ABSTRACT
Maternal health information is a fundamental building block of women’s health during pregnancy, childbirth and the postpartum period. Despite numerous global concerns and interests in maternal and child health care, there are still unmet maternal information needs of women. Women tend to be given inadequate information, education and communication and as a result, the number of women dying during childbirth is still unacceptable especially in developing countries. This study was aimed at exploring maternal health information needs of women by reviewing literature from several sources published in English between 2000 and 2017. Specifically, maternal health information needs and the challenges in meeting those needs were investigated. The results of the review indicated that women require maternal health information at three stages: during pregnancy, childbirth and postpartum. During pregnancy, women need information on importance of regular checkups, place of delivery, birth preparedness, pregnancy period, nutrition, miscarriage, pregnancy complications or danger signs, sexual and family relations, fetus development, expected child, TB, HIV and malaria in pregnancy, medicines in pregnancy, family planning, and exercise. During childbirth, women, according to the findings require information on infant care, child immunization, infant feeding, maternal recovery, hygiene, premature birth, low birth weight, infections, umbilical cord care and diarrhea. Information on self-care (hygiene, nutrition, weight loss); sexual relationship; daily care of infant, house and family; emotional support, physical rest and sleep is important during postpartum period. Some challenges that prevent women from receiving or seeking maternal information include illiteracy, poverty, distance, language barrier, inadequate services, lack of information, inadequate human resources, poor attitudes of health workers towards women and cultural practices. The paper concluded that maternal health information has significant influence on the health of the mother and the newborn child. Therefore, health practitioners should intensify efforts to meet the maternal information needs of women.

Key words: Public health, preventive care, maternal health, maternal mortality, child mortality, women’s health, information needs.

INTRODUCTION AND BACKGROUND
Maternal health is critical for women in any given society. Women are the foundation of many communities (Christian Blind Mission, 2012). Research has shown that improving women’s health and increasing their income and education, is the best way to positively impact a community. Any such program directed towards women will fall short if there is inadequate health care. Maternal health refers to the health of women during pregnancy, childbirth, and the postpartum period
Maternal health prevents death, complications or disabilities. Prevention is better and more cost effective than cure, it is taking into consideration the incalculable costs to families, communities and service providers such as break ups, lack of education for children, marginalization, loss of income, and even loss of life (Christian Blind Mission, 2012). Good maternal health is an economic investment. A healthy mother can be highly productive and contribute to the well-being of her family and community. Poverty increases at the family level when a woman is sick and cannot work. Consequently, less money is available for health care and education of the children, which in turn may have an impact on the greater society. Increasing access to maternal health services will help ensure that women remain vital participants in the economic well-being of their country.

Maternal mortality, which is deaths due to complications from pregnancy or childbirth (UNICEF, 2015), is another health problem facing women worldwide. Maternal deaths are the second biggest killer of women of reproductive age (WHO, 2013). Almost all (99%) of the approximate 287,000 maternal deaths every year occur in developing countries (WHO, 2013). These deaths could be avoided if preventive measures were taken such as access to health information particularly during pregnancy, childbirth and postpartum period. Up to date, maternal mortality rates are one of the major health concern worldwide. According to Africa Progress Panel (2010), approximately 536,000 girls and women globally die every year from pregnancy-related causes – one girl or woman dies every minute in childbirth around the globe. Closely 50 per cent of all maternal deaths in the world happen in Africa, which has only 15 per cent of the world’s population. Almost half of these deaths occur in Sub-Saharan Africa. The four major killers are: severe bleeding (mostly bleeding postpartum), infections (also mostly soon after delivery), hypertensive disorders in pregnancy (eclampsia) and obstructed labour. Complications after unsafe abortion cause 13 per cent of maternal deaths. Globally, about 80 per cent of maternal deaths are due to these direct causes. Among the indirect causes of maternal death (20 per cent) are diseases that complicate or are aggravated by pregnancy, such as malaria, anaemia and HIV. Women also die because of poor health at conception and a lack of adequate care needed for the healthy outcome of the pregnancy for themselves and their babies. (Africa Progress Panel, 2010).

International organizations and individual governments have recognized the severity of the problem and have made commitments to reduce the number of maternal deaths globally. For instance, good health (Sustainable Development Goal number 3) is at the heart of the 2030 Agenda for Sustainable Development and essential for the success of all other SDGs. According to the United Nations Development Plan, our health affects everything from how much we enjoy life to what work we can perform. Thus, the goal is aimed at ensuring healthy lives and promote well-being for all at all ages. Zambia has also made significant strides in reducing maternal deaths. Maternal deaths reduced by about 54 percent within the Millennium Development Goal period from 729 deaths per 100,000 live births in 2001 to 398 per 100,000 live births in 2014 (Zambia Demographic and Health Survey, 2007). For instance, Eastern Province of Zambia alone recorded 92 maternal deaths in 2016. As at 4th August, 2017, the province recorded a total cumulative number of 47 maternal deaths.

Though the progress made to reduce maternal death is commendable, the number of women dying of maternal issues is still unacceptably high as no woman should die while giving life. There is need to find alternative solutions to the problem. One of the solutions is to empower healthy
women with adequate maternal health information and knowledge. This can only be possible if the maternal health information needs of women have been well understood. Information need is the recognition that one’s knowledge is inadequate to satisfy a goal and it is considered to be the foundation of information seeking behavior. Maternal health information refers to information women require during pregnancy, childbirth and postpartum period. It also implies knowledge communicated or received concerning particular circumstances of preventive, curative or palliative health care (Salali and Owino, 2016). The role of information to women and their information needs is innumerable (Mumba, 2015). Globally over 80% of community households have limited access to effective, reliable, efficiency and quality maternal and child health information, especially in Sub Saharan Africa, and depends solely on health professionals and community health workers (Salali and Owino, 2016). For instance, Kasote (2015) argues that women lack information and knowledge on danger signs and complications during pregnancy and after delivery. Additionally, many pregnant women do not deliver with the help of a trained clinical provider simply because they lack knowledge about why doing this is important (CHAMP, 2017). For instance, in Zambia, however, only 47% of births are attended by a skilled health worker at a healthcare institution. Majority of pregnant women attend antenatal care very late and many do so only once thereby limiting the quality of care received (Owusu-Addo, Owusu-Addo, and Morhe, 2016).

Maternal health information is a fundamental building block of women’s health during pregnancy, childbirth and the postpartum period. It can provide an opportunity to identify existing health risks in women and to prevent future health problems for women and their children. Decisions about how best to meet the information needs and provide timely care and support to maternal issues among women should be of paramount importance to health practitioners. An indispensable step in this process is to understand the maternal information needs of women so as to design appropriate health promotion interventions that would meet their health information needs and build their health literacy so as to improve maternal and child health outcomes.

Investing in maternal health is a wise health and economic policy decision. Women are important economic drivers and their health is critical to long-term, sustainable economic development in Africa. Women are the sole income-earners in nearly one third of all households globally. There are spill-over macro-economic benefits from the women whose lives are improved by maternal health interventions. Investing in maternal health improves the health systems overall, which benefits the entire population of society. In most cases, information is disseminated without understanding the needs of the users, or the contexts in which they can access and use the information. Many information systems exist to provide information to the poor that are not demand driven, overlook local knowledge, misunderstand the role of intermediaries and do not monitor usage (United Nations Development Programme, 2003). It is against this background that the study sought to investigate maternal health information needs of women as studied in literature.

**Statement of the problem**
The world at large has made remarkable progress in improving access to some basic services and formulating health policies and strategies as well as implementing mechanisms. However, these efforts have not been translated to a significant improvement in the maternal health status of women. Far too many women are still dying while giving birth due to unmet maternal information needs of women. This is largely due to a number of unmet information needs among women
including proper understanding of pregnancy stages, infant feeding practices, nutrition, labour and birth and postnatal care (Owusu-Addo, Owusu-Addo, and Morhe, 2016; Grimes, Forster and Newton, 2014). Women tend to be given inadequate information, education and communication during and after childbirth (CHAMP, 2017; Kasote, 2015; Tsawe and Susuman, 2014; Africa Progress Panel, 2010). They hardly access the ‘right’ kind of information as in most cases, the information is inappropriate to meet their needs, either in content (e.g. it does not reflect their reality) or in presentation (is not in their language familiar to them). Thus, the number of women dying during childbirth is still unacceptable especially in developing countries. Additionally, to date, most studies on information needs focus on one part of maternal health: pregnancy. The complete range of these information needs and the extent to which they are being met are not known (Agency for Healthcare Research and Quality) from pregnancy, childbirth and postpartum. To fill this gap, this study was designed to examine maternal health information needs of women at these three stages.

**Study objectives**

The general objective of the study was to establish the maternal information needs of women. Essentially, the study had two specific objectives:

i) To ascertain the maternal information needs of women, and

ii) To find out the factors that affect women’s access to maternal health information

**Significance of the Study**

Policy makers, providers, and health care workers are expected to base their decisions and practice on the best evidence available. This study may provide new insight on the maternal health information needs of women so that these needs can be adequately met. Additionally, it is hoped that the findings of this study might be used to provide efficient information delivery programs to women during pregnancy, childbirth and postpartum. This research is further intended to complement the efforts of maternal health advocates in government, civil society and the development community by making the case for why urgent action to meet the maternal health information needs of women must be a top priority for information providers as well as health practitioners.

**METHODOLOGY**

The study was a review of literature from several sources published in English. Literature in other languages other than English and published before 2000 were not included. The sources included peer-reviewed journals, theses, and consumer studies both in print and electronic. A number of databases were also searched including Sage journals, ScienceDirect, BMJ journals, BioMed Central Medical Education Journal and Journal of Medical Internet Research using a range of search terms to retrieve literature relevant to the aims of the review. Relevant search terms were used to retrieve needed information. The study looked at published literature between 2000 and 2017 from the global, African and Zambian perspective.

**FINDINGS**

**Maternal information needs**

*Information needs of women during pregnancy and childbirth*
Pregnancy is a special time when the need for information is great (Hämeen-Anttila et al., 2013). According to Slomian et al. (2017), pregnancy and childbirth are two critical stages in a woman’s life. Complications associated with pregnancy and childbearing are the leading causes of death among teenagers (WHO, 2014). Many studies have looked at the information needs of women pertaining to maternal health at global level (Das and Sarkar, 2014; Larsson, 2009 and Gao, Larsson and Luo, 2013), Africa (Adam and Lasisi, 2011; Nwagwu and Ajama, 2011; Ogunmodede, Ebijuwa and Oyetola, 2013; Anya, Hydara and Jaiteh, 2008; and Zambian level (Mumba, 2015; Banda, 2010; and University Teaching Hospital, 2010). The results of these studies demonstrate that women require information on nutrition for safe delivery and child health as well as during postpartum period, pregnancy complications, sexual and family relations, fetal development, childbirth (e.g. mode of delivery, stages of childbirth, pain and pain relief, stories about giving birth, hospital choices), the expected child (e.g. products for mother and baby, breastfeeding), chat forum; and parental benefit, antenatal care, exercises during pregnancy, infant care and infant feeding, and maternal recovery.

According to WHO (2009), another vital area where information was lacking concerned the relationship between TB and pregnancy. WHO argued that up to 70 per cent of deaths due to TB occurred during the childbearing years. The lack of information on diagnosis of TB in pregnant women, on the effects of TB on the health of the mother, fetus and infant, on the complications of treatment, on barriers to treatment, among others, may result in difficulties to diagnosis and manage TB in pregnancy. Commonly held beliefs among women, such as that pregnancy increased intolerance of TB drugs or made them ineffective, have been linked to women interrupting their TB treatment when they became pregnant. WHO submitted that women were entitled to appropriate information and services in connection with pregnancy and granting free services where necessary.

Onuoha and Ikonne (2013) found that women faced major problems during pregnancy including vomiting, lack of appetite, headaches, fear of labor, miscarriages, complication, and hemorrhage. The study concluded that women should be adequately informed on these challenges in order to avoid adverse birth outcomes. Owusu-Addo, Owusu-Addo, and Morhe (2016) in their study on Health information-seeking behaviours among pregnant teenagers found four dominant information needs: identification and disclosure of pregnancy, nutrition, labour and childbirth and safety of the unborn child. In terms of pregnancy identification and disclosure, participants in their study indicated that they were not aware of being pregnant. Pregnancy identification had to take another person and upon knowing their pregnancy status, the next dilemma had to do with how to disclose it and the possible outcome thereafter. Advice on proper nutrition was a central subject that the participants indicated in the study. All the participants indicated that they had never asked a question on what to eat or what not to eat during pregnancy. Participants acknowledged that a healthy diet was essential for their health but were unsure of the kinds of foods that they should eat. Largely missing in their accounts on nutrition was the effect of what they eat on the unborn child, and information on infant feeding practices.

Information on labour and childbirth was said to be very essential to pregnant teenagers. Across the focus groups and individual interviews, participants noted that they were not adequately informed about pregnancy related issues and expressed the desire to know more about pregnancy
and its complications. Among participants who complained of pains which they suspected had something to do with pregnancy, there was a felt need for information on normal and abnormal symptoms of pregnancy. Information on pain associated with labour was also a priority for the participants. Generally, participants felt unprepared both physically and psychologically for labour. One participant noted that though she had been informed by the midwife regarding the items required for childbirth, she would like to know more about what to expect during labour. Focus group participants consistently expressed a desire for practical tips and strategies to assist them, adequately prepare for labour and childbirth.

How to take care of the unborn baby was a primary concern of the pregnant teenagers. Most of the participants indicated that they did not want anything untoward to happen to their babies so they were particular about their sleeping postures/positions and their personal safety. All the participants indicated that they had limited knowledge about how to keep themselves and the infant safe during pregnancy and expressed the desire to know more on this subject.

Studies done in Nigeria by Ogunmodede, Ebijuwa and Oyetola (2013), Saleh and Lasisi (2011) and Momodu, 2002 revealed that women require information on ante natal and post-natal care, immunizations especially on the six killer diseases, how to prevent and manage Vascular Virginal Fistula VVF, and how to safely deliver pregnancy. Hämeen-Anttila et al. (2013) conducted a study on medicines information needs during pregnancy of women at multinational level. It was concluded in this study that women need information about medicines during their pregnancy. Further, studies reveal that environment cleanliness, family planning and emotional support (Onuoha and Amuda, 2013) are also important information needs of women during pregnancy.

**Postpartum**

Postpartum period is the 6 to 8 week time period beginning an hour following the birth of the fetus and expulsion of the placenta and reflects the approximate time required for uterine involution and return of most maternal body systems to a non-pregnant state (Fahey and Shenassa, 2013). The postnatal period is associated with many new needs for mothers, and several studies have demonstrated a great need for information after childbirth (Slomian et al, 2017). This is a time of significant transition for women because in addition to the physiologic changes associated with the postpartum period, a woman undergoes marked psychosocial changes as she transitions into a motherhood role, reestablishes relationships, and works to meet the physical and emotional needs of her infant and other family members. It is a time when women are vulnerable to health problems directly related to childbirth and to compromised self-care, which can manifest in the development or reestablishment of unhealthy behaviors such as smoking and a sedentary lifestyle (Fahey and Shenassa, 2013).

According to Slomian et al (2017a), in their literature survey noted that a number of women during postpartum look for reliable and realistic information and want to be better prepared for the realities of motherhood (especially women having their first baby). Some have anxieties and fears around early parenting and their changing roles. Women also need information about the safety of their new baby, and they lack self-confidence as new mothers and in their own ability to care for their baby. They also need information that can emotionally support them in this transition to parenthood. However, Slomian et al’s (2017b) study revealed four categories of mothers information needs after childbirth: need of information, need of psychological support, need to
share experience, and need of practical and material support. They contend that women do not feel sufficiently informed about this difficult period of life and do not feel sufficiently supported, not only from a psychological point of view but also from a more practical point of view, for example with household chores. They need to share their experience of life, they need to be reassured and they need to feel understood.

Ohlendorf, Weiss and Ryan (2012) did a study on weight-management information needs of postpartum women. The study revealed that women seek weight loss information. According to the study, majority of the participants indicated that they received no information from healthcare providers by 4 months postpartum. The most frequently reported desired information topics fell under the category of specific strategies to lose weight. Provision of high-quality information can provide the foundation for successful weight-management support for prevention of gestational weight retention and long-term maintenance of a healthy weight.

Other studies found that women required information and education on common postpartum health problems including abdominal pain, backache, headache, fever, dizziness, vaginal discharge, fatigue, dysuria, constipation, heart palpitations, abnormal vaginal bleeding, breast problems, oedema, incontinence and faecal incontinence (Lagro et al, 2003).

**Barriers to maternal health information access**

Information on challenges is particularly important in understanding and addressing the barriers women face in accessing maternal health information. From the literature reviewed, there are a number of challenges women face to access maternal health information. One of the challenges is **low levels of literacy** (Parker, Ratzan and Lurie, 2003; Mulauzi and Albright, 2009; Gazali, Muktar and Gana, 2012; Mumba, 2015; and Salali and Owino, 2016). There studies revealed that illiteracy levels for women world-wide were disturbing. Education, either for degree or training for knowledge and skills enhancement affects the information needs and seeking behavior of individuals. Thus, women with education are more likely than the illiterate to access maternal health information.

The studies above also affirmed that **language barrier** was a big challenge for women to effectively access and use maternal health information. Most information is presented in languages unfamiliar to women. For instance, Glenton (2000) found that the use of medical terminologies by the information source or provider which might not be understood by the information seeker was a barrier to information access. Further, the primary language in which most information was presented acted as a barrier to women’s access to maternal health information. Most information from Television, radio, birth plans and books is presented in English, thereby excluding those who do not understand English. Many women in developing countries do not know how to read, write or speak English (Mulauzi and Albright, 2009). The study by Mumba (2015) also revealed that some nurses could not explain certain issues in the local language in order to help the women to understand the issues better.

**Poverty** has been widely recognized as a barrier especially among women globally to access information. According to Health Poverty Action (2015), poverty and poor health worldwide are inextricably linked. Poverty affected more women than men. Primo (2003) ranked poverty as a number one problem facing women worldwide. Globally, the causes of poor health for millions of
women globally are rooted in poverty which is both a cause and a consequence of poor health. Poverty increases the chances of poor health among women. Because of poverty, women are mostly deprived of the information, money or access to health services that might help them prevent and treat disease. Many women lack disposable income (Yiran and Teye, 2015; Mulauzi and Albright, 2009) to pay for information access because they give more attention and higher priority on household needs such as food, health, education and clothing other than information (Mulauzi and Albright, 2009). They can also hardly afford to pay the cost of doctors’ fees, a course of drugs and transport to reach a health centre because they earn little or no income.

Furthermore, since access to most information and communication facilities is far away, and because of the multiple roles and heavy domestic responsibilities, mobility, distance and time tend to be some of the barriers for women to access and use information sources and channels. Time is a significant context in information seeking as in most cases, it is a scarce resource for information seekers. Ignorance or lack of information and knowledge on many maternal issues is wide spread among many women. For instance, they not only lack information on sources and channels of obtaining relevant information but also on existing abortion laws including their rights and obligations to access information. This in itself is a barrier for women to seek information.

**Inadequate services** and **human resources** were found to deter women from seeking maternal health information by Mumba (2015) and Yiran and Teye (2015). Additionally, pregnant women in Mumba’s (2015) study complained of **poor attitudes of health workers** towards them. According to Banda (2010), attitude of staff may influence knowledge of pregnant women. Members of staff may not be willing to explain danger signs in pregnancy in simple terms and clients may not assimilate the Information education and Communication (IEC) given to them.

Lack of access to maternal information among women is also exacerbated by **cultural practices** women are mostly subjected to as this can mean they use health information services less, with serious consequences for their health. Similarly, effective and innovative use of information requires information literacy skills. Information literacy implies the ability to recognize the need for information, and the skills to locate, evaluate, access, communicate and use information in varied contexts. Women often lack this skill (Mulauzi and Albright, 2009). In addition to the above findings, Yiran and Teye (2015) asserted that long queues and waiting times at health facilities and the perception that traditional medicines were adequate for protecting pregnant women and their babies were some of the factors that affected women’s accessibility to maternal health information services.

**DISCUSSION**

It is clear from literature that provision of relevant and adequate maternal health information is critical in improving women’s lives. The health of women matters not only to their families but also to society at large. Investing in the health of women is investing the health of the entire nation and the generation to come. This is because the health of women has profound implications for the health and education of children and the economic well-being of household and the nation. Salali and Owino (2016) affirms that access to quality maternal health information leads to real improvements on reproductive health. Women are empowered to take control of their reproductive health and also address both unmated and psychological needs they may encounter at specific time.
of need. Above all, health information empowers women to make informed choices and increase their perceptions in satisfaction of health provision towards primary prevention. The challenge of not preventing or eradicating these avoidable or treatable conditions or diseases through disseminating maternal health and child information to households, using reliable and accessible sources, have led to majority of maternal and under five child deaths (Salali and Owino, 2016).

In terms of maternal health information needs of women, three categories of needs emerged from literature: during pregnancy, childbirth and postpartum periods. The findings concur with those of Kamali et al. (2013) who affirmed that mothers need different information during pregnancy, childbirth and motherhood. During pregnancy, there is so much information that women need to be fed with including information on the importance of regular checkups. Women should be adequately educated on choosing the place of delivery, birth preparedness, pregnancy period, nutrition, miscarriage, pregnancy complications/danger signs, sexual and family relations, fetus development, expected child, TB, HIV and malaria in pregnancy, medicines in pregnancy, family planning, and exercise. The study has further revealed that during childbirth, women, according to the findings require information on infant care, child immunization, infant feeding, maternal recovery, hygiene, premature birth, low birth weight, infections, umbilical cord care and diarrhea. Information on self-care (hygiene, nutrition, weight loss); sexual relationship; daily care of infant, house and family; emotional support, physical rest and sleep is important during postpartum period.

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This information is critical for women as it first of all prepares them for birth and motherhood and secondly, care for the child and themselves (Mumba, 2015); thus, potentially reducing the many complications and poor birth outcomes associated with pregnancy and childbearing. Thirdly, women would also comply and adhere to regimens. Fourthly, women would be adequately empowered with information to make the informed decisions and choices such as seeking early antenatal services, taking right nutrition, delivering at a hospital, choice of hospital, and therefore reduce the risk of morbidity and mortality for the mother and her baby during pregnancy and delivery. Maternal health information can also equip women with basic health care to ensure that first aid to all family members is done because if a family member gets sick, women act as nurses if not doctors. This explains why the world has much to gain by investing in women’s health. Women are the primary seekers of health information for their children of under-fives and other family members as well as themselves (Salali and Owino, 2016). Hence, investing in women’s maternal health has an important knock-on effect in that the resources that would otherwise be used for preventative health treatments are freed for alternative uses or in cushioning the effects of other negative externalities such as poverty within the community (Mumba, 2015).

The study has also revealed the postpartum information needs of women which include self-care (hygiene, nutrition, weight loss); sexual relationship; daily care of infant, house and family; emotional support, physical rest and sleep. These were seen to be paramount in the studies reviewed. Adequate information during postpartum period has a significant influence on a mother’s physical recovery and emotional well-being. It helps a mother take proper care of herself and her baby as she adapts physically and emotionally. Information can increase coping abilities and bonding between the mother and baby as well as enhance her baby-soothing and communication skills. External care information needs may involve addressing changes in body shape, aiding in breastfeeding and caring for any incisions or scarring. Internal care focuses on
issues like fatigue, cramping, constipation and body aches. Mental health information needs should help mothers to cope with anxiety, depression and other emotions that can arise because of the significant hormonal changes that occur after pregnancy. Adequate postpartum information can lower the risk for depression and increase the rate of successful breastfeeding. Healthy lifestyle choices like diet, proper hygiene and getting ample rest to help ward off illnesses and infections is important information for women.

CONCLUSION

In conclusion, it is clear that maternal health information has significant influence on the health of the mother and the newborn child. The prevention, detection, and management of medical complications of the maternal health are, and should continue to be, key components of maternal health. It is important to ensure that women’s maternal health information needs are adequately met during pregnancy, childbirth and postpartum periods. During pregnancy, the study has revealed that women need information on importance of regular checkups, place of delivery, birth preparedness, pregnancy period, nutrition, miscarriage, pregnancy complications/danger signs, sexual and family relations, fetus development, expected child, TB, HIV and malaria in pregnancy, medicines in pregnancy, family planning, and exercise. While at childbirth, women require information on infant care, child immunization, infant feeding, maternal recovery, hygiene, premature birth, low birth weight, infections, umbilical cord care and diarrhea. Information on self-care (hygiene, nutrition, weight loss); sexual relationship; daily care of infant, house and family; emotional support, physical rest and sleep is important during postpartum period. A number of challenges have been revealed in the study that women face a number of challenges to access the required information. These challenges include illiteracy, poverty, distance, language barrier, inadequate services, lack of information, inadequate human resources, poor attitudes of health workers towards women and cultural practices.

RECOMMENDATIONS

1. Health practitioners should intensify efforts to meet the maternal information needs of women using various means including posters in local languages, community meetings, Internet and mobile phones. This can also remove the much ignorance in women on most maternal issues.
2. Information providers need to provide more maternal information in languages familiar to women who cannot read and write.
3. In this era of Information and Communication Technologies (ICTs), there is need for information providers to exploit their full potential to collect and disseminate maternal health information to overcome distance or mobility challenges women face.
4. Pregnant teenagers should not be mixed with old or experienced mothers during antenatal talks so that they can freely ask questions and adequately prepared for birth and motherhood.
5. Health personnel attending to pregnant women should have positive attitude towards them as this transition in most cases frustrates women and once they have a bad encounter with one, it demotivates them from seeking out information.
6. The Government to provide more human resources as well as maternal services for women.
7. Information providers need to tackle issues of cultural practices and myths surrounding pregnancy and childbirth at length to ensure that women are well informed and detach themselves from such practices and beliefs.
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