

**Awareness and Determinants of Exclusive breastfeeding Practices among Nursing Mothers attending Primary Health Care Facilities in Uyo, Akwa Ibom State Nigeria.**

**ABSTRACT**

Introduction

Aim :To determine the level of awareness, prevalence and determinants of Exclusive Breastfeeding (EBF) among nursing mothers attending Primary Health Care (PHC) facilities in Uyo Local Government, Nigeria

STUDY DESIGN: Descriptive cross-sectional

Place and Duration of Study: three selected Primary Health care facilities in Uyo Local Government (LG) of Akwa Ibom state Nigeria. June-July 2017

Methods

The study used a descriptive cross sectional design involving 331 mothers attending child welfare clinics in three (PHC) facilities that were selected using simple random sampling techniques. A structured interviewer administered questionnaire was used to collect data on socio- demographic characteristics, awareness and practice of EBF. Categorical variables were summarized using percentages, and continuous data using mean and standard deviation, chi square was used to assess the relationship between variables. While multivariate logistic regression was used to determine independent predictors of EBF practice

Results

The level of awareness of EBF and early initiation of breastfeeding (EIBF) were 89% and 88.5% respectively and universal awareness was 81.3%. Out of 231 infants below 6 months, 42% of them were currently on EBF and 36.8% (122/331) of the infants 0-12 months had EBF, the EIBF rate was 54.4%, about 45% of the infants had been on infant formula. Mothers who practiced EBF were significantly older than those who did not, the predictors of EBF were; delivery at the health facility (AOR 4.3; 1.84-10.49), normal delivery (AOR 2.3; 1.15-4.4), those with 2 (AOR 1.9; 1.04-3.4) or more than 3 children (AOR 4.7;1.91-9.9), mothers who had opportunity to breastfeed at work place (AOR 4;1.2-12.9) and mothers who were unemployed/self-employed (AOR 7.2; 2.2-23.7)

Conclusion

The practice of EBF remains poor despite relatively high level of awareness, measures such as Community-based breastfeeding support groups, one-on-one counselling and establishment of crèches in workplaces. The international codes on marketing of breast-milk substitutes should be fully implemented

**Key Words:** *Exclusive breastfeeding, Awareness, Practice, Determinants, Uyo*

**INTRODUCTION**

Exclusive breastfeeding (EBF) is said to be the most important child survival intervention, and has been described as the best gift a mother can offer her baby [1]. World Health Organization (WHO) defined EBF

“as the intake of only breast milk in the first 6 months of life and no food or drinks not even water except oral rehydration salt (ORS) and syrups (vitamins and other medicine) and if medically indicated”[2]. WHO recommends that mothers should initiate breastfeeding within 1 hour of delivery and breastfeed exclusively for 6 months and continue breastfeeding to 24 months (the first 1000 days of life). This practice alone can save 800,000 lives of under-five annually [3]. EBF makes available the best nutrients, which is easily absorbable, it serves as the first immunization for the baby, helps in the cognitive development and protects the child in adulthood against non-communicable diseases like diabetes mellitus [4]. It is equally beneficial to the mother in reducing post-partum hemorrhage, while some studies have also shown that it protects against some cancers in women [5,6]. The practice of EBF is key to the attainment of sustainable development goals.

Breast feeding is a common practice in African society but exclusive breast feeding is still foreign. The indicators of optimal breastfeeding practice include; i) early initiation of breastfeeding which is defined as initiation of breastfeeding within 1 hour of delivery, ii) exclusive breastfeeding for 6 months and continued breastfeeding up to 24 months [7]. With the numerous benefits of breastfeeding known and the recommendation by WHO, the practice of EBF is still very poor globally with a rate of 40% as at 2016 [8]. and a pooled prevalence of EBF in West Africa is 34.6% [9,10]. In Nigeria, according to 2013 National Demographic and Health survey (NDHS) the national prevalence of EBF was 17% [11]. In 2017, the Multiple Indicator Cluster Survey (MICS) reported national EBF rate of 23.7% and 27.2% for South-south region [12]. According to the 2017 MICS survey, the national average of early initiation of breastfeeding (EIBF) is 32.8% of children under the age of two [12]. A study done Akwa Ibom state showed an EBF rate of 22.8% among mother-infant pairs attending child welfare clinic in a primary health facility in Uyo [13]. These rates are far below the target of 90% coverage of infant less than 6 months recommended by WHO [14]. This is in spite of various government policies and programmes put in place, such as the Baby Friendly Hospital initiative (BFHI) and Infant and young child feeding practices (IYCF), However, the extent these programmes and policies translate to actual practice and the gaps and factors responsible for this experience have not been properly evaluated at the PHC level. Some studies have identified factors like attitudes of mothers [15], socio-cultural factors, maternal age [16], household income, number of ante natal visits and place of delivery [17] among others.

This study therefore aimed to determine the awareness and practice of exclusive breastfeeding and its determinants among mothers whose infants were receiving immunization in selected PHC facilities in Uyo, Akwa Ibom State in order to generate evidence for advocacy and decisions making on how to improve on the practice of exclusive breastfeeding in the study setting.

## **METHODOLOGY**

The study was conducted in Uyo, the capital city of Akwa Ibom State, one of the oil rich South-south states of Nigeria. Uyo Local Government Area (LGA) is one of the 31 LGAs and has an estimated

population of 456,996 [18]. The Local government has a number of both public and private health facilities these include a tertiary institution, one public private secondary facility and 14 primary health care facilities. This study was done in three selected PHC facilities in Uyo

The study population was all nursing mother-infant pairs attending child welfare clinics in the selected primary health care facilities in Uyo.

## **2.1 Study Design**

This was a descriptive cross sectional study of nursing mother-infant pairs attending child welfare clinic in the three selected PHC facilities in Uyo in June 2017.

A sample size of 331 was determined using exclusive breastfeeding rate of 22.8% [13] and a non-response rate of 10%.

Three health facilities were selected out of the `14 Primary health facilities in Uyo using simple random sampling technique. The sample size was proportionally allocated to the selected facilities; PHC barrack road, Uyo (PHC operational base), PHC Idoro and PHC Ikot Okubo at 55%, 25% and 20% respectively based on the CWC attendance in the month before the study. The nursing mother-infant pairs were enrolled consecutively in the order in which the babies were immunized until the sample size was attained in each facility. Mothers whose babies were above 12 months old were excluded from the study.

## **2.2 Data Collection Tool**

Data was collected by trained research assistants (final year medical students) using a pre-tested interviewer administered structured questionnaire to the nursing mothers at the selected facilities.

The questionnaire captured two questions on awareness based on WHO recommendation;

- 1) How soon should a child be put to breast after delivery?
- 2) How long should a baby be exclusively breastfed for?

And a set of questions on practice and socio-demographic factors, socio-cultural, ante natal attendance and some obstetric factors

## **2.3. Data Analysis**

Data was entered, cleared and analyzed using STATA version 12. Data was summarized using proportions for categorical data and mean and standard deviation (SD) for continuous data. Relationship was determined using chi square. Variables that were significant ( $p$  value $<$ 0.05) at bivariate level were fed into a multivariate model, to compute adjusted Odd ratio with 95% confidence interval. Results were presented using tables and figure.

### **2.3.1 Outcome variables and indicators**

#### **2.3.1.1.Awareness:**

Proportions of nursing mothers who were aware of early initiation of breastfeeding within 1 hour (EIBF) after delivery

Proportion of nursing mothers who were aware that nothing should be added to breast milk not even water before the 6<sup>th</sup> month.

Proportion of nursing mothers who were aware of both (universal awareness)

#### **2.3.1.2 Practice;**

Proportion of babies 0 -12 months who initiated breastfeeding within the first 1 hour of life

Proportion of babies 0 to 5 months who were currently on exclusively breastfeeding

Proportion of babies 0 to 12 months who were exclusively breastfed for at least 5 months

The proportion of babies 6 to 12 months on continuous breastfeeding

Proportion of babies 0 to 12 months on bottle feeding

#### **ETHICAL CONSIDERATION**

The ethical approval was obtained from Ethical Review Committee of University of Uyo Teaching Hospital. Participation in the study was voluntary and the respondents were assured of their confidentiality. Written informed consent was obtained from each respondent.

### **3.0 RESULTS**

Three hundred and thirty-one mother-infant pairs was recruited and analyzed for the study with the mean age of 27.8 (5.0) years, 38% of the women were within age group 26-30 years and were mostly married

(82%). About 85% had at least secondary level of education while more than half (58%) of them had at least 2 children, 40% of them had a monthly income above N40, 000. About 60% of the mother delivered in a health facility and about 39% were unemployed (Table1). The mean age of the infants was 3.6 (3.0) months and 52% (173) were males, about 62% of the babies were delivered in the health facility. (Table 1)

Eighty-nine percent of the mothers were aware of EBF for 6 months, 88.5% of them were aware that ideal time for initiation of breastfeeding is within 1 hour of delivery and 81.3% were aware of both (universal awareness) (Fig.1)

Almost all the babies (99.7%) had ever been breastfed and 54.4% initiated breastfeeding within the first 1 hour of life, at the end of 1 month of life about 44% had been given water, 33% of received artificial feeding before 6 months of life, 45% of the children under 12 months were on artificial feeding. (Table 2). Among infants 0-5 months, about 97% of them were still on breastfeeding and 42.0% were currently on EBF (Table 3), 25% of infants 6-12 months were exclusively breastfed for at least 5 month and only 3% of them had completely stopped breastfeeding (Table 4)

A total of 122 (36.8%) were practicing or had practiced EBF. Socio demographic characteristics like maternal age and number of children were significantly associated with the practice of EBF (Table 5). Other factors like place of delivery, ante natal attendance, mode of delivery and whether or not the nursing mother workplace do not encourage breastfeeding were also significantly associated with EBF practice. (Table 6)

The predictors of EBF practice include; delivery at the TBA (AOR 3;1.08-7.80), delivery at health facility (AOR 4.3; 1.84-10.49), normal delivery (AOR 2.3; 1.15-4.4), those who have 2 children (AOR 1.9; 1.04-3.4) or more than 3 children (AOR 4.7;1.91-9.9), those who were permitted to breastfeed at the workplace (AOR 4;1.2-12.9) and those who were unemployed or self-employed (AOR 7.2; 2.2-23.7). (Table 7)

Table 1: Socio-demographic characteristic of the respondents, June 2017

<b>Socio demography</b>	<b>Frequency</b>	<b>Percentage</b>
<b>Age (years)</b>		
Less than 21 years	25	7.6
21-25	85	25.7
26-30	126	38.1
31-35	77	23.3
36- 40	18	5.4
<b>Mean age (SD) 27.9 (5.0)</b>		
<b>Marital status</b>		
Single	60	18.1
Married	271	81.9
<b>Level Education</b>		
Primary	47	14.2
Secondary	158	47.7
Tertiary	126	38.1
<b>Occupation</b>		
Civil/public servant	59	17.8
Artisan	58	17.5
Trader	85	25.7
Professional	20	6.0
Unemployed	109	32.9
<b>Number of children</b>		
1	138	41.7
2	97	29.3
3	58	17.5
4	28	8.5
Above 4	10	3.0

Mean =2

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<b>Family income</b>		
Less than 10,000	37	11.2
10,000-20,000	46	13.9
20,000- 30,000	44	13.3
30,000-40,000	71	21.5
Above 40,000	133	40.2

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<b>Sex of infants</b>		
<b>Male</b>	173	52.3
<b>Female</b>	158	47.7

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<b>Place of delivery</b>		
<b>Home</b>	42	12.7
<b>TBA</b>	56	16.9
<b>Church</b>	29	8.8
<b>Health facility</b>	204	61.6

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<b>Age of infant in Month</b>		
<b>Mean (SD)= 3.6 (3.0)</b>		
<b>Less than 1 month</b>	33	10
<b>1</b>	60	18.1
<b>2</b>	54	16.3
<b>3</b>	65	19.6
<b>4</b>	12	3.6
<b>5</b>	7	2.1
<b>Above 5</b>	100	30.2

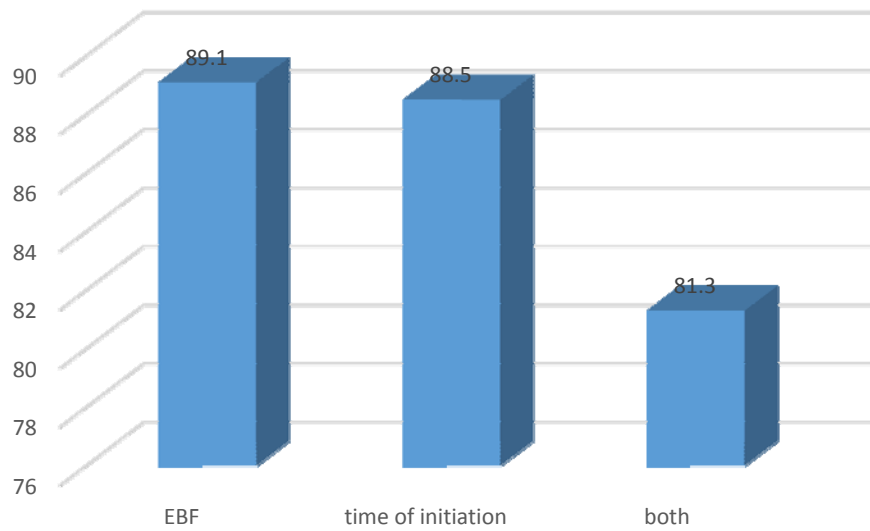


Fig.1 A bar chart showing the proportion of awareness of Exclusive breastfeeding, EIBF and Universal awareness

Table 2: Practice of Exclusive breastfeeding among nursing mothers attending PHC facilities in Uyo, June 2017

Variable	Frequency	Percentage
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<b>It's this child ever breastfed</b>		
<b>Yes</b>	330	99.7
<b>No</b>	1	0.3
<hr/>		
<b>When was breastfeeding commenced</b>		
<b>Within the first 1 hour</b>	180	54.4
<b>After the 1st 1 hour</b>	150	45.3
<b>Not breastfed at all</b>	1	0.3
<hr/>		
<b>How long was the child breastfed</b>		
<b>1 month</b>	65	19.6
<b>2 to 3 months</b>	74	22.4
<b>3 to 4 months</b>	55	16.6
<b>4 to 5 months</b>	38	11.5
<b>5 months and above</b>	98	29.6
<hr/>		
<b>When was water first added</b>		
<b>Within the first week of life</b>	21	6.3
<b>Within the first 1 month</b>	125	37.8
<b>2nd month</b>	22	6.6
<b>3<sup>rd</sup> month</b>	17	5.1
<b>4<sup>th</sup> month</b>	9	2.7
<b>5<sup>th</sup> month</b>	15	4.5
<b>6<sup>th</sup> month</b>	24	7.2
<b>Not yet given</b>	98	29.6
<hr/>		
<b>When was formula feeding introduced</b>		
<b>Not yet given</b>	181	54.7
<b>First month</b>	42	12.7
<b>1 to 3 months</b>	37	11.2
<b>3 to 5 months</b>	30	9.1
<b>At 6 months and beyond</b>	41	12.4

Table 3: Infants age 0 to 5 months attending PHC facilities in Uyo, June 2017

Variable	Frequency	Percentage
<b>Babies age 0 to 5 months still breast feeding</b>		
Yes	223	96.5
No	8	3.5
<b>Babies 0 to 5 months still breast feeding</b>		
With water	126	54.5
Without water (EBF)	97	42.0
Not breastfeeding currently	8	3.5

Table 4: Infants 6-12 months attending PHC facilities in Uyo, June 2017

Variable	Frequency	Percentage
<b>Babies above 5 months still breast feeding</b>		
Yes	97	97.0
No	3	3.0
<b>When was water added</b>		
Within first week of life	23	23.0
1 month	10	10.0
2 months	6	6.0
3 months	9	9.0
4 months	4	4.0
5 months	23	23.0
After 5 months	15	15.0
No water yet	10	10.0

Table 5: The relationship between Socio demographic characteristics of nursing mothers and the practice of exclusive breastfeeding in Uyo, June 2017

Variables	Breast feeding status n (%)		Total (n=331)	Statistical indices
	EBF(n=122)	No-EBF (n=209)		
<b>Maternal age(years)</b>				
Less than 21	6 (4.9)	19 (9.1)	25 (7.6)	$\chi^2 = 6.5471$

<b>21-25</b>	26 (21.3)	59 (28.2)	85 (25.7)	Df=4
<b>26-30</b>	51 (41.8)	75 (35.9)	126 (38.1)	P value=.16
<b>31-35</b>	30 (24.6)	47 (22.5)	77 (23.3)	
<b>36- 40</b>	9 (7.4)	9 (4.3)	18 (5.4)	
<b>Mean (SD)</b>	28.7 (4.9)	27.4 (5.0)	27.8 (5.0)	Df=329 Tt=-2.334 P value= .02+
<b>Level of Education</b>				$\chi^2 = 3.3153$
<b>Primary</b>	12 (9.8)	35 (16.7)	47 (14.2)	Df=2
<b>Secondary</b>	59 (48.4)	99 (47.4)	158 (47.7)	P value=.19
<b>Tertiary</b>	51 (41.8)	75 (36.9)	126 (38.1)	
<b>Marital status</b>				$\chi^2 = 3.2706$
<b>Single</b>	16 (13.1)	44 (21.1)	60 (18.1)	Df=1
<b>Married</b>	106 (86.9)	165 (78.9)	271 (81.9)	P value=.07
<b>Occupation</b>				
<b>Civil/public servant</b>	18 (14.7)	41 (19.6)	59 (17.8)	$\chi^2 = 1.5176$
<b>Artisan</b>	23 (18.8)	35 (16.7)	58 (17.5)	Df=4
<b>Trader</b>	31 (25.4)	55 (26.3)	86 (26.0)	P value=.82
<b>Professional</b>	8 (6.6)	12 (5.7)	20 (6.0)	
<b>Unemployed</b>	42 (34.4)	66 (31.6)	108 (32.6)	
<b>Number of children</b>				
<b>1</b>	38 (31.2)	100 (47.8)	138 (41.7)	$\chi^2 = 11.6780$
<b>2</b>	40 (32.8)	57 (27.3)	97 (29.3)	Df=3
<b>3</b>	23 (18.8)	35 (16.7)	58 (17.5)	P value=.01+
<b>More than 3</b>	21 (17.2)	17 (8.1)	38 (8.5)	
<b>Maternal income</b>				
<b>Less than 10,000</b>	17 (13.9)	20 (9.6)	37 (11.2)	$\chi^2 = 3.3955$
<b>10,000-20,000</b>	13 (10.7)	33 (15.8)	46 (13.9)	Df=4
<b>20,000- 30,000</b>	16 (13.1)	28 (13.4)	44 (13.3)	P value=.49
<b>30,000-40,000</b>	29 (23.8)	42 (20.1)	71 (21.5)	
<b>Above 40,000</b>	47 (38.5)	86 (41.1)	133 (40.2)	

Table 6: Factors affecting EBF practices of nursing mothers attending PHC facilities in Uyo, June 2017

Factors	Breast feeding status n (%)		Total (n=331)	Statistical indices
	EBF(n=122)	No EBF (n=209)		

<b>Place of delivery</b>				
<b>Health facility</b>	91 (74.6)	113 (54.1)	204 (61.6)	$\chi^2 =16.3193$ Df=3 P value<.001+
<b>TBA</b>	18 (14.8)	38 (18.2)	56 (16.9)	
<b>Home</b>	8 (6.6)	34 (16.3)	42 (12.7)	
<b>Church</b>	5 (4.1)	24 (11.5)	29 (8.8)	
<hr/>				
<b>ANC Visit</b>				
<b>Not booked</b>	4 (3.3)	14 (6.7)	18 (5.4)	$\chi^2 =19.7444$ Df=2 P value<.001+
<b>Less than 4</b>	48 (39.3)	127 (60.8)	175 (52.9)	
<b>4 or more</b>	70 (57.4)	68 (32.5)	138 (41.7)	
<hr/>				
<b>Mode of delivery</b>				
<b>Vaginal delivery</b>	105 (86.1)	156 (74.6)	261 (78.8)	$\chi^2 =6.0293$ Df=1 P value=.01+
<b>Caesarean section</b>	17 (13.9)	53 (25.4)	70 (21.2)	
<hr/>				
<b>Sex of the babies</b>				
<b>Male</b>	70 (57.4)	103 (49.3)	173 (52.3)	$\chi^2 =2.0232$ Df=1 P value=.15
<b>Female</b>	52 (42.6)	106 (50.7)	158 (47.7)	
<hr/>				
<b>Employer do not allow breastfeeding in the place of work</b>				
<b>Yes</b>	38 (31.1)	66 (31.6)	104 (31.4)	Fischer's exact Df=2 P value=.04+
<b>No</b>	4 (3.3)	22 (10.5)	26 (7.9)	
<b>Self/unemployed</b>	80 (65.6)	121 (57.9)	201 (60.7)	
<hr/>				
<b>The culture believes water should be added</b>				
<b>Yes</b>	56 (45.9)	79 (37.8)	135 (40.8)	$\chi^2 =2.0941$ Df=1 P value=.15
<b>No</b>	66 (54.1)	130 (62.2)	196 (59.2)	
<hr/>				
<b>Awareness of EBF&amp; EIBF</b>				
<b>Yes</b>	101 (82.8)	168 (80.4)	269 (81.3)	$\chi^2 =0.2925$ Df=1 P value=.59
<b>No</b>	21 (17.2)	41 (19.6)	62 (18.7)	

Table 7. Multivariate logistic regression in response to Exclusive breastfeeding practice among nursing mothers in Uyo

<b>Variables</b>	<b>Odd ratio</b>	<b>95%CI</b>	<b>P value</b>
<b>ANC visits</b>			
Not booked	Ref.		
Less than 4 visits	1.29	0.41-4.05	.66

4 or more visits	2.25	0.69-7.31	.18
<b>Place of delivery</b>			
Home	Ref		
TBA	2.90	1.08-7.80	.04+
Church	1.50	0.45-5.08	.51
Health facility	4.34	1.84-10.49	.001+
<b>Mode of delivery</b>			
<b>Caesarean section</b>	Ref		
<b>Normal delivery</b>	2.25	1.15-4.40	.02+
<b>Number of children</b>			
1	Ref		
2	1.87	1.04-3.37	.04+
3	1.82	0.91-3.66	.09
Above 3	4.68	1.91-9.85	.001+
<b>Employer does not permit breastfeeding at work place</b>			
I am cant breastfeed at my work place	Ref.		
Employer permits me to breastfeed	3.96	1.21-12.93	.02+
Unemployed/self employed	7.23	2.22-23.68	.001+

#### 4.0. DISCUSSION

This study showed the level of awareness of EBF and EIBF and the various factors associated with the practice of EBF. Of the 331 women recruited for the study 231 were mothers of infants 0-5 months and 100 had infants 6 -12 months old

In this study 89% of the respondents were aware that infants are to be given only breast milk for the first 6 months of life, and 88.5% of them were also aware that breastfeeding should be initiated within the first

one hour of life and universal awareness was 81.3%. However, a study in the South-East of the country reported awareness of 95% [19]. This high level of awareness had been attributed to the health education usually received during the ante natal services [20], since about 95% of the respondents attended ante natal care at least once during pregnancy of the index child. Moreso about 85% of the mothers had at least secondary level of education and studies had shown that there is a strong relationship between level of education and awareness of EBF [21]. EIBF rate in this study was 54.4% among infants 0-12 months, this is much higher than 22.8% reported in a previous study in Uyo 2011 [13], 21% reported in the Northern part of the country, these differences could be due to the fact that the level of awareness was low in those populations [21]. EIBF rate in this study is above the 32.8% reported in 2017 MICS [12], even though the denominator used in the survey was children 0-24 months. Late initiation of breastfeeding has been reported to increase the neonatal mortality [1]. According to WHO, EIBF rate of 50-89% is described as being good [22] and is to be encouraged.

The current EBF rate in this study was 42.0% among infants 0 to 5 months this is low considering the high level of universal awareness. EBF rate was defined as proportion of children 0-5 months on exclusive breastfeeding [12]. For Akwa Ibom state it was 28.3% and 23.7% as the national average [12]. Studies done in the North reported EBF rate of 39.7% in Jos [23] and 31% in Sokoto [24], most other studies have different study populations. However, higher EBF rates were reported outside Nigeria, 66% in Ghana [24], 61% in Ethiopia [26]. EBF rates among 0 to 12 months in this study was 36.9% greater than 22.8% reported from previous study with similar study population [13]. In a similar study done in the south west Nigeria EBF rate among under 2 was reported to be 56% [27]. Abasiattai et al reported EBF rate of 44.5% among antenatal attendees in a referral centre in Uyo [20] the only value greater than the rates reported in this study, probably because the age of the infants were not put into consideration and as such is not a good definition of EBF rate.

In this study, at the end of the first month of life, 45% of infants 0-12 months had already received water, about 44% of the infants had already taken infant formula, this is slightly lower than 49.6% earlier reported by Egwuda [13], and these two practices alone had been attributed to high diarrhea morbidity and mortality in sub-Saharan Africa [28]. This high used of infant formula may be due to the high level of income, where over 40% of the respondents earned more than N40,000 and perhaps thought they could afford infant formula. It is known that this practice is not sustainable, not safe and has been discouraged

The maternal age of those who practice EBF were significantly higher than those who did not. This may be as a result of maturity and experience, this finding is different from what had been reported in other studies, mothers above 20 years in Ghana [24] and 30 years in Ethiopia [29] were more likely to practice exclusive breastfeeding compared to those below those ages. Level of education of the mothers also influenced the practice of EBF in Nnewi it was reported that those with higher education were more likely to practice EBF [19]. However, in Ghana higher level of education of the mother predicted poor practice of EBF [25]. In this study, no relationship was seen between level of education and practice of EBF probably due to the fact that most of the respondents had good level of education, about 85% had at least completed secondary education.

Ante natal care attendance did not independently predict EBF practice in this study, a study in Sokoto reported that women who attended ANC were more likely to exclusively breastfed their children [24], even though ANC affords pregnant women the opportunity to receive health education on EBF. This does not always translate to practice. However, women who delivered in the health facilities were about four-fold more likely to exclusively breastfed their babies compared to those who delivered at home. This study shows that women who had spontaneous vaginal delivery were two times more likely to practice EBF than those who had caesarean section, this is consistence with a study in Nnewi [19]. This is probably due to time it takes to recover from anaesthesia, the weakness, pain and other stress associated with surgery, the baby is given pre lacteal feed and the mother simply have a good reason to continue on that. The likelihood of practicing EBF increased with the number of children a mother had, this might be as a result of past experiences and repeated contact with the health facility during ANC and delivery, mothers

with 2 children had 87% increased chance to practice EBF and mothers with more than 3 children were four-fold more likely to practice EBF compare to mothers who just had their first baby.

In this study women who were self-employed or unemployed were 7 fold more likely to practice EBF compared to those who were employed and were not allowed to bring their babies to workplace. This is similar to what was reported in Ghana where women who worked in public places were not likely to exclusively breastfed their babies [30]. The unemployed or self-employed have enough time with their babies which enable them to exclusively breastfeed their babies while the 90 days maternity leave given to those that are employed is not sufficient for them to practice EBF up to 6 months

#### Limitation

The study is facility based and it is where most mothers go to for immunizations, it may not represent the situation of EBF in the entire community. Other factors like cultural factors and maternal attitude had been reported to affect EBF practice but these were not assessed in this study

### 5.0 CONCLUSION

The practice of exclusive breastfeeding is still very low in this setting despite the high level of awareness, there is a need to institute more drastic measures such as community-based breastfeeding support groups, and one-on-one counselling sessions assist mothers overcome their barriers to EBF and not just the routine health talks. Employers of labour should establish crèches. The International codes on marketing of breast-milk substitutes should be fully implemented

### ACKNOWLEDGEMENT

I hereby by acknowledge the matrons and staff of the PHC facilities in Barracks road, Idoro road and Ikot Okubo. The following Final year Medical students who were the research assisstans; Ekum A. Mokwu, Abiori A. Akwesa, Ikopbo M. Kemfon and Okon M. Candy. .

### ETHICAL APPROVAL

All authors hereby declare that the research was approved by appropriate ethical committee and has therefore been performed in accordance with ethical standards laid down in the Declaration of Helsinki

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