

# Health education during antenatal care: the need for more

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**Abstract:** The aim of health education during antenatal is to provide advice, education, reassurance and support, to address and treat the minor problems of pregnancy, and to provide effective screening during the pregnancy. Exploring current practices in this regard revealed the need for more organized educational activities to ensure high quality and clients satisfaction.

**Keywords:** antenatal care, health education, pregnant women, postpartum, misconceptions

## Introduction

Antenatal care (ANC) is a careful, systematic assessment and follow-up of pregnant women, that includes education, counseling, screening, and treatment to assure the best possible health of the mother and her fetus.<sup>1</sup>

The ANC program was designed in Europe in the first decades of the 20th century and was first directed at women in socially difficult living conditions, with the objective of improving maternal and prenatal outcomes.<sup>2,3</sup> Gradually, ANC was expanded to include more specific screening procedures to detect defined medical problems for all pregnant women. As maternal and prenatal outcomes dramatically improved in the industrialized parts of the world, ANC was given much of the credit without evidence of its exact benefit.<sup>2,4,5</sup>

The principles of ANC for women with uncomplicated pregnancies are to provide advice, education, reassurance, and support; to address and treat the minor problems of pregnancy; and to provide effective screening during the pregnancy.<sup>6</sup>

The concept of quality of care is increasingly recognized as a key element in the provision of health care, and it is associated with the outcomes of care in terms of effectiveness, compliance, and continuity of care. In light of this, recent recommendations for ANC stress the need to address both the psychosocial and medical needs of women,<sup>7</sup> as well as the concept of the new ANC model, as promoted by the World Health Organization (WHO), reflects the new understanding of the role of ANC.<sup>8</sup>

World Health Report 2005 calls for “realizing the Potential of Antenatal Care.”<sup>9</sup> While ANC interventions, in and of themselves, cannot be expected to have a major impact on maternal mortality, their purpose is to improve maternal and perinatal health.<sup>10</sup> In addition, the potential of ANC as a line of action to increase the rate of births attended by skilled health staff, and its value as entry point for other health programs such as nutrition, is now better understood and applied.<sup>9–12</sup>

Each of the ANC visits consists of a well-defined set of activities related to three equally important general areas, namely screening for conditions likely to increase adverse outcomes, providing therapeutic interventions known to be beneficial, and educating pregnant women about planning for a safe birth, emergencies during pregnancy, and how to deal with them.<sup>8</sup>

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There were many studies done which found that educated women have better pregnancy outcomes compared with uneducated women and that education during the antenatal period can reduce pregnancy and delivery complications.<sup>13–16</sup>

Education is an important component of prenatal care, particularly for women who are pregnant for the first time.<sup>17,18</sup> The three studies done in Gambia, supported that provision of information and education is a major component of ANC.<sup>19–21</sup>

ANC provides an important opportunity for discussion between a pregnant women and a health care provider about health behavior during pregnancy and about recognizing complications that may arise during pregnancy. ANC personnel should also provide information on postpartum care, newborn care, breastfeeding, signs of problems, and appropriate action to take.<sup>11</sup>

In a study done in four developing countries (Argentina, Cuba, Thailand, and Saudi Arabia), it was found that women want more information on the psychosocial aspects of pregnancy.<sup>22</sup> The information received from providers is an important issue for Saudi women. Another study among the same countries revealed that women were satisfied with the information received about normal labor, breastfeeding, family planning, danger signs, and on how to recognize problems and what to do to manage them.<sup>23</sup> In another study, the majority felt that some topics should be addressed more in depth, such as nutrition and the type of food they can and cannot eat.<sup>24</sup> One of the main goals of the new model of care was to strengthen the information component.<sup>25</sup>

Satisfaction of the people seeking help, is one of the most important qualitative indexes of health care provision, and has a very special importance in prenatal care. Satisfying pregnant women is achieved through satisfying their needs and expectations.<sup>26</sup>

There were several studies done to address women's satisfaction with prenatal care received at the primary health care centers.<sup>24,27</sup> Sixty percent of the mothers had very low or low satisfaction with the information they received during prenatal care, while (39.8%) of them were very highly or highly satisfied, with significant correlation between this satisfaction and some variables.<sup>27</sup>

Study of maternal deaths suggested that low levels of awareness of danger signs of pregnancy and delivery contribute to high maternal mortality ratios in a country.<sup>28</sup>

Another study, found that health education and counseling has been identified as the major gap between the current performance and the proper performance of focused ANC.<sup>29</sup>

A single antenatal visit does not give information about the completeness and components of the care provided.

Additional indicators were the number of visits (it is recommended by WHO that at least four are made during the pregnancy) and the timing (ideally, ANC should be initiated within the first 12 weeks of pregnancy).

Use of ANC early in the pregnancy is professionally considered important to ensure that appropriate ANC is arranged and, therefore, good quality and quantity of information with education are delivered to improve pregnancy outcomes. A study found that women were not compliant with the recommended time of the first visit of pregnancy. Instead, most women make their first visit after 21 weeks or when the pregnancy started showing. The listed reasons included shame for having too many pregnancies or being over 40 years old and pregnant. Women also mentioned service-related reasons; for example, negative attitudes of service providers and poor quality of care.<sup>30</sup> There were studies done which revealed that multiparous women and older women preferred fewer visits as a result of the experience they had during previous pregnancies.<sup>30,31</sup>

In regard to the source of education during ANC, in a study conducted in four developing countries, including Saudi Arabia, women said that they get the information from doctors in the consultations. They also said that quite frequently, information is provided by nurses and not by doctors.<sup>22</sup>

It is a well known fact that literacy among women in many developing countries is low, and there are sociocultural beliefs and practices with adverse effects on pregnancy and birth occurring even among educated women.<sup>32</sup> In all societies, health beliefs are among those held most tenaciously and are an integral aspect of a culture.<sup>33</sup> Individual health behaviors are embedded in cultural pattern exchanges and are usually transmitted from generation to generation.<sup>34</sup>

A qualitative study of ANC in a rural area of Zimbabwe showed that cultural beliefs had great influence, especially at the time a pregnancy is acknowledged and reported. And it was found that ANC ignores the experiences and views of women regarding the care of pregnancy.<sup>30</sup>

A study done in a rural area of Bangladesh, which assessed knowledge, attitude, and the practice of mothers regarding maternity care and nutrition during pregnancy and lactation showed that the health of the mothers was affected by false beliefs and misconceptions about foods and food consumption during and after pregnancy. Most of the foods avoided during and after pregnancy were protein-rich, highly nutritious foods such as fish and eggs. The inaccurate belief that these might lead to the birth of a baby with scabies or skin disease is an example.<sup>35</sup>

One study done in Riyadh, the central region of Saudi Arabia, regarding the dietary habits during pregnancy found

that avoidances of some types of food, like spicy foods and beverages, is common among pregnant women. The main reasons given for avoiding those foods were undesirable effect on the fetus, heartburn, and no particular reason.<sup>36</sup>

Over half of pregnant women may be consuming more than the recommended amount of calories during pregnancy, according to a research by SMA Nutrition.<sup>37</sup> Pregnant women tend to eat more than they normally would because they think pregnancy gives them permission to “eat for two.”

There are various beliefs and practices about breastfeeding and lactation that are deeply ingrained. Some of these beliefs can be harmful and could be related to the decline in breastfeeding, which has been documented in the Saudi Arabia.<sup>38,39</sup>

The Bella and Dabal<sup>40</sup> study identifies misperceptions and incorrect beliefs about breastfeeding among Saudi female college students. Some of them believed that breastfeeding would spoil the mother’s breasts and figure.

Intercourse during pregnancy is an issue that many women wonder about but are afraid and ashamed to ask. The lack of communication about this sensitive subject has led to many misconceptions. One of the most common myths surrounding this issue is that sex can cause a miscarriage.<sup>41</sup>

The study of knowledge, attitude, and practice of epidural analgesia for labor in Karachi showed 76% of the females were aware of epidural analgesia as a labor pain-relieving method. However, most of the females had fears that epidural analgesia cause permanent backache, and some of them believed it results in weakness or paralysis of limbs.<sup>42</sup>

Several studies indicated that the incidences of postpartum health problems are high, and these problems may be related to traditional and unscientific dietary and behavioral practices in the postpartum period.<sup>43–46</sup>

In summary, it is obvious that more education is needed for pregnant women during ANC visits to address different aspects related to pregnancy, delivery, and infant care. More organized educational activities should be employed by either physicians, health educators, or nurses.

## Acknowledgment

The research was funded by the King Abdullah International Medical Research Center, Riyadh, Saudi Arabia.

## Disclosure

The authors have no affiliation or financial involvement with organizations or entities with a direct financial interest in the subject matter or materials discussed in the manuscript. This review was completed during the preparation for the research titled “Perceptions and effects of antenatal education,” a cross-sectional study, which is available from

<http://www.ncbi.nlm.nih.gov/pubmed/24343470>. The authors report no conflicts of interest in this work.

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