THE EFFECT OF SOME SOCIO-DEMOGRAPHIC FACTORS ON INFANT AND CHILD DEATHS

Ву

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#### ABSTRACT

The purpose of this study is to investigate the effect of maternal age, parity, birth interval duration of breastfeeding, education and availability of health facilities on infant and child mortality.

Tanzania is still faced with a problem of high infant and child mortality despite the observed trend of mortality decline in developing countries in the twentieth century.

The study was carried out in Kibaha district in coast region. Data from 612 women in child bearing period with children dead were analysed in this study.

The findings were that maternal age, parity, birth interval and education of mothers have an effect on infant and child deaths. Availability of health facilities has no effect while duration of breastfeeding could not be analysed. Maternal age showed an L - shaped relationship with infant and child deaths. Parity indicated a J - shaped relationship while birth order had a U - shaped

relationship. Education of the mothers indicated a declining trend as education level of the mothers increased. Villages with and those without health facilities showed no difference in death rates. Over 84 percent of the children were breastfed for a duration of 0 -3 months. Very few children were full breastfed for over 3 months. Such data therefore could not be analysed.

It is recommended that effort be made to establish as soon as possible the population policy and the body that will deal with population activities. Age at marriage for females be raised. Child spacing and nutrition campaigns be enhanced women be discouraged to have more than four children. Family life education preparations for students and adults be given priority in order to take off as soon as possible. Family life education teachers be trained. Vacational training courses be established both in rural and urban areas to cater for those who complete primary education and transport net work and health facilities services should be improved in the villages.

- 2. To assess the degree of relationship between the socio demographic variables and infant and child deaths.
- 3. To recommend on measures to be taken in order to lower infant and child deaths in Tanzania.

#### 1.4. Hypotheses.

Hypotheses made in this study are as follows:-

- 1. Children born to women whose age is below 20 years or above 35 years have high rates of death.
- 2. First born children and high birth order children (from 5th order and above), have high rates of death.
- 3. Children born after a short birth interval of less than 24 months and those born after a longer interval of over 48 months have high rates of death.
- 4. Children who are breastfed for a shorter period of less than 6 months have high rates of death.
- 5. As the level of education of the mothers increases the rate of death of their children decreases.
- 6. As distance from area of domicile to health facilities increases, the rate of infant and child deaths increases.

## 2.2. Preparation for Data Collection

The stage for data collection preparation is crucial.

This is because, the success of actual data collection will depend on the effort put in the preparation stage.

#### 2.2.1. Data Required.

The data to be collected was determined by the hypotheses that were to be tested in the study as presented in table 4.

TABLE 4: Data required for each hypotheses.

HYPOTHESES	DATA REQUIRED	SOURCE OF DATA
1. Children born to women whose age is below 20 years and above 35 years have higher death rates.	Age of mothers at the time of birth of the dead children	Interviews by means of a questionnaire.
2. First born children and high birth order children (from 5th and above), have higher death rates.	Birth order of the children dead	††

Continues

3. Children born after a short birth interval of less than 24 months and those born after a longer interval of over 48 months have	Birth Interval of the children dead	17
higher death rates.	•	
4. Children who are breast- fed for a shorter period of less than 6 months have higher death rates.		t i
5. As the level of education of the mothers increases the rate of death of their children decreases.	Level of educa- tion of the mothers whose children are dead	TT .
area of domicile to	Distance from- place of resi- dence to health facilities.	?1

Villages in the four selected wards were 24. Only one third of these villages could be visited, these were 8 villages. Half of them had health facilities and the other half had no health facilities. This was to enable to compare the effect of distance to health facilities on infant and child deaths.

It was found out that there was one health centre in each ward. Therefore, the four villages with health centres were automatically selected. Villages without health facilities were randomly selected, one from each of the four wards. The villages selected were as shown in table 5.

TABLE 5: NAMES OF DIVISIONS, WARDS AND VILLAGES SELECTED
FOR THE FILLD STUDY

And the second s		VILLAGES				
DIVISIONS	WARDS	WITH HEALTH	WITHOUT HEALTH			
		FACILITIES	FACILITIES			
KIBAHA	Kibaha	Mwendapole	Viziwaziwa			
	Tumbi	Maili Moja	Mkuza			
MLANDIZI	Visiga	Kongowe	Visiga			
	Mlandizi	Mlandizi A	Mlandizi B			

#### 2.3.2. Sample size of the Target Population

The target population for this research was, all women in the child bearing period in Kibaha district. According to the December 1985 household enumeration in the district, the number of women in the child bearing period was 16,000. Due to limited time and funds, a 10 percent of the target population was taken as the sample size which is 1600 women.

The number of women in the child bearing period for each village was not available. Figures for the village register of eligible voters for the October, 1985 election were used to estimate women in the target population for each village. As the figures were both for women and men, a sex ratio for each of the villages basing on the 1978 census was calculated. The sex ratios were then used to calculate the number of women eligible voters for each village. Then, a 10 percent of the women eligible voters was calculated for each village selected, to get the village target population sample size. A total number of 1144 women was taken as sample size for all the eight villages as indicated in table 6 below:

TABLE 6: ESTIMATED MULTUR OF RESPOND ALLS FOR EACH
VILLAGE

1					
VILLAGE NAME	no. of elicib <sup>ed</sup> voters	SEX RATIO (IN PERCE- HTAGE)	estimated no. or worth enderre vorth	PERCENTAGE OF ESTIMATED NO. OF VOITEN ELIGIBLE VOTERS	
Mwendapole	2705	95	1385	139	
Viziwaziwa	515	117	238	24	
Maili moja	5391	87	2877	288	
Mkuza	2048	109	978	98	
Kongowe	3 <b>1</b> 35	96	1598	160	
Visiga	4265	90	2240	124	
Mlandizi A	1908	90	1004	100	
Mandizi B	2109	90	111	111	
				TOTAL 1144	

on the district figure was 1600. But the sum from the B selected villages is 1144, this can be seen from table 6 above. The deficit was expected to be compensated in the actual data collection considering the fact that, the child bearing group of women below age 18 was not included and that, in some of the Ten-Cell Leaders jurisdiction, more than 10 women would be

interviewed instead of the estimated 10 women. Therefore, the estimated number of women for each village were left as it is indicated above as guiding figures.

#### 2.3.3. Selection of Ten-cell Leaders for Each Village

After establishing the villages to be visited and the number of women to be interviewed in each village, the number of Ten-cell Leaders to be visited in each village was also to be established. The number of these leaders was dictated by the number of women to be interviewed in each village. It was estimated that ten women would be interviewed in each Ten-cell leader's jurisdiction. Therefore, the number of women to be interviewed in each village was divided by ten to get the number of ten cell leaders to be visited. After establishing the number of Ten cell leaders to be visited in the villages, their names were randomly selected.

Table 7 below gives the number of Ten Cell Leaders selected for each village:

TABLE 8: ACTUAL NUMBER OF RESPONDENTS DITENVIEWED

IN EACH VILLAGE

VILLAGES	NO. OF RESPONDING
Mwendapole	244
Maili moja	238
Mkuza	195
Kongowe	235
Visiga	160
Mandizi A	74
Mlandizi B	184
TOTAL	1330

Failure to obtain the 1600 target population sample size was due to the following reasons.

The time of the field study coincided with harvesting time. Most of the women had temporarily outmigrated to Ruvu area for harvesting rice. Such women were not interviewed. The interviewers failed to go to Viziwaziwa and Kiluvya B villages due to transport problems. Women expected to be interviewed there, were thus not interviewed. It was also expected that 10 women could be interviewed in every ten households. This was not the case in the field. Hardly 5 women were interviewed in some cases. The rest were old women of over 50 years and young girls.

expressed in death rates per thousand births. Before
the rates are calculated the data on deaths and births
are smoothed by three point moving average.

Some variables interrelate and some work through other variables to influence infant and child deaths.

Due to this situation, a control for variables like age and education is carried out in order to enalyse the effect of other factors.

In the process of analysis, it was intended to establish the degree of effect of the 6 variables listed in this study through a multivariate analysis. Unfortunately, this could not be done due to problems of computing facilities.

Cross tabulation tables and graphs are used as illustrative tools in the presentation of the findings.

#### 3.1.3 Smoothed data

All the data in the tables given in the analysis charten are smoothed. Data were smoothed for the purpose of reducing fluctuations that would have occured when drawing the graphs that were used as tools for analysis. A three point moving average method was used to smoothen the data. In this method values of the first three numbers of the raw data in the column are added together. The sum is divided by three to get the average or the central value of the number involved. The average is placed on the second number of the three added values. For the following value either the second, third and fourth numbers were added and divided by three to get the second central value, or, the first value was subtracted from the total just calculated and the fourth value was added. The sum was divided by three to get the second central value. This process is continued until all the values in the column are involved. The calculated central values were therefore the smoothed figures.

#### 3.1.4 Profile of the study population.

Women respondents with children dead were 612.

These women had given birth to 3353 children. And of these children, 1957 had died representing 31.5 percent of the children born alive. About 77 percent of these women were married, 3.3 percent widewed,

13.7 percent divorced and 6 percent had nover married

DEATH RATES OF THEANTS AND YOURG CALIDREN BY THEIR AGE AND BY AGE OF TEXTR POTHERS. TABLE 9

And the case of th	Child Deaths per thousand	345 135 129 119 107	
	Infant deaths per Thousand	276 255 226 212 177 173	ere de la companya de
	Smoothed No. of Child dearths.	10 35 63 79 81 66	383
・ 一年 ・ 日本 ・ 日	Smoothed Mo. Infant deaths	8 66 111 141 120 107	655
and the same of th	Smoothed No. or Births	29 259 489 666 679 618 537	3277
	Age of Mothers	15 <b>7</b> 19 20 <b>-</b> 24 25 <b>-</b> 29 30 <b>-</b> 34 35 <b>-</b> 39 40 <b>-</b> 44 45 <b>-</b> 49	TOTAL

TABLE 10 DEATH RATES OF CHILDREN BY THEIR BIRTH ORDER

And the second s
Smoothed No. of Infant Deaths
190
129
89
20
09
49
39
27
<b>7</b> 8
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8
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Υ
694

FIGURE 4. DEATH RATES OF INFANTS AND YOUNG CHILDREN BY BIRTH ORDER

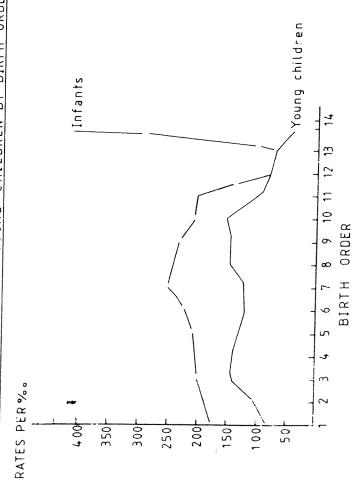
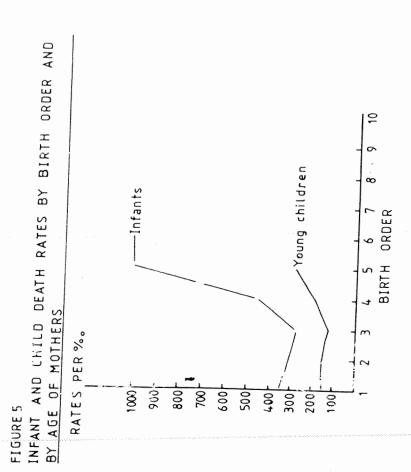


TABLE 11 DEATH RATES OF CHILDREN BORN TO WOMEN AGED 20-24
BIRTH ORDER

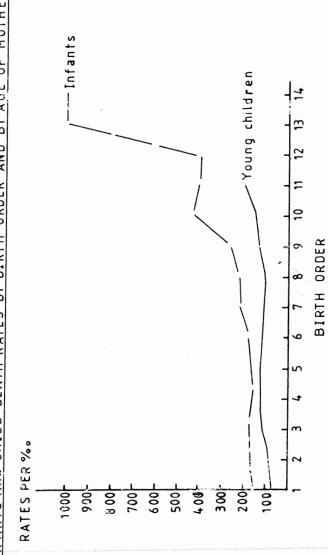
	Birth Order	No. of Birth	Infant deaths		Infant death Rates per thousand	Child death rates per thousand
	1	98	34	14	347	143
	2	70	22	10	314	143
	3	3.9		. 5	282	128
	4	11	5	3	455	272
	5	2	2	0	1000	0
* . * . * . *	6	1	1	0	1000	0
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DEATH RATES OF CHILDREN BORN TO WOLLIN AGED 35-39 BY BITTH ONDER TABLE 12

	1		
	Child deaths per thousand	63 113 144 128 102 103 00 0	・ ・ ・ ・ ・ ・ ・ ・ ・ ・ ・ ・ ・ ・ ・ ・ ・ ・ ・
The second secon	Infant deaths per thousand	136 149 163 135 163 163 163 160 1000 1000	
	Smoothed No. of Child deaths	ñ20₩₩±04₩+000	72
	Smoothed No. of infant deaths	9777777084MMM	129
And the second s	Smoothed No. of Births	161 168 168 168 168 168 168 168 168 168	782
	Birth Order	- andrormobubturt	TOTAL

INFANTS AND CHILD DEATH RATES BY BIRTH ORDER AND BY AGE OF MOTHERS FIGURE 6.



DEATH RATES OF CRILDER BY BIRTH DITERVAL FOR WOMEN AGED 20-24 TABLE 13

			-
	Child deaths per thousand	141 150 146 125	And - Briefs and Briefs and Briefs and Spices
	Infant Deaths per thousand	354 342 317 375	And the second s
	Smoothed No. of Child deaths	41. 9 70	33
	Smoothed Fo. of Infant deaths	35 25 13 6	62
	Smoothed No. of Births	99 73 41 0	229
A STATE OF THE PERSON NAMED OF THE PERSON NAME	Mirth Interval in Months	<ul> <li>24-35</li> <li>36-47</li> <li>48-71</li> <li>72+</li> </ul>	TOLL

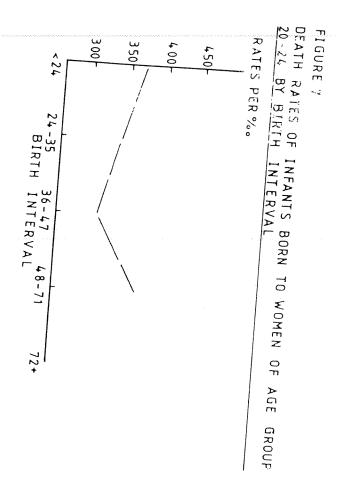
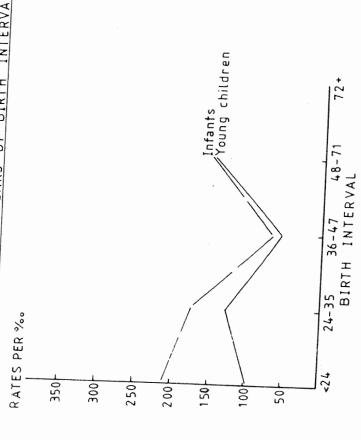


TABLE 14 DEATH RATES OF CHILDREN BY BILLY INTERVAL FOR WOMEN WITH EDUCATION LEVEL OF 1-4 YEARS

	1				*******		
	Child Deaths per thousand	CO	0 (	57	ω ,	<u> </u>	
	Smoothed No. Infent Deaths of Child per thousand deaths	210	) [·	- (	0 W	o 0	
The Cart Control of the Carte	Smoothed No. of Child deaths	12	.30	) V	0	. 0	84
	Smoothed Mo. of Infant deaths	45	41	27	0	0	123
And the second control of the second control	Smoothed Mo. of Births	214	231	164	64	0	673
13 14 14 14 14 14 14 14 14 14 14 14 14 14	in Months	<b>4.24</b>	24 - 35	36 - 47	48 - 71	72;+	TOTAL

FIGURE 8

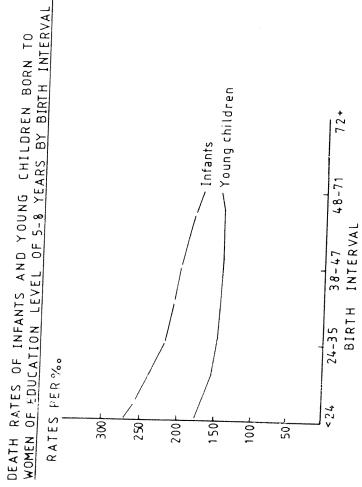
DEATH RATES OF INFANTS AND YOUNG CHILDREN BORN TO WOMEN WITH EDUCATION 1-4 YEARS BY BIRTH INTERVAL



100

			-							
	I DUCATION 5-8 YEARS		Child deaths Per thousand	NI TO COLOR	LLL	150	143	146	0	AND THE PROPERTY OF THE PROPER
		•	Infant Deaths per thousand	The state of the s	270	220	200	170	0	
	INTERVAL FOR WOMEN	Ĺ	of Child	QTTO YOU	22	27		<b>v</b>		72
5	CHIIDREN BY BIRTH	Smoothed	Smoothed Mo. of Infant deaths		<u>ا</u> ر .	04 (	7 4	0		122
	DEATH RATES OF CHIL		or births	188	180	611	1 4	0	528	
	TABLE 15 DEAT	Birth Interval		< 24	24 - 35	36 - 47	48 - 71	72+	Total	
	H 1	-				# : <b>#</b> •#				4

FIGURE 94



death rates in the second six months of life than those breastfed for six or more months.

#### 3.5.1. Findings.

Children breastfed fully for a duration of 0-3 months represented 84.9 percent of all the children born to women interviewed in this study. Those breastfed fully for 4-5 months were 0.99 percent, 1.9 percent were breastfed for 6-12 months, 8.9 percent were breastfed for 13-18 months and 2.2 for those breastfed for over 19 months.

TABLE 16 DISTRIBUTION OF CHILDREN BY DUR TION OF BREASTF 140 LIG.

DURATION OF BREASTFEEDING (IN MONTHS)	HUMBER OF CHILDREN	P. ACHT OF CUIDRI
0-3	2832	84.9
4 <b>-</b> 5	33	0:99
6-12	65	1.9
13 <b>–1</b> 8	297	8.9
19+	108	3.2
		na a se
	3335	99 <b>689</b>

DEATH RATES OF CHILDREN BY LEVEL OF EDUCATION OF THEIR MOTHERS TABLE 17

	ths Child deaths		And American	V (	<u></u>	127	104		
	Infant deaths per thousand		196	107	<u> </u>	198	188	e energe en	
-	Smoothed No. No. of Child deaths	The second secon	236	131		55	N		427
	Smoothed Mo. of Infant deaths		414	221	Ç.	) ´	O	The state of the s	730
	Smoothed No. of births		2109	1120	433		<b>2</b> 4	And the control of th	3710
	in Years	C		4 -	25	+6			Total

DEATH RATES OF INFANTS AND YOUNG CHILDREN BY LEVEL OF EDUCATION OF THEIR MOTHERS FIGURE 10

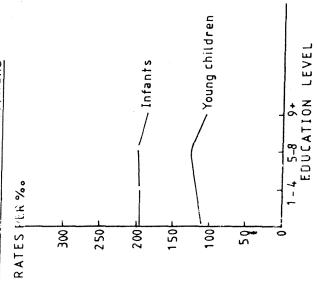
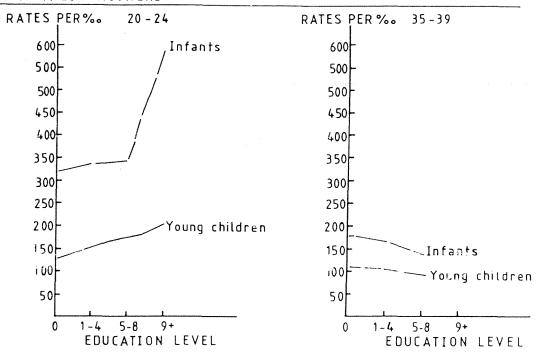
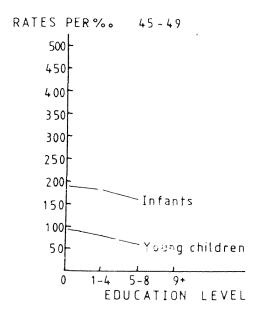


FIGURE 11
DEATH RATES OF INFANTS AND YOUNG CHILDREN BY AGE AND EDUCATION LEVEL OF THEIR MOTHERS





TAIN 18 DEATH RATES OF CHILDREN BY LEVEL OF EDUCATION CONTEN AGED 35-39.

The state of the s	The same of the sa	Extra terror and the second se			
Level of Education in Years	Smoothed Mo. of Deaths	Smoothed No. of Infant Deeths	Smoothed No. of Child Deaths	Infant deaths per thousand	Child Deaths per thousand
	THE REAL PROPERTY AND ADDRESS OF THE PROPERTY ADDRESS OF THE PROPERTY AND ADDRESS OF THE PROPERTY ADDR	The state of the s	The state of the s	Andrew Committee and Committee of the Co	
Ç	529	93	57	176	00
	252	42	56	167	103
را ش ش	78	-		7	5
+6	0	0	0	0	) 0
TOTAL	859	146	06		
	The state of the s				-

TABLE 19 IBATH RATE OF CHILDS I BY LEVEL OF SOUCHION OF WATER AGED 45-49

								T	
	Child Deaths per thousand	И.	t 1	87	23	`	•	AND THE	
	Smoothed No. Infant deaths of Child per thousand Deaths	193	, 0	000	156	C	>	・ ・ ・ ・ ・ ・ ・ ・ ・ ・ ・ ・ ・ ・ ・ ・ ・ ・ ・	
		43	<u>v</u>	2	2	C	)		)
Armenian isang mangangan sang mangangan mangang mangang mangang kang ber	Smoothed No. of Infant Deaths	 88	34	•	L	C		127	
- 19-19-19-19-19-19-19-19-19-19-19-19-19-1	Smoothed No. of deaths	455	183	i	32	0		670	
Andrew Control of the	Level of Education in Yea <b>rs</b>		i i	0	0	ń	The second secon	Totel	Ander a statement after de familier fremette fremette benefit und seine safer aftereiten und

TARES 20 DEATH RATES OF CHILDNES BY DISTANCE TO EVALTH FACILITIES

Distance to health faci-	Smoothed No.	Smoothed No. of infant deaths	Smoothed No. of Child death	Infant deaths per thousand	Child deaths per thousand
J. km	279	55	22	197	17
1-5 km	206	178	106	196	
4-6 km	1063	202	123	190	79
+	747	145	82	194	110
Total	2996	580	343		

TABLE 21 DEATH RATES OF CHILDREN FOR VILLAGES VITH AND THOSE WITHOUT REALTH FACILITIES

VINIACES VITH HEALTH FACILITIES - 0-3 Km.	CH HEALOH	FACILIT	ISS - O-	3 Km.		VILLAGES 4+ Km.	WITHOUT	HEALTH E	VIIIDAGES WITHOUT HEALTH FACILITIES -4+ Km.
Mame of Village	Number of Women	Number of Births	Mumber of Death	Death rates per thousand	Name of Village	Number of Women	Number of Births	Number of Deaths	Deaths rates per thousand
Mwendapole	115	644	208	323	Maza	94	555	185	333
Maili Moja	93	453	145	320	Visiga	80	450	147	327
Kongowe	120	757	250	330	Mandizi B	82	438	141	322
Mlandizi A	28	170	22	335					

#### CHAPTER 4

### 4.0 SUMMARY OF CONCLUSIONS AND RECOMMENDATIONS

#### 4.1 SUMMARY OF CONCLUSIONS

This study is based on the hypothesis that Maternal age, Parity, Birth Interval, Duration of Breastfeeding, Education and Availability of health facilities influence infant and child mortality.

From the investigation made, four hypothesis have been accepted, one rejected and another could not be investigated. Below is the summary of what was concluded in the analysis.

On maternal age, it was found out that age of the mother has an effect on infant and child deaths. Death rates are highest for children born to women of less than age 20 years of age. Older ages of the mother seem to have a slight effect on infant deaths but no effect on deaths of young children. It was also concluded that infant death rates are higher than those of young children. It was further concluded that infants die more during the first seven days of life followed by the period when they are age 1-4 and 5-8 months.

Parity also has an effect on infant and child deaths. Death rates are highest for children of high birth orders (from birth order 5), followed by first borns. Rates are lowest for second and third borns. Death rates therefore show a J-shaped relationship with parity. It was also observed that the effect of birth order is stronger or infants than on young children.

It was found out that birth interval has an effect on infant and child deaths. Higher death rates are for children born within a birth interval of less than 24 and birth interval 48-71 months. Lower death rates are observed for children born in birth intervals of 24-47 months. It was also observed that the impact of birth interval is higher on infants than on young children.

On Education Variable, it was concluded that as education rise to post primary school level, death rates show a decline. It was also noted that children born to women with education level 1-4 and 5-8 make very little difference in death rates from children born to women with no formal education. Moreover, it was observed that infants are more affected than young children.

As for the Availability of health facilities in the area of residence of the respondent in relation to infant and child deaths, the hypothesis was rejected. Further investigation was carried out to find out the causal factor for this finding. It was found out that 75 percent of the women use public transport when taking their children to health facilities for vaccination or treatment. It was also found out that 90 percent of these women take their children to health facilities every time they get sick. It was therefore concluded that as long as the transport system is effective, availability of health facilities ceases to be a factor that influences infant and child deaths. It was also concluded that poor services of the four available health facilities may have contributed to having no difference in death rates between villages with and those without health facilities.

# 4.2.0 Implications and Recommendations

The goal is to lower the high rate of infant and child deaths. To achieve this, measures have to be taken to control the factors that influence it. Such a task needs an organized body that can chart out plans and make a follow up of programmes aimed at reducing this high rate of deaths. The plans should have a base, a policy on population for the country. So far, there is lack of these two things in Tanzania. It is

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Percent of Momen	8.52	21.2	23.4		9*1	100	ar - communication commen
ueco <sub>li</sub> jo zequng	359	130	E71	g ngg A <del>ras (</del>	10	213	Species differential companies to deligate to
Level of Education in Years.		7-1	ଚ-୨		4.6	Isou	erlage (dir. negeneragen in egre-yi
TABLE 24: DISTRIE	ALION OF	EFOH .	ea pea	EO TE	DITAUUUS	į	
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Percent of Nomen 2.5	6 <b>.</b> Sf	1.15	21.2	5.71	7*₹1	p.01	100
Mumber of 15	62	178	130	401	98	79	219
9ê∈ ûxonba 12-18	50−24	62-97	\$E-0E	6E-SE	77-07	67-S7	Total
TABLE 23: DISTRIE	OLION OE	EUORE A	EDA VE I	erons	S		
Momen of	LL	L	L*E	8.8	9	100	gur grad
Munder of Women	117	18	ž	20	LE	215	**
marital StatimeM	Married					Total	

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APPENDIX 4

Table 25: Death rates of infants by their age and by age of their

mothers

Age of		No. of No. of	Deat	Deaths of infant	က်လျှ <b>ဒ</b>	age			Death 1	Death rates of	infants		per thousand births	sirths
SIOCH SIS	nothers Births Deaths	Deaths	1 - 7	8 - 14	15 - 29	- T		; i	1	3 ·	15 - 29		റ്റ	
	•		days	days	days	months	months	Months	days	days	days	กอกปกธ	nonths	months
15 -19	29	ထ	N	-	game.	C3	~	0	69	34	т Ф	<u>ග</u>	69	0
20-24	220	75	32	4		2	13	77	145	<u>5</u>	5	6	59	18
25-29	529	115	40	ග	വ	26	23	Ü	9	15	6	49	43	25
30-34	720	142	50	9	2	39	30	īυ	69	Ω	ന	54	. 42	21
35-35	748	126	41	2	*	26	43	13	ហ	ന		35	57	17
40-44	570	92	28	တ	0	27	33		49	14	0	47	3.1	19
45-49	537	102	27	4	æ	32	29	7	50	7	9	90	52	13
TOTAL	3353	099	220	ස ස	<u>.</u>	154	158	೮೪	513	. 66	53	323	355	113

Table 27: Deaths of Children born to women aged 15 - 19 by birth Order

Birth Order	No. of Births	Infant deaths	Child deaths	Infant deaths per Thousand	Child per Thousand
- The state of the	<b>1</b> 6	6	6	375	<b>37</b> 5
2	8	1	3	125	375
3	5	1	1	200	200
4					
Total	29	8	<b>1</b> 0		

Table 28: Death rates of children by birth Interval

	Birth Interval in months	Smoothed No. of births	Smoothed No. of Infant deaths	1	Infant deaths per Thousand	Chief deaths per Thousand
	<u>/</u> 24	1186	209	110	126	98
1	24 - 35	<b>11</b> 20	2 <b>1</b> 8	131	<b>1</b> 95	117
	36 - 47	757	<b>1</b> 54	96	200	<b>1</b> 27
	48 - 71	263	52	<b>3</b> 5	<b>1</b> 98	133
	72+	9	1	1	111	111
	TOTAL	3335	634	373		

Table 29: Death rates of children by level of Education of
Women aged 20-24

Level of Education in years	n No. of	Smoothed No. of infant deaths	Smoothed No. of child deaths	Infant deaths per Thousand	Child deaths per Thousand
0	63	20	8	317	127
1 - 4	72	24	11	333	153
5 - 8	53	18	9	340	170
9+	5	3	1	600	200
TOTAL	193	65	29		

Table 30: Death rates of children by distance to health facilities for women with no formal education

	+	<del></del>		<u> </u>	<b></b>
	Smoothed Number of births	Smoothed Number of infant deaths	Smoothed Number of child deaths	Infant deaths per Thousand	Child deaths per Thousand
<u> </u>	176	35	20	197	114
1-3 km	565	108	64	191	113
4-6 km	657	125	71	193	108
7' km	452	90	49	199	108
TOTAL	1850	358	204		

Table 31: Death rates of children by distance to health facilities for women with education level 1-4 years.

Distance of health facilities	Smoothed Number of births	Smoothed Number of infant deaths	Smoothed Number of child deaths	Infant deaths per Thou <b>s</b> and	Child deaths per Thousand
/ 1 km	65	<b>1</b> 2	8	<b>1</b> 85	123
1 - 3km	195	35	22	<b>1</b> 79	113
4 -6 km	2 <b>1</b> 7	37	26	<b>1</b> 70	120
7+ km	132	24	<b>1</b> 7	<b>1</b> 82	128
TOTAL	609	<b>1</b> 08	73		

Table 32: Death rates of children by distance to health facilities for women with education level 5 - 8 years

Distance to health facilities	Smoothed Number of births	Smoothed Number of infant deaths	Smoothed Number of child deaths	Infant deaths per Thousand	Child deaths per Thousand
<u> </u>	36	8	5	222	120
1-3 km	133	31	18	233	139
4-6 km	171	38	24	222	140
7+ km	152	33	20	217	132
TOTAL	492	110	67		-

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