

### KNOWLEDGE, PRACTICE AND MANAGEMENT OF CHILDHOOD DIARRHOEA AMONG MOTHERS IN ORUMBA NORTH LOCAL GOVERNMENT AREA, ANAMBRA STATE

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#### **Abstract**

Diarrhoea is one of the major public health problems in Nigeria and it affects mostly under-five children. This study assessed Knowledge, Practice and Management of Childhood Diarrhoea among Mothers in Orumba North Local Government Area, Anambra State. A total of 284 mothers between the ages of 21-49 years who attended maternal and child health clinics (MCH) in different Public Health centres in Orumba North LGA were selected using stratified random sampling techniques. Structured questionnaires; Diarrhoea Knowledge and Management Practices (DIK.AMP) Questionnaires were used as instrument to collect data from the respondents, as the researcher adopted survey research design and employed descriptive (percentage) and inferential (ANOVA) statistics for data analysis using Statistical Product For Service Solution (SPSS, version 23). Findings from the study showed that 74.17% of the respondents have good knowledge of childhood diarrhoea in terms of Signs and symptoms, danger, preventive measures and mode of transmission. Again, majority of mothers adopted all the management practices of childhood diarrhoea ranging from 72.2%- 90.5% except "giving their babies only breast milk during diarrhoea (42.3%) and (35.6%) mothers who allowed their children to defecate in bushes or open spaces. Mothers of all the parity statuses possessed high level of knowledge ranging from (61.24% - 87.99%) of the various dimensions of childhood diarrhoea except those of parity status 5 and above who possessed average (57.99%) knowledge in PMCD. There was no significant difference in the level of knowledge of mothers regarding childhood diarrhoea. The researcher concluded that mothers in Orumba North LGA are knowledgeable about Childhood Diarrhoea practice at a very high degree. The study recommended that health



workers at the various MCH in Orumba North LGA should strengthen their teachings on the management practices of mothers regarding childhood diarrhoea.

**Keyword:** Diarrhoea, Childhood, Mother, Knowledge, Management

#### Introduction

Diarrhoea accounts for high levels in young children mortality developing countries like Nigeria, despite worldwide efforts to improve overall child health levels. Nigeria's under-five mortality rate is ranked as the eighth highest in the world, and diarrhea is known to be a major contributor to this statistic (Adewemimo, Kalter, Perin, Koffi, Quinley & Black, 2017). Each year, in the developing countries of Asia, Africa and Latin approximately five million America, children under five years of age die from acute diarrheal. About 80 per cent of these deaths are in the first two years of life (Lucas & Gilles, 2009) In the developing world as a whole, about one-third of infant and child deaths are due to diarrheal and approximately 70 per cent of diarrheal deaths are caused by dehydration – the loss

of large quantity of water and salts from the body, which needs water to maintain blood volume and other fluids to function properly (Gupta & Mahajan, 2005). United Nations Children Funds [UNICEF] (2008, 2015) submitted that in Nigeria, infant mortality rates are twice as high in rural settings as they are in urban ones due to poor hygiene and poor sanitation. Of the annual 3 million infant births in Nigeria, approximately 170,000 result in deaths that are mainly due to poor knowledge and management practices of childhood diarrheal. Several factors are likely to contribute to the very high diarrheal morbidity and mortality rates, in children under-five years including poverty, female illiteracy, poor water supply and sanitation, poor hygiene practices and inadequate health services (Park, 2009). Malnutrition is another established risk factor for mortality among children with diarrheal disease. This be inadequate due may to case



management. The first line of management of diarrheal, is therefore, the prevention of dehydration. This can be achieved at home using Oral Rehydration Therapy (ORT).

#### **Objective of the study**

The purpose of the study is to access the knowledge, practice and management of childhood diarrheal by mothers in Orumba North LGA. Specifically, the study intends to find out:

- Assess knowledge of diarrheal management practices among mothers in Orumba North Local Government Area of Anambra State.
- 2. Identify the diarrheal management measures practiced among mothers in Orumba North Local Government Area of Anambra State.
- 3. Find out differences in the level of knowledge of mothers regarding childhood diarrhoea according to parity in Orumba North Local Government Area of Anambra State?
- Determine the difference in the management practices of mothers regarding childhood

diarrhoea according to parity in Orumba North Local Government Area of Anambra State?

#### **Research Questions**

- What is the level of knowledge of mothers in Orumba North Local Government Area of Anambra State about diarrheal management practices?
- 2. What are the diarrheal management measures practiced by mothers in Orumba North Local Government Area of Anambra State?
- 3. What is the difference in the level of knowledge of mothers regarding childhood diarrhoea according to parity in Orumba North Local Government Area of Anambra State?
- 4. What is the difference in the management practices of mothers regarding childhood diarrhoea according to parity in Orumba North Local Government Area of Anambra State?

#### **Hypotheses**

The following hypotheses were tested:



- There will be a statistically significant difference in the level of knowledge of mothers regarding childhood diarrheal.
- There will be no statistically significant difference in the level of knowledge of mothers regarding childhood diarrheal.

#### Methodology

#### **Research Design**

In order to accomplish the purpose of the present study, the survey research design was used.

#### **Population for the Study**

The target population for this study consisted all nursing mothers (21-49 years) in the local government area. This constituted 22% of the total population (NPC, 2006). The focus on this segment of the population was justified with the fact that women are closer to their children and known to be the providers of child health in the household. The population for the study comprised of 3000 registered mothers who

attended maternal and child health clinics (MCH) in different Public Health centres in Orumba North LGA. These include; Awgbu, Omogho, Ndiokpalaeze, Ndiokolo, Amaetiti, Ndiokpalaeke, Okoh, Nanka, Ndiukwuenu, Awa, Ndikelionwu, Ajalli, Ufuma, Amaokpala, Ndiowu, and Okpeze health centers

#### Sample and Sampling Techniques

300 A sample of mothers representing ten per cent of the study population was utilized for the study. This is in line with Nwana (1991) rule of the which thumb states that when the population is a few thousands, 10% of the population will be used. The multi-stage sampling procedure was employed to draw the sample for the study.

In the first stage, stratified random sampling was used to stratify communities into three quarters that make up the Local Government Area. The second stage involved the use of simple random sampling technique of balloting without



replacement to select two health districts. The two health districts have 25 existing MCH clinics. In the third stage, simple random sampling technique of balloting without replacement was employed to select 12 mothers from each of the 25 MCH clinics. The decision to select respondents from each selected MCH is to ensure equal representation of the mothers for the study. At the end of the sampling procedure 300 respondents was selected and utilized for the study.

#### **Instrument for Data Collection**

The instrument for data collection was the researcher – designed questionnaire on Diarrhoea Knowledge and Management Practices (DIK.AMP) Questionnaire.

#### Validity of Instrument

The validity of the instrument was obtained through the judgment of three experts in the Department of Public Health, Faculty of Health Sciences, Madonna University Elele Nigeria. Three copies of the questionnaire were given to three

experts in the Department of Public Health,
Faculty of Health Sciences, Madonna
University Elele Nigeria.

#### Reliability of the Instrument.

Split-half method was used to establish the reliability of the instrument. Split-half method of assessing the reliability of an instrument was done by dividing the items into two equivalent halves and correlating the scores in one part with the scores in the other part. The items were split into even and odd numbers. The relationship of two halves was computed using Spearman-Brown prophecy formula.

Ogbazi and Okpala (1994) stated that in a reliability test, if the correlation co-efficient index obtained is up to .60 and above, the instrument is considered reliable. The result was compiled using Cronbach alpha formula to get the coefficient of reliability of 0.892 which showed that the DIKAMP questionnaire has high proportion of internal consistency.

#### **Method of Data Collection**



In order to gain access to and cooperation from the respondents, a letter of introduction from the Head, Department of Public Health, Imo State University, Owerri was obtained by the researcher who presented the letter to the medical Directors or Chief Nursing officers of all the sampled MCH clinics. The copies questionnaire were administered to the respondents in their respective MCH clinics with three research assistants who were briefed on the content and administration of the instrument. The aim was to collect completed copies back from respondents and keep the respondents under supervision to ensure they supply independent responses and also assist the illiterate respondents in the reading and writing down their opinions for them. Out of the 300 copies of the questionnaire distributed, 284 copies were returned, this represented 94.7 % return rate.

#### **Method of Data Analysis**

returned questionnaires were properly cross-checked for adequacy of information. Copies that do not have adequate responses were discarded. The responses were coded on computer coding sheets, thereafter the Statistical Package for the Social Sciences (SPSS) Batch System was employed in data analysis. Percentages and mean were used in analysing their responses regarding knowledge of childhood diarrhoea. The data were analysed on an item -by- item basis to indicate the response frequencies and percentages of respondents according to age, level of education, and parity.

Below 40 per cent score of the respondents was considered low level of knowledge; 40 – 59 per cent was considered average level, a score of 60 – 80 percent was considered high level, while above 80 per cent was considered very high level of knowledge. The research questions were answered using these criteria. With regard to practice, percentages were used to





determine whether the respondents practice
each of the items under practice sub-scale.
The "Yes" and "No" scale emphasized by
Ifegbesan (2010) was used to answer the
research questions enquiring into the
management practices of mothers.
Hypotheses one, two and three were tested
using ANOVA.

#### **RESULTS PRESENTATION**

This chapter presents and discusses the results of the study on the knowledge practices and and management of childhood diarrhoea by mothers in Orumba North LGA of Ananmbra State, Nigeria. The results of this study are organized and presented in two parts thus: Data answering the research questions and data testing the null hypothesis.

Table 1: Socio-Demographic Data of the **Respondents N=284** 

Demogra	Option	Freque	Percent
phic Variable		ncy	age
Age	21-25	56	19.7
C	26-30	118	Mean
	31-35	70	age
		40	

	40 above		41.5 29.5±5. 43 24.6 14.1
Marital Status	Single Married Separat ed Divorce d Widow ed	22 234 12 5 11	7.7 82.4 4.2 1.8 3.9
Ethnic	Igbo	249	87.7
Group	Hausa	15	5.3
	Yoruba	11	3.9
	Tivs Esan	8	2.8 0.4
7	Lsan	1	0.4
Religion	Christia	255	89.8
	n	18	6.3
	Islam African T.R	11	3.9
How	One	158	55.6
many	Two	89	31.3
under	Three	15	5.3
Five	Four	22	7.7
Children			
Educatio nal Level	No formal Educati	34 124 68	12.0 43.7 23.9
	on Primar	48	16.9
	y Second ary		
	Tertiary		
Occupati	House	38	13.4
on	wife	23	8.1
	Student	37	13.0
	Civil	68	23.9
	servant	58	20.4
	Trader	27	9.5
	Farmer	18	6.3



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Results revealed that respondents within the age range of 26-30 years had the highest frequency of 118(41.5%) while those within the age range of 40+ had the least frequency of 40(14.1%). Respondents that were married had the highest frequency of 234(82.4%) while those that were divorced had 5(1.8%). Furthermore, based ethnicity and religion Igbos obtained the highest percentage of 249(87.7%) as well as 255(89.8%). In education, Christians women with primary education 124(43.7%) were highest followed by those with secondary education 68(23.9%). In terms of occupation majority of 68(23.9%) are traders while 58(20.4%) are farmers. Finally, 158(55.6%) of the women reported having children who are one year old while 89(31.3%) reported having children who are under two years old.

**Research Question One:** What is the level of knowledge of mothers in Orumba North

Local Government Area of Anambra State about diarrheal management practices?

### Table 2: Level of Knowledge Possessed by Mothers Regarding Childhood Diarrhoea (KCD) (N=284)

#### Item

- 1 Knowledge Possessed by Mothers Regarding Childhood Diarrhoea **KCD**
- 2 knowledge possessed by mothers regarding signs and symptoms of diarrhoea **KSSC**
- 3 Knowledge possessed by Mothers regarding the Modes of Transmission of Childhood Diarrhoea **KMTCD**
- 4 Knowledge Possessed by Mothers Regarding the Dangers of Childhood Diarrhoea **KDCD**
- 5 Knowledge Possessed by Mothers Regarding the Preventative Measures of Childhood Diarrhoea (KPMCD)

#### **GRAND TOTAL %**

that from the responses of participants regarding Mothers' knowledge of childhood diarrhoea, a grand total of 74.17%. Meaning that mothers in Orumba North LGA showed high level of knowledge regarding childhood diarrhoea which fell between 60-80 per cent. This shows that the mothers' level of knowledge regarding childhood



diarrhoea, signs and symptoms, modes of transmission, dangers and preventive measures were high since their responses falls between 60 - 80%.

**Research Question Two:** What are the diarrheal management measures practiced by mothers in Orumba North Local Government Area of Anambra State?

Table 3: Management Measures
Practiced by Mothers Regarding
Childhood Diarrhoea (N=284)

S/	ITEM	YES	%	N	%
N				O	
25	Do you	12	42.	16	57.
	give your	0	3	4	7
	baby only			4	
	breast	w /			
	milk	/ /			
	when				
	he/she has		-33		LIOP
di	diarrhoea				DUIN
	?		Van S		
26	Do you	25	88.	32	11,
	continue	2	7		3
	breast				
	feeding				
	especially				
	when				
	your baby				
	has				
	diarrhoea				
	?				
27	Do you	23	83.	48	16.
	prepare	6	1		9
	weaning				
	food				
	hygienica				

28	Ily during diarrhoea episode? Do you boil water used for making drinks for your children		85. 6	41	14. 4
	during diarrhoea				
	?				
29	Do you	21	75.	69	24.
	use boiled	5	7		3
	water in				
7	preparing oral				
	rehydratio				
	n solution				
	(ORS)?				
30	Do you	10	35.	18	64.
	allow a	1	6	3	4
1	child who	Con			
D	has diarrhoea				
	to				100
	defecate				
	in bushes				
	or open				
	spaces?		0.0		
31	Do you	25	90.	27	9.5
	promptly clean your	7	5		
	baby who				
	has				
	defecated,				
	washing				
	the baby's				
	hands and				
	also your hands				
	nanus				

especially



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	during				
	diarrhoea				
	?				
32	Do you	20	73.	75	26.
	mix oral	9	6		4
	rehydratio				
	n solution				
	(ORS) in				
	the right				
	proportio				
	n?				
33	Do you	21	76.	68	23.
	wash your	6	1		9
	hands				1
	with soap				1
	and water				
	before				
	preparing				
	ORS?				And
34	Do you	20	72.	79	27.
	give ORS	5	2	A	8
	as soon as			4	
	diarrhoea	7 /			190
	starts			-	

From Table 3 above, it shows that majority of the mothers adopted promptly cleaning baby who had defecated (90.5%), continuing breastfeeding especially when the baby had diarrhoea (88.7%), boiling water used in making drinks for their children during diarrhoea (85.6%) and preparing food hygienically during diarrhoea episode (83.1%). The table further

shows that majority of the mothers washed hands with soap and water before preparing ORS (76.1%), used boiled water in preparing ORS (75.7%), mixed ORS in the right proportion (73.6%), and gave ORS as soon as diarrhoea starts (72.2%) whereas lower proportion of the mothers give their babies only breast milk during diarrhoea episode (42.3%) and allowed their children who had diarrhoea to defecate in bushes or open spaces (35.6%).

**Research Question 3:** What is difference in the level of knowledge of mothers regarding childhood diarrhoea according to parity in Orumba North Local Government Area of Anambra State?

Table 4: Differences in the Knowledge of Childhood Diarrhoea of mothers according to Parity.

S/ N	Compone nts of	Parity Status					
-11	Diarrhoe	One		2-4			
	a knowledg e	%	Decis ion	%			
1	CD	75.00	high	71.22			



**SSCD** 

**MTCD** 

DCD

2

3

4

5

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87.594.48% V, en MTCD 872.540%), Vely C	CD
high high	
80.40 Very 72.40 high	
high	
Research Question 4: What is 78.42 High	
difference in the management practic	es of
difference in the management practic 57.99 Avera 65.00 high mothers gregarding childhood diar	rhoea
75.30 Cording to parity in Osymba North	Local

PMCD 61.24 High

Overall 74.20 High

Mean

82.99

73.20

78.61

Very high

High

High

Table 5: Difference in the Management Practices of Mothers Regarding Childhood Diarrhoea According to Parity.

Government Area of Anambra State?

Table 4 shows those mothers with one child possessed very high level of knowledge of SSCD (82.99%) and high level of knowledge of DCD (78.61%), KCD (75%), MTCD (73.20%) and PMCD (61.24%). The table further reveals that mothers with 2-4 children possessed very high level of knowledge of SSCD (87.59%), MTCD (80.40%), high level of knowledge in DCD (78.42%), CD (71.22%) and average knowledge of PMCD (57.99%). The Table also shows that mothers with 5 children and above possessed very high level knowledge of KSSCD (81.25%)

and high level of knowledge of DCD

S/	Components of childhood	Parity	Parity Status One (N=97)	
N	Diarrhoea management practices	One (I		
		Yes %	No %	
25	Do you give your baby only	19.	14.	
	breast milk when he/she has	7	4	
D	diarrhoea?			
26	Do you continue breast feeding	<del>-</del> 30.	3.5	
	especially when your baby has diarrhoea?	6		
27	Do you prepare weaning food	27.	6.3	
	hygienically during diarrhoea episode?	8		
28	Do you boil water used for	28.	5.3	
	making drinks for your children	9		
	during diarrhoea?			
29	Do you use boiled water in	25.	9.2	
	preparing oral rehydration solution (ORS)?	0		
30	Do you allow a child who has	12.	21.	
	diarrhoea to defecate in bushes	5	8	
	2			

or open spaces?



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Do you promptly clean your baby who has defecated, washing the baby's hands and also your hands especially during diarrhoea?

31.

25.

**2**7.

25. 4

25.

41

- Do you mix oral rehydration solution (ORS) in the right proportion?
- 33 Do you wash your hands with soap and water before preparing ORS?
- Do you give ORS as soon as diarrhoea starts

Overall %

Table 5 reveals that a higher proportion of mothers with one child (19.7%) than mothers with 2-4 children (15.8%) and 5 children and above (6.7%) gave their babies only breast milk during diarrhoea, while a higher proportion of mothers with 2-4 children (43.3%) than mothers with one child (30.6%) and 5 children and above (14.8%) also continued breast feeding their babies especially during diarrhoea.

The Table also shows that a higher proportion of mothers with 2-4 children (41.2%) than mothers with one child (27.8%) and those with 5 children and

above (1445%) prepared weathing food 4 1 1 hygienically during diarrhoea, while a higher proportion of the mothers with 24 children (47:6%) than those with 6ne 7 3 6 child (28.9%) and 5 children and above 6.3 37. 11. 10. 6.3 (14.1%) boiled water used in making drinks for their children during 8.8 35. 13. 11. 5.3 diarrhoea 2 episode? The table further reveals that a higher proportion of

mothers with 2-4 children (38.7%) than mothers with one child (25%) and those with 5 children and above (12%) used boiled water in preparing ORS, while a slightly higher proportion of the mothers with 2-4 children (14.8%) than those with one child (12.5%) and 5 children and above (8.5%) allowed their children who had diarrhoea to defecate in bushes or open spaces.

#### HYPOTHESES TESTING

**Hypothesis 1:** There will be a statistically significant difference in the level of knowledge of mothers regarding childhood diarrhoea.



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Table 6: Summary of One Way ANOVA Analysis Testing Null Hypothesis of no Significant Difference in the Knowledge of Mothers Regarding Childhood Diarrhoea.

various dimensions of childhood diarrhoea was the same for all the age groups. This implies that age did not make any difference in the level of knowledge of mothers regarding the

Dimension childhood	ofSum squares	0		Mean . Various squares	dimensio	F ons of <b>Value</b>	P. value childhood
diarrhoea	Between groups	Within groups	df	Between groups			
KCD	2394.238	225411.660	2	<u> </u>	<u> </u>	rd :49A*b	e a <sup>2</sup> statistically
KSSCD	72.798	163701.410	2	36.399	582,567	.062**	.939 the level of
KMTCD	1239.201	235547.770	2	619.601	838.248	.739**	.478
KDCD	1930.662	215815.817	2	965.331	ge of moth 768.028	ers regard 1.257	ding childhood .286
KPMCD	1637.804	172739.661	2	818d <b>902</b> heal	. 614.732	1.332**	.266

<sup>\*\*</sup> Not significant

Table 6 shows the F-values for the various dimensions of childhood diarrhoea with their corresponding Pvalues (KCD - F = 1.492, P = .227, KSSCD - F = .062, P = .939, KMTCD -F = .739, P = .478, KDCD - F = 1.257, P= .286 and KPMCD - F = 1.332, P=.266) which were greater than .05 level of significance at 2 and 281 degrees of freedom. The null hypothesis of no significant difference is therefore accepted. This means that the level of knowledge of mothers regarding the

Table 7: Summary of One Way ANOVA
Analysis Testing Null Hypothesis of no
Significant Difference in the Knowledge
of Mothers Regarding Childhood
Diarrhoea According to Level of
Education.

-	Dimensions of childhood	Sum of squares	•	Df	Mean square
	diarrhoea	Between groups	Within groups	Di	Betwee
_	KCD	12567.256	215238.641	3	4189.0
	KSSCD	4318.272	15945 5.935	3	1439.4
	KMTCD	14493.406	222293.566	3	4831.1
	KDCD	21440.424	196306.054	3	7146.8
	KPMCD	1226.869	173150.596	3	408.95

<sup>\*</sup>Significant \*\* Not significant



Table 7 shows the F-calculated values for KCD (F = 5, 450, P = .001), KMTCD (F = 6.085, P = .058), and KDCD (F =10.194, P =.000) with their corresponding P-values which are less than .05 level of significance at 3 and 280 degrees of freedom. The null hypothesis was therefore rejected. This implies that there was significant difference in the levels of knowledge of these dimensions of childhood diarrhoea according to level of education. The table further shows the F-calculated values for KSSCD (F = 2.528, P = .058) and KPMCD (F = .661, P = .576) with their corresponding P-values which are greater than .05 level of significance at 3 and 280 degrees of freedom. The null hypothesis of no significant difference was accepted. This implies difference did not exist in the level of knowledge of mothers regarding these dimensions of childhood diarrhoea according to level of education.

#### **Summary of Findings**

Based on the analysis of data, the major findings of the study are hereby summarized;

- Mothers had high (71.21%)
   level of knowledge of the concept of childhood diarrhoea
   (KCD).
- 2. Mothers had very high (84.94%) level of knowledge of the signs and symptoms of childhood diarrhoea.
- 3. Mothers had high (76.58%)
  level of knowledge of the
  modes of transmission of
  childhood diarrhoea.
- 4. Majority of mothers" adopted all the management practices of childhood diarrhoea ranging from 72.2%- 90.5% except "giving their babies only breast milk during diarrhoea (42.3%) and (35.6%) mothers who allowed their children to





defecate in bushes or open spaces.

5. Mothers" of all the levels of education possessed very high level of knowledge of SSCD and high level of knowledge of CD, MTCD, DCD and PMCD while only those with tertiary education possessed average level of knowledge of PMCD.

#### **DISCUSSION**

The findings of the study are hereby discussed under the following headings:

- 1. Knowledge of mothers regarding childhood diarrhoea
- Management practices of mothers regarding childhood diarrhoea.
- Differences in the knowledge and management practices of mothers regarding childhood diarrhoea.

Knowledge of Mothers regarding childhood diarrhoea.

Results in Tables 1 showed that mothers in Orumba North LGA had high level of knowledge of the various components of childhood diarrhoea. The finding was expected and therefore not surprising. This is because these mothers might have been attending antenatal clinics where trained nurses and midwives taught the rudiments of childhood diarrhoea. This finding is in consonance with that of Ahmed et al. (1994) who reported that their respondents exhibited high level of knowledge of the components of childhood diarrhoea

# Management practices of mothers regarding childhood diarrhoea.

Result in Table 3 revealed that majority of the mothers practiced giving their babies other fluids apart from breast milk.

The result further showed that lower proportion of the mothers (35.6%) allowed their children to





defecate in bushes and open spaces during diarrhoea. This finding was anticipated because some of the mothers do not have toilets and they defecate in bushes. This is a negative practice and should not be encouraged to prevent the spread of diarrhoea and other diseases.

Difference in the knowledge and management practices of mothers' regarding Childhood diarrhoea.

The finding revealed that the level of knowledge of mothers with tertiary education regarding diarrhoea was very high. This was anticipated and therefore not a surprise. This is due to the fact that mothers with high educational attainments are expected to exhibit adequate knowledge of the components of childhood diarrhoea

Result in Table revealed that level of education has no difference in the management practices of mothers regarding childhood diarrhoea. Result

indicated low percentage level for mothers with tertiary level of education, no formal, secondary and primary education. This finding was a surprise, because educational level of any given group of individuals is expected to positively and exponentially influence their knowledge and practice of a given health-related behaviour. It is expected that mothers with tertiary and secondary education should possess very high percentage scores on the management of childhood diarrhoea, but this notion is a contradiction to the data presented in Table 8.

#### Conclusions

Based on the findings and discussions of the study, the following conclusions were attained;

It was observed that mothers in Orumba

North had high knowledge of Childhood

Diarrhoea, the dangers and preventive

practices. Also, they showed high level of

management practices regarding





childhood diarrhoea. However, in terms of age, educational level and parity, there was no significant difference recorded among mothers in Orumba North LGA. To this end, The researcher concluded that mothers in Orumba North LGA are knowledgeable about Childhood Diarrhoea, practice at a very high degree diarrhoea management practices.

#### Recommendations

Based on the finding and conclusion of this study, the following recommendations were drawn:

- 1. The health workers at the various MCH in Orumba North LGA should strengthen their teachings on the management practices of mothers regarding childhood diarrhoea. Since these mothers varied in their responses in all the management practices.
- More scientific research should be conducted in

Orumba North LGA on factors that hinder the management of childhood diarrhoea by mothers. This is essential for developing rational and effective intervention to the problem.

- 3. All methods of ORT should be uniformly taught to mothers so that they can have a variety of choice based on conveniences to them.
- 4. Since there was significant difference in the knowledge and management practiced of mothers regarding childhood diarrhoea according to level of education. The state government should provide free and compulsory education for both younger and older mothers to enable then acquire education up to tertiary level so as to widen their scope in all spheres of life including health



issues such as childhood diarrhoea.

#### References

- Ahmed, I.S, Eltom, A.R, Karrar, L.G, & Gibril, A.R. (2009).

  Knowledge, Attitude and practices of mothers regarding Diarrhoea among children in a Sudanese rural community.

  Department of community

  Health, Ministry of Health,

  Khartoum Sudan, East Africa medial Journal 71(11) 716-719.
- Adewemimo, A.; Kalter, H.D.; Perin, J.; Koffi, A.K.; Quinley, J. & Black, R.E. (2017). Direct estimates of cause-specific mortality fractions and rates of under-five deaths in the northern and southern regions of Nigeria by verbal autopsy interview. PLoS ONE 2017, 12, e0178129.
- Gay, M. & Griffiths, M., (1997).

  Program activities for
  improving weaning practices.
  Washinton, DC, American
  Public Health Association.
- Gupta, M.C. & Mahajan, B.K. (2005). *Textbook of Preventive and Social Medicine* (3<sup>rd</sup> ed.) India. Jaype e Brothers medical Publisher (P) Ltd.
- Ifegbesan, A. (2010). Exploring school students understanding and practices of waste management in Ogun state, *Nigeria. International journal of environmental and school education.* Vol. 5, 2. April.

Lucas, A. O. & Gilles, H.M. (2009). A new short textbook of preventive medicine for the tropics. Ibadan: Bounty Press Limited.

Nwana, O.C. (1981). *Introduction to educational research:* Ibadan. Thomas Nelson.

- Ogbazi, J.N., & Okpala, J. (1994).

  Writing research report. The
  Guide for Researchers in
  Education, the social sciences
  and humanities. Enugu: Press
  Time Ltd.
- Park, K., (2009). Park's Textbook of Preventive and social medicine. India: Ms Banarsidas Bhanot Publishers.

UNICEF (2008). *Children and women in Nigeria*: A situation Analysis.