

Complementary feeding timing and its predictors among mothers' of children aged (6-23) months old in Halaba Kulito town, Southern Ethiopia.

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Abstract

Background: Infants are at an increased risk of malnutrition from six months of age onwards and hence timely initiation of nutritionally enough, reliable, age appropriate complementary feeding is urged for improved health and development of infants. The aim of this study was to assess the magnitude and associated factors of timely initiation of complementary feeding in Halaba Kulito town, Southern Ethiopia.

Method: A community-based cross-sectional study was conducted from May 30 to June 4, 2016 among 320 mothers with their 6-23 months using systematic random sampling technique. Data was collected using pretested and interviewer administered structured questionnaire. Bivariate and multivariate logistic regression was carried out using SPSS version 20.0 software.

Result: The magnitude of complementary feeding timing was 57.8%. Maternal education (AOR=4.18, CI: 1.02, 17.20), age at first pregnancy (AOR=5.82, CI: 2.45, 13.81) were predictors while maternal job status (AOR=0.49, CI: 0.07, 3.51) and paternal job status (AOR=0.16, CI: 0.06, 0.42) were negative predictors of complementary feeding timing.

Conclusion: Nearly, three among five mothers (57.8%) initiated complementary feeding timely. Maternal education, age at first pregnancy and maternal and paternal occupational status were the main factors for timely initiation of complementary feeding. Women education, health education dissemination strategies using mass media as a vehicle and through Health Extension workers need to be considered to improve timely initiation of complementary feeding.

Keywords: Complementary feeding timing, Children, Age.

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Introduction

Complementary feeding is providing young children additional foods or fluids besides breast feeding at six months of infancy [1]. The World Health Organization advocates breast feeding alone for six months of age with the addition of complementary feeds at six months of age [2,3].

Appropriate nutrition during early childhood is vital to a child's development. Breastfeeding alone is vital and enough for the first six months. Nevertheless, young children are at risk of malnutrition from six months of age a head, when breast milk alone is no longer

sufficient to satisfy all their nutritional demands and, hence, timely introduction of nutritionally enough, reliable, age appropriate complementary foods at sixth month of age is advocated for improved health outcome of infants [4].

Studies revealed that introduction of adequate and safe complementary foods timely reduced the risk of malnutrition, morbidity and mortality [5,6]. For instance, complementary feeding actions exclusively were indicated to avoid nearly one fifth of under-five mortality in developing countries [7,8]. Inadequate amounts and poor quality of complementary foods, poor childhood feeding habits, and increased rates of morbidity have a

prejudicial outcome on health and growth among young children. Even with continuous breast feeding, children will experience stunting, future learning difficulty and lack of immunity without ample dietary variety and meal frequency at 6 months of age and above [9-12].

The magnitude of complementary feeding timing varies across countries. For instance, a study in china showed that of complementary feeding timing was 41.6% and maternal age, maternal education, employment and infant's sexes were identified predictors with complementary feeding timing [13]. Studies conducted in India indicated that more than 75% of mothers had initiated complementary feeding at 6 month [14,15]. While a finding in Ghana showed that 55% of mothers had introduced other foods besides breast-milk with the age of 3-4 months [16].

Malnutrition stays one of the principal public health problems in Ethiopia that causes 53% of infant and child mortality. According to 2011 and 2014 Ethiopian Demographic Health survey (EDHS), 44% and 40% of under- five children were stunted [17, 18]. The 2011 EDHS showed that timely initiation of complementary feeding in Ethiopia was 51% [17]. Other recent studies in Ethiopia indicated that the magnitude of timely initiation of complementary feeding was 62.8%, 57.1% and 71.3% [19-21]. Therefore, this study was aimed to determine the magnitude and predictors of complementary feeding timing in Halaba Kulito town, Southern Ethiopia.

Methods

Study Design and Setting

Community-based cross-sectional study was conducted in Halaba Kulito town from May 30 to June 10, 2016. The town is located 90 kilometer (KM) from Hawassa, capital city of Southern Nation, Nationalities and People Region, Ethiopia and 315 KM from Addis Ababa, Ethiopia. The town has 5 urban *Kebeles* (*Kebele*: the smallest administrative unit in Ethiopia). The total population of the town is 38,597, with 19,684 (51%) of are females and 5380 are under-five children. In the district, there are two hospitals, nine health centers & seventy nine health posts providing promotive, preventive and curative services [22].

Selection of Study Participants

The source populations were all mothers having under-five children and the study populations were all mothers having infants and young children aged 6-23 months old. Sample size was determined using single population proportion formula considering 95% confidence level, 5% margin of error (d) and proportion (p) of timely initiation of complementary feeding taken as 33.3% [23].

$$N \text{ (sample size)} = (Z_{\alpha/2})^2 \frac{P[1-P]}{d^2}$$

$$N = \frac{(1.96)^2 (0.333) (0.667)}{(0.05)^2} = 340$$

Simple random sampling technique was used to select two *Kebeles* (Murata and Denebafama) from five *Kebeles* (Denebafama, Murata, Lendaber, Wanjaber and Mehalarada). Study participants were selected by systematic random sampling technique. The total number of children (age 6 to 23 months old) were obtained from family folder records of health extensions workers. The sampling interval was calculated by dividing the total children (1360) by the sample size (340).

Operational Definition

According to the WHO recommendations, the following operational definitions were considered: *Complementary feeding* is the process of starting additional foods when breast milk alone is no longer sufficient to meet the nutritional requirements of infants. *Complementary feeding timing*: is introduction of additional supplementary food for young child *at sixth months of age* along with continued breast feeding.

Data Collection Tool and Procedure

Pre-tested and interviewer-administered structured questionnaire was used to collect quantitative data. The questionnaire was prepared in English language and translated to Amharic language and back to English language. Five registered female nurses were recruited to collect the data. Training was given to data collectors for two days. Two bachelor degree holders with principal investigators supervised the data collection process and checked filled questionnaire for consistency and completeness.

Data Processing and Analysis

After data collection, data were edited and cleaned before analysis, each questionnaire was checked for completeness and code was given. Data were entered into computer using EPI Info version 3.5.3 and the analysis was done using SPSS version 20.0. Frequency, percentage and descriptive summaries were used to describe the study variables. Logistic regression was carried out to identify factors associated with timely initiation of complementary feeding. Variables with p-value ≤ 0.2 in the bivariate analysis were selected as candidate variables for multivariable logistic regression analysis to control the effect of confounders. Adjusted odds ratios with their 95% confidence intervals (CI) and p-value of less than 0.05 were considered to have significant association between the outcome and the explanatory variables. The model fitness was checked using Hosmer and Lemeshow.

Results

Socio-Demographic Characteristics

A total of 320 (94.1%) mothers of children (aged 6-23

months old) were included in the study. The mean ages of mothers and children were 26.57 years (± 5.63 , standard deviation (SD)), and 13.65 months (± 5.53 SD), respectively. One hundred two (32%) of mothers were in the age range of 25-29 years. Nearly half, 156 (49%) were followers of Muslim religion and 306 (96%) mothers married with average family size of 4.23 (± 1.36 SD).

Only 126 (40%) of mothers attended primary education and 106 (33 %) of their partners/husbands attended secondary and above school. Almost seven among ten mothers, 228 (71%) were house wife by occupation and half, 159 (50%), of their counterpart were merchant. Three among ten, 99 (31 %) mothers had income between 1001 and 2000 Ethiopian birr (≈ 46 USD – 93 USD) per month (Table 1).

Reproductive History

One hundred six (33%) study participants had their first time pregnancy in the age range 20-24 years with mean age of 24.4 (SD ± 5.58) years old. Nearly three among five, 194 (60.6%) of mothers gave birth greater or equal to two children with average pregnancy of two (SD ± 1.19). One hundred twenty three (38.4%) mothers visited health facility four times in all trimester for antenatal care visit. Two hundred forty four (76%) mothers gave birth at health facility (Table 2).

Complementary Feeding Timing

One hundred eighty five (57.8%) mothers of children (aged 6-23 months) initiated complementary feeding timely. Ninety eight (30.6%) mothers fed their

Table 1. Socio demographic and economic characteristics of study subjects in Halaba Kulito town, Southern Ethiopia, 2016

Variables	Category	Frequency (n)	Percentage (%)
Maternal age	15-19	26	8.1
	20-24	91	28.4
	25-29	102	31.9
	30-34	64	20.0
	≥ 35	37	11.6
Religion	Muslim	156	48.8
	Orthodox	95	29.7
	Protestant	69	21.6
Ethnicity	Halaba	121	37.8
	Kembata	65	20.3
	Siliti	45	14.1
	Guraghe	48	15.
	Amhara	41	12.8
Marital status	Single	14	4.4
	Married	306	95.6
Family size	≤ 4	203	63.4
	>4	117	36.6
Maternal education	Unable to read and write	63	19.7
	Read and write	81	25.3
	Primary education	126	39.4
	Secondary and above	50	15.6
Parental education	Unable to read and write	35	10.9
	Read and write	48	15.0
	Primary education	131	40.9
	Secondary and above	106	33.1
Maternal occupation	Governmental employed	33	10.3
	Housewife	228	71.3
	Daily laborer	26	8.1
	Merchant	32	10.0
Paternal occupation	Governmental employed	88	27.5
	Daily laborer	73	22.8
	Merchant	159	49.7
Monthly income	<1000 birr	80	25.0
	1001-2000 birr	99	30.9
	2001-3000 birr	65	20.3
	>3001 birr	76	23.8

Table 2. Reproductive history and complementary feeding related characteristics of study participants in Halaba Kulito town, Southern Ethiopia, 2016

Variables	Category	Frequency (n)	Percentage (%)
Age at first pregnancy	15-19	71	22.2
	20-24	106	33.1
	25-29	92	28.8
	≥ 30	51	15.9
Sex of child	Male	163	50.9
	Female	157	49.1
Age of child in month	6-10	109	34.1
	11-15	92	28.8
	16-20	77	24.1
	≥ 20	42	13.1
Number of parity	1	126	39.4
	≥ 2	194	60.6
ANC follow up	First visit	7	2.2
	Second visit	33	10.3
	Third visit	154	48.4
	Fourth Visit	123	38.4
Place of delivery	HC	244	76.3
	Hospital	47	14.7
	Home	29	9.1
Had complementary feeding information	Yes	311	97.2
	No	9	2.8
Source of Complementary feeding information	Husband	19	5.9
	Grand mother	15	4.7
	Health extension worker	286	89.4
Type of complementary food introduced	Liquid	110	34.4
	Semi solid	48	15.0
	Solid	40	12.5
	Mixed(solid and liquid)	122	38.1
Frequency of complementary feeding during sickness	Same before	121	37.8
	More than before	101	31.6
	Less than before	98	30.6

children less than before due to illness. Three hundred eleven (97%) mothers were informed about timing of complementary feeding. Nine in ten, 286 (89.2%) mothers obtained information about complementary feeding timing from health extension workers. One hundred ten (34.4%) mothers introduced liquid foods for their babies as complementary food (Table 2).

Predictors of Complementary Feeding Timing

In the multivariable logistic regression analysis, age at first pregnancy, maternal education, maternal and paternal occupations were significantly associated with complementary feeding timing.

Mothers who got their first pregnancy in the age group 25-29 years were six times more likely to initiate complementary feeding timely compared to mothers in the age group 15-19 years (AOR=5.82, CI; 2.45, 13.81).

Mothers who attended secondary and above education were four times more likely to start complementary feeding timely compared with mothers who cannot read and write (AOR= 4.18, CI;1.02, 17.20).

It was also observed that the probability of introducing complementary feeding timely decreased by 80% among house wife mothers compared with governmental employed mothers (AOR=0.20, CI; 0.4, 1.18). The study also observed that initiation of complementary feeding timely was lower by 90% among mothers whose partners were daily laborer than governmental employed (AOR=0.10, CI; 0.01, 0.82) (Table 3).

Discussion

In the present study, it was pointed out that the magnitude of complementary feeding timing was 57.8%. This finding was comparatively lower than WHO

Table 3. Multivariable logistic regression model predicting complementary feeding timing in Halaba Kulito town, Southern Ethiopia, 2016

Variables	Complementary Feeding Timing		COR (95% CI)	AOR (95% CI)
	No	Yes		
Age at first pregnancy				
15-19	37	34	1	1
20-24	46	60	1.42(0.78, 2.59)	2.74(1.26, 5.97)*
25-29	33	59	1.95(1.04, 3.66)	5.82(2.45, 13.81)*
≥ 30	19	32	1.83(0.88, 3.82)	3.70(1.38, 9.93)*
Maternal education				
Unable to read and write	41	22	1	1
Read and write	39	42	2.0(1.02, 3.95)	2.25(0.93, 5.49)
Primary education	50	76	2.83(1.51, 5.31)	1.80(0.75, 4.35)
Secondary and above	5	45	16.77(5.82,48.38)	4.18(1.02, 17.20)*
Paternal education				
Unable to read and write	22	13	0.14(0.59, 0.32)	3.061(0.68, 13.79)
Read and write	26	22	0.20(.09, 0.42)	0.88(0.28, 2.79)
Primary education	67	64	0.22(0.12, 0.40)	0.96(0.38, 2.42)
Secondary and above	20	86	1	1
Maternal occupation				
Governmental employed	12	21	1	1
Housewife	101	127	0.09(0.021, 0.39)	0.20(0.4, 1.18)
Daily laborer	16	10	0.02(0.003, 0.10)	0.10(0.01, 0.82)*
Merchant	7	25	0.027(0.05, 1.39)	0.49(0.07, 3.51)*
Paternal Occupation				
Governmental employed	15	73	1	1
Daily laborer	62	11	0.02(0.01, 0.05)	0.01(0.004, 0.05)*
Merchant	58	101	0.15(0.06, 0.38)	0.16(0.06, 0.42)*
Place of delivery				
Health Center	98	146	4.68(1.93, 11.38)	2.36(0.67, 8.31)
Hospital	15	32	6.71(2.35, 19.13)	2.79(0.66, 11.86)
Home	22	7	1	1

Note: P-value of Hosmer and Lemeshow was found to be 0.966 and * indicates the significant factors with complementary feeding timing.

recommendation for timely initiation of complementary feeding which is greater than or equal 80% [24]. The magnitude of complementary feeding timing of this study was also lower than the study done in Bangladesh (71%) [25], Sir Lanka (84%) [26] and Nepal (70%) [27]. The difference noticed in this research might be due to low socio-economic status, poor infant and young child feeding practices and low health care access in Ethiopia.

On the other hand, the magnitude of complementary feeding timing was almost similar with the finding in Northern Ethiopia (62.8%) and Eastern Ethiopia (60.5%) [19,28] but higher than the national prevalence (51%) and a finding in Axum; Ethiopia (52.8%) [17,29].

The present magnitude was also better than the findings in West Bengal; India (55.1%), Taiwan (50%), and Nairobi (less than 10%) [30-32]. The higher prevalence in this study probably health extension workers in Ethiopia provide continuous health information dissemination to

the community about complementary feeding timing.

It was figured out that complementary feeding timing was higher among mothers who completed secondary education compared with mothers who cannot read and write. This finding is agreed with studies in Ghana, Eastern Ethiopia, Nairobi Kenya, Northern Ethiopia and Tanzania, respectively [16,28,32-34]. This might be explained by the fact that there is no question that educated mothers can provide better care for themselves and for their infants than those with no education. Education also provides better health knowledge, attitude, and practice towards timely introduction of complementary feeding.

The study also revealed that complementary feeding timing was increased among governmental employed mothers and their counterparts/husbands/ compared to daily laborers. This finding was consistent with a study in other areas [16,19,35]. This might be happened since employed women and their partners have ceaseless

income and able to provide appropriate commentary feeding to their young infants in timely manner.

It was noticed that timely initiation of complementary feeding was more likely to occur among mothers who got pregnancy in the age group 20-24 and 25-29 years old compared to mothers below age 20 years old. This finding was in line with other studies [16,35]. This could be explained as elder mothers not only own better knowledge of pregnancy and child bearing, ready psychologically and physically but also they have better understanding and experience concerning timely initiation of complementary feeding.

Conclusion

Nearly three among five mothers timely initiated complementary feeding. Women education, creating and promoting income generating activities and health information dissemination strategies, on benefits of avoiding early pregnancy, through mass media and health extension workers need to be considered.

Limitations

When interpreting the findings of this study, scholars need to consider the following limitations. First, the cross sectional nature of the design made unable to arrive at the causal relation between the predictors and timely complementary feeding timing. Second, as the study is based on a sample of children with duration of age 6 to 23 months old, there might be recall bias among mothers. Third, practices of complementary feeding and its frequency were not taken in to account.

Ethical Approval and Consent to Participate

Ethical clearance was obtained from the ethical clearance Institutional Review Board of Hawassa University, College of Medicine and Health Sciences. Permission letter was taken from study area health administrators to conduct the research. For study participants below age 18, informed verbal and written consent was taken from their mothers/care takers after explaining the purpose of the study.

Availability of Data and Materials

All the data (questionnaire and SPSS data) were protected and available in a secured place at Hawassa University; College of Medicine and Health Sciences and can be obtained from the corresponding author upon reasonable request.

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Authors' Contribution

DTH conceived the study, monitored the data collection process, analyzed the data and wrote the manuscript. DJT, TAA, FBB participated in designing the study, supervising data collection process and writing the manuscript. All authors read and approved the final manuscript.

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