o bu ndi une nke inbu ha. ma o bu ndi ime one m'one, o bu ndi n'enwe nsogbu ahu ike. ni o bu nsogbu obuna?
 - ii. N'onwa ole ha di ime ka otutu n'ime umunwanyi ndia it umalite ije nleta alju ike? O bu n'onwa nke mbu, ka o bu n'onwa nke atu etc.?
 - Lighele ole ka ha n'eje maka nietea tupu ha amuy niva"
 - iv Ha n'ejechikwa anya in'ohu jezue nletea etu ndi na eleta hu aliu ike si nye ntuzi aka tupu ha amuo nwa?
 - W' ime nke one ka jimpiwanyi nachwekalicha masi ije ka eleta ha anya?

 Gini kpatara oji di eju a?
 - I kwube mgbe nwanyi di ime kwesiti iji je dehanye alia ya n'ebe ana eleta ha anya.
 ole mgbe enwere tke isi na o jere n'oge, olec oge hu na o jeghi n'oge? Nyuchaa nke
 - Kedu the invegious the ime inventy of time k'ojee debanye aha ya n'oge?
 - Keshi die nwegasikw ru ike inse ka-ogham ejena nyahu ndehanye aha
 - mere nke i kwuru ji kara mma
 - Kedu the ole ma ole tiwere (ke ime ka hwan) | di tine jere n oge dehanye aha ya maka nlete ahu ike?
 - del nyebe sha ha n oge ma ha di me?
- 6. Noghe a kedij onye obu karjaj olij ya ikwij che, n'oge, nwavi di itne kwesiri iga denye aha n'ulo ogwu maka ilete ya ahu tupu omuo nwa? Kedu ihe ojiri di etu ahu?

7 N ogbe a kedn the bu oghata ulite til e timany my di me na agabiga n'ije ulo ogwu ka efeta ha anya tupu ha amyo uwa Nyachua nke ojua:-

- i. Ebe ana elitagasi ha anya adikwali adi n'ogbe a?
 - Kedu k'o i di nte in obu rati ahu i jiegide nie ebe iliu ga?
 - iti Aka ndj umunwanyi choro ya ano elukwa ya'?
 - ka elere ha ahu

8 Tuny ekene elo (vo d) iche che cliere agha en gboch e ogbato uhie ndja

Tkelce m unu. Dalung.

APPINBIX: 6

KEY INFORMANT INTERVIEW GUIDE FOR ANC PROVIDERS IN HEAT THEISTITUTIONS

Good Morning Ma Sir. My name is Emily, C. Okeke from Department of Health Prontotion and Education, Faculty of Public Health, College of Medicine, University of Ibadan. I am conducting a research on the above topic. You have been considered for this interview based on your position and services you render to mothers in this earninumity. I request you talk to me about women's use of ANC services based on your experience. I am also interested in the factors that contribute to women's late reporting for care during pregnancy. I assure you that all information you provide will be treated with intmost confidentiality and will be used for the purpose of this research only. Your name and address are not required, thank you. Please note that participation is voluntary and you may withdraw at any stage you wish. Thank you.

Type of health worker (tick (v) one)

1 Nurse Midwife till CHEW (Snr Jnr.)

in Doctor (iv) 18A

Type of Health Facility (tick (x) one)

- Government hospital health centre
- 11 Private hospital clinic
- iii lead tional delivery home

thow hong in years have you been providing intenstal care to women in this community?

- 1 Please, tell us about antennatal cate
- 2 May we know the importance of antenatal care? Probe for consequences of not getting the care
- 3 Let us discuss how pregnant women in this community use antenatal care services generally

Probe

- 1 Which places are they geiting aniematal care?
- a At what take in their pregnancy do they often report or book
- III How many visit do the majority make before delivery?
- What is the frequency of vient
- What is the min mum number of visits required.

- What eategories of women seek antenutal care?
- vii. In which of their pregnancies seek care most?
- 4 Looking at early and late booking, which time are women said to have booked early and which time is regarded as late?
 - a) What things could make them book early?
 - b) What things could make them book late?
 - c) What are the consequences of late booking?
 - d) What in your opinion are the benefits of booking early
 - c) What are the complaint women give when they book carry
 - S. Please, let us hear the different types of antenatal services that are rendered to women in your health facility.
 - is. What can you say about the antenatal services in the accommunity?

Probe.

- i. Are the services available:
- a. Are they affordable?
- iii. How accessible are they?
- iv. Are they sufficient? Etc.
- 7. Who assually decides when and where a pregnant woman should get antenatal
- K. How could women be made to start booking early for antenntal care?
- 9. What problems to women encounter generally in the course of using antenatal services of this community?
- 10. No. of plays of and ing each of the problems mentioned above?

Thank you for participating

APPENDIX: 7

KLY INFORMANT INTERVIEW GUIDE (Igho version) KLY INFORMANT INTERVIEW GUIDE: FOR ANTENATAL CARE PROVIDERS IN HEALTH INSTITUTIONS

Aham hu Emity Okeke. Esim nu ulo akwukwo nke Mahaduni Ibadan, ngalaba nke ndi na akwalite ahu ike wee bia. Anam etne nchoputa na ntule gbasara nleta a n'eleta (miunwany) di nne hu nke akporo aniensial care n'oyibo. Site na amamihe anu, orodu unu n'etiti ndi madu n'ezi nimeso unu n'emeso ndi nne n'etiti unu n'ogbe ai enwerem nkwenye na miukwasi uhi n'unu ga enyere ni ezigbo aka n'Olu nchoputa a ni n'eme n'ogbe unu. Ya mere unu nnemejim obi nile wee no unu ka unu gwa mihe nile unu mara ghasara ulu ndi nne na-etite site n'olu ndi n'elete maka ahu ike na odi nima umunwanyi ndi di ime n'alu n'etiti unu. O ga-aso ni nke ukwuu isite n'aka unu mata ihe kpatara umunyanyi di ime ji egbu oge nke ukwuu tupu ha eje denye aha ha n'ulo egwu maka ile hu ahu mgbe ha di ime. Ekwe ni ngu nkwa, na ihe nile nke m na unu ga akpa eba, enweghi nke aga-eji kpa nkaia n'okpolo uzo, kama aga ni eji ha wee dee edemede nehoputa a mbagidere. O dighi mkpa I gwam aha gi m'obu ebe I bi. Onweghiliwa iwu bagidere gi ma l'ehoghi isonye anyi na mkpalita uka a m'ohu na thaputu anyi jebere onwe gi mgbe soro gi oge osoro gi.

l gbua k'any malite uka any p

Kedy jid onve olu aliy ike nie I by? Kedy udj plo ogwij I na-alij olij ahij ike nke o?
Alo ole k'ilagolu olu ileja umiyawanyi di ime n'obodo a?

- I Biko gwakene anyi ghasara rleia umunwanyi ili une il'ojasho a
- 2 Kowakenely myr ulu o bara awanyi di me ije ka elete ya a'ay Nyocha nke oma: Qghoni diri onye n'ejeght nlew ahu a
- 3 Ka anyi tugharia uche ka umunwanyi di nne n'obodo a si ejegasi nnyocha anti a tunu ha a muo nwa ha. Nyucha nke oma.
 - Olec ebe di rele-relie ha na anata nieta ahu a?
 - Kedu o je kaji eje maka idekuije aha izizi n'eke nleja ahu a
 - l ghoro ole ka or mu n'ime ha n'eje nleia ahu ike a tupu ha a miyo non
 - W Olec usom liu ji eje nicia nhu a

- Opekato tipe, ughoro ole ka elere anya na awanyi di ime ga eje niaka nleja ahu ike a tupu o mjo nwa ya?
- Kedu unjumanyi digasi di mie n'eje maka nleta ahti ike a?
- N ime afo inie nke ole ka ha na ejekuljoj nleta ahu ike nkea?
- 4 1 lee anya n'oge nwanyi ji eje edeba aha kedu ingbe a ga asi na o jere n'oge. in'obu na ojeghi n'oge'
 - Kedu the ndi nwere the time ha ejee n'oge debanye aha maka ile ha abu?
 - Kedu ihe ndi nwere ike igbochi ka ghara ne debanye alia ha n'oge?
 - in Kedu oghom dj n'ejeghj debanye aha n'oge?
 - N'uche gi, kedu ulu di n'idebanye aha n'oge?
 - Kedu the inkpesa uniunwany) adja debanyere aha n oge njekpesa n'ihi na ha debanyere aha ha n'oge?
- 5 Bika gwakene anyi udi nleta ahu di iche-iche unu n'enye umumwanyi n'ede nleta
- 6 Kedu the Inwere ikwu maka udi nieta di iche-iche enwere n'obodo a Na ochua nke
 - The adjahu kwesjij n'aga en e ma o bu n'aga entere ho. o di adj?
 - D burn na the adta di onu ego ha abukwa nke aka umunwanyi ahu ga enwe ike
 - Kedy ku osrdin umunwanyj a nie. m'obu siere ha ike. ije ebe użo aby ike ndjo
 - the any the nature of any one of the military of the physical choly ya?
- 7 Once na ckpeh make na eke nwan) di une na eje maka ezi nleta ahu. (mij kpatara ya
- 8 Kedy ka igo eu mee ka umunwan) di ime hido jebe n oge ga jdenye alia ha muka
- 9 Kedu ogbata ohie diej omonwanyi di ime mika na ha na eje ebe di iche ich i anata nyaéha ahu ike u obodo
- 10 Kedy ka gale s boebse og bota uhtendja I gypytura

likelee m unu. Daty ny.