## Exposure to and Knowledge of Media Messages on Exclusive Breastfeeding among Mothers in Three States in South-East Nigeria

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#### Abstract

**Background:** Exclusive breastfeeding (EBF) involves providing only breast milk to respond to the infant's total nourishment needs within the first six months of life. Breast milk contains all the essential nutrients, antibodies, and other growth and development factors. EBF enhances an infant's immune system and vaccination response.

**Objective:** This study examined exposure to and knowledge of media EBF messages among mothers in three states in South-East Nigeria.

**Methodology:** The survey method was adopted to conduct the study among 370 registered antenatal mothers selected through a multistage sampling technique in three primary and three tertiary hospitals. A structured questionnaire was used as the instrument for data collection. The data were analysed using percentages and the chi-square test of association, and results were presented in tables.

**Results:** Breastfeeding mothers were highly aware of EBF and knowledgeable, with a significant relationship between awareness and knowledge of media messages on EBF. Exposure to media messages improved knowledge and responses to EBF. However, responses to messages were constrained by economic, cultural, and social factors such as myths and family pressure.

**Conclusion:** Nursing mothers are highly exposed to media messages on EBF, which shows that the media plays a significant role in EBF campaigns.

**Unique contribution:** The study has identified the significant role of media messages in creating awareness of the importance of EBF among mothers. The study has also identified the limitations of adopting media messages on EBF.

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**Key Recommendation:** Media messages on EBF should aim more at counteracting myths and misinformation in the South-East region. Health professionals should harmonise their messages with media messages to enhance persuasive effects.

**Keywords:** Exclusive, breastfeeding, mothers, media, messages, knowledge.

#### Introduction

Breast milk is a complete food that provides newborns with all the necessary nutrients. The World Health Organisation (WHO) recommends that babies be breastfed exclusively throughout the first six months of life. After that, infants should continue to nurse for up to two years or more while consuming nutritionally adequate and safe complementary foods to suit their changing nutritional needs. Breastfed infants are less likely to die from infection than those who are not breastfed during the first 60 days of life (WHO, 2014).

There is ample scientific evidence on the convenience, healthfulness, and cost-effectiveness of exclusive breastfeeding (EBF), especially in underdeveloped countries (e.g., Nigeria), where infant morbidity and death rates are high (WHO/UNICEF, 1990). EBF refers to the provision of only breast milk for the first six months of a baby's birth in response to the infant's entire need for nourishment, hydration, sucking, and solace or soothing (WHO/UNICEF, 1990). In 1994, Ghana and Nigeria had similar exclusive lactation rates of 7.4%. Two decades later, Ghana's exclusive breastfeeding rate reached 63.3%, and Nigeria's rate rose to 29.0%. Within this period, exclusive lactation rates in both countries indicated a shortfall of 73% and 61%, respectively (Muanya & Adekunle, 2016).

Every year from August 1 to 7, the World Breastfeeding Week (WBW) takes place to enhance public consciousness about EBF. Despite awareness, there is a wide disparity in attitudes of women towards EBF, mainly as a result of cultural norms, patriarchal structures, occupational circumstances, a lack of knowledge, religious convictions, maternal pessimism, and individual beliefs (Agunbiade & Ogunleye, 2012). The mass media significantly enhances public health awareness and disseminates educational information and entertainment programming. However, there remains a fundamental inquiry regarding the means by which mothers can be empowered and sensitised to engage in EBF, particularly in light of cultural and traditional practices, hence the present study.

## **Objectives of the Study**

The study's general objective is to determine the exposure to and knowledge of exclusive breastfeeding (EBF) among women in Southeast Nigeria. Specifically, the study sought to:

- Assess the extent to which breastfeeding mothers are exposed to media messages on exclusive breastfeeding.
- Ascertain the level of knowledge of media messages on exclusive breastfeeding among breastfeeding mothers.
- To determine breastfeeding mothers' attitudes to media messages on exclusive breastfeeding.

#### **Research Hypotheses**

There is no relationship between Awareness and Knowledge of Media Messages on H<sub>01</sub>: **EBF** 

HO2: Relationship exists between Exposure and Attitude to Media messages on EBF.

#### **Literature Review**

There has been copious literature on the efforts of the media and other relevant bodies to create awareness of the imperatives, cost-effectiveness, convenience, and nutritional benefits of EBF. Ezeh (2020) studied the relationship between media campaigns and exclusive breastfeeding, revealing that the social structure of communities and interpersonal dynamics significantly impact mothers' perceptions and acceptance of campaign messages. Social media platforms like Facebook, Twitter, Instagram, and WhatsApp have been instrumental in spreading information about exclusive breastfeeding, offering a higher degree and velocity of coverage compared to traditional media platforms like television and radio. The increasing prevalence of smartphones has further increased the significance of social media, as individuals can conveniently store campaign messages on their smartphones for personal use.

Flax et al. (2022) found a rise in nursing mothers who successfully practiced exclusive breastfeeding for six months within private healthcare establishments in Lagos, Nigeria. The use of social media, specifically WhatsApp, to provide regular educational messages on EBF had an impact on women's ability to exclusively breastfeed for six months. Uwalaka and Nwala (2020) found that pregnant women who were provided with information about EBF through social media platforms demonstrated a higher likelihood of engaging in exclusive nursing. This highlights the significant role of social media as a main channel for EBF media communications and serves as a reliable platform for conducting mass media campaigns.

Nguyen et al. (2016) found that people who were exposed to both mass media and interpersonal counselling had an even bigger impact on EBF rates and the psychosocial factors that were linked to them than people who had not been exposed to either intervention. The integration of various behaviour change therapies leads to increased psychosocial improvements, enhancing nursing behaviour.

Utalor's (2019) found that women in Ilorin predominantly depend on the broadcast media as their primary source of maternal health information. Radio was found to be more effective than television in disseminating maternal health messages, with discussion shows and health programmes being the most common means of promotion. Women have a consensus that the influence of broadcast media on their views towards maternal health is predominantly beneficial, and they primarily rely on broadcast media as their primary means of accessing information about maternal health.

In the south-east region of Nigeria, Naugle's (2016) study found that the implementation of only two 30-second advertisements as a mass media intervention did not result in any noticeable impact on EBF behaviour. However, the incorporation of supplementary intervention strategies in conjunction with the mass media initiative led to a more significant alteration in EBF behaviour.

Chukwu-Okoronkwo et al. (2019) assessed the impact of a media campaign targeted at promoting exclusive lactation among women. The study found that the major source of information for women in the region regarding exclusive lactation is antenatal channels rather than regular media channels. The results suggest that social media, television, and radio are the predominant mediums for EBF campaigns. Newspapers are the least employed for the campaigns. Chukwu-Okoronkwo et al. (2019) study has been corroborated by the findings of other studies (e.g., Ezeah & Odionye, 2017; Nzete, 2010). In light of the evidence of extensive efforts by the mass media to project campaigns on EBF, the present study investigates exposure to and knowledge of EBF in South-East Nigeria. This implies an attempt to fill the audience gap in the communication cycle as a way to provide an assessment of media campaigns.

#### **Theoretical Framework**

The study is anchored on the Health Belief Model (HBM) propounded in the 1950s by Godfrey Hochbaum, Irwin Rosenstock, and Stephen Kegels as a social psychology paradigm. This model explains how individuals engage in health-promoting behaviour by analysing their beliefs about health risks, perceived benefits of taking action, perceived obstacles to taking action, and self-efficacy in their capacity to take action. The HBM is widely used in health behaviour research. For instance, health communication imparts the necessary information through media messages, media campaigns, talk shows, radio jingles and television commercials, editorials and features etc, to members of the society. This enables them to carry out necessary positive health attributes for their improved health

Health behaviours are influenced by cognitive processes, perceptions of personal threats, anticipated benefits, perceived disadvantages, and external factors such as age, social status, education, and family dynamics. The HBM's applicability to this study depends on the assumption that lactating mothers or women in their reproductive prime may exhibit a positive disposition towards the information and communication tactics used in the EBF campaign. We

assume that communication will impact the viewpoints of the general population, resulting in future changes in behaviour, particularly the adoption of healthier lifestyles.

## Methodology

The study adopted a survey method. It elicited data from pregnant women (aged 18–45) in three South-East Nigerian states, namely, Ebonyi, Enugu, and Imo (Table 1). The women were registered antenatal mothers in three primary and three tertiary hospitals. We visited the hospitals within a period of eight months (January–August 2021). Using the Wimmer and Dominic sample size calculator, we selected a sample size of 370 from a population of 10,282, with a confidence level of 95% and a margin of error of 5%.

**Table 1: Registered Antenatal Mothers** 

Ebonyi			Enugu	lmo		
Primary	Tertiary	Primary	Tertiary	Primary	Tertiary	
General	Alex Ekwueme	Nsukka	University of	Imo	Federal Medical	
Hospital	Federal University	General	Nigeria Teaching	Specialist	Center, Owerri	
Onueke	Teaching Hospital Abakaliki	Hospital	Hospital (UNTH)	Hospital	(FMC)	
1,079	1,910	378	2,416	620	3,879	
Grand Total = 2,989		Grand To	otal = 2,794	<b>Grand Tot</b>	tal = 4,499	

We used the purposive technique to select one primary and one tertiary hospital from each of the three selected states. The Bowley proportionate technique was employed to allocate equitable numbers of the questionnaire to the participants.

Table 2: Projected Population of the Study Area and Number of Questionnaire.

S/N STATE PROJECTED POPULATION COPIES OF OUESTIONNAIRE

2,2,		OF HOSPITAL REGISTERED WOMEN BETWEEN 18-45 YEARS	<b>C</b> C C C C C C C C C C C C C C C C C C
1.	Ebonyi	2989	84
2.	Enugu	2794	110
3.	Imo	4499	176
	TOTAL	10282	370

**Table 3: Projected Distribution of Questionnaire.** 

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1.	Ebonyi	84
	Primary	12
	Tertiary	72
2.	Enugu	110
	Primary	15
	Tertiary	95
3.	Imo	176
	Primary	24
	Tertiary	152
	GRAND TOTAL	370

The accidental technique was used to administer the questionnaire to nursing mothers who visited the hospital during the period of the study.

The accidental sampling technique was used to select breastfeeding mothers from primary and tertiary hospitals. Copies of the questionnaire were distributed to pregnant and nursing mothers found within the selected hospitals on the days of their hospital visits.

A 48-item self-developed, structured questionnaire were intended to address each research question and were designed with both open-ended and closed-ended questions. The researcher and trained research assistants administered 370 copies of the questionnaire, out of which 354 were returned. The response rate was high commendable.

The research instrument went through face validation. In order to ensure the validity of the questionnaire, three lecturers in the Department of Mass Communication and two other experts in statistics also validated the instrument.

To ascertain the reliability of the research instrument, the test-retest method was carried out using 20 copies of the questionnaire. The questionnaire was administered to respondents in two of the study areas (Enugu and Imo). Two weeks later, the same copies of the questionnaire were re-administered again to the same respondents, and errors were observed and noted. To measure reliability or the degree of consistency between the two sets of responses, Cronbach's alpha statistical method was utilised, which returned an internal consistency coefficient of 0.861. This was considered high enough, which indicated the reliability of the instrument in generating the needed data.

The descriptive statistics of frequencies and percentages were used for the research questions, while chi-square and chi-square measures of association were used to address the hypotheses via the Statistical Package for Social Science (SPSS).

#### **Results**

Out of the 370 copies of the questionnaires, 354 copies were returned. I considered this number suitable for analysis because the sample size of 370 was determined using the Wimmer and Dominic online sample size calculator using a confidence level of 95% and a margin of 5%. The 354 respondents had birth experience.

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## Objective 1: The extent to which breastfeeding mothers are exposed to media messages on EBF.

Table 4 reveals that a majority of respondents (94.0%) are aware of media influence on their knowledge about early feeding and exclusive nursing practices. However, awareness of the potential negative consequences associated with infant formula consumption is limited to approximately 60.0% of the individuals surveyed

Table 4: Level of Exposure to Media Messages on Exclusive Breastfeeding by State

		State			
Exposure to EBF	Level	Ebonyi State	Imo State	Enugu State	Total
Are you aware of the important of breastfeeding? The right time to begin early initiation feeding	ce Yes No Strongly disagree Disagree Agree	25(11.6%) 1(0.5%) 4(1.2%) 4(1.2%) 25(7.4%)	134(62.0%) 12(5.6%) 5(1.5%) 11(3.2%) 74(21.8%)	44(20.4%) 0(0.0%) 2(0.6%) 6(1.8%) 28(8.3%)	203(94.0%) 13(6.0%) 11(3.2%) 21(6.2%) 127(37.5%)
I should feed my baby with breast milk for the six months	Strongly agree Strongly disagree Disagree Agree	50(14.7%) 3(0.9%) 7(2.0%) 20(5.7%)	70(20.6%) 4(1.1%) 4(1.1%) 64(18.3%)	60(17.7%) 1(0.3%) 3(0.9%) 28(8.0%)	180(53.1%) 8(2.3%) 14(4.0%) 112(32.0%)
That formula feeding may be dangerous for the baby	Strongly agree Strongly disagree Disagree Agree	54(15.4%) 9(2.6%) 24(7.0%) 34(9.9%)	95(27.1%) 19(5.5%) 39(11.3%) 71(20.6%)	67(19.1%) 10(2.9%) 10(2.9%) 36(10.5%)	216(61.7%) 38(11.0%) 73(21.2%) 141(41.0%)
The right time to stacomplementary foods for the baby	Strongly agree art Strongly disagree Disagree Agree	16(4.7%) 1(0.3%) 16(4.7%) 42(12.5%)	36(10.5%) 13(3.9%) 24(7.1%) 90(26.7%)	40(11.6%) 2(0.6%) 6(1.8%) 45(13.4%)	92(26.7%) 16(4.7%) 46(13.6%) 177(52.5)
	Strongly agree	23(6.8%)	31(9.2%)	43(12.8%)	97(28.8%)

Table 5 displays the distribution of participants' exposure levels to media campaign messages regarding exclusive breastfeeding, categorised by the kind of institution. The findings reveal that the level of awareness is notably higher among respondents from tertiary hospitals.

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Table 5: Level Exposure to Media Messages on EBF by Hospital Type

		Hospital		<u> </u>
Awareness on EBF	Level	Primary	Tertiary	Total
Are you aware of the importance of breastfeeding?	Yes No	35(16.2%) 2(0.9%)	168(77.8%) 11(5.1%)	203(94.0%) 13(6.0%)
The right time to begin early initiation feeding	Strongly disagree Disagree Agree	2(0.6%) 2(0.6%) 17(5.0%)	9(2.7%) 19(5.6%) 110(32.4%)	11(3.2%) 21(6.2%) 127(37.5%)
I should feed my baby with breast milk	Strongly agree Strongly disagree	24(7.1%) 1(0.3%)	156(46.0%) 7(2.0%)	180(53.1%) 8(2.3%)
for the six months	Disagree Agree	3(0.9%) 15(4.3%)	11(3.1%) 97(27.7%)	14(4.0%) 112(32.0%)
That formula feeding may be dangerous for the baby	Strongly agree Strongly disagree Disagree	29(8.3%) 8(2.3%) 18(5.2%)	187(53.4%) 30(8.7%) 55(16.0%)	216(61.7%) 38(11.0%) 73(21.2%)
	Agree	14(4.1%)	127(36.9%)	141(41.0%)
	Strongly agree	6(1.7%)	86(25.0%)	92(26.7%)
The right time to start complementary foods for the baby	Strongly disagree Disagree	3(0.9%) 6(1.8%)	13(3.9%) 40(11.9%)	16(4.7%) 46(13.6%)
	Agree	29(8.6%)	148(43.9%)	177(52.5%)
	Strongly agree	7(2.1%)	90(26.7%)	97(28.8%)

## Objective 2: To Ascertain the Level of Knowledge of Mass Media Messages on EBF

Approximately 70.0% of participants were aware of the absence of significant adverse effects associated with initial breast milk, commonly referred to as colostrum. However, 17.2% of individuals had limited or no awareness of the absence of significant adverse consequences associated with colostrum consumption. The majority of respondents acknowledged the veracity of the claim that EBF effectively mitigates the occurrence of diarrheal and respiratory ailments, enhances the infant's immune system, and safeguards against various illnesses. The results showed that 71.0% knew that women may lower their risk of breast and ovarian cancers through EBF; 85.0% admitted that the media accurately portrays EBF as an economically viable option.

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Table 6: Breastfeeding Mothers' Knowledge Level of Media Messages on EBF by State

		State			
Knowledge of EBF	Level	<b>Ebonyi State</b>	Imo State	Enugu State	Total
There are serious side effects of	True	16(4.7%)	26(7.6%)	16(4.7%)	58(16.9%)
first milk or colostrum	False	48(14.0%)	109(31.8%)	69(20.1%)	226(65.9%)
	Don't know	15(4.4%)	25(7.3%)	8(2.3%)	48(14.0%)
	Partially true	2(0.6%)	7(2.0%)	2(0.6%)	11(3.2%)
A woman can substitute EBF	True	26(7.6%)	57(16.6%)	9(2.6%)	92(26.7%)
with many good types of milk	False	32(9.3%)	79(23.0%)	59(17.2%)	170(49.4%)
	Don't know	6(1.7%)	7(2.0%)	13(3.8%)	26(7.6%)
	Partially true	17(4.9%)	25(7.3%)	14(4.1%)	56(16.3%)
EBF prevents diarrheal,	True	62(18.0%)	136(39.5%)	89(25.9%)	287(83.4%)
respiratory problems, improve	False	10(2.9%)	12(3.5%)	1(0.3%)	23(6.7%)
babies immune system and	Don't know	7(2.0%)	13(3.8%)	6(1.7%)	26(7.6%)
protects baby from illness	Partially true	3(0.9%)	3(0.9%)	2(0.6%)	8(2.3%)
Being involved in EBF may	True	54(15.7%)	107(31.0%)	84(24.3%)	245(71.0%)
prevent the mother from	False	14(4.1%)	22(6.4%)	2(0.6%)	38(11.0%)
conception, ovarian and breast	Don't know	7(2.0%)	22(6.4%)	8(2.3%)	37(10.7%)
cancer.	Partially true	7(2.0%)	16(4.6%)	2(0.6%)	25(7.2%)
Expressed breast milk is also	True	54(15.5%)	122(35.1%)	49(14.1%)	225(64.7%)
good for infant feeding	False	18(5.2%)	12(3.4%)	26(7.5%)	56(16.1%)
<u> </u>	Don't know	9(2.6%)	23(6.6%)	13(3.7%)	45(12.9%)
	Partially true	1(0.3%)	11(3.2%)	10(2.9%)	22(6.3%)
EBF is economically viable	True	61(17.7%)	139(40.3%)	96(27.8%)	296(85.8%)
, and the second	False	11(3.2%)	10(2.9%)	2(0.6%)	23(6.7%)
	Don't know	6(1.7%)	10(2.9%)	0(0.0%)	16(4.6%)
	Partially true	4(1.2%)	6(1.7%)	0(0.0%)	10(2.9%)
Breastfed babies are healthier	True	66(19.3%)	136(39.8%)	85(24.9%)	287(83.9%)
than formula-fed babies	False	4(1.2%)	9(2.6%)	0(0.0%)	13(3.8%)
	Don't know	3(0.9%)	9(2.6%)	7(2.0%)	19(5.6%)
	Partially true	8(2.3%)	11(3.2%)	4(1.2%)	23(6.7%)
I should give breastmilk to my	True	66(19.2%)	152(44.2%)	94(27.3%)	312(90.7%)
baby immediately as early	False	14(4.1%)	6(1.7%)	0(0.0%)	20(5.8%)
initiation	Don't know	2(0.6%)	8(2.3%)	0(0.0%)	10(2.9%)
	Partially true	0(0.0%)	1(0.3%)	1(0.3%)	2(0.6%)
Mothers require adequate	True	59(17.0%)	151(43.5%)	92(26.5%)	302(87.0%)
nutrition to effectively do EBF	False	13(3.7%)	5(1.4%)	0(0.0%)	18(5.2%)
·	Don't know	7(2.0%)	8(2.3%)	0(0.0%)	15(4.3%)
	Partially true	3(0.9%)	3(0.9%)	6(1.7%)	12(3.5%)
Exclusively fed infants are more	True	4(1.2%)	25(7.3%)	4(1.2%)	33(9.7%)
likely to have health problems	False	64(18.8%)	122(35.8%)	81(23.8%)	267(78.3%)
1	Don't know	8(2.3%)	12(3.5%)	11(3.2%)	31(9.1%)
	Partially true	5(1.5%)	5(1.5%)	0(0.0%)	10(2.9%)
I have done prelacteal feeding	True	22(6.4%)	36(10.5%)	12(3.5%)	70(20.5%)
when my child was born	False	34(9.9%)	56(16.4%)	59(17.3%)	149(43.6%)
J	Don't know	20(5.8%)	61(17.8%)	24(7.0%)	105(30.7%)
	DOII ( MIOW	20(3.670)	01(17.070)	<u>∠</u> ¬(7.0/0)	105(50.170

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Partially true 6(1.8%) 11(3.2%) 1(0.3%) 18(5.3%)

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The study reveals that respondents' perception of prelacteal feeding, a suboptimal form of breastfeeding, is ambiguous; 43.6% expressed scepticism, while 30.7% indicated uncertainty or a lack of knowledge. The study also shows that Imo State has the highest awareness, followed by Enugu State. Ebonyi State has the lowest awareness.

Prelacteal feeding is defined as administration of any substances other than breast milk to newborn babies during the first 3 days after birth.

Table 6: Breastfeeding Mothers' Knowledge Level of Media Messages on EBF by Hospital Type

			Hospital	
Knowledge of EBF	Level	Primary	Tertiary	Total
There are serious side effects of	True	8(2.3%)	50(14.6%)	58(16.9%)
first milk or colostrum	False	27(7.9%)	199(58.0%)	226(65.9%)
	Don't know	6(1.7%)	42(12.2%)	48(14.0%)
	Partially true	2(0.6%)	9(2.6%)	11(3.2%)
A woman can substitute EBF	True	23(6.7%)	69(20.1%)	92(26.7%)
with many good types of milk	False	15(4.4%)	155(45.1%)	170(49.4%)
	Don't know	2(0.6%)	24(7.0%)	26(7.6%)
	Partially true	3(0.9%)	53(15.4%)	56(16.3%)
EBF prevents diarrheal,	True	29(8.4%)	258(75.0%)	287(83.4%)
respiratory problems, improve	False	6(1.7%)	17(4.9%)	23(6.7%)
babies immune system and	Don't know	6(1.7%)	20(5.8%)	26(7.6%)
protects baby from illness	Partially true	2(0.6%)	6(1.7%)	8(2.3%)
Being involved in EBF may	True	29(8.4%)	216(62.6%)	245(71.0%)
prevent the mother from	False	7(2.0%)	31(9.0%)	38(11.0%)
conception, ovarian and breast	Don't know	6(1.7%)	31(9.0%)	37(10.7%)
cancer.	Partially true	3(0.9%)	22(6.4%)	25(7.2%)
Expressed breast milk is also	True	25(7.2%)	200(57.5%)	225(64.7%)
good for infant feeding	False	11(3.2%)	45(12.9%)	56(16.1%)
	Don't know	8(2.3%)	37(10.6%)	45(12.9%)
	Partially true	1(0.3%)	21(6.0%)	22(6.3%)
EBF is economically viable	True	35(10.1%)	261(75.7%)	296(85.8%)
	False	5(1.4%)	18(5.2%)	23(6.7%)
	Don't know	2(0.6%)	14(4.1%)	16(4.6%)
	Partially true	2(0.6%)	8(2.3%)	10(2.9%)
Breastfed babies are healthier	True	40(11.7%)	247(72.2%)	287(83.9%)
than formula-fed babies	False	2(0.6%)	11(3.2%)	13(3.8%)
	Don't know	0(0.0%)	19(5.6%)	19(5.6%)
	Partially true	2(0.6%)	21(6.1%)	23(6.7%)
I should give breastmilk to my	True	39(11.3%)	273(79.4%)	312(90.7%)

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baby immediately as early	False	5(1.5%)	15(4.4%)	2095.8%)
initiation	Don't know	1(0.3%)	9(2.6%)	10(2.9%)
	Partially true	0(0.0%)	2(0.6%)	2(0.6%)
Mothers require adequate	True	39(11.2%)	263(75.8%)	302(87.0%)
nutrition to effectively do EBF	False	2(0.6%)	16(4.6%)	18(5.2%)
	Don't know	2(0.6%)	13(3.7%)	15(4.3%)
	Partially true	1(0.3%)	11(3.2%)	12(3.5%)
Exclusively fed infants are more	True	12(3.5%)	21(6.2%)	33(9.7%)
likely to have health problems	False	28(8.2%)	239(70.1%)	267(78.3%)
	Don't know	4(1.2%)	27(7.9%)	31(9.1%)
	Partially true	2(0.6%)	8(2.3%)	10(2.9%)
I have done prelacteal feeding	True	15(4.4%)	55(16.1%)	70(20.5%)
when my child was born	False	17(5.0%)	132(38.6%)	149(43.6%)
	Don't know	13(3.8%)	92(26.9%)	105(30.7%)
	Partially true	1(0.3%)	17(5.0%)	18(5.3%)

The findings above indicated a significant level of familiarity among the participants with the primary mass media campaign messaging pertaining to exclusive breastfeeding. The participants from both types of hospitals showed a significant degree of awareness regarding the mass media messages on EBF. However, the participants from tertiary hospitals exhibited a higher level of knowledge regarding the core campaign messages

## **Objective Three**

# To Determine the Attitudes and Responses of South-East Women to Media Messages on Exclusive Breastfeeding (EBF)

The study reveals that over 90.0% expressed strong agreement or agreement with their willingness to engage in EBF. They also expressed willingness to promote EBF among their female acquaintances and family members. The respondents acknowledged the positive impact of nursing on mother-infant bonding. However, over 70.0% disagreed with the notion of favouring formula feeding over breastmilk, citing financial, health, nutritional and economic constraints as hindrances. Concerns were raised regarding potential health issues from EBF for six months.

Table 7: Attitudes and Responses to Media Messages on EBF by State of Residence

			State		_
Attitude on EBF messaages	Level	Ebonyi State	Imo State	Enugu State	Total
I am willing to carryout	Strongly disagree	3(0.9%)	8(2.3%)	3(0.9%)	14(4.0%)
exclusive breastfeeding	Disagree	0(0.0%)	0(0.0%)	0(0.0%)	0(0.0%)
	Agree	19(5.4%)	71(20.2%)	30(8.5%)	120(34.2%)
	Strongly agree	62(17.7%)	90(25.6%)	65(18.5%)	217(61.8%)
I encourage my female friends	Strongly disagree	1(0.3%)	0(0.0%)	0(0.0%)	1(0.3%)
and family to do EBF	Disagree	4(1.1%)	8(2.3%)	1(0.3%)	13(3.7%)
	Agree	28(8.0%)	86(24.6%)	22(6.3%)	136(39.0%)
	Strongly agree	50(14.3%)	74(21.2%)	75(21.5%)	199(57.0%)

I prefer formula feeding to breastmilk	Strongly disagree Disagree Agree Strongly agree	21(6.1%) 44(12.8%) 8(2.3%) 10(2.9%)	48(14.0%) 88(25.7%) 21(6.1%) 8(2.3%)	40(11.7%) 46(13.4%) 4(1.2%) 5(1.5%)	109(31.8%) 178(51.9%) 33(9.6%) 23(6.7%)
I am not able to effectively	Strongly disagree	13(3.8%)	23(6.7%)	27(7.8%)	63(18.3%)
carryout EBF as a result of work	0.	26(7.6%)	52(15.1%)	43(12.5%)	121(35.2%)
and time	Agree	26(7.6%)	72(20.9%)	19(5.5%)	117(34.0%)
	Strongly agree	18(5.2%)	19(5.5%)	6(1.7%)	43(12.5%)
I am not able to effectively	Strongly disagree	21(6.0%)	46(13.2%)	38(10.9%)	105(30.2%)
carryout EBF as a result of	Disagree	30(8.6%)	73(21.0%)	43(12.4%)	146(42.0%)
financial and economic reasons	Agree	23(6.6%)	39(11.2%)	8(2.3%)	70(20.1%)
	Strongly agree	10(2.9%)	10(2.9%)	7(2.0%)	27(7.8%)
I may have health problems if I	Strongly disagree	35(10.1%)	69(19.9%)	46(13.3%)	150(43.2%)
exclusively breastfeed for 6	Disagree	32(9.2%)	58(16.7%)	42(12.1%)	132(38.0%)
months	Agree	13(3.7%)	32(9.2%)	3(0.9%)	48(13.8%)
	Strongly agree	4(1.2%)	9(2.6%)	4(1.2%)	17(4.9%)
I accept that non-utilization of	Strongly disagree	26(7.6%)	47(13.8%)	49(14.4%)	122(35.8%)
first milk is alright	Disagree	28(8.2%)	63(18.5%)	29(8.5%)	120(35.2%)
	Agree	15(4.4%)	29(8.5%)	9(2.6%)	53(15.5%)
	Strongly agree	14(4.1%)	22(6.5%)	10(2.9%)	46(13.5%)
I feel that only breastmilk will	Strongly disagree	28(8.1%)	39(11.3%)	41(11.9%)	108(31.4%)
not be sufficient for the baby's	Disagree	22(6.4%)	52(15.1%)	37(10.8%)	111(32.3%)
nutrition after 3 months	Agree	26(7.6%)	60(17.4%)	9(2.6%)	95(27.6%)
	Strongly agree	8(2.3%)	15(4.4%)	7(2.0%)	30(8.7%)
I accept that breastfeeding	Strongly disagree	8(2.3%)	3(0.9%)	2(0.6%)	13(3.7%)
increases the bond between	Disagree	4(1.1%)	5(1.4%)	0(0.0%)	9(2.6%)
mother and infant	Agree	18(5.2%)	50(14.3%)	20(5.7%)	88(25.2%)
	Strongly agree	53(15.2%)	110(31.5%)	76(21.8%)	239(68.5%)
I am indifferent about mass	Strongly disagree	8(2.3%)	20(5.8%)	38(11.1%)	66(19.3%)
media messages on EBF	Disagree	24(7.0%)	67(19.6%)	38(11.1%)	129(37.7%)
	Agree	29(8.5%)	57(16.7%)	14(4.1%)	100(29.2%)
	Strongly agree	22(6.4%)	18(5.3%)	7(2.0%)	47(13.7%)
I usually pay attention to adverts		17(4.9%)	38(11.0%)	45(13.0%)	100(29.0%)
on EBF from the mass and social	Disagree	28(8.1%)	61(17.7%)	32(9.3%)	121(35.1%)
media though I won't adhere	Agree	19(5.5%)	42(12.2%)	9(2.6%)	70(20.3%)
	Strongly agree	19(5.5%)	26(7.5%)	9(2.6%)	54(15.7%0
Media messages have not made	Strongly disagree	13(3.8%)	34(9.9%)	32(9.3%)	79(23.0%)
me to start EBF	Disagree	36(10.5%)	86(25.0%)	49(14.2%)	171(49.7%)
	Agree	15(4.4%)	28(8.1%)	8(2.3%)	51(14.8%)
	Strongly agree	19(5.5%)	1794.9%)	7(2.0%)	43(12.5%)

The study found that media messages on EBF in the three states improved the attitudes and responses of breastfeeding mothers. The most significant improvements were observed in Imo State, while respondents from Enugu and Ebonyi states showed similar shifts.

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Table 7.1: Attitudes and Responses to Media Messages on EBF by Hospital Type

Table 7.1. Attitudes and Respons	, os to 1,10010 1,10550	800 011 221 27 2100	Hospital	
Knowledge of EBF	Level	Primary	Tertiary	Total
I am willing to carryout	Strongly disagree	5(1.4%)	9(2.6%)	14(4.0%)
exclusive breastfeeding	Disagree	0(0.0%)	0(0.0%)	0(0.0%)
8	Agree	15(4.3%)	105(29.9%)	120(34.2%)
	Strongly agree	28(8.0%)	189(53.8%)	217(61.8%)
I encourage my female friends	Strongly disagree	0(0.0%)	1(0.3%)	1(0.3%)
and family to do EBF	Disagree	3(0.9%)	10(2.9%)	13(3.7%)
, and the second	Agree	20(5.7%)	116(33.2%)	136(39.0%)
	Strongly agree	25(7.2%)	174(49.9%)	199(57.0%)
I prefer formula feeding to	Strongly disagree	14(4.1%)	95(27.7%)	109(31.8%)
breastmilk	Disagree	20(5.8%)	158(46.1%)	178(51.9%)
	Agree	7(2.0%)	26(7.6%)	33(9.6%)
	Strongly agree	6(1.7%)	17(5.0%)	23(6.7%)
I am not able to effectively	Strongly disagree	11(3.2%)	52(15.1%)	63(18.3%)
carryout EBF as a result of work	Disagree	19(5.5%)	102(29.7%)	121(35.2%)
and time	Agree	12(3.5%)	105(30.5%)	117(34.0%)
	Strongly agree	4(1.2%)	39(11.3%)	43(12.5%)
I am not able to effectively	Strongly disagree	16(4.6%)	89(25.6%)	105(30.2%)
carryout EBF as a result of	Disagree	21(6.0%)	125(35.9%)	146(42.0%)
financial and economic reasons	Agree	5(1.4%)	65(18.7%)	70(20.1%)
	Strongly agree	6(1.7%)	21(6.0%)	27(7.8%)
I may have health problems if I	Strongly disagree	20(5.8%)	130(37.5%)	150(43.2%)
exclusively breastfeed for 6	Disagree	20(5.8%)	112(32.3%)	132(38.0%)
months	Agree	3(0.9%)	45(13.0%)	48(13.8%)
	Strongly agree	4(1.2%)	13(3.7%)	17(4.9%)
I accept that non-utilization of	Strongly disagree	8(2.3%)	114(33.4%)	122(35.8%)
first milk is alright	Disagree	16(4.7%)	104(30.5%)	120(35.2%)
	Agree	12(3.5%)	41(12.0%)	53(15.5%)
	Strongly agree	10(2.9%)	36(10.6%)	46(13.5%)
I feel that only breastmilk will	Strongly disagree	16(4.7%)	92(26.7%)	108(31.4%)
not be sufficient for the baby's	Disagree	17(4.9%)	94(27.3%)	111(32.3%)
nutrition after 3 months	Agree	6(1.7%)	89(25.9%)	95(27.6%)
	Strongly agree	6(1.7%)	24(7.0%)	30(8.7%)
I accept that breastfeeding	Strongly disagree	0(0.0%)	13(3.7%)	13(3.7%)
increases the bond between	Disagree	1(0.3%)	8(2.3%)	9(2.6%)
mother and infant	Agree	8(2.3%)	80(22.9%)	88(25.2%)
	Strongly agree	39(11.2%)	200(57.3%)	239(68.5%)
I am indifferent about mass	Strongly disagree	3(0.9%)	63(18.4%)	66(19.3%)
media messages on EBF	Disagree	15(4.4%)	114(33.3%)	129(37.7%)
	Agree	16(4.7%)	84(24.6%)	100(29.2%)
T 11	Strongly agree	11(3.2%)	36(10.5%)	47(13.7%)
I usually pay attention to adverts	Strongly disagree	9(2.6%)	91(26.4%)	100(29.0%)
on EBF from the mass and social	_	8(2.3%)	113(32.8%)	121(35.1%)
media though I won't adhere	Agree	13(3.8%)	57(16.5%)	70(20.3%)

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	Strongly agree	17(4.9%)	37(10.7%)	54(15.7%)
Media messages have not made	Strongly disagree	10(2.9%)	69(20.1%)	79(23.0%)
me to start EBF	Disagree	17(4.9%)	154(44.8%)	171(49.7%)
	Agree	7(2.0%)	44(12.8%)	51(14.8%)
	Strongly agree	14(4.1%)	29(8.4%)	43(12.5%)

## **Hypothesis One**

## There is no Relationship between Awareness and Knowledge of Media Messages on EBF

The Chi-square measure of association revealed a significant association between awareness of EBF and the level of knowledge among breastfeeding mothers in South-East Nigeria (Table 8). However, knowledge levels about EBF were not influenced by media campaigns on EBF with regard to knowing about the serious side effects of colostrum, switching from EBF to other good milk types, and health issues associated with EBF.

Table 8: Chi-Square Test of Relationship between Knowledge Level and Awareness

Knowledge level of EBF	Chi-square Value	df	P-value	Decision
	•			
There are serious side effects of first milk or	2.248	3	0.523	Not significant
colostrum				
A woman can substitute EBF with many good	6.556	3	0.087	Not significant
types of milk				
EBF prevents diarrheal, respiratory problems,	37.539	3	0.000	Significant
improve babies immune system and protects baby				8
from illness				
Being involved in EBF may prevent the mother	11.643	3	0.009	Significant
- · ·	11.043	3	0.009	Significant
from conception, ovarian and breast cancer.	5.770	•	0.100	NT
Expressed breast milk is also good for infant	5.773	3	0.123	Not significant
feeding				
EBF is economically viable	12.653	3	0.005	Significant
Breastfed babies are healthier than formula-fed	16.693	3	0.001	Significant
babies				
I should give breastmilk to my baby immediately	14.153	3	0.003	Significant
as early initiation	1200		0.000	218
Mothers require adequate nutrition to effectively	83.590	3	0.000	Significant
do EBF	03.370	3	0.000	Significant
	2.702	2	0.206	NT . 'C' .
Exclusively fed infants are more likely to have	3.783	3	0.286	Not significant
health problems				
I have done prelacteal feeding when my child was	6.861	3	0.076	Not significant
born				

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### **Hypothesis Two**

#### No Relationship exists between Exposure and Attitude to Media messages on EBF.

The Chi-square measure of association indicates a significant association between exposure to media messages and willingness to do EBF, encouraging friends and family, and increasing the bond between mother and child. These results show that these attitudes towards EBF were influenced by the respondents' exposure to the media messages on EBF. However, at p > 0.05, there is no significant relationship between exposure to media messages and attitudes such as preference for formula milk, economic and time constraints to EBF, fear of health problems after EBF, breast milk not being sufficient, and indifference to media messages to EBF.

Table 9: Chi-Square Test of Relationship between Exposure and Attitudes to Media Messages

Table 7. Cin-Square Test of Relationship between Exposure and Attitudes to Media Messages						
Attitude to Media Messages on EBF	Chi-square Value	Df	P-value	Decision		
I am willing to carryout exclusive breastfeeding	19.601	9	0.012	Significant		
I encourage my female friends and family to do	5.111	9	0.025	Significant		
EBF						
I prefer formula feeding to breastmilk	6.915	9	0.646	Not significant		
I am not able to effectively carryout EBF as a	9.905	9	0.219	Not significant		
result of work and time						
I am not able to effectively carryout EBF as a	10.079	9	0.325	Not significant		
result of financial and economic reasons						
I may have health problems if I exclusively	8.784	9	0.201	Not significant		
breastfeed for 6 months						
I accept that non-utilization of first milk is alright	6.903	9	0.545	Not significant		
I feel that only breastmilk will not be sufficient for	10.067	9	0.180	Not significant		
the baby's nutrition after 3 months						
I accept that breastfeeding increases the bond	21.098	9	0.019	Significant		
between mother and infant						
I am indifferent about mass media messages on	3.151	9	0.801	Not significant		
EBF						
I usually pay attention to adverts on EBF from the	13.142	9	0.106	Not significant		
mass and social media though I won't adhere						
Media messages have not made me to start EBF	6.749	9	0.610	Not significant		

#### **Discussion of Findings**

The study examined exposure to and knowledge of EBF among mothers in South-East Nigeria. Findings indicate that the respondents are significantly exposed to these messages. However, awareness is higher among respondents from tertiary hospitals. The study highlights the importance of addressing media exposure in promoting breastfeeding awareness and practices. Studies show that mass media campaigns can address knowledge deficiencies in public health initiatives such as EBF and family planning (Mashreky et al., 2015; Walters et al., 2017).

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The present study also shows that media campaigns significantly influence the knowledge of breastfeeding mothers about EBF. There is a significant relationship between awareness and knowledge of issues in EBF. However, the study also finds that apathy (43%) towards media messages primarily consists of respondents who are predominantly unmarried or fall under the younger age bracket (below 30 years). A study by Mashreky et al. (2015) demonstrated the need to teach the unmarried and healthcare workers about the importance of EBF.

The study indicates a significant relationship between the frequency of attendance at antenatal care and the attitudes of the respondents towards media messages promoting EBF. Respondents who did not attend antenatal care demonstrated the least favourable attitudes and responses towards EBF, which can be attributed to the efforts of healthcare professionals educating pregnant mothers on EBF.

The study by Mashreky et al. (2015) indicated evidence that exposure to mass media campaign messages can fill critical knowledge gaps in public health programmes such as exclusive breastfeeding and other community health issues such as HIV, family planning, and immunization. Their study revealed that mass media campaigns have been used to promote exclusive breastfeeding rather than complementary feeding since the importance of breastfeeding has been scientifically established. Hence, mass media is vital in disseminating the public health importance of exclusive breastfeeding.

Furthermore, findings of the study show that there is a high level of knowledge of exclusive breastfeeding among the respondents through mass media messages. This is observed in their knowledge that it is wrong to substitute EBF with other forms of milk, like formula, and that EBF can prevent diarrhoea and respiratory problems, improve a baby's immune system, and protect a baby from illness. The knowledge level is also indicated in their understanding that EBF can lower the rate of breast and ovarian cancer in women. Studies (e.g Walters, Eberwein, Sullivan, D'Alimonte, & Shekar, 2017) corroborates the findings of this study on the level of knowledge on EBF through media campaign programmes. These studies revealed that exclusively breastfeeding a child adequately (optimally) has the single largest potential impact on child and maternal mortality. They asserted that well-carried-out exclusive breastfeeding has implications for the overall health, nutritional, cognitive, and long-term economic benefits of the child and is associated with a higher intelligent quotient.

Victora et al. (2016) reaffirmed the findings of this study in their study on breastfeeding in the 21<sup>st</sup> century. Their study aligned with the findings of this study in the area of the benefits of EBF on the health of the baby and the mother. They revealed that "breastfeeding has protective effects for newborns and young children that prevent common diseases such as diarrhoea and pneumonia, which are major causes of child mortality". Furthermore, their findings point to exclusive breastfeeding as reducing the risk of obesity in children and the risks of diabetes, breast cancer, and ovarian cancer in mothers later in life. These studies are strategic in diffusing the locally held belief among some folks that infants exclusively breastfed are likely to have health problems. The use of mass media campaigns to disseminate this important health

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knowledge and information on EBF has yielded some useful results among breastfeeding mothers in the Southeast region of Nigeria.

The Health Belief Model (HBM) ensures that the media is being called to action to develop and create more potent awareness messages that will improve knowledge. Messages are expected to influence the attitude of members of the public and ultimately cause behavioural change to carry out preventive actions (lifestyle changes) to go for regular antenatal visits and adopt early initiation of the baby to breastfeeding.

#### **Conclusion and recommendations**

The respondents are exposed to media on EBF, and this has an influence on their knowledge of the subject. The significant relationship between awareness and knowledge of EBF demonstrates the role of the media. However, age, cultural, and religious barriers hinder the effectiveness of EBF media messages. The following recommendations are made:

- 1. Media messages on EBF should aim more at counteracting myths and misinformation.
- 2. Health professionals should harmonise their messages with media messages to enhance persuasive effects.
- 3. Media messages can reinforce the need to get more women into the labour force to remove the economic concerns that affect adherence to EBF.
- 4. Media messages should announce government benefits to EBF-practicing mothers, such as paid maternity leave.
- 5. Media messages should promote the role of husbands and family members in supporting mothers to imbibe EBF.

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