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Factors Associated with Exclusive Breastfeeding Cessation among Post-Partum Mothers in Ibadan South-East Local Government Area, Ibadan, Oyo State

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Annotation: The study aimed to determine factors associated with exclusive breastfeeding (EBF) cessation among post-partum mothers in Ibadan South East Local Government Area, Ibadan, Oyo state.

The study was cross-sectional in Ibadan South-East Local Government Area, Ibadan, Oyo State. A multistage sampling procedure was used to select 386 postpartum mothers from the study site. Sample size of 386 was used for the study. Data was collected using intervieweradministered questionnaire. Data collected was entered, clean, edited, and analyzed with SPSS version 21.

This study revealed that the majority of the respondents know EBF. Cessation of EBF was associated with younger age, number of children, number of ANC attendance, swollen breast, and the feeling that baby was not getting enough weight.

Conclusion and Recommendations: EBF was associated with problems/difficulties in the BF technique. It is recommended that health care professionals like doctors, nurses, and midwives should train mothers during and after pregnancy regarding BF technique or pumping breast milk in case of BF difficulties, improve mothers' confidence about the ability to breastfeed, and enhance mothers' knowledge on the normal process of lactation. Secondly, it is the role of policymakers to ensure the implementation of Baby-Friendly Hospital Initiative (BFHI) guidelines in hospitals to meet the WHO's global target of infants being exclusively breastfed until six months of age.

Key words: Exclusive breastfeeding, Cessation, EBF, risk factors, post-partum mothers

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INTRODUCTION

Breastfeeding is acknowledged as the optimal way to feed infants for the first six months by national and many other health organizations (AAP, 1997; United Nations Children's Fund, 2006; WHO, 2003). Despite its countless benefits to children and mothers, the continuation rates of EBF are low in the United States (Centers for Disease Control and Prevention [CDC], 2013c; Dudenhausen, 2014; Silfverdal, 2011). It is essential to understand how multiple factors affect breastfeeding practices in order to improve the duration of exclusive breastfeeding. Studies have consistently shown positive associations between increased duration of breastfeeding and demographic, biological, and social factors associated with mothers (Thulier& Mercer, 2009). It is estimated that improved breastfeeding rates increased from 64% to 75% in the hospital and from 29% to 50% by six months of age (Bartick& Reinhold, 2010)

A wide range of health benefits of exclusive breastfeeding to the infant and mother have been well documented in various evidence-based research studies (AAP, 2005). Numerous studies have shown that EBF between six months and two years of age has been associated with a decreased incidence of allergic disease, bacterial meningitis, bacteremia, diarrhea, respiratory tract infection, necrotizing enterocolitis, otitis media, urinary tract infection, late onset sepsis in preterm babies, lymphoma, leukemia, Hodgkin's disease, hypercholesterolemia, asthma, and postneonatal infant mortality (Dudenhausen, 2014; Silfverdal, 2011; Wiener & Wiener, 2011).

Research shows that prolonged and EBF has been associated with a reduction in the risk of sudden infant death syndrome, allergic dermatitis, respiratory infections in infants, and necrotizing enterocolitis in pretern infants (Krame& Kakuma, 2012). Studies have concluded that EBF also provides many maternal benefits such as reducing the chances of developing adverse health outcomes such as obesity and ovarian and breast cancer in mothers (Stevens, Hanson, Prasek, & Elliott, 2008; Thulier& Mercer, 2009). In order to effectively increase breastfeeding rates, there is a need for multi-dimensional interventions that concurrently tackle different aspects of breastfeeding barriers (Nabulsi et al., 2014).

Earlier studies have documented cessation of breastfeeding but reasons vary by infant age, parity and geographical distribution (Lamberti et al., 2011). Breastfeeding promotion is considered one of the essential elements of post-partum care. Given that breastfeeding has been observed to benefit both the mother's and infant's health, the World Health Organization (WHO) recommends that breastfeeding is initiated within an hour of birth, exclusive breastfeeding (EBF) is performed for the first six months, and breastfeeding is continued for at least two years (WHO., 2019).

These factors differ from one place to another. Studies in Nigeria investigated factors influencing exclusive breastfeeding practices among which includes fear of loss of weight, nature of the job, abstinence from certain foods and drugs, feeding problems of the baby, perception of breastfeeding as for rural and uneducated women, the health of the nursing mother, the drooping of breasts, and lower abdominal pain were among the factors associated with cessation of breastfeeding (Kilimbi, 2014). The most influencing factors identified were socioeconomic, demographics, cultural, obstetric, and pediatric factors (Lawoyinet al., 2001. Deaden et al., 2002). Various studies such as a cross-sectional study conducted by Ayinde, Asaolu &Alawale (2022) show thatnumber of parities, a mother's age, socioeconomic status, psychosocial factors, and maternity-leave duration are the predictors of breastfeeding duration. Exclusive breastfeeding is also independently associated with perceived inadequate breast milk, cesarean section delivery, and feeding counseling during postnatal care (Vieira, et al., 2014; Kasahunet al., 2016). However, the author is unaware of studies evaluating the factors for withdrawing the process of breastfeeding during the first six months of a child's life. This study is aimed at investigating factors associated with exclusive breastfeeding cessation among post-

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partum mothers. Information derived from the identified factors will assist program managers and health workers in developing feasible interventions and strengthening the existing factors on exclusive breastfeeding. Moreover, it will create an opportunity for policy debate and modification by a combination of the Ministry of Health, other Stakeholders and Policymakers, and all other effects related to exclusive breastfeeding by supporting exclusive breastfeeding and reducing the morbidity and mortality rate to children.

Research Questions

- 1. What is the knowledge of exclusive breastfeeding among post-partum mothers in Ibadan South East Local Government Area, Ibadan, Oyo state?
- 2. What is the breastfeeding pattern/rate among post-partum mothers in Ibadan South East Local Government Area, Ibadan, Oyo state.
- 3. What is the average exclusive breastfeeding cessation period among post-partum mothers in Ibadan South East Local Government Area, Ibadan, Oyo state?
- 4. What types of foods are given to the infants by post-partum mothers immediately following exclusive breastfeeding cessation in Ibadan South East Local Government Area, Ibadan, Oyo state?
- 5. What are the factors associated with exclusive breastfeeding cessation among post-partum mothers in Ibadan South East Local Government Area, Ibadan, Oyo state?
- 6. What are the health challenges experienced by children who experienced exclusive Breastfeeding cessation from their mothers in Ibadan South East Local Government Area, Ibadan, Oyo state?

Broad Objective

To investigate factors associated with exclusive breastfeeding cessation among post-partum mothers in Ibadan South East Local Government Area, Ibadan, Oyo state.

Specific Objectives

- 1. To investigate the knowledge of exclusive breastfeeding among post-partum mothers in Ibadan South East Local Government Area, Ibadan, Oyo state.
- 2. To assess the breastfeeding pattern/rate among post-partum mothers in Ibadan South East Local Government Area, Ibadan, Oyo state.
- 3. To investigate the average cessation period of exclusive breastfeeding among post-partum mothers in Ibadan South East Local Government Area, Ibadan, Oyo state.
- 4. To identify the types of foods given to infants following exclusive breastfeeding cessation by postpartum mothers in Ibadan South East Local Government Area, Ibadan, Oyo state.
- 5. To identify factors associated with exclusive breastfeeding cessation among post-partum mothers in Ibadan South East Local Government Area, Ibadan, Oyo state.
- 6. To assess the type of health challenges experienced by children who experienced exclusive Breastfeeding cessation from their mothers in Ibadan South East Local Government Area, Ibadan, Oyo state.

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Research Hypotheses

H01: There is no significant association between socio-demographic characteristics of respondents and cessation period of exclusive breastfeeding among post-partum mothers in Ibadan South East Local Government Area, Ibadan, Oyo state.

H02: There is no significant relationship between the knowledge on exclusive breastfeeding and the cessation period of exclusive breastfeeding among post-partum mothers in Ibadan South East Local Government Area, Ibadan, Oyo state.

H03: There is no significant relationship between types of foods given to infants following exclusive breastfeeding cessation and health challenges experienced.

MATERIALS AND METHODS

Study design

This study was carried out in Ibadan South-East Local Government Area, Ibadan, Oyo State. Ibadan SouthEast Local Government Area is one of the smallest local government area in the State with its administrative headquarters located in Mapo town.

Sampling Approach/Frame

The study population consisted of post-partum mothers within Ibadan South East Local Government Area, Ibadan, Oyo State. A multi-stage sampling procedure will be used to select 386 post-partum mothers from the study site.

Data Collection Method

Data was collected using interviewer-administered questionnaire which consist of the following.

Section A: Socio-demographic characteristics of respondents

Section B: Knowledge on exclusive breastfeeding among respondents

Section C: Breastfeeding pattern/rate among the respondents.

Section D: Average cessation period of exclusive breastfeeding among the respondents

Section E: Types of foods given to infants following exclusive breastfeeding cessation by post-partum mothers.

Section F: Factors associated with exclusive breastfeeding cessation among the respondents

Section G: Type of health challenges experienced by children who experienced exclusive breastfeeding cessation from their mothers.

Data Analysis

Data collected was entered, clean, edited, and analyzed with SPSS version 21. This included the analysis of mothers' age, marital status, occupation, level of education, and ethnicity. The frequency table diagram and tables were computed. The inferential statistic was used to determine the level of relationship between the independent variable of the respondent and dependent variables with a p-value less than 0.05

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Result Analysis

Socio-Demographic Characteristics of Respondents surveyed (n=386)

Variable	Responses	Frequency (386)	Percentage (100)
Age	20-29	81	21.0
_	30-39	198	51.3
	40-49	96	24.9
	50-59	11	2.8
Mean	34.58		
Std. Deviation	6.215		
Last child age	2	42	10.9
	3	56	14.5
	4	129	33.4
	5	115	29.8
	6	30	7.8
	10 & above	14	3.6
Sex of child	Female	229	59.3
	Male	157	40.7
Marital Status	Single	13	3.4
	Married	324	83.9
	Widowed	, 11 A	2.8
	Separated	38	9.8
Religion	Islam	175	45.3
	Christianity	211	54.7
Number of children	1	90	23.3
	2	84	21.8
	3	80	20.7
No. 1997	4	87	22.5
	5	29	7.5
	6	16	4.1
Highest level of education	No education	38	9.8
-	Primary	20	5.2
	Secondary	129	33.4
	Vocational	49	12.7
	NCE	94	24.4
	Polytechnic	32	8.3
	University	24	6.2

Socio-demographic characteristics of respondents surveyed (n=386)

Variable	Responses	Frequency (386)	Percentage (100)
Husband highest level of	No education	51	13.2
education	Primary	7	1.8
	Secondary	194	50.3
	Vocational	37	9.6
	Tertiary	97	25.1
Occupation	Civil Servant	30	7.8
	Housewife	12	3.1

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	Artisan	137	35.5
	Laborer/cleaner	7	1.8
	Student	14	3.6
	Unemployed	17	4.4
	Trading	169	43.8
Husband Occupation	Civil servant	122	31.6
-	Artisan	23	6.0
	Laborer/cleaner	139	36.0
	Others specify	102	26.4
Facility of ANC	Home	69	17.9
	Government hospital	168	43.5
	Mission hospital	25	6.5
	Private hospital	124	32.1
Initiation of ANC timing	1 st trimester	322	83.4
_	2 nd trimester	62	16.1
	3 rd trimester	2	0.5
Number of ANC attendance	10-15 times	59	15.3
	16-20 times	43	11.1
	21-25 times	96	24.9
	25-30 times	188	48.7
Type of marriage	Monogamy	63	16.3
	Polygamy	323	83.7
Average monthly income	5000-10000	35	9.0
	11000-20000	130	33.9
	21000-30000	77	19.8
	31000-40000	42	10.9
	41000-50000	32	8.3
No. 1	51000-60000	3	0.8
	61000-70000	4	1.0
	71000-80000	11	2.8
	91000-100000	40	10.4
	110000-120000	12	3.1

Table above shows the socio demographic characteristics of the respondents under survey. It was revealed that 81 (21.0%) of the respondents fell within age group 20-29, 198 (51.3%) fell within age group of 30-39, 96 (24.9%) fell within age group of 40-49 and 11 (2.8%) of the respondent were within age group of 50-59 years. The mean and standard deviation of the ages of the respondents were found to be 34.6 years and 6.2 years respectively.

There were more respondents (33.4%) with their last child being 4years old than those (29.8%) whose last child's age was 5years. This is followed by respondents (14.5%) whose last child's age was 3years. Some respondents (10.9%, 7.6%) had their last child aged 2years and 6years respectively while few (3.6%) had their last child older than 9years. There are more respondents (59.3%) whose index child was female. Majority of the respondents (83.9%) were married, 13 (3.4%) are single, 38 (9.8%) are separated and 11 (2.8%) are widowed.

The prominent religion practiced was Christianity (54.7%) while others (45.3%) practice Islam. There were more respondents (23.3%) with 1 child. This is closely followed by respondents (22.5%, 21.8%, 20.7%) with 4children, 2children and 3children respectively. Other respondents (7.5% and 4.1%) had 5children and 6children respectively. The table showed that majority (33.4%) of the respondents had

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Secondary education, this is followed by those with N.C.E (24.4%). Some (12.7%) had vocational training, some (6.2%) had university education while 38 (9.8%) had no education.

The study showed that about half of the respondents (50.3%) had secondary education, few (25.1%) had tertiary education while others (13.2%) had no formal education. The major occupations of the respondents were Trading (43.8%) and Artisan (35.5%). Others (7.8% and 1.8%) were civil servants and labourers/cleaners respectively. The respondents' spouse occupation were majorly labourers/cleaner (36%) and civil servant (31.6%). Majority of the respondents (43.5%) made use of government hospital for antenatal, some (32.1%) made use of private hospital, others (17.9% and 6.5%) had their antenatal clinic at home and at mission hospital respectively. Majority (83.4%) of the respondents were in their first trimester while 62(16.1%) and 2(0.5%) were in their second and third trimester respectively.

Almost half of the respondents (48.7%) had attended antenatal clinic between 25-30 times, others (24.9%, 15.3% and 11.1%) had attended antenatal clinic 21-25times, 10-15times and 16-20times respectively. Almost all the respondent (83.7%) are from polygamy family. Average income for the respondents were 11,000-20,000 (33.9%), 21,000-30,000 (19.8%), 31,000-40,000 (10.9%), 91,000-100,000 (10.4%), 5,000-10,000 (9%).

Variable	Responses Frequency (386)		Percentage (100)
Have you heard of exclusive	Yes	386	100%
breastfeeding?		$(A \cup D)$	1111
If yes, where?	Health institution	210	54.4
	Mass media	41	10.6
	Books	105	27.2
	Family and	30	7.8
	friend	C D LL	0
Do you know breastfeeding should	Yes	273	70.7
be initiated within the first hour	No	113	29.3
after delivery			
Do you know EBF should last for	Yes	339	87.8
6months	No	47	12.2
Does EBF includes giving the	Yes	250	64.8
baby water along with	No	136	35.2
breastfeeding			
Does EBF improve a child's	Yes	346	89.6
immunity	No	40	10.4
Does EBF allows child spacing	Yes	228	59.1
	No	158	40.9
Does EBF reduce risk of breast	Yes	240	62.2
cancer	No	146	37.8
Do you know expressed breast	Yes	120	31.1
milk is also allowed for EBF	No	266	68.9
Do you think bottle-feeding should	Yes	320	82.9
be encouraged for EBF	No	66	17.1
Do you think breast milk is not	Yes	307	79.5
always sufficient for the child for	No	79	20.5
the duration of 6months and			

Knowledge on	of exclusive	breastfeeding	among	respondent

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thereby need pap after 3months			
Do you know prescribed drugs are	Yes	360	93.3
allowed during EBF period	No	26	6.7

Table above shows the knowledge of exclusive breastfeeding among respondents. The study revealed that all the respondent (100%) had heard of exclusive breastfeeding. More than half of the respondents (54.4%) heard about exclusive breastfeeding from the health institution, this is followed by those (27.2%) who read about it from books while others (10.6%, 7.8%) heard it from the social media and family & friends respectively. Majority of the respondent (70.7%) mentioned that breastfeeding should be initiated within the first hour after delivery. Almost all the respondents (87.8%) mentioned that exclusive breastfeeding should last for 6 months. There were more respondent (64.8%) who agreed that EBF includes giving the baby water along with breastfeeding.

Almost all the respondents (89.6%) mentioned that exclusive breastfeeding improved a child's immunity. More than half of the respondents (59.1%) mentioned that EBF allows child spacing. Many respondents (62.2%) believed that EBF reduced risk of breast cancer. There were more respondents (68.9%) who mentioned that expressed breast milk is not allowed for Exclusive breastfeeding. Almost all the respondents (82.9%) felt bottle-feeding should be encouraged for EBF. Majority of the respondents (79.5%) mentioned that breast milk is not enough for the child thereby there would be need for pap after 3 months. Almost all respondents (93.3%) mentioned that prescribed drugs are allowed during EBF period. JENTRAL ASIA:

Variable	Responses	Frequency (386)	Percentage (100)
When did you start breastfeeding	Within 1hr	256	66.3
after delivery	After 1hr	130	33.7
What is the daily frequency of	On demand	337	87.3
breastfeeding this index child	Regularly	10	2.6
	Randomly	39	10.1
Did you give colostrum to your	Yes	322	83.4
baby	No	64	16.6
Have you given your last baby	Yes	81	21.0
Prelacteal food	No	305	79.1
Did you ever practice exclusive	Yes	162	42.0
breastfeeding	No	224	58.0
Did the baby get breast milk	Directly me	323	83.7
directly from you alone or it was	Combined with	63	16.3
combined with expressed milk	expressed milk		

Breastfeeding pattern

Table above show the breastfeeding patterns among the respondents. It was revealed that many respondents (66.3%) start breastfeeding within 1hour after delivery while others (33.7%) start after 1hour. Only few respondents (2.6%) breastfed their index child regularly, majority of the respondents (87.3%) breastfed on demand while others (10.1%) do randomly. Majority of the respondents (83.4%) claimed to have given their baby colostrum after delivery while few (16.6%) did not. Many participants (79.1%) gave their index child prelacteal food before initiating breastfeeding while others (21%) did not. Less than half of the respondents (42.0%) had practiced exclusive breastfeeding while others (58.0%) never did. Almost all the respondents (83.7%) mentioned that fed their baby directly from breast to mouth without any form of expression while other (16.3%) combined direct breast milk with expressed breast milk.

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Variable	Responses	Frequency (386)	Percentage (100)
Did you give any solid/liquid other	Yes	224	58.0
than breast milk, vitamin, syrup or	No	162	42.0
medication to child at aged or less			
than six months			
If yes, how often do you give	Rarely	21	5.4
solid/liquid before the age of six	Sometimes	70	18.1
months	Many times	133	34.5
	No Response	162	42.0
Did you continue Breastfeeding after	Yes	93	24.0
you stopped before the age of six	No	131	34.0
months	No Response	162	42.0
If yes, how often do you breastfeed	Rarely	101	26.2
your baby after the cessation of EBF.	Sometimes	81	21.0
	Many times	42	10.8
	No Response	162	42.0
For how long did you stop EBF	2 weeks	85	22.0
before you continued	2 months	9	2.3
12	3 months	12	3.1
	3 weeks	112	29.0
	4 months	6	1.6
	No Response	162	42.0

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vuage cessation	periou or caciusiy	t preasuceume	amone the respondence
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Table above shows the average cessation period of exclusive breastfeeding among the respondents. It was revealed that, other than breast milk, vitamin, syrup or medication, more than half of the respondents (58.0%) combined solid/liquid with breast milk, vitamin, syrup or medication at less than 6months. This combination of solid/liquid was given many times by many respondents (34.5%) and this is followed by respondents (18.1%) who sometimes give solid/liquids, other respondents (5.4%) only give on rare occasions. There were more respondents (34.0%) who did not continue breastfeeding after the cessation of EBF than those who did (24.0%). Following the cessation of EBF, it was revealed that about a quarter of the respondents (26.2%) rarely breastfeed their baby, some mothers (21.0%) sometimes breastfeed their baby while few (10.8%) only breastfeed their baby many times. It was discovered that there were more respondents (29.0%) who stopped EBF for 3weeks than those (22.0%) who stopped for 2weeks before continuing to breastfeed the child. Others who stopped for a little longer period did for 2months (2.3%), 3months (3.1%) and 4months (1.6%).

Types of foods given to infants following exclusive breastfeeding cessation by post-partum mother

Variable	Responses	Frequency (386)	Percentage (100)
Pap was given to my child after I	Yes	176	45.6
stopped	No	48	12.4
	No Response	162	42.0
My baby was taking formula milk	Yes	135	34.9
	No	89	23.1
	No Response	162	42.0
I was giving my baby cereal	Yes	85	22.0
	No	139	36.0

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	No Response	162	42.0
I was giving my baby family food	Yes	163	42.2
	No	61	15.8
	No Response	162	42.0

Table above shows the types of foods given to infants following exclusive breastfeeding cessation by post-partum mother. This foods include Pap (45.6%), formula milk (34.9%), baby cereal (22%) and family food (42.2%).

Variable	Responses	Frequency (386)	Percentage (100)
I stopped EBF because I had to	Yes	55	14.2
return to work	No	169	43.8
	No Response	162	42.0
My child was not getting enough	Yes	150	38.9
milk and was not gaining weight, so	No	74	19.1
I had to introduce other food	No Response	162	42.0
My baby was sick after delivery and	Yes	52	13.4
was unable to suck, that was why we	No	172	44.6
had to give her formula	No Response	162	42.0
I stopped exclusive BF because I	Yes	176	45.6
was having breast pain or swollen	No	48	12.4
breast	No Response	162	42.0

Factors associated with exclusive breastfeeding cessation among the respondents

Table above shows the factors associated with exclusive breastfeeding cessation among the respondents. It was revealed that only few respondents (14.2%) stopped EBF because they had to return to work, about one-third of the respondents (38.9%) stopped EBF and introduce other foods because they felt their child was not gaining enough weight. Some respondents (13.4%) mentioned that their baby was sick after delivery and was unable to suck so baby formula had to be introduced. Almost half of the respondents (45.6%) stopped exclusive breastfeeding because of breast sore or swollen breast.

Type of health challenges experienced by children who experienced exclusive breastfeeding cessation from their mothers.

Variable	Responses	Frequency (386)	Percentage (100)
Diarrhea	Yes	200	51.8
	No	24	6.2
	No Response	162	42.0
Acute respiratory infection	Yes	150	38
	No	74	97.2
	No Response	162	42.0
Fever	Yes	180	14.0
	No	44	86.0
	No Response	162	42.0
Acute loss of weight	Yes	120	1.0
	No	104	99.0
	No Response	162	42.0

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Tableabove shows the type of health challenges experienced by children who experienced exclusive breastfeeding cessation from their mothers. It was revealed that very few respondents mentioned that their children experienced health challenges after exclusive breastfeeding cessation. Almost all respondents (95.3%) claimed that their children did not experience diarrhea while few (4.7%) claimed they did. Acute respiratory infection only affected a few (2.8%). Only 14% mentioned that their baby had fever after the cessation and just one percent mentioned that their baby had acute weight loss after the cessation.

Test of Hypothesis

 H_01 : There is no significant association between socio-demographic characteristics of respondents and cessation period of exclusive breast-feeding among post-partum mothers in Ibadan South East Local Government Area, Ibadan, Oyo state.

		Ι	X^2	DF	p- value	Outcome				
		Cessatio								
		2	3	2	3	4				
		Weeks	Weeks	Months	Months	Months				
	20-	18	44	1	3	1				
	29	(22.2%)	(54.3%)	(1.2%)	(3.7%)	(1.2%)		Ν.	1.1.1	N 1
Age	30-	45	49	4	8	3	1.1	\mathbf{N}_{i}	51.0	. N
	39	(22.7%)	(24.7%)	(2.0%)	(4.0%)	(1.5%)	71.65	15	0.000	Sig.
	40-	20	10	4	1	2				
	49	(20.8%)	(10.4%)	(4.2%)	(1.0%)	(2.1%)				
1.1	50-	2	9	0	0	0	M	2.50		
	59	(18.2%)	(81.8%)	(0.0%)	(0.0%)	(0.0%)	× 1 1	1.00		
100	1	21	43	1	3	3				
- 885		(23.3%)	(47.8%)	(1.1%)	(3.3%)	(3.3%)				
	2	13	40	1	2	0				
Number		(15.5%)	(47.6%)	(1.2%)	(2.4%)	(0.0%)				
of	3	8	10	0	0	2				~
Children		(10.0%)	(12.5%)	(0.0%)	(0.0%)	(2.5%)	166.5	25	0.000	Sig.
	4	34	15	5	6	1				
		(39.1%)	(17.2%)	(5.7%)	(6.9%)	(1.1%)				
	5	0	0	0	0	0				
		(0.0%)	(0.0%)	(0.0%)	(0.0%)	(0.0%)				
	6	9	4	2	1	0				
		(56.3%)	(25.0%)	(12.5%)	(6.3%)	(0.0%)				

Association between socio-demographic and Cessation period of EBF

Table 4.8b: Association between socio-demographic and Cessation period of EBF

Description								Outcom e
Cessation period of exclusive breast- feeding								
23234WeeksWeeksMonthMonthMonth								

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				C	c	C				
	1 to 12	85	112	0	12	6				
Index	1 to 12 Months	(22.80)	112	(2, 40%)	(2, 20/)	(1.6%)	20.00	5	0.00	Sig
Child	wontins	(22.0%)	(30.1%)	(2.4%)	(3.2%)	(1.0%)	20.09	5	0.00	Sig.
Child	25 4 26))	0	0	0			1	
Age	25 to 36		0							
	Months	(0.0%)	(0.0%)	(0.0%)	(0.0%)	(0.0%)				
~ ^	Female	46	70	6	10	3		_		
Sex of		(20.1%)	(30.6%	(2.6%)	(4.4%)	(1.3%)	4.82,	5	0.43	N.Sig
Child))						8	
	Male	39	42	3	2	3				
		(24.8%	(26.8%	(1.9%)	(1.3%)	(1.9%)				
))							
	Single	1	12	0	0	0				
		(7.7%)	(92.3%	(0.0%)	(0.0%)	(0.0%)				
Marital)							
Status	Married	70	85	5	9	5	58.33	15	0.00	Sig.
		(21.6%	(26.2%)	(1.5%)	(2.8%)	(1.5%)			0	U
))							
	Widowed	5	3	2	0	1				
		(45.5%)	(27.3%)	(18.2%)	(0.0%)	(91%)				
)	(27.570	(10.270	(0.070)	().1/0)	$-\Lambda$	6.2	1.1	N 201
	Separated	9	12	2	3	0	- 7 N		$1/\Lambda$	N
	Separated	(23.7%	(31.6%	(53%)	(7.9%)	(0.0%)				
		(23.170	(51.070	(5.570)	(1.)/0)	(0.070)				
	Drimory)	10	0	1	1				
	1 Illiai y	(5,00%)	10	(0,0%)	(5,00())	(5,0)()	1 U	C		
		(3.0%)	(30.0%)	(0.0%)	(3.0%)	(3.0%)	117	0		
	Casardamy	22)	6	5	4				
TT: DO	Secondary	33	10	0	\mathbf{C}	4				
Hignest		(25.6%	(12.4%)	(4./%)	(3.9%)	(3.1%)	155.0	20	0.00	C !-
Level of))	0			155.2	30	0.00	Sig .
Educatio	Vocationa	9	28	0	0	0	1		0	
n	1	(18.4%)	(57.1%	(0.0%)	(0.0%)	(0.0%)				
))							
	NCE	28	39	2	4	0				
		(29.8%	(41.5%	(2.1%)	(4.3%)	(0.0%)				
))							
	Polytechni	1	12	0	0	0				
	с	(3.1%)	(37.5%)	(0.0%)	(0.0%)	(0.0%)				
)							
	University	13	7	1	2	1	1			
		(54.2%)	(29.2%	(4.2%)	(8.3%)	(4.2%)				
)))							

Table 4.8c: Association between socio-demographic and Cessation period of EBF

	I	F valu e	me
Cessation period of exclusive breast-			

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				feeding						
		2	3	2	3	4				
		Weeks	Weeks	Mont	Mont	Mont				
				hs	hs	hs				
	Islam	43	61	6	6	2				
Religion		(24.6	(34.9	(3.4%	(3.4%	(1.1%	13.5	5	0.01	Sig.
C		%)	%))))	5		9	
	Christianity	42	51	3	6	4				
		(19.9	(24.2	(1.4%	(2.8%	(1.9%				
		%)	%))))				
	No formal	3	9	0	0	1				
	education	(5.9%)	(17.6	(0.0%	(0.0%	(2.0%)				
			%))))				
Husband	Primary	0	0	0	0	0				
highest		(0.0%)	(0.0%)	(0.0%	(0.0%	(0.0%	72.5	20	0.00	Sig.
level of)))	8		0	
education	Secondary	41	61	5	7	2				
		(21.1	(31.4	(2.6%	(3.6%	(1.0%				
		%)	%))))				
	Vocational	13	-22	0	1	1				
		(35.1	(59.5	(0.0%	(2.7%	2.7%	- A	\sim	1Λ	\sim
		%)	%)))	X 1.2	1.1	10	1.2.7	1.0
	Tertiary	28	20	4	4	2				
		(28.9	(20.6	(4.1%	(4.1%	(2.1%)				
		%)	%))))				
	Civil servant	15	9	1	1	1	115.	5		
		(50.0	(30.0	(3.3%	(3.3%	(3.3%				
100		%)	%))))	_			
1995	House wife	- 0	0	0	0	0				
- N.S.		(0.0%)	(0.0%)	(0.0%	(0.0%	(0.0%				
	<u>.</u>	. –)))				
Occupati	Artisan	17	67	0	3	0	110	20	0.00	d.
on		(12.4	(48.9	(0.0%	(2.2%)	(0.0%	116	30	0.00	Sig.
		%)	%))))			0	
	Labourer/Clea		0	0	0	0				
	ner	(0.0%)	(0.0%)	(0.0%	(0.0%	(0.0%				
	C 1 1	~	0)))	-			
	Student) (), 7	8		0					
		(35./	(5/.1)	(7.1%	(0.0%	(0.0%				
	TT	%)	%))))	-			
	Unemployed	$\begin{pmatrix} 2 \\ (11.9) \end{pmatrix}$	$\begin{pmatrix} 2 \\ (11.0) \end{pmatrix}$							
		(11.8	(11.8	(0.0%	(0.0%	(3.9%				
	Tue d'are	%)	%) 26)))	-			
	Trading	40	$\frac{20}{154}$	/	ð (4.70/	(2.40)				
		(21.2)	(13.4	(4.1%)	(4./%)	(2.4%)				
	<u> </u>	<u>%</u>)	<i>%)</i>)))	1			<u> </u>

 Table 4.8d: Association between socio-demographic and Cessation period of EBF

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	r	Outco
	val	me
Coggetion period of evolutive breast	ue	
feeding		
Week Week Mont Mont Mont		
s s hs hs hs		
Civil servant 31 53 2 2 3		
Husband (25.4 (43.4 (1.6 (2.5		
Occupati %) %) %) %) 132. 15 (0.00	Sig.
on Artisan 5 3 2 0 1 44	0	
(21.7 (13.0 (8.7 (0.0 (4.3		
<u>%)</u> %)%)%)%)		
Labourer/Cleaner 44 48 5 9 1		
(31.7 (34.5 (3.6 (6.5 (0.7		
<u>%)</u> %) %) %) %)		
Home 15 22 1 1 2		
(21.7 (31.9 (1.4 (1.4 (2.9 1.4		
<u>%)</u> %)%)%)%)		
Facility Government 24 53 1 4 1 58.3 15 0	0.00	Sig.
of ANC hospital/clinic/healt (14.3 (31.5 (0.6 (2.4 (0.6 9	0	
hcare %) %) %) %)		
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$		
$(16.0 \ (0.0\% \ (0.0 \ (0.0 \ (4.0 \ (4.0 \ (4.0 \ (0.0 \ (0.0 \ (4.0 \ (4.0 \ (4.0 \ (0.0 \ (0.0 \ (4.0 \ (4.0 \ (0.0 $		
Private hospital 42 37 7 7 2		
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$		
<u>%)</u> <u>%)</u> <u>%)</u> <u>%)</u> <u>%</u>)		
$\begin{array}{ c c c c c c c c c c c c c c c c c c $		
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		
Number %) %) %) %) of ANC 16 20 down 8 5 0 0 2		
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	0.00	Sig
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	0.00	org.
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	U	
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$		
$ \begin{vmatrix} (+3.0 & (20.0 & (+.2 & (0.3 & (3.1 \\ 0^{\prime}_{\Lambda}) & 0^{\prime}_{\Lambda}) & 0^{\prime}_{\Lambda} \end{vmatrix} $		
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$		
(101) (415) (21) (27) (05)		

Association between socio-demographic and Cessation period of EBF

Description		X^2	D F	p- valu	Outcom e
	Cessation period of exclusive breast- feeding			e	

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		2	3	2	3	4				
		Weeks	Weeks	Month	Month	Months				
				S	S					
	Monogam	13	18	4	3	1				
Type of	У	20.6%	28.6%	6.3%	4.8%	1.6%				
Marriag	Polygamy	72	94	5	9	5	6.21	5	0.28	N.Sig
е		22.3%	29.1%	1.5%	2.8%	1.5%			6	
	1st	74	101	7	8	4				
	trimester	(23.0%	(31.4%	(2.2%)	(2.5%)	(1.2%)				
Initiatio))			, ,	42.7	10	0.00	Sig.
n of	2nd	10	11	2	4	1	9		0	C
ANC	trimester	(16.1%	(17.7%	(3.2%)	(6.5%)	(1.6%)				
))	`´´´		× ,				
	3rd	1	0	0	0	1				
	trimester	(50.0%	(0.0%)	(0.0%)	(0.0%)	(50.0%				
)		()	())				
	< 20.000	31	42	4	5	2				
	,	(18.8%	(25.5%	(2.4%)	(3.0%)	(1.2%)				
))	(,)	(0.070)	(112/0)				
	21.000-	26	27	3	1	0	_			
Average	30,000	(21.8%	(22.7%)	(2.5%)	(0.8%)	(0.0%)	$-\Lambda$	100	1.4	N. 1
Monthly	50,000	(21.070	(22.770	(2.570)	(0.070)	(0.070)	1.1		$1.^{\Lambda}$.N
Income	41.000-	5	10	0	1	2	92.6	25	0.00	Sig
income	60,000	(14.3%	(28.6%	(0.0%)	(2.9%)	(5.7%)	5	23	0.00	515 .
	00,000	(17.370	(20.070	(0.070)	(2.)/0)	(3.770)	5		Ū	
	61 000)	13	0	2	0	1 LC	S. 1		
	80,000	(0, 0)	(86.7%	(0,0%)	(12.2)	(0, 0)	117	с л .,		
	80,000	(0.0%)	(80.7%)	(0.0%)	(13.3)	(0.0%)				
and the second	91.000	16	17	1	2	1				
	81,000-	10	$\frac{1}{(42.50)}$	(2.50)	(7,50)	(2.50)				
1	100,000	(40.0%	(42.3%	(2.3%)	(7.3%)	(2.3%)				
	101.000))	1	0	1				
	101,000-		3							
	120,000	(58.3%	(25.0%	(8.3%)	(0.0%)	(8.3%)				
))							

Table above shows the association between socio-demographic characteristics of the respondents and cessation period of EBF. Here, the association between cessation of EBF and socio-demographic characteristics of respondents were found to be statistically significant with Age ($X^2(15) = 71.65$, 0.000), Number of Children ($X^2(25) = 166.5$, 0.000), Index Child Age ($X^2(5) = 20.09$, 0.000), Marital Status ($X^2(15) = 58.33$, 0.000), Highest Level of Education ($X^2(30) = 155.21$, 0.000), Religion ($X^2(5) = 13.55$, 0.000), Husband highest level of education ($X^2(20) = 72.58$, 0.000), Occupation ($X^2(30) = 116$, 0.000), Husband Occupation ($X^2(15) = 132.44$, 0.000), Facility of ANC ($X^2(15) = 58.39$, 0.000), Number of ANC Attendance ($X^2(15) = 84.92$, 0.000), Initiation of ANC ($X^2(10) = 42.79$, 0.000) and Average Monthly Income ($X^2(25) = 92.65$, 0.000). Therefore, the null hypothesis is hereby rejected and the alternative hypothesis accepted.

 H_02 : There is no significant relationship between the knowledge on exclusive breast-feeding and cessation period of exclusive breast-feeding among post-partum mothers in Ibadan South East Local Government Area, Ibadan, Oyo state.

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		1						1		
Descr	iption						X^2	D	р-	Outcom
	-							F	valu	е
									e	-
		Cess	ation per	riod of ex	clusive b	reast-				
			F	feeding						
		2	3	2	3	4				
		Week	Week	Month	Month	Month				
		S	S	S	S	S				
	Low	2	3	0	0	0				
	Knowledg	5.9%	8.8%	0.0%	0.0%	0.0%				
Knowledg	e						40.9	10	0.00	Sig
e Level	Average	60	56	7	8	5	9		0	
	Knowledg	27.8%	25.9%	3.2%	3.7%	2.3%				
	e									
	High	23	53	2	4	1				
	Knowledg	16.9%	39.0%	1.5%	2.9%	0.7%				
	e									

Association between knowledge and Cessation period of EBF

Table above shows the association between the knowledge of exclusive breastfeeding and the cessation period of EBF. Here, the association knowledge of EBF was found to be statistically significant with cessation period of EBF ($X^2(10) = 40.99$, p=0.000). Therefore, the null hypothesis is hereby rejected and the alternative hypothesis accepted.

 H_03 : There is no significant relationship between types of foods given to infants following exclusive breastfeeding cessation and health challenges experienced.

Description	مر ا			X^2	DF	p-value	Outcome
	5	I gave my	baby PAP				
\sim		Yes	No				
	Vac	159	41				
	168	79.5%	20.5%	387.6	4	.000	
Diarrhea	No	17	7				Sig.
	INO	70.8%	29.2%				
Acute Respiratory	Vac	122	28				
Infection	168	81.3%	18.7%	389.5	4	.000	Sig.
	No	54	20				
	INO	73.0%	27.0%				
	Vas	149	31				
	105	82.8%	17.2%	402.5	4	.000	Sig.
Fever	No	27	17				
	INU	61.4%	38.6%				
Acute loss of	Vas	90	30				
weight	105	75.0%	25.0%	389.3	4	.000	Sig.
	No	86	18				
	110	82.7%	17.3%				

Association between PAP and health challenges experienced

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Table above shows the association between the types of food giving to infants following the cessation of EBF and the health challenges experienced. Here, the association between PAP and the health challenges was found to be statistically significant with Diarrhea ($X^2(4) = 387.6$, p=0.000), Acute Respiratory Infection ($X^2(4) = 389.5$, p=0.000), Fever ($X^2(4) = 402.5$, p=0.000) and Acute Loss of Weight ($X^2(4) = 389.3$, p=0.000). Therefore, the null hypothesis is hereby rejected and the alternative hypothesis accepted.

Description				X^2	DF	p-value	Outcome
		I gave For	mula Milk				
		Yes	No				
	Vac	117	83				
	168	58.5%	41.5%	390.2	4	.000	
Diarrhea	No	18	6				Sig.
	INO	75.0%	25.0%				
Acute Respiratory	Vas	94	56				
Infection	105	62.7%	37.3%	387.9	4	.000	Sig.
	No	41	33				
	INU	55.4%	44.6%				
	Vec	109	71				
	105	60.6%	39.4%	386.1	4	.000	Sig.
Fever	No	26	18	сr XI.	e é :	YOT.	X . N
	INU	59.1%	40.9%				
Acute loss of weight	Ves	120	0				
	1 05	100.0%	0.0%	679.6	4	.000	Sig.
	No	-15	89				
	110	14.4%	85.6%				

Association between Formula Milk and health challenges experienced

Table above shows the association between the types of food giving to infants following the cessation of EBF and the health challenges experienced. Here, the association between Formula Milk and the health challenges was found to be statistically significant with Diarrhea ($X^2(4) = 390.2$, p=0.000), Acute Respiratory Infection ($X^2(4) = 387.9$, p=0.000), Fever ($X^2(4) = 386.1$, p=0.000) and Acute Loss of Weight ($X^2(4) = 679.6$, p=0.000). Therefore, the null hypothesis is hereby rejected and the alternative hypothesis accepted

Association	between	Baby	Cereal	and	health	challenges	experienced
		•					1

Description			X^2	DF	p-value	Outcome	
		I gave Baby Cereal					
		Yes	No				
	Vac	72	128	391.2	4	.000	
	105	36.0%	64.0%				
Diarrhea	No	13	11				Sig.
	INO	54.2%	45.8%				
Acute Respiratory	Vac	42	108	418.9	4	.000	
Infection	105	28.0%	72.0%				Sig.
	No	43	31				
	110	58.1%	41.9%				
	Yes	61	119	397.0	4	.000	

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		33.9%	66.1%				Sig.
Fever	No	24	20				
	INO	54.5%	45.5%				
Acute loss of weight	Vac	37	83	395.6	4	.000	
	168	30.8%	69.2%				Sig.
	No	48	56				
	INO	46.2%	53.8%				

Table above shows the association between the types of food giving to infants following the cessation of EBF and the health challenges experienced. Here, the association between Baby Cereal and the health challenges was found to be statistically significant with Diarrhea ($X^2(4) = 391.2$, p=0.000), Acute Respiratory Infection ($X^2(4) = 418.9$, p=0.000), Fever ($X^2(4) = 397.0$, p=0.000) and Acute Loss of Weight ($X^2(4) = 395.6$, p=0.000). Therefore, the null hypothesis is hereby rejected and the alternative hypothesis accepted

Description			X^2	DF	p-value	Outcome	
		I gave Fai					
		Yes	No				
	Vas	153	47	408.6	4	.000	
	105	76.5%	23.5%	$-\Delta =$	- 12	127	ΛN
Diarrhea	No	10	14	er ver	a 16.	COL:	Sig.
	INO	41.7%	58.3%				
Acute Respiratory	Vos	122	28	415.0	4	.000	
Infection	105	81.3%	18.7%	1.2.1.5	1.1.1	1.0	Sig.
	No	-41	33	UU		.5	
	NO	55.4%	44.6%				
~ 20	Yes	141	39	410.7	4	.000	
		78.3%	21.7%				Sig.
Fever	No	22	22				
~~~	NU	50.0%	50.0%				
Acute loss of weight	Ves	74	46	413.7	4	.000	
	103	61.7%	38.3%				Sig.
	No	89	15				
	110	85.6%	14.4%				

Association between Family Food and health challenges experienced

Table above shows the association between the types of food giving to infants following the cessation of EBF and the health challenges experienced. Here, the association between Family Food and the health challenges was found to be statistically significant with Diarrhea ( $X^2(4) = 408.6$ , p=0.000), Acute Respiratory Infection ( $X^2(4) = 415.0$ , p=0.000), Fever ( $X^2(4) = 410.7$ , p=0.000) and Acute Loss of Weight ( $X^2(4) = 413.7$ , p=0.000). Therefore, the null hypothesis is hereby rejected and the alternative hypothesis accepted.

 $H_04$ : There is no significant relationship between cessation period and onset of diseases experienced by the infants

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Descriptio	n						$X^2$	DF	p-	Outcome
-									value	
		Cessation period of exclusive breast-feeding								
		2	3	2	3	4				
		Weeks	Weeks	Months	Months	Months				
	Vac	73	104	7	10	6				
	res	(36.5%)	(52.0%)	(3.5%)	(5.0%)	(3.0%)	394.5	10	0.000	
Diarrhea	No	12	8	2	2	0				Sig.
	INO	(50.0%)	(33.3%)	(8.3%)	(8.3%)	(0.0%)				
Acute	Vac	57	79	3	6	5				
Respiratory	res	(38.0%)	(52.7%)	(2.0%)	(4.0%)	(3.3%)	398.9	10	0.000	Sig.
Infection	No	28	33	6	6	1				
	INU	(37.8%)	(44.6%)	(8.1%)	(8.1%)	(1.4%)				
	Vac	66	93	6	10	5				
	105	(36.7%)	(51.7%)	(3.3%)	(5.6%)	(2.8%)	389.5	10	0.000	Sig.
Fever	No	19	19	3	2	1				
	INU	(43.2%)	(43.2%)	(6.8%)	(4.5%)	(2.3%)				
Acute loss	Vac	56	51	3	6	4				
of weight	1 65	(46.7%)	(42.5%)	(2.5%)	(5.0%)	(3.3%)	403.3	10	0.000	Sig.
	No	29	61	6	6	2	1.1	$\sim$	1.4	. N
	INU	(27.9%)	(58.7%)	(5.8%)	(5.8%)	(1.9%)				

Association between cessation period and onset of diseases experienced by the infants

Table above shows the association between cessation period and onset of diseases experienced by the infants. Here, the association between cessation period of exclusive breastfeeding and onset of diseases experienced by infants was found to be statistically significant with Diarrhea ( $X^2(10) = 394.5$ , p=0.000), Acute Respiratory Infection ( $X^2(10) = 398.9$ , p=0.000), Fever ( $X^2(10) = 389.5$ , p=0.000) and Acute Loss of Weight ( $X^2(10) = 403.3$ , p=0.000). Therefore, the null hypothesis is hereby rejected and the alternative hypothesis accepted.

### CONCLUSION

A lot of work is needed to improve care for infant feeding and early relationship building in all birth centers, public or private. This work must be carried out by a multidisciplinary group that studies the strengths and difficulties in each hospital regarding the promotion of breastfeeding. It is advisable to produce a written consensus, shared with all health care worker and those who act at the time of delivery, to encourage breastfeeding and discourage the administration of artificial milk, and liquid/solid foods before the infant aged 6months. Our study confirms how important it is that specialized health professional's act as "breast feeding promoters" that can facilitate early initiation and reduce the abandonment at the first difficulties. It is important, in all hospitals, to support the mother for breastfeeding in the first moments after childbirth to increase the number of those who will then continue with exclusive breastfeeding. This "promoter" could be especially helpful in encouraging and supporting women with low levels of education that failed to understand the concept and benefit of exclusive breastfeeding.

### RECOMMENDATIONS

Based on the result of the study, the following recommendations are made:

1. To create training program for health care providers to improve mother's knowledge on exclusive breastfeeding.

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- 2. To create interventions that will improve and strengthened EBF counseling within the health system.
- 3. To promote well-baby visits, antenatal and early postpartum education, and also during home visits by community health workers, should improve maternal knowledge and attitudes toward breastfeeding practice.
- 4. To create training program for health care providers to improve mother's knowledge on exclusive breastfeeding.
- 5. To create interventions that will improve and strengthened EBF counseling within the health system.

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