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ASSESSMENT OF THE KNOWLEDGE AND PRACTICES OF EXCLUSIVE BREASTFEEDING AMONGST THE BREASTFEEDING MOTHERS IN ADJUMANI DISTRICT, WEST NILE

A.P. Adrawa,

Medical Student, Gulu University

D. Opi,

Medical Student, Gulu University

E. Candia,

Medical Student, Gulu University

E. Vukoni,

Medical Student, Gulu University

I. Kimera.

Medical Student, Gulu University

I. Sule

Medical Student, Gulu University

G. Adokorach,

Medical Student, Gulu University

T.O. Aliku, and

Faculty of Medicine, Gulu University

E. Ovuga

Faculty of Medicine, Gulu University

Abstract

Background—Despite national policy guidelines advocating exclusive breastfeeding for the first six months of life to promote and accelerate child survival, the proportion of women exclusively breastfeeding for the first six months has remained small.

Objective—To describe the knowledge and practices of mothers regarding exclusive breastfeeding in a semi-urban Ugandan population.

Design—A descriptive cross-sectional study.

Setting—Semi-urban Ugandan population in four parishes in Adjumani District, the West Nile region of Uganda.

Subjects—The breastfeeding mothers with infants aged 3–12 months.

Results—Of the 385 breastfeeding mothers surveyed, 62.6% (241/385) and 53.5% (206/385) knew the exact meaning and the recommended duration of exclusive breastfeeding respectively. Nearly 68.6% (264/385) initiated breastfeeding within one hour after delivery and only 42.1% (162/385) exclusively breastfed their babies in the first six months of life. For the mothers who initiated non-breast milk feeds before the first six months of birth, most stated the following reasons: 'advice from the home', 'did not know the appropriate time', baby got thirsty and baby was crying at the sight of food'.

Conclusion—This study revealed low levels of knowledge and practice of the recommended duration of exclusive breastfeeding among the breastfeeding mothers. Continuous breastfeeding awareness campaigns are needed to improve knowledge and practice of exclusive breastfeeding among breastfeeding mothers.

INTRODUCTION

The World Health Organization (WHO) and United Nations Children's Fund (UNICEF) recommend that every infant should be exclusively breastfed for the first six months of life, with breastfeeding continuing for up to two years of age or longer (1). Breast milk is uncontaminated, remains a "superior food" for babies and it contains optimal amounts of fats, sugar, water and protein needed for their growth and development which is necessary for children in the first few months of life (2,3).

Exclusive breastfeeding (EBF), which is giving breast milk only and no other liquids, except drops or syrups with vitamins, mineral supplements or medicines in the first six months of life, is superior to non-exclusive breastfeeding and have a protective effect against both morbidity and mortality (4,5). It is estimated that sub-optimal breastfeeding, especially non-exclusive breastfeeding in the first six months of life, results in 1.4 million deaths and 10% of diseases in under-fives. It can also increase the risk of dying due to diarrhoea and pneumonia among zero to five month old infants by more than two-fold (2).

Promotion of exclusive breastfeeding is the single most cost-effective intervention to reduce infant mortality in developing countries (2,6,7). However, many mothers continue to use other feeds in addition to breastfeeding in the first six months after birth. The aim of this study was to gather information on the level of knowledge and practice of exclusive breastfeeding among breastfeeding mothers in Adjumani District in the West Nile Region of Uganda.

MATERIALS AND METHODS

This was a descriptive cross-sectional study. Breastfeeding mothers with infants aged 3–12 months in four parishes in Adjumani District were consented and recruited into the study. Interviewer administered survey questionnaires were used to collect quantitative data. Adjumani town council and Pakele sub-county were purposely selected; two parishes were randomly selected from each of the two sub counties; Biyaya and Cesia parishes from town council, Pereci and Pakele town board from Pakele sub-county. In each parish, a sample of

96 breastfeeding mothers (25% of the total sample size) who were available at home at the time of interview were recruited consecutively through house-to-house visit starting at the nearest household to the parish Centre, then to the nearest neighboring household until the required size was realized.

Ethical clearance for this study was obtained from St. Mary's Hospital, Lacor institutional and ethical review committee. The sample size estimated using Keish and Leslie sample size estimation method was 385.

The main variables of the study were respondents' knowledge level and practices of exclusive breastfeeding. Data on other factors influencing practices of exclusive breastfeeding such as age, sex, level of education, marital status, ANC visits, post-natal care visits were obtained.

Quantitative data were analyzed by use of SPSS 16.0.

RESULTS

A total of 385 respondents were interviewed and analyzed. Of the respondents, 89.9% (346) were aged 18–35 years, 94.5% (364) were married, 95.8% (369) attended a formal education and 63.9% (246) were house wives by occupation. About 75.1% (289) lived within four kilometres from the nearest health facility and all mothers lived within ten kilometres from the nearest health facility (Table 1).

Knowledge of exclusive breastfeeding

Out of the respondents, 80.8% (311/385) had ever been taught exclusive breastfeeding. Of these 95.8% (298/311) were taught by the health workers and 93.2%(290/311) were taught at the time of ante-natal and post-natal care visits. One-quarter (79/311), however felt the teachings were not clear.

Of all the respondents, 62.6% (241/385) knew the exact meaning of exclusive breastfeeding and 53.5% (206/385) knew the recommended duration of exclusive breast feeding. Figure 1 shows the different opinions of the mothers on the recommended duration of exclusive breastfeeding.

Ante-natal care attendance was nearly universal. As shown in figure 2,99.0% (381) attended ante-natal care services at least once, with 94% of the mothers making three or more antenatal visits for their current baby's pregnancies. Delivery in a health facility and post-natal care attendance was also very high, with 95.3% (367) delivered at the health facilities and 97.7% (376)attending post natal care services. Only 2.3% (9) never attended post-natal care services.

Practice of exclusive breastfeeding

Out of the mothers surveyed, 42.1% (162/385) exclusively breastfed their infants for the first six months; of those breast-fed babies, 68.6% (264/385) initiated breastfeeding within one

hour of delivery and 82.9 %(319/385) of the mothers gave only breast milk to their babies in the immediate post-partum period (Figure 3).

For the mothers who initiated breastfeeding after one hour of birth, most stated the following reasons: 'I had no breast milk', 'baby was unable to suck', 'I was sick', 'I was too tired to breast feed immediately after delivery'.

Most respondents who gave non-breast milk feeds to their babies before the first six months stated the following reasons which include; 'advice from the home and relatives (grandmother, husband)', 'did not know the appropriate time', 'baby crying at the sight of food', 'I am very busy to breast feed', 'I wanted baby to learn to eat early'.

DISCUSSIONS

This study aimed to assess the level of knowledge and practices of exclusive breastfeeding among breastfeeding mothers in a rural Ugandan Town. The World Health Organization (WHO) and United Nations Children's Fund (UNICEF) recommend that every infant should be exclusively breastfed for the first six months of life, with breastfeeding continuing for up to two years of age or longer (1). In this study, it was notable that 43.9% of the mothers still breastfed their infants at 10-12 months, a practice that is worth encouraging and promoting through young child clinics or baby well clinics. The majority of the mothers (89.9%) were aged 18-35 years indicating the most fertile reproductive age group as compared to only 7.3% (28) of the mothers above 35 years who were still producing and breastfeeding their babies. This is in conformity to a previous study in Ethiopia (8,9). Of the mothers surveyed, 4.2% never attended formal education. This is consistent to a previous study done in Ethiopia (10). This may be because both studies were carried out in a rural setting. Nearly two-thirds(63.9%) of the mothers surveyed were house wives by occupation compared to only 33% (137) who were employed with either the government, private institutions or selfemployed. This finding is similar to previous studies in Ethiopia (8,10). Majority of the mothers, 75.1% lived within four kilometres from the nearest health facility. This is congruous with the ministry of health (MOH) of Uganda recommendation of a distance of not more than five kilometres to the nearest health facility in order to improve access to health care services aiming at reducing childhood mortality.

Our study revealed that most women, 80.8% of the study population, had the opportunity to learn about exclusive breastfeeding with the majority (95.8%) being taught by health workers from ante-natal and post-natal care visits. This is in line with a previous study in South Nigeria (9) whereas in a similar study conducted in South India, (11) majority of the mothers (52%) did not receive any advice on breastfeeding during ante-natal period, 31% received from parents and relatives and only 17% received advice from health care workers. This might be due to the fact that in the current study, almost all mothers have attended both ante-natal and post-natal care and majority admitted being taught exclusive breastfeeding by health workers during those visits.

Despite the fact that almost every woman had the opportunity to learn about exclusive breastfeeding in the present study, only 62.6% of the mothers knew the exact meaning of

exclusive breastfeeding which is lower than for studies carried out in a rural population in south Eastern Nigeria, 87.0%(12) and a community based cross sectional study done in Ethiopia, 90.8%(13). This could be due to the unclarity of the teachings as reported in the present study by one-quarter of the respondents. This current finding is higher than for a previous study done in Kware, Nigeria with 54(31%)(14) of the mothers had adequate knowledge of exclusive breastfeeding.

The breastfeeding mothers in the current study had also posed lower knowledge on the duration of exclusive breast feeding as about one-half (53.5%) knew the duration of exclusive breast feeding compared to a similar study conducted in Mbarara hospital where a majority of the respondents 150 (73.8%)(15) were knowledgeable about the duration of exclusive breast feeding. The difference could be due to our study being a community based as compared to the previous study which was a hospital based. This knowledge of recommended duration of exclusive breastfeeding in the present study was higher than for a similar study in south India, where (38%)(11) knew the recommended duration of exclusive breastfeeding. This could be explained by the fact that the majority of mothers in the present study had opportunity to learn about exclusive breastfeeding whereas in a previous study done in India (11), majority did not receive information on exclusive breastfeeding during ante-natal care.

From our study, 42.1% of the respondents exclusively breastfed their infants for six months which was slightly lower than for previous studies in Mbarara hospital, 49.8%(15), Kawampe 56.3%(16) and Nigeria 63.0% (12), crital lower than for a previous study in Ethiopia, 82.2%(13)however it was slightly higher than for previous studies in Mozambique 37.0% (17), Kware 31% (14) and Uganda 39% (18). Our study revealed low prevalence of exclusive breast feeding which was similar to other studies above however in all the studies, the prevalence of exclusive breast feeding were below the global and National recommended level.

In the current study, one-third of the mothers who were eager to breastfeed initiated within 30 minutes of delivery and about two-third (68.6%) initiated within one hour as recommended by WHO this is consistent to the previous study in Kware, Nigeria 53% (14). Of the mothers who delayed at least one hour after delivery to initiate breast feeding, most of them stated the following reasons which includes: I had no breast milk, baby was unable to suck, I was sick, I was too tired to breast feed immediately after delivery. These findings are similar to another study done in India, (11).

Our study revealed that breast milk remains the main feeds in the immediate post-partum period as majority, 82.9% of the mothers gave breast milk only to their babies as compared to 17.1% who gave in addition to breast milk, sugar, water, juice, honey, soup, porridge or cow milk corresponding to a study done in Mozambique (17). Most respondents who gave non-breast milk feeds to their babies before the first six months stated the following reasons which include; 'advice from the home and relatives (grandmother, husband)', 'did not know the appropriate time', 'baby crying at the sight of food', 'I am very busy to breast feed', 'I wanted baby to learn to eat early'.

These findings are similar to a previous study in Mbarara hospital, (15) suggesting multidisciplinary approaches is required to improve on the level of knowledge and practices of exclusive breast feeding in rural settings.

In conclusion, The level of knowledge and practices of exclusive breastfeeding among breastfeeding mothers in Adjumani District is below the national and global recommendation.

We recommend continuous breastfeeding awareness campaigns are needed to improve knowledge and practice of exclusive breastfeeding among breastfeeding mothers.

There is need for continuous education of mothers with improved clarity of the teachings on exclusive breastfeeding.

Since almost all mothers learnt about exclusive breast-feeding at ante-natal and post-natal care visits, additional mass media on exclusive breastfeeding might capture mothers who do not attend those visits and also to prepare them before conception.

STUDY LIMITATION

Knowledge, beliefs and practices of cultural leaders and men who are part and key partners in delivering exclusive breastfeeding is beyond the scope of this study. This being a cross sectional study, the future level of knowledge and practices of exclusive breast feeding is beyond our scope.

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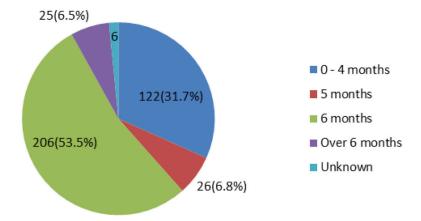


Figure 1. Mothers' opinions on the recommended duration of exclusive breastfeeding.

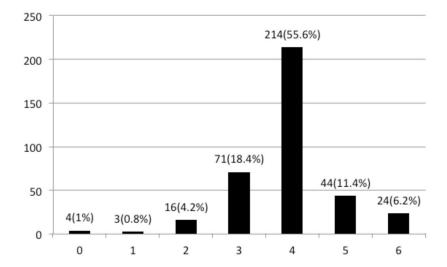


Figure 2. Bar graph representing number of ante-natal care visit attendance.

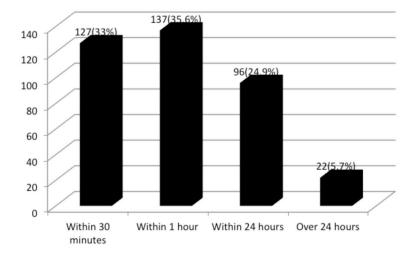


Figure 3. Time duration taken to initiate breastfeeding after delivery.

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Table 1

Demographics of the study participants.

Variable	Category	Frequency, N=385	Percent
Age of breastfeeding mothers/years	14 – 17	10	2.6
	18 – 35	346	89.9
	36 – 49	28	7.3
	Don't remember	1	0.3
Marital status	Single	21	5.5
	Married	337	87.5
	Separated, Divorced or Widower	27	7.0
Education level	Uneducated	16	4.2
	Primary education	220	57.1
	Secondary education	108	28.1
	Tertiary education	41	10.6
Occupation	Student	12	3.1
	House wife	246	63.9
	Self employed	102	26.5
	Government employed	10	2.6
	Private employed	15	3.9

^{*} Age distribution of the babies was as follows: 3–6 months, 126 (32.9%); 7–9 months, 89(23.2%); and 10–12 months, 168 (43.9%).