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Initiation Time of Breastfeeding and Associated Factors among Mothers Delivering at Southwest Region Hospitals, Ethiopia

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Abstract

Background: Breastfeeding is a pillar practice during the postnatal period. Recognizing factors associated with the initiation of breastfeeding plays a huge role in improving the habit of breastfeeding. This study aimed to determine and identify factors affecting the timely initiation of breastfeeding among mothers who delivered preterm neonates.

Methods: Institutional based cross-sectional study was conducted among 480 women at Southwest Regional hospitals from March to September 30/2020, in Ethiopia. Study participants were nominated using a systematic random sampling technique. Data were collected using pretested and interviewer-administered questionnaires. The data were entered into Epi data version 3.5 and analyzed using SPSS version 25. Binary and multivariate logistic regression analyses were performed to determine the association between predictors and timely initiation breastfeeding initiation.

Results: Early initiation of breastfeeding was 41% (95% of the confidence interval: 37.1%-45.6%). History of Antenatal care visits (AOR= 6.04, 95%CI 3.14-11.58), 1st minute Apgar <7 scores (AOR=0.57, 95% CI 0.33-0.98), and neonates who received kangaroo mother care (AOR=4.46, 95% CI 2.79-7.13) were positively associated with timely initiation of breastfeeding. Women who gave birth through cesarean section were initiated breastfeeding lately (AOR= 0.37, 95% CI 0.19-0.69) than women who gave birth via spontaneous vagina delivery.

Conclusion: In this study early initiation of breastfeeding was low. Antenatal care follow-up, low 1st minute Apgar score, caesarian section, and received kangaroo mother care had a significant effect on the initiation of breastfeeding. All concerned bodies have to engage to promote the timely initiation of breastfeeding for lactating women.

Keywords: breastfeeding; neonate; early; late; preterm

Introduction

Breastfeeding is the ideal and natural way to nurture infants. Mother's milk is the most complete food in the first six months of life [1]. Due to nature's giftedness, it is the most feasible, cost-effective, and affordable irrespective of the country's wealth. According to the world Health Organization recommendation guidelines, mother's milk must be started immediately after delivery and it must be considered the only food for the baby in the first six months of life and then it should be preserved minimum of two years combined with a child's diet [2].

Breastfeeding is the only means of obtaining nutrition for neonates until six months and has a variety of roles including; mother-infant bonding, growth, and development, being mentally capable, enhancing the baby's immunity, disease prevention, and minimizing morbidity and mortality in infants [3, 4] (Layuk, Wardihan, and Asad, 2021). In addition to infants'

benefits, the timely practice of breastfeeding has also owned maternal-side benefits regards decreasing the amount of vaginal blood loss and improving uterine through stimulation involution of production and facilitating uterine contraction during the postpartum period [6]. By considering those benefits, World Health Organization strongly recommended initiation of breastfeeding within one hour after birth for infants to reach 90%. On the contrary, delayed initiation of breastfeeding has been found to increase early neonatal morbidity, mortality, and impaired mother-infant bonding [7, 8]. Indeed, mothers who delivered preterm neonates made the problems worse.

The Early initiation of breastfeeding (EIBF) prevalence varies widely among countries and ranging from 17 % to 98% [9]. According to studies conducted in Africa including Northwest Ethiopia [10], Tanzania [11], Burkina Faso [12], Cameroon [13], and Ghana [14] revealed that 75%, 83%, 41%,40%,& 39.4% of neonates practiced late

initiation of breastfeeding respectively. Furthermore, a Meta-analysis in Middle Eastern countries [15] indicated that 34.3% ([CI]: 20.2%-51.9%) of newborns received breastfeeding initiated within an hour of birth. The United Nations International Children's Emergency Fund (UNICEF) reported that 56% of neonates practiced early initiation of breastfeeding in East Europe and Central Asia [16]. Numerous factors affecting breastfeeding initiation, such as low birth weight and preterm infants, neonatal illness, mother's age, mother's educational level, child's birth weight, household economic status, and residential area are the predominant factors reported in previous studies [17,18]. Moreover, maternal knowledge and perception play undeserved role in the timely initiation of breastfeeding.

Despite the current World Health Organization plan and strong recommendations, late initiation and holding breastfeeding at the beginning are commonly practiced in the present study setting, Ethiopia. Generally, to the best of our knowledge, there are limited published studies have been available on breastfeeding; specifically, on the timely initiation of breastfeeding among women who delivered preterm neonates at Southwest region hospitals, in Ethiopia. Therefore, this study aimed to identify the proportion and factors affecting the timely initiation of breastfeeding among preterm delivered mothers in Southwest region hospitals, in Ethiopia.

Methods and Materials Study setting

The study was conducted at Southwest Region public hospitals, in Ethiopia namely Mizan-Tepi University teaching hospital, Tepi general hospital, and G/tsadik Shawa General Hospital. All hospitals provided delivery services with postpartum care. More than 665 newborns were delivered monthly in three governmental hospitals (Mizan-Tepi University teaching hospital, Tepi General Hospital, and G/tsadik Shawo general hospital) (Source: the previous hospitals' quarter report).

Study design and study participants

A facility based cross-sectional study was conducted among mothers who delivered preterm neonates at Southwest region hospitals from March 2020 to September 30/2020. All mothers who delivered preterm neonates at Southwest region hospitals were considered the source population, while women who

delivered preterm neonates at Bench Sheko, Kafa, and Sheka zone hospitals during the data collection period were considered the study population.

Inclusion and exclusion criteria

Mothers who delivered live preterm neonates at Southwest region hospitals were included in this study. Mothers with contraindications to breastfeeding, newborns' congenital anomalies (Cleft lip and cleft palate), and those with newborns presenting emergencies that needed urgent management at birth, such as major digestive malformation, and neurologic problems with feeding disorders were excluded.

Sample size determination and sampling technique

Sample size determination

A single population proportion formula was used to calculate the sample size by considering the following statistical assumptions with proportion (P) = prevalence of timely initiation breastfeeding which took from a previous Ethiopian DHS report [10], which accounts for 75 %, 95% confidence interval at Z $\alpha/_2$ (=1.96) and Margin of error (d) = (4%).

$$n = \frac{(z \propto /2)^2 \times p(1-p)}{d^2}$$

$$n = (1.96)2 \times 0.75 \times \frac{(1 - 0.75)}{(0.04)2} = 450$$

After adding a 10% non-response rate, the total sample size was 495.

Sampling technique

All three hospitals found in Bench Sheko, Kafa, and Sheka zone were included in this study. The sample size was proportionally allocated to each health facility. A systematic sampling technique was used to select individual study participants using patients assigned serial numbers.

Terms definition

Early breastfeeding: initiation of mother's breast milk to infants within one hour of birth[19].

Late breastfeeding: Provision of mother's breast milk to infants one hour after birth.

Preterm: Infants are delivered before 37 weeks, but after 28 weeks of gestational age [20].

Data collection instrument and procedure

Data were collected through face-to-face interviews using a structured and pretested questionnaire adapted from the previous literature(Salasibew,

Filteau, and Marchant, 2014). The questionnaire had three sections including socio-demographic characteristics, maternal characteristics, and neonatal characteristics.

Quality Control

First the questionnaires were prepared in the English language then translated into the local language spoken in the study area (Amharic language) and back-translated into English. A pretest of the study was conducted in another setting with a small sample (5%) before the actual data collection period to ascertain questionnaire consistency. Six BSc nurses and three MSc personnel were recruited as the data collectors and supervisors respectively. Data collectors were trained in the data collection process for one day. The principal investigator checked the data for completeness and consistency at the end of every day.

Data Analysis

Data entry and coding were performed using Epi-data version 3.5 and data analysis was performed using SPSS version 25. Binary and multivariate analyses were used to determine the factors associated with the timely initiation of breastfeeding. Odds ratios and 95% confidence intervals were used to measure the strength of the association between the timely initiation of breastfeeding and independent variables. In binary logistic regression variables with P-value of less than 0.25 were considered candidate variables for multivariate regression, while in multivariate logistic regression variables with a p-value less than 0.05 were

considered statistically significant. Descriptive analysis frequencies, percentages, means, and standard deviations were computed to explore the socio-demographic characteristics of the study participants. The results were presented using text, tables, figures, and graphs.

Ethical consideration

Ethical approval letters were obtained from the institutional review board (IRB) of Mizan Tepi University. Permission letters were written to the administrators of each hospital. The participants were informed of the study's objectives and their right to terminate their participation at any time and they were informed that their information was kept confidential and that verbal informed consent was obtained from all participants.

Results

Socio-demographic and obstetric Characteristics

A total of 480 participants were rolled in an interview with a response rate of 97%. The majority of 416(86.7%) respondents were found in the age range between 20-34 years (Mean age with SD; 25.26±4.37). More than two-thirds 324(67.9%) of the participants were living in rural and approximately half 236 (49.2%) of respondents were prim-gravidas. The majority of 388(80.8%) participants had antenatal care visits, of which only 119(24.8%) fulfilled the minimum requirement or recommendation for ANC follow-up (Table 1).

Table 1: Maternal and neonatal characteristics at Southwest region hospitals, Southwest Ethiopia, 2021.

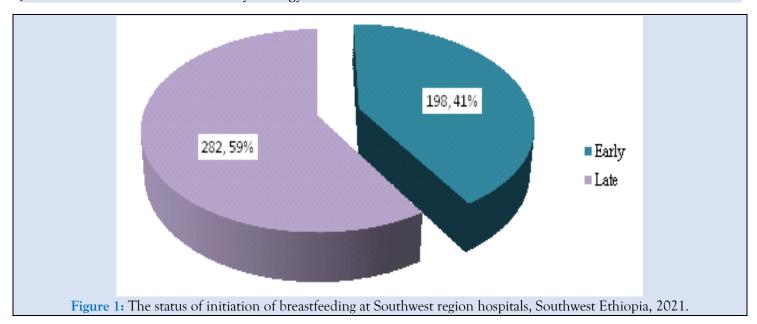
Variables	Category	Frequency (N)	Percent (%)	
A	<20	45	9.4	
	20-34	416	86.7	
Age of mother	>=35	19	4	
	Mean & SD	25.26±4.37		
Matana da nasi dan m	Urban	154	32.1	
Maternal residency	Rural	326	67.9	
D:	Prime-gravida	236	49.2	
Parity	Multigravida	244	50.8	
T. (Single	370	77.1	
Type of pregnancy	Multiple	110	22.9	
TT 1 A 1	Yes	388	80.8	
Had Antenatal care visit	No	92	19.2	
Number of ANC Visit	1-3	269	55	
Number of ANC Visit	4	119	24.8	
DI (1 1)	Home	23	4.8	
Place of delivery	Health institution	457	95.2	
T. (D	Cephalic	410	85.4	
Type of Presentation	Non-cephalic	70	14.6	
Made of delicer	SVD	386	80.4	
Mode of delivery	Caesarian section	94	19.6	
Any obstetrics complication	No	433	90.2	
during delivery	Yes	47	9.8	
Had the neonate been	No	395	82.3	
diagnosed with asphyxia	Yes	85	17.7	
1 st minute APGAR score	7-10	342	71.3	
1 ininute APGAK score	<7	138	28.8	
Had neonate received KMC	No	217	45.2	
Trad neonate received KMC	Yes	263	54.8	

More than half 291(60.6%) of neonates' sexes were male and the majority 287 (59.8%) of neonates' gestational age was lies under 32-37weeks at birth (Table 2).

Table 2: Neonatal characteristics at southwest region hospitals, southwest Ethiopia, 2021.

Sex of neonate	Female	189	39.4
	Male	291	60.6
Gestational age	28-32Wk	193	40.2
at birth	32.1-37Wk	287	59.8
Birth Weight	<1000	26	5.4
	1000-1499	186	38.8
	1500-2499	259	54.0
	2500-3999	9	1.9

Initiation of breastfeeding



More than half 198(41%) of the respondents have practiced late initiation of breastfeeding; the remaining respondents had commenced breastfeeding within one hour (Figure 1).

Bivariate and Multivariate logistic regression

In binary logistic regression, predictors including residence, parity, women who had ANC visits, place of delivery, mode of delivery, neonates who developed Asphyxia, first minute Apgar score, and neonates who received KMC service were a candidate for multivariate logistic regression. However, multivariate analysis showed that only four variables were statistically associated with the initiation of breastfeeding. These predictors included ANC visits (AOR= 6.04, 95%CI 3.14-11.58), mode of delivery (AOR= 0.37, 95% CI 0.19-0.69), 1st minute Apgar <7 score (AOR=0.57, 95% CI 0.33-0.98), and neonates who received KMC (AOR=4.46, 95% CI 2.79-7.13).

Respondents who had ANC visits during their pregnancy were six times more likely to practice early breastfeeding initiation than those who didn't have any ANC follow-up during pregnancy (AOR= 6.04, 95%CI 3.14-11.58). In part, the mode of delivery was also a significant predictor for the time of breastfeeding initiation; neonates who were born via cesarean section were 63% times less likely to initiate early breastfeeding than those born through spontaneous vaginal delivery (AOR= 0.37, 95% CI 0.19-0.69). Furthermore, neonates with Apgar scores < 7 were 42% less likely to practice early breastfeeding initiation than neonates with an Apgar score of 7 to 10 (AOR=0.57, 95% CI 0.33-0.98). The current study findings revealed that utilization of kangaroo mother care was statistically associated with the initiation of breastfeeding; neonates who received kangaroo mother care were four times more likely to initiate breastfeeding than their counterparts (AOR=4.46, 95% CI 2.79-7.13) (Table 3).

Table 3: Bivariate and multivariate logistic regression results of Factors affecting initiation of breastfeeding among mothers gave preterm neonates in Southwest region's hospitals, Southwest Ethiopia, 2021.

Variables	Category	Initiation of breast feeding		COR [95%CI]	AOR [95%CI]	P-
						Value
		Early	Late			
Age of mother	<20	19	26	**		
	20-34	168	248	0.93(0.49-1.73)	.74(.36-1.50)	.403
	>=35	11	8	1.88(0.63-5.57)	1.10(.31-3.93)	.878
Maternal residence	Urban	74	80	1.51(1.02-2.22)	1.55(0.97-2.48)	0.066
	Rural	124	202	**		
Parity	<=1	86	150	**		
	>=2	112	132	1.48(1.03-2.13)	1.18(0.76-1.84)	0.451
Type of pregnancy	Single	155	215	**		
	Multiple	43	67	0.9(0.57-1.37)	.79(.48-1.31)	.368
Antenatal care visit	Yes	173	215	2.15(1.31-3.56)	6.04(3.14-11.58)	0.000*
	No	25	67	**		
Presentation at	Cephalic	170	240	**		
delivery	Non-cephalic	28	42	0.94(0.56-1.57)	2.64-1.31-5.30)	.006
place of delivery	Health institution	185	272	**		
	Home	13	10	2.09(0.84-5.44)	1.05(0.39-2.93)	0.888
Mode of delivery	SVD	174	212	**		
	Caesarian section	24	70	0.42(0.25-0.69)	0.37(0.1969)	0.002*
Sex of the newborn	Female	74	115	**		
	Male	124	167	1.15(0.79-1.67)	1.17(.754-1.82)	.482
Neonate diagnosed	No	42	68	**		
with sepsis	Yes	156	214	1.18(0.76-1.86)	1.08(.65-1.80)	.751
Neonate diagnosed	No	157	238	**		
with asphyxia	Yes	41	44	1.41(0.88-2.26)	1.03(1.57-1.85)	0.913
1st minute APGAR	7-10	160	182	**		
score	<7	38	100	0.43(0.28-0.66)	0.57(0.34-0.98)	0.042*
Had neonate	Yes	122	95	3.16(2.16-4.61)	4.46(2.79-7.13)	0.001*
received KMC	No	76	187	**		

Key: AOR: Adjusted odd ratio, COR: Crude odd ratio, "reference category, * statistically significant variables

Discussion

This study aimed to assess the factors affecting the timely initiation of breastfeeding among mothers. The present study showed that 41% (95% CI: 37.1%-45.6%) of respondents had practiced early initiation of breastfeeding. This study is consistent with studies conducted in Burkina Faso[12], Cameroon [13], and Ghana [14], which revealed 41%,40%,& 39.4%, respectively, commenced breastfeeding within a one-hour duration. However, this finding was lower than the WHO recommendation of 90% and previous studies conducted in Ethiopia [21], Tanzania [11], and Iraq [22]; which revealed that 75%, 83%, 70% of respondents had commenced early initiation of breastfeeding respectively. This discrepancy is due to variations in the provision of healthcare services,

participants' health literacy, study area, and period. However, the present findings are higher than those of studies conducted in Rwanda [23], and Saudi Arabia [24], which reported that only 20.5% & 11.4% of mothers of neonates initiated breastfeeding within one hour respectively. The possible reason for this discrepancy might be due to the variation in health care service provision and participants' health literacy. According to this study; Antenatal care was significantly associated with timely initiation of breastfeeding. Respondents who had ANC visits during their pregnancy were six times more likely to practice early breastfeeding initiation than those who haven't ANC follow-up during pregnancy. This finding is consistent with studies of Ethiopian DHS reports [25], A Meta-analysis of observational studies [26], Nepal [27], and Turkey [28]. A possible reason might be that women with a history of ANC followup during their pregnancy; might have a better chance of being aware of breastfeeding counseling provided by healthcare providers. The present study's findings showed that the mode of delivery was also significantly associated with the timely initiation of breastfeeding. Women who gave birth through cesarean section were initiate breast feeding lately (AOR= 0.37, 95% CI 0.19-0.69) than women gave birth via spontaneous vagina delivery. This finding is similar to those of the, 2016 Ethiopian Demographic and Health Survey [10], Ohio-US [29], George Mason University, USA[30], Pakistan [31], A systematic literature review conducted in Brazil [32], and A metaanalysis of Demographic Health Surveys across 31 countries [24]. The possible reason may be due to the nature of the procedures which may take a long time; mothers who had undergone caesarian sections usually feel discomfort and interfere to apply timely initiation of breastfeeding.

Furthermore, neonates with Appar scores < 7 were 42% less likely to practice early breastfeeding initiation than neonates with an Apgar score of 7 to 10. This finding is consistent with a study conducted in Ghana(14), which revealed that a low Apgar score was associated with the time to initiation of breastfeeding. This might be because neonates who required additional breathing support or additional support faced difficulty in timely breastfeeding initiation [33]. The current study findings revealed that utilization of kangaroo mother care was statistically associated with timely initiation of breastfeeding; neonates who received kangaroo mother care were four times more likely to have early breastfeeding initiation than their counterparts. This finding is consistent with studies including; a metaanalysis of published studies from January 2000 to June 30, 2018[34], longitudinal studies in Sweden [35], Bangladesh [36], India [37], and China [38]. One possible reason for this is that kangaroo mother care practices enhance skin-to-skin contact and promote breastfeeding.

Strength and limitation of the study

As a strength this study involved all public hospitals found in the Southwest region and had a high participant response rate. As a limitation, this study didn't address health care provider's perspectives on the early initiation of breastfeeding. In addition, due to its cross-sectional study design nature, this study

also didn't show the cause and effect of early initiation of breastfeeding.

Conclusion

Timely initiation of breastfeeding in the current study was lower than the World Health Organization recommendations. Histories of ANC visits, low 1st minute Apgar score, provision of KMC, and delivery via cesarean section were significantly associated with timely initiation of breastfeeding. Hence, health professionals working in the delivery ward should be aware of those factors to improve the proportion of early initiation of breastfeeding. Additionally, all concerned bodies should pay attention to enhancing and promoting the early initiation of breastfeeding.

Abbreviation

EIBF: Early initiation of breastfeeding,

EDHS: Ethiopian Demographic Health Survey;

COR: Crude Odd ratio; AOR: Adjusted Odd ratio; ANC: Antenatal care;

WHO: World Health Organization;

KMC: Kangaroo mother care

Declarations Consent to Participate

Both verbal and written informed consent was provided for study participants with information regarding the purpose, objective, procedures, potential risks and benefits of the study, and the right to withdraw from the study. They were also assured of strict confidentiality concerning any information obtained from them.

Data Availability

The data is available at the corresponding author upon reasonable request.

Author contributions

YD: Prepared the manuscript, reviewed, and edited a manuscript, statistical analysis, and interpretation. BF: writing the original draft, designing the study, preparing the manuscript, reviewing, and editing the manuscript. TB: designed the study, prepared the manuscript, reviewed, edited a manuscript, and critically reviewed the article. AY: designed the study, prepared the manuscript, reviewed, and edited the manuscript. All authors' contributions to conception and design, acquisition of data, analysis, and

interpretation of data, drafting of the article, and revising it critically.

Consent for publication

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