Knowledge of Exclusive Breastfeeding among Nursing Mothers Attending under 5 Welfare Clinic in a Nigerian Tertiary Health Institution

N. C. Ekeleme, E. C. Iwuoha, S. N. Ijeoma, and P. I. Ejikem

ABSTRACT

Background: Exclusive Breastfeeding (EBF) offers important protective effects on child survival. Knowledge on EBF is a prerequisite to enhance its practice among nursing mothers.

Objective: To determine the knowledge of exclusive breastfeeding practice among nursing mothers attending Under-5 Welfare Clinic in a tertiary health facility in Nigeria.

Materials and Methods: This was a cross-sectional descriptive study involving 333 nursing mothers. Pre-tested self/interviewer administered questionnaires were used to obtain information from consenting eligible women. Knowledge was assessed using a 12-point score and classified as good or poor. Data obtained was analyzed using IBM SPSS version 25.

Results: Our respondents had a mean age of 31±4.9 years while 84.7% were 27 years and above. Majority were married (93.1%) with 57% of them having at least two (2) living children. Well over half of the respondents had attained a tertiary education. Antenatal care (ANC) was attended by 94.9% of the women where 96.8% said they had received advice on EBF. A total of 86% of the women had good knowledge score of EBF. Educational status and occupation showed statistically significant association with knowledge of EBF among the mothers (p<0.001 and \( p=0.018 \)) respectively while marital status (p=0.046), number of living children (p=0.001), educational status (p<0.001) and occupation (p=0.050) all showed significant association with ANC attendance.

Conclusion: The effect of female education on knowledge of health issues is brought to the fore by the findings of this study. More emphasis on delivering at health facilities where information to women on the practice of optimal breastfeeding is readily available will go a long way to reduce the infant and maternal mortality rates in Nigeria.

Keywords: Exclusive breastfeeding, Knowledge, Nursing mothers, Under-5 Clinic.

I. INTRODUCTION

Breast milk has the essential nutrients that a newborn need to grow healthy and strong. Adequate knowledge about exclusive breastfeeding is said to be the fundamental tool that can direct the course of EBF practice among mothers [1], [2]. Exclusive breastfeeding (EBF) is defined as exclusive intake of breast milk by an infant from its mother or wet nurse or expressed milk with addition of no other liquid or solid with the exception of drops or syrups consisting of vitamins, minerals supplements, or medicine and nothing else for the first six months [3].

Increasing breastfeeding prevalence to optimal levels has been identified by the Lancet’s Series on Child Survival to reduce 13% of all child deaths in low income countries. The Global Burden of Diseases, Injuries and Risk Factor Study ranked Suboptimal breastfeeding as the second largest risk factor for children under five, accounting for the loss of 47.5 million Disability Adjusted Life Years (DALYs) in 2010 [5].

Sub-Saharan Africa has been the worst affected with the highest proportion of disease burden associated to suboptimal breastfeeding [5].

Marital status, place of delivery, maternal education and attitudes towards exclusive breastfeeding have been previously cited to improve Exclusive Breastfeeding [6]-[8].

II. MATERIALS AND METHODS

The study took place in Aba, the commercial hub of Abia State in southeast Nigeria. The residents are predominantly...
Ibos, majority are Christians, mostly traders and artisans with a smaller proportion being civil servants. This cross-sectional descriptive survey took place in August 2017. 333 nursing mothers attending Under-5 Welfare Clinic at the State Teaching hospital in Aba, Abia State, took part in this study and pre-tested self/interviewer administered questionnaires were used to obtain information from consenting eligible subjects on their clinic days. Knowledge was assessed using 6 questions; each correct answer scored 2 points giving a total of 12 points. Respondents who scored 7-12 points (i.e., above 50%) had “Good knowledge score” while those with a score of <7 (50% and below) had “Poor knowledge score”

Data obtained was checked for completeness, entered into and analyzed using IBM SPSS version 25. Descriptive statistics of the variables were presented in frequency tables. Relevant means, standard deviations and proportions were calculated. The Chi square test was used to determine associations between independent variables (such as Age, sex, marital status, educational status, religion etc.) and the outcome variable (Knowledge of exclusive breastfeeding).

### III. RESULTS

| TABLE I: SOCIO-DEMOGRAPHIC VARIABLES OF RESPONDENTS | Frequency (N=333) | Percentage (%) |
|-----------------------------------------------------|-------------------|----------------|
| **Age group (in years)**                            |                   |                |
| 15-20                                               | 3                 | 0.9            |
| 21-26                                               | 48                | 14.4           |
| 27-32                                               | 176               | 52.9           |
| 33+                                                 | 106               | 31.8           |
| **Marital status**                                  |                   |                |
| Single                                              | 13                | 3.9            |
| Married                                             | 310               | 93.1           |
| Widowed                                             | 4                 | 1.2            |
| Divorced                                            | 6                 | 1.8            |
| **Number of children**                              |                   |                |
| <3                                                  | 190               | 57.1           |
| 3+                                                  | 143               | 42.9           |
| **Religion**                                        |                   |                |
| Christianity                                       | 326               | 97.9           |
| Islam                                              | 7                 | 2.1            |
| **Educational status**                              |                   |                |
| Primary or less                                     | 23                | 6.9            |
| Secondary                                          | 116               | 34.8           |
| Tertiary                                            | 194               | 58.3           |
| **Occupation**                                      |                   |                |
| Unemployed                                          | 75                | 22.5           |
| Self employed                                       | 173               | 52.0           |
| Civil servant                                       | 85                | 25.5           |
| **Social habits**                                   |                   |                |
| Alcohol intake                                      | 61                | 18.3           |
| Smoke cigarettes, heroine etc.                      | 3                 | 0.9            |
| Keeps boyfriend                                     | 2                 | 0.6            |
| Not applicable                                      | 267               | 80.2           |
| Mean age= 31±5.0 years                              |                   |                |

Table I above shows the socio-demographic variables of the respondents. Majority of the study participants (52.9%) were in the 27-32 years age group with a mean age of 31±5.0 years and most were married (93.1%) with 42.9% having at least 3 children. Nearly all the respondents (97.9%) were Christians, a higher proportion of respondents (58.3%) had tertiary education while 173/333 (52%) were self-employed. About 80% of the respondents had none of the social habits studied though 18% admitted to alcohol consumption.

| TABLE II: REPRODUCTIVE INFORMATION | Frequency (N=333) | Percentage (%) |
|-------------------------------------|-------------------|----------------|
| **Place of delivery**               |                   |                |
| At home                             | 3                 | 0.9            |
| Church                              | 2                 | 0.6            |
| Maternity                           | 58                | 17.4           |
| Hospital                            | 270               | 81.1           |
| **Mode of delivery**                |                   |                |
| Normal (SVD)                        | 261               | 78.4           |
| C/S                                 | 72                | 21.6           |
| **Birth weight of baby (kg)**       |                   |                |
| <2.5                                | 24                | 7.2            |
| ≥2.5                                | 309               | 92.8           |
| **Birth order**                     |                   |                |
| 1st child                           | 100               | 30.0           |
| 2nd child                           | 96                | 28.8           |
| 3rd child                           | 73                | 21.9           |
| 4th child or higher                 | 64                | 19.2           |
| **Did you attend ANC?**             |                   |                |
| Yes                                 | 316               | 94.9           |
| No                                  | 17                | 5.1            |
| **If Yes, were you advised on breastfeeding?** | n=316 |                |
| Yes                                 | 306               | 96.8           |
| No                                  | 10                | 3.2            |

Table II is on reproductive information of the mothers. A high proportion: 270/333 (81.1%) delivered their current baby in a hospital while less than 1% had home delivery. Over three-quarters (78.4%) of the mothers had a normal spontaneous vaginal delivery (SVD) and 92.8% had babies weighing ≥2.5kg at birth. In birth order, 30% of the current babies was a “1st child”, 28.8% “2nd child”, 21.9% “3rd child” and 19.2% “4th child” or higher. A high proportion of them (94.9%) attended Antenatal clinic where 96.8% said they were advised on breastfeeding.

| TABLE III: KNOWLEDGE OF EXCLUSIVE BREASTFEEDING | Frequency (N=333) | Percentage (%) |
|------------------------------------------------|-------------------|----------------|
| **When should breastfeeding start?**           |                   |                |
| Within an hour of delivery                     | 271               | 81.4           |
| After 1 or 2 days                              | 36                | 10.8           |
| After a week                                    | 2                 | 0.6            |
| Don’t know                                      | 24                | 7.2            |
| **Have you heard of EBF?**                     |                   |                |
| Yes                                             | 322               | 96.7           |
| No                                              | 11                | 3.3            |
| **If Yes, what is it?**                        | n=322             |                |
| Giving baby breast milk & cereals              | 2                 | 0.6            |
| Giving BM & water                              | 22                | 6.8            |
| Giving BM & formula                            | 3                 | 0.9            |
| Giving only breast milk                        | 295               | 91.6           |
| **How long should EBF be done?**               |                   |                |
| No idea                                         | 13                | 3.9            |
| A month                                         | 1                 | 0.3            |
| 3 months                                       | 6                 | 1.8            |
| 6 months                                       | 301               | 90.4           |
| 9 months                                       | 12                | 3.6            |
| **Do you know advantages of EBF?**             |                   |                |
| Yes                                             | 258               | 77.5           |
| No                                              | 75                | 22.5           |
| **If Yes, give 4 advantages**                  | n=255             |                |
| 2-4 Correct responses                          | 198               | 77.6           |
| <2 correct responses                            | 57                | 22.4           |

Table III above is on knowledge of Exclusive Breastfeeding (EBF). A large proportion of the women (81.4%) knew that breastfeeding should begin within an hour of delivery. Nearly all the respondents (96.7%) have heard of EBF and about 92% knew what it is (Giving baby only breast milk). About 90% of them know that EBF is given for 6 months, 77.5% know the advantages of EBF out of which a

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similar proportion could correctly give 2–4 advantages of EBF.

Fig. 1: Knowledge score of the respondents.

A total of 286/333 (85.9%) had Good knowledge score while 47/333 (14.1%) had Poor knowledge score.

Table IV is on Socio-demographic variables and Knowledge score of EBF. Whereas respondents within the 27–32 age group, married with at least one child had good knowledge of EBF, the association was not significant (p=0.609, p=0.246 and p=0.511, respectively). Those who had attained a tertiary institution and self-employed had good knowledge of EBF and this was statistically significant (p<0.001 and p=0.018).

Table V shows the association between socio-demographic variables and ANC attendance of the nursing mothers. Highest attendance was seen among respondents who were married with at least one child, had a tertiary education and were self-employed. These variables also showed statistically significant association with ANC attendance (p=0.046, p=0.001, p<0.001 and p=0.050 respectively). Respondents aged 27–32 years had high ANC attendance which was not statistically significant (p=0.099).

TABLE IV: FACTORS ASSOCIATED WITH KNOWLEDGE OF EBF

| Variables                  | Good knowledge (n=286) | Poor knowledge (n=47) | χ² | p-value |
|----------------------------|------------------------|-----------------------|----|---------|
| Age group (in years)       |                        |                       |    |         |
| 15–20                      | 3 (1.0)                | 0 (0.0)               | 1.772* | 0.609 |
| 21–26                      | 39 (13.6)              | 9 (19.1)              |     |        |
| 27–32                      | 150 (52.4)             | 26 (55.3)             |     |        |
| 33+                        | 94 (32.9)              | 12 (25.5)             |     |        |
| Marital status             |                        |                       |    |         |
| Married                    | 268 (93.7)             | 42 (89.4)             | 3.452* | 0.246 |
| Separated/divorced         | 4 (1.4)                | 2 (4.3)               |     |        |
| Widowed                    | 4 (1.4)                | 0 (0.0)               |     |        |
| Number of children         |                        |                       |    |         |
| 1                          | 89 (31.1)              | 10 (21.3)             | 3.260* | 0.511 |
| 2                          | 79 (27.6)              | 12 (25.5)             |     |        |
| 3                          | 63 (22.0)              | 13 (27.7)             |     |        |
| 4                          | 37 (12.9)              | 9 (19.1)              |     |        |
| ≥4                         | 18 (6.3)               | 3 (6.4)               |     |        |
| Educational status         |                        |                       |    |         |
| None                       | 6 (2.1)                | 3 (6.4)               |     |        |
| Primary                    | 8 (2.8)                | 6 (12.8)              | 34.438* | <0.001** |
| Secondary                  | 88 (30.8)              | 28 (59.6)             |     |        |
| Tertiary                   | 184 (64.3)             | 10 (21.3)             |     |        |
| Occupation                 |                        |                       |    |         |
| Unemployed                 | 58 (20.3)              | 17 (36.2)             | 8.024* | 0.018** |
| Self employed              | 149 (52.1)             | 24 (51.1)             |     |        |
| Civil servant              | 79 (27.6)              | 6 (12.8)              |     |        |

*Fisher’s Test.
**Statistical significance.

Table V: FACTORS INFLUENCING ANC ATTENDANCE

| Variables                  | ANC attendance (N=316) |       |       | χ² | p-value |
|----------------------------|------------------------|-------|-------|----|---------|
| Age group (in years)       |                        |       |       |    |         |
| 15–20                      | 3 (100.0)              | 0 (0.0) |     |    |         |
| 21–26                      | 46 (95.8)              | 2 (4.2) |     |    |         |
| 27–32                      | 171 (97.2)             | 5 (2.8) |     |    |         |
| 33+                        | 96 (90.6)              | 10 (9.4) |     |    |         |
| Marital status             |                        |       |       |    |         |
| Married                    | 296 (95.5)             | 14 (4.5) |     |    |         |
| Unemployed                 | 4 (66.7)               | 2 (33.3) |     |    |         |
| Widowed                    | 4 (100.0)              | 0 (0.0) |     |    |         |
| Number of children         |                        |       |       |    |         |
| 1                          | 99 (100.0)             | 0 (0.0) |     |    |         |
| 2                          | 87 (95.6)              | 4 (4.4) |     |    |         |
| 3                          | 69 (90.8)              | 7 (9.2) |     |    |         |
| 4                          | 44 (95.7)              | 2 (4.3) |     |    |         |
| >4                         | 17 (81.0)              | 4 (19.0) |     |    |         |
| Educational status         |                        |       |       |    |         |
| None                       | 5 (55.6)               | 4 (44.4) |     |    |         |
| Primary                    | 8 (57.1)               | 6 (42.9) |     |    |         |
| Secondary                  | 111 (99.7)             | 4 (4.3) |     |    |         |
| Tertiary                   | 192 (99.0)             | 2 (1.0) |     |    |         |
| Occupation                 |                        |       |       |    |         |
| Unemployed                 | 67 (89.3)              | 8 (10.7) |     |    |         |
| Self employed              | 167 (96.5)             | 6 (3.5) |     |    |         |
| Civil servant              | 82 (96.5)              | 3 (3.5) |     |    |         |

*Fisher’s Test.
**Statistical significance.

Table VI: MULTIVARIATE LOGISTIC REGRESSION OF KNOWLEDGE SCORE USING PREDICTOR VARIABLES IDENTIFIED IN UNIVARIATE LOGISTIC REGRESSION

| Independent Variable       | Knowledge score |       |       |       |       |       |
|----------------------------|----------------|-------|-------|-------|-------|-------|
|                            | Good knowledge | Poor knowledge | Crude odds ratio(OR) | P-value | Adjusted odds ratio(aOR) | P-Value |
| Marital status             |                |       |       |       |       |       |
| Married                    | 268            | 42    | 1     | 1     | 1.77(0.63-5.03) | 0.28 | 1.85(0.63-5.47) | 0.27 |
| Other status               | 18             | 5     |       |       | 1     | 1     | 1.62(0.87-3.01) | 0.13 | 1.61(0.85-3.06) | 0.15 |
| No. of children            |                |       |       |       |       |       |
| <3                        | 168            | 22    | 1     |       | 1     | 1     | 1.62(0.87-3.01) | 0.13 | 1.61(0.85-3.06) | 0.15 |
| ≥4                        | 118            | 25    |       |       | 1     | 1     | 0.001* | 1     | 0.008* |
| Educational status         |                |       |       |       |       |       |
| Primary or less            | 14             | 9     |       |       | 1     | 1     | 0.22(0.09-0.54) | 0.29 | 0.11-0.72 |
| Secondary & above          | 272            | 38    |       |       | 1     | 1     | 0.38(0.16-0.94) | 0.43(0.17-1.07) | 0.07 |

*Statistically significant.
Table VI shows odds ratios for predictors of knowledge of EBF from univariate and multivariate logistic regression at 95% confidence interval (C.I.). Univariate analysis was done for marital status, number of children, educational level, and occupation. Educational level and occupation showed a statistical association at univariate level. On adjustment during multivariate logistic regression analysis, only educational level was found to be a significant predictor of knowledge of EBF among the mothers (p=0.008). Those with a secondary education or higher were 3 times more likely to have good knowledge of EBF than those with a primary education or less.

IV. DISCUSSION

In this study, most of the respondents were between the age group 27-32 years and more than 90% were married which is similar to other studies done in Sagamu, Southwest Nigeria, Kenya and India [9]-[11]. Most of the respondents had tertiary education which is in contrast to a study done in Italy where 60.6% of the respondents had secondary education [12]. However, the above finding in Italy was different in another study done in Ekiti State Nigeria, which also had similar findings to our study [13]. This goes to show that educated women are more likely to attend ANC.

Approximately 80% of the respondents in our study had a source of income by either being government workers or self-employed, contrasting other studies done in Europe, in which more than half of their participants (53.6%) were unemployed [12].

The parity of majority of respondents ranged between 1 and 3 and corroborates with a South African and Ethiopian study [14], [15]. This also shows effective utilization of family planning available at these tertiary health institutions by the women.

In this study, majority of the respondents (81%) had hospital delivery with more (94.9%) attending ANC and also admitted to being advised on breastfeeding. Studies have found history frequency of ANC, place, and mode of delivery; and maternal education to be significantly associated with timely initiation of breastfeeding [16]-[18].

This study found majority (97%) of the participants having heard about exclusive breastfeeding, out of these, 92% knew the correct meaning of exclusive breastfeeding and about 81% knew that breastfeeding should be initiated within 30 minutes to one hour following delivery. Also, majority (90%) of the respondents knew that exclusive breastfeeding should be done for six completed months, and more than half of the study participants could state at least two advantages of exclusive breast feeding. These findings show that there is good knowledge of exclusive breastfeeding among our study participants. The good knowledge of exclusive breastfeeding in this study is in agreement with a similar study done in Accra Ghana [19] but in contrast with another study done in Gwale, Kano where only a third of the respondents had good knowledge of exclusive breastfeeding [20]. However, the study done by Freed et al., obtained another low value of about half of their respondents having good knowledge of exclusive breastfeeding [21].

On the actors affecting knowledge score of exclusive breastfeeding in our study; respondents within the age-group of 27-32 years, married and with at least one child had good knowledge of exclusive breastfeeding. This was however not statistically significant, whereas those who had attained a tertiary institution and are self-employed had good knowledge of exclusive breastfeeding and was found to be statistically significant. In other studies, factors found to be associated with exclusive breastfeeding were mothers’ occupation, frequency of ANC visits, breastfeeding advice during ANC, and mode of delivery [22]-[24]. The findings in our study were however similar to studies done in Sokoto, Kano, and Ilorin; northern Nigeria, which found a statistically significant relationship between maternal age and education, maternal occupation, parity, family income and exclusive breastfeeding [20], [25], [26]. In studies done in Jos, Sokoto, and Kenya; maternal age was however not associated with the practice of exclusive breastfeeding [25], [27], [28].

V. CONCLUSION

Most of our study participants were educated and gainfully employed resulting in their having good knowledge of exclusive breastfeeding and its benefits to the infant. Hence it is recommended that female education be advocated. More emphasis on delivering at health facilities where information to women on the practice of optimal breastfeeding is readily available will go a long way to reduce the infant and maternal mortality rates in Nigeria.

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