Assessment of Prophetic Foods Consumption among Lactating Mothers: Combining Quantitative & Qualitative Approaches

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ABSTRACT

Introduction: The phrase ‘Prophetic food and medicine’ reflects the words and actions of the Holy Prophet Muhammad (PBUH) with the bearing of disease, treatment of disease, and care of patients. Among plants mentioned in the Al-Quran, Al-Hadith and Islamic literature are dates, pomegranates, figs, olive and black cumin seeds. These plants are widely used for medicinal purposes, as functional foods and industrial products. However, there are limited studies found regarding their effect on human milk quality and quantity. Thus, this paper aims to describe the methodology to assess knowledge, attitude, and practice of prophetic foods consumption among lactating mothers in Kuantan, Pahang. Methodology: Pregnant Malay mothers aged 18 to 40 years old, at a gestational duration of ≥ 32 weeks, are recruited. During the lactation period, their dietary intake (specifically the consumption of prophetic foods) are assessed using a quantitative method which is food frequency questionnaire. A subsample of these mothers is then interviewed using semi-structured interview method on the prophetic food consumption. Quantitative and qualitative data are analysed using SPSS and NVivo software, respectively. Result: Reports of positive effects of prophetic food consumption on lactation experience namely improving human milk production is anticipated from this study. In addition, it will provide a foundation for further exploration of the role of prophetic food consumption in the lactation process. Conclusion: This research is at the forefront to provide the data on potential practice and application of prophetic foods in positively influencing lactation experience and quality of human milk.

KEYWORDS: prophetic food, lactation, dietary assessment

INTRODUCTION

The phrase ‘Prophetic food and medicine’ reflects the words and actions of the Holy Prophet Muhammad (PBUH) with relation to disease, treatment of disease, and patients’ care.¹ This also includes His words on medical matters, medical treatment practiced by others on the Prophet, medical treatments practised by the Prophet on himself and others, medical treatments observed by the Prophet with no objections, medical procedures that the Prophet heard or knew about and did not prohibit, or medical practices which were so common that the Prophet could not have failed to know about them.¹ Narrated by Abu Huraira: The Prophet said, “There is no disease that Allah has created, except that He also has created its treatment.” The specific remedies taught by the Prophet (PBUH) are valid and useful. These, however, may not be used today without undertaking further empirical research because of changes in the human and physical environments.

Among plants mentioned in the Al-Quran, Al-Hadith and Islamic literature are dates, pomegranates, figs, olives and black cumin seeds.² These plants are widely used for medicinal purposes such as to treat common colds, diabetes, and eczema, as functional foods i.e. to improve milk production and improving memory.³ ⁵ In addition, these plants are also utilised in industrial products such as facial cleanser, acne treatment, and supplementary products.

The World Health Organization (WHO) and United Nations Children’s Fund (UNICEF) strongly advocate exclusive breastfeeding for the first six months after birth as the optimal way of feeding infants. This is based on a review of evidence which demonstrated its benefits on child health, nutritional, immunologic, developmental, psychological, social, economic, and environmental status, as well as its positive implications on maternal wellbeing.⁶ In addition, WHO is now targeting to increase the rate of exclusive breastfeeding in the first six months up to at least 50% by the year 2025.⁷ The Malaysian government has consequently adopted this recommendation which encourages mothers to practice breastfeeding from birth until six months and continue to breastfeed...
inclusion of foods and beverages, with sections to report the frequency and quantity of foods/beverages consumed over a specified period. The FFQ method represents an individual’s ‘habitual’ intake.

**Development of questionnaire**

To date, there is no FFQ on prophetic foods available in the literature. Hence, the FFQ used in this study is newly developed through several steps. Firstly, a list of foods mentioned in the Al-Quran, Al-Hadith and Islamic literature is obtained through literature review. Eight foods which are commonly recognized and consumed by Malaysians are included in the FFQ. These include palm date, raisin, black seed (*Habbatus Sauda*), honey, pomegranate, milk, fig, and olive. For each food, the amount taken per day is recorded. Other than that, the frequency of consumption is assessed on a daily and weekly basis. This is to determine the nutrients and total energy contribution from these foods in the daily dietary intake of the participants. In addition, the reasons for consumption of the foods are also noted. This quantitative assessment is carried out on the 30th and 90th, days of postpartum.
Before commencement of the actual study, a pilot study has been conducted to assess the acceptability of the FFQ. A total of 10 participants were randomly chosen to participate in the study. Based on the pilot study, a new food (fenugreek) is added to the list. Other than that, the item ‘amount taken per day’ is rephrased as ‘amount taken per eating session’.

**Qualitative assessment**

A subsample of mothers who has completed the quantitative assessment as explained earlier are then interviewed using semi-structured interview method. The objective of this is to further explore the consumption of prophetic foods during the lactation period. A qualitative study is chosen because it would assist in understanding a person’s interpretation and experience on a subject matter. In this case, the intention is to investigate the mothers’ knowledge, attitude and practice on prophetic foods consumption during the exclusive breastfeeding period. Knowledge can be defined as the mothers’ understanding about prophetic foods or prophetic diet. Attitude refers to their perception about prophetic foods consumption such as its perceived benefits or harm. Practice, on the other hand, depicts the way the mothers demonstrate their knowledge and attitude on prophetic foods through their actions.

A semi-structured interview is a type of in-depth interview which may consist of open- and close-ended questions. It allows researchers to develop a better understanding on the topic of interest.

Study participants are interviewed individually. Generally, the questions asked during the interview revolve around these topics:

- Understanding about prophetic foods
- Giving examples of prophetic foods
- Consumption of any prophetic foods during breastfeeding period
- The reason for consuming the prophetic food(s), if they do

The number of included participants in this qualitative assessment is determined by the saturation of information obtained. The interview is recorded using a voice recorder and is transcribed prior to analysis.

**Statistical and qualitative analyses**

The nutritional intake from prophetic foods is estimated based on the Nutrient Composition of Malaysian Foods database and U.S. Department of Agriculture (USDA) Foods database. Association between maternal intake of prophetic foods and nutrient contents of breast milk is assessed by using Pearson correlation. This is performed using IBM SPSS Version 20.0 with confidence interval level set at 95%.

For the qualitative analysis, NVivo analysis software is used. All information and answers obtained from the interview are recorded in this software. It assists in organizing and analysing the qualitative information obtained from the interview with the participants. The content of the interviews will be analysed thematically into knowledge, attitude and practice codes. Once a pattern is identified, the recruitment for the interview shall be ended.

**Ethical Approval and Informed Consents**

This study has been approved by the International Islamic University Malaysia Research Ethics Committee (IREC). Signed informed consent is prepared in both English and Malay. Verbal and written consents are obtained in the presence of a witness after each procedure involved in this study is clearly explained to the participants.

**RESULT**

Reports of the positive experience of prophetic food consumption on lactation including improvement of human milk production are anticipated from this study. The researchers are hoping to learn about mothers’ individual knowledge and perception of prophetic foods consumption and its role during the lactation period. In addition, the mothers’ attitude regarding prophetic food consumption during lactation will be analysed. We may also see prophetic foods consumption being practiced among lactating mothers from the FFQ. Other than that, this study will provide a foundation for further exploration of the role of prophetic food consumption in the lactation process.

**DISCUSSION**

The objective of this study is to analyse the knowledge, attitude, and practice of prophetic foods consumption during the lactation period. In order to achieve this, FFQ and qualitative interviewing are included as our methods of study.

FFQ is relatively an inexpensive research tool used for a dietary intake assessment. It can be completed quickly and is able to assess current and past diet. Also, it may be used to compare between those with high and low intakes as it allows ranking of individual’s food or nutrient intake. Qualitative interviewing, on the other hand, helps to examine issues in detail and in depth. It may also reveal the subtlety and complexity of research subject which is often missed by quantitative inquiry. According to Onwuegbuzie and Leech (2005), combining both quantitative and qualitative research methodologies has their advantages. For instance, quantitative data would help to generalize the findings from qualitative assessment. Other than that, by having both methodologies, researchers would be able to combine the macro and micro levels of a research issue. The combination of qualitative and quantitative methodologies would also be useful in developing conceptual frameworks, validating quantitative findings by referring to findings from the qualitative study, and constructing indices from
In this study, the researchers are looking at the topic of prophetic food consumption among lactating mothers which has never been explored previously. By applying both quantitative and qualitative approaches, this shall ensure that information are collected as extensively and accurately as possible, and thus would lead to an improved understanding of this topic. The FFQ shall help us determine the quantitative details of prophetic foods consumption among the lactating mothers, whereas the interviewing shall provide us with the qualitative insights, such as their reasons for and opinions of it.

CONCLUSION

Since breastfeeding would confer its benefits until beyond childhood, appropriate action can be taken and intervention can be planned to optimize its effectiveness. This research is at the forefront to provide exploratory information on the potential practice and application of prophetic foods to positively influence lactation experience and quality of human milk. Thus, a combination of quantitative as well as qualitative assessments is the appropriate method to ensure the credibility of the information obtained.

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Figure 1: General methodology of the study

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