CHILD REARING PRACTICES

IN THE

SUDAN

Ву

Umar Siddik

A Thesis

Submitted in Partial Fulfillment of the Requirements for the Degree of Master of Arts in the Education Department of the American University of Beirut

AMERICAN UNIVERSITY OF BEIRUT

Thesis Title:

Child Rearing Practices
In the
S U D A N

By

(Name of Student)

Approved:		
	Dr. Malik Badri	Madri
		Advisor
	Dr. Gertrade Hildreth	gartreeds Hildrett
	•	Member of Committee
	Dr. Robert L. Young	Robert J. Young Member of Committee
		Member of Committee

Date of Thesis Presentation: May, 1968

ABSTRACT

The purposes of this study are:

- A. To describe how three groups of Sudamese mothers namely, rural, arbum middle class, and urban lower class rear their children with respect to the following child rearing practices: feeding, wearing, toilet training, discipline, maternal warmth, and sex training.
- B. To find out the similarities and differench among those those groups.
- C. To give cross-cultural comparison and pertinent suggestions.

In general "udeness mothers prefer male children, but nonetheless they do not differentiate between boys and girls in maternal warmth and care. Having children is a central aim of marriage, and parents are happy about the event of pregnancy. Sudaness methers breast-feed their children, use physical punishment as a disciplinary technique, and demand prempt obedience from them.

Considering the more conspicuous differences among the three gro ps, the study has shown that compared to urban mothers, Sudanese rural mothers use breast-feeding exclusively, and they do so for a longer period. They start toilet training earlier, but they complete the training process later. Though rural mothers are more decisive in wearing, more rural children suck their thumbs then do urban middle class children.

More urban middle class mothers reward their children for good behavior. Also, compared to the urban lewer class and the rural children, more urban middle class children have feeding and toilst-training difficulties.

Sudanese mothers are similar to the Lebanese and Pakistanis in their happinese about the event of pregnancy, and warmth toward the child. The children differ from the Lebanese and resemble the Pakistanis in that more rural children practice thumb-sucking. Like the Lebanese, Sudanese methers demand prompt obedience from the child. They are similar to the Iraqi mothers in the use of physical punishment to discipline the child. Compared to the Lebanese, fewer Sudanese children have toilet-training difficulties. Similar to the Lebanese and Pakistania, Sudanese urban middle class mothers tend to prefer medera methods tend to prefer medera methods

TABLE OF CONTENTS

Abstract		
idst of table Chapters		
Part I	Background of the Study	
	L. Meaning of child rearing	
	2. Importance of child rearing, study	
	3. Purpose of the study L. Obtaining the information	
	5. The country and the localities studies	
Part II	The Sample of Subjects	
	L. Number of subjects	
	2. Education of perents	
	3. Age of parents 4. Mether's employment	
	5. Household gize	
	6. Sex retie: beys and girls	
Part II	I Child Bearing Practices	
	L. Methers' reactions before child is born	
	2. Meternal warmth 3. Feeding	
	4. Wearing	
	5. Toilet training	
	6. Discipline	
	7. Sex differences in rearing practices	
Part IV	Conclusion	
	1. Summary	
	2. Limitations and suggestions	
Appendix		
	lish translation of interviewing schedule	
IL Geo	graphical location of the Sudan	
Biblingraphy		

LIST OF TABLES

		Page
1	Education of parents	15
2.	Ages of parents	17
3.	Average age of parents	17
ļ,	Relatives living at home	19
5.	Time of I's birth	25
6-	Delay of I's coming	26
7•	Picking up a crying child	32
8.	what to do to a crying child	32
9•	Time epent with the child	34
10.	Follweing the mether around	35
11.	Duration of breast feeding	ţio.
12.	Average time of breast feeding	141
13.	Breast versus bottle feeding	41
14.	Feeding schedule	45
15.	Feeding problems	48
16.	Weaning	55
17-	Meaning problems	57
18.	Thumb- sucking	59
19.	Cleanliness training	65
20.	Toilet training	66
21.	Toilet training difficulties	68
22.	Use of rewards	. 76
23.	Disciplining the child	81.
21-	Methods of child respins	2 4).

1. MEANING OF CHILD REARING

child rearing is a broad subject which includes all the practices that influence the physical, physicalogical, and psychological development of the child. For example, feeding, weaming, swaddling, toilet training, discipline and sex training are a few of these practices. Other practices are expressions of love, annoyance, concern, and pride.

Sears mentioned that child rearing refers generally to all the interactions between parents and their children. These interactions include the parents expressions of attitudes, values, interests, and beliefs as well as their caretaking and training behavior. (113.po. 157)

Child rearing is a continuous process. Every moment of a child's life that he spends with his parents or other people has some effect on his development, and on both his present behavior and his potentialities for future action. (h3, p. 166)

2. SIGNIFICANCE OF CHILD REARING STUDY

Social sciences such as sociology and psychology, clinical studies, and studies of child development all advecate the importance of the study of child rearing. Philosophers and educatorsplike Flate, Locks, Rausseau, Devay, and many others have looked to children in order to discover the true nature of man, and to the study of child rearing practices as a guide to building a better society.

Many psychologists and psychosnalysts believe in the continuity of behavior from childhood to adulthood. Sigmund Freud taught that all our relationships with other people, including the relationship of the mental patient with his doctor, are patterned by our early relationships with the people of our environment in infancy and childhood. Even the attitudes adopted toward political authorities may be modeled after the attitudes which the child is encouraged to adopt towards parents. (22, pp. 25h, 136)

A number of conceptual systems have been offered to account for the continuity of behavior from childhood to adulthood and to relate the phenomena of the adult to experiences in early childhood. Two such systems are kardiner's system, and the system of Mead and Sullivan.

Lardiner termed his system "The paychodynamic analysis".

According to this system each child undergoes a certain set of experiences at the hands of significant adults. These experiences — child rearing practices — are the "primary institutions", which give rise to the "projective systems " of the child. The projective systems are the unconscious modes of thought or of interpreting the world which the child carries through life. These in turn give rise to the "secondary institutions" which are the adult belief systems particularly folklore and religion. (17, p. h)

theory. According to this theory each individual develops a concept of himself as a result of his early relationships. A concept with both verbal and
preverbal components, and one which becomes increasingly difficult to change
as more and more learning takes place. This concept gives continuity to a

given individual's behavior patterns, for it serves as a sort of reference point in his decisions. It is learned at the hands of dignificant other people, usually parents and other siblings. It leads to predictability within the family "since the self is a system of reflected apprecisals". Therefore, pe sonality develops within the matrix of the interpersonal experiences of an individual. He becomes in part what others expect of him and in part a compromise between their expectations and his own capacities. Since personality patterns are learned, and since the demands of different cultures are different - so are the parsonalities which emerge as responses to those demands. (17, p. 8)

Geoffsey Gorer, Margaret Mead, and others advocate that pleasurable early States, such as may be associated with wormth, hunger satistion, gentle handling, or rocking, emourage relatively positive feelings toward experience. These feelings endure, expecially if they are reinforced by consistent subsequent experiences. They gradually crystallise into attitudes of confidence, mastery, adequacy, and security. "The positive world and self view, born of gratification, may be summed up in the formula: this is apredictable, for friendly world that I can manage. "Persistent non-gratification, tension, or expos re to unpleasant experiences may encourage a megative world and self view, that can be summed up in the phrases this is a dangerous and unpredictable world that I cannot control." (22, p. 228)

According to Erikson, the bulk of the baby's early experiences are mediated through the mouth, gums and teeth, limbs, smacurethra, and genitals. As each of these somes become involved in patterining, the child acquires certain modes of behaviors (22, p. 250)

Sears supports the idea that some personality characteristics appear to be extensions of the effects of early experiences. He said that this is "specially true of these qualities that involve personal relationships such as love, dependency, jealousy, and competitions" (43, 4)

Generally, understanding child rearing practices has the following values:

- a. Shedding light on the general problems of child psychology. (38,19)
- b. Helping in understanding children's personalities.
- c. Providing parents with substance for comparison, and desper insight in how other people rear their children.
- d. Helping prospective parents in their efforts to bring future mappiness to their children.
- e. Giving basic information about family life, and throwing light on the society in which the child develops and gross up. (23)
- Leading to better understanding of the social life, the mores and customs of the people. (20)
- g. Furnishing a basis for understanding cultural differences and their meaning for human welfare and progress. (20)
- b. Usefulness to workers in the community agencies and development such as social workers, anthropologists, psychiatrists, teachers, psychologists, doctors, etc.
- i. Aiding the teacher, especially that one who is interested in the education of the whole child, to build satisfactory relationships with his pupils. These relationships are basic to good instruction, and can be improved when the teacher becomes acquainted with the home backgrounds of his pupils, and how they were reared and brought up-

- j. Assisting the educator to formulate an enlightened school program suitable for both the child who is being educated, and the community in which he is growing up.
- k. Satisfying the need of many people, students and others, who are interested in the child, and who wish to read about him. (2)

3. PURPOSE OF THE STUDY

This is a study of selected child rearing practices in the Sudan. Its purposes are:

- a. To describe how three groups of Sudanese mothers namely, rural lower class urban middle class, and urban lower class rear their children with respect to the following child rearing practices: feeding, wearing, toilst training, discipline, maternal wormth, and sex training.
- b. To find out the similarities and differences manny the three groups of mothers.

According to Sears (13,8) there are three kinds of questions that can be saked about child rearing:

- a. How do parents rear their shildren?
- b. What effects do different kinds of training have on children?
- c. What leads a mother to use one method rather than another?

This study is limited, for practical reasons, to the first question, which is the key to answering the other two questions.

According to the survey of literature - in the Jafet and Education Libraries in A.U.B., and in the Office of the Sudanese Cultural Attache in Beirut - there has been no study of child rearing, of of any related aspect of child development in the Sudan. Except for Bearis (2) application of the Dangs -a-man Test and the Draw-a-person East to study the intellectual and personality development of Sudaness children.

L OBTAIN ING THE INFORMATION

Information about child rearing precious was obtained by

Dr. M. Bedri (2) from Sudenous mothers with children five years of age.

The mothers fell into three proupes rural lower class, urban middle class, and urban lower class. As will be seen later, the parent's cosupation, education, and type of house were used to determine the class.

The information was collected by an interviewing schedule consisting of fiftyeight questions. The schedule was adapted from that of E.T. Prother, which he used to study child rearing paractices in letenon in 1961. Prother evalved his chedule mainly from the interviewing schedule prepared by the staff of the laboratory of Human Development in Harvard University. According to Prother, the Harvard interviewing Schedule explores most of the important espects of child rearing practices as judged by contemporary psychologists. (38,26) Prother's interviewing schedule is described in his book Child Rearing in the laboration (38), while the Harvard schedule is described in Secrie (et. al.) Patterns of Child Rearing. (13)

The fifty-eight questions of the interviewing schedule used by Badri cover a wide range of maternal behavior and child rearing practices. In order to delimit the study and to have a concrete reference, the que tions focus around the five-year--old child in the family. This will also allow for prose-cultural comparisons. The study can be compared

with other studies that focus on the five-year: -old child such as Sear's (h3), Maccoby's, Prothro's (38), Minturn's studies in aix different countries (33), and others. A span of five years is not too far away from early infancy for mathers to remember its kappenings, and is not too short for obtaining adequate information.

The objective of the interviewing schedule is to collect information about child rearing practices; to find out what parents actually do, what sources of evidence do influence them, how they actually feel about their children and how they react in practice to all the situations which naturally arise in the handling of a child. The interview is a good way to obtain sufficient data on a broad subject such as child rearing practices, and it is specially suitable when the subjects are illiterate. (28,25)

There is good reason for examining the mother's behaviorResearch such as that of Barker and Wright points out that the mother is
the most common element in the child's early life, and that the interaction episodes between mother and child are at least three times as
common as are those between child and father or any other family memberMoreover, the mother plays a much larger role in making child rearing
decisions (8, 37)

"socioeconomic status evaluation" was filled out. This sheet called for information about the house, its location, shape, number of rooms, water and bathroom facilities, servants, furniture, and library. This information together with the information about the parents occupation was used to make a general classification of the class status of the family.

5. THE COUNTRY AND THE LOCALITIES STUDIES

The Sudan is a wast country in the heart of Africa, lying between north lattitudes 22° and 3°, and between east longitudes

22° and 38° . It has an area of about one million square miles, and a population estimated in 1963 to be 12,650,000. (5, p. 504)

The population is small in relation to the area; the population density is alightly more than looper agree mile. About one third of the area is used only by migratory pastoralists, and the area containing a settled population accounts for less than a half of the total area.

"Apart from the large applomeration of the three Towns (Khartoum, Kharoum North, Omdurman) and Port Sudan, the country is fairly described as rural and tribal although there are sizable market towns and administrative centres throughout." (5,506) Kortki said that while according to the 1955/56 census & of the population of the Sudan live in towns, only 4% or 5% live in towns which have full urban charabteristics. (29,35)

The extent of Aigratory modes of living is remarkables

About lift of the population is wholly nomadic. Tribal grouping is

diverse; more than 570 tribes were registered at the 1956 census. (5,507)

The social strata has few people in the upper class and these are mostly business men; the middle class includes the government officials, professionals, merchants, and skilled labourors; the lower class includes the peasants and low income labourors who are usually illiterate.

Nevertheless, the class distinctions in the Sudan are not sharp.

ECOHORIX

Suden's economy depends almost wholly upon agricultural and postoral products. Also of the population depend on the products of the land and water as 66% depend on agricultural cultivation for their livelihood, and 15% on animal weight. (29,32) The main agricultural products are cottom, gum arabie, millet, peanute, seesme, and dates. Cample, cattle, sheep, and goats are abundant.

For industries have been established, as industrial development is still in its infamoy.

RELIGION AND LANGUAGE

About three quarters of the population, who live between morth lattitudes 10° and 22°, are Muslims and Arabic-speaking. About one quarter of the population, who live between north lattitudes 3° and 10°, are mostly pages and partly obviotismised; they have many local dislocts.

Muslims in the Sadan are subject to Sharitah - religious law of Talam, - in questions of inheritance, marriage, diverce, family relationships and charitable trusts.

FAMILY AND MARRIAGE

In the Muslim north, the family is the basic unit of the social structure. It is patriarchal; the wife and other younger members are subordinate to the husband and father, or to another male member of the family. Any member is loyal to the family, and is ready to sacrifice in order to support his poor relatives. It is the duty of the family to

family who live separately or in other places remain linked to their families and come back on such occusions as religious feaste, marreage, and death.

Marriage is accepted by everyone as the natural state for male and female. The proportion of both males and females who are married is emong the highest in the world; according to the 1965 census, 88% of the females and 68% of the males were found to be or have been married. The discrepancy is due to polygomous marriages. (29,38)

Marriage is a happy event for the whole family. Often the perents choose the mates for their off springs. The family backgrounds of the bride and groom are more important than their own worth and compatibility of temperament. However, the educated new generations tend to free themselves from some of these questons.

There is great adherence to the moral idea of the virginity of girls, and successful marriage depends on the virginity of the bride.

A woman should be a virgin before marriage, and should behave ofter marriage as a chaste and reprocchless female.

In a house there is usually a wall or a fence that separates the men's quarters from the women's. There are few chances for the same to mim. Conducation does not exist except in universities and institutes of higher education.

Girls are expected to be modest, physically unaggressive, yielding and sympathetic to people. On the other hand, boys are expected to be the strong, capable, and dominating sex. Anywloosew conduct, that might be ignored in the case of a man, is always dondessed in the case of

a woner.

The male has commanding authority on almost all the family matters, and this requires the subordination of the wife to her husband. There is a division of labour along semmal lines; generally the man works to earn the bread, while the woman does the house work and caretaking of the children.

HEALTH

The Sudanese child is usually born at home and delivered by a trained midwife in the cities and town, and by an old woman in villages and nomandic camps. Recently, in the big towns mothers have impressingly gone into hospitals to have their babies delivered.

Ancholing the small territories of Brunei and Guen, the Sudan has the highest birth rate in the world. In 1955, 530,000 belies were born which gives a brith rate of 52 per 1000 population.

(29,43) The infant mortality is also high, but such lower than in many countries. In 1955, 94 belies aged less than one year were reported as having died per 1000 belies born in the same period. (29, 45)

In the Muslim north, a traditional belief still widely held is the "eval eye", a power which is supposed to come to certain people whether or not they are aware of it. When such a person sees someone, specially a child, whom they admire or envy, a look from their eye, without mentioning the name of God, causes the child to become ill or dis-

ELUCATION

In the Muslim north, boys have long been instructed in religious subjects according to traditional methods. In 1898 modern primary education began in the Sudan, and secondary education commenced in 1913. Post secondary schools in arts and science, agriculture, veterinary science, engineering and law were established between 1938 and 1941. In 1951 these schools became the University College of Khartoum, which in 1956 became the University of Khartoum. (5,512)

Illiteracy is high; according to the 19:6 census, 12% of the adult population claim to have been to school, and 18% of the children of school going ages claim to be attending school or having been to school. (29, 28)

THE LOCALITIES STUDIED

The cample of subjects in the study was drawn from the Maslim Arabic - speaking morth; specifically from the capital of the country and its suburbs, and from the Genira, a fortile area Bying between the Blue and While Miles south of Ehertous.

The capital is an aggregate of three towns: Kharoum,

Khartoum North, and Omdurman. They are joined by bridges over the Nile,

Elme Rile, and While Nile.

Chartous is the political and conserval capital of the country. It is a cosmopolitan city with a population of 82-673 (1956 census). Thertous North is an industrial town with a population about 60,000. Ondurmen is a native town with a population of 125,300 (1956 census).=It is the centre of Sudanese cultural, political, and religious life. To Makki Abbas, quoted in Faburai (12,4), "Ondurmen is the most interesting town in the Sudan. The population is almost a hundred per cent Sudanese, and a visitor from any part of the Northern Sudan can find relatives to

accommodate him" It is famous for its bassars of native handlerefts of gold, silver, ivory, and leather-

The Gesira is a fertile area where cotton is groun. Cotton is the backbone of the Sudan's economy. The Gesira is one of the most densely populated areas in the Sudan with a population density of about 200 per square mile)1956 census). Almost all the inhabitants are settled, and there are big towns, and marketing and adm natrative centres.

The climate in the Sudan is generally very hot. High temperatures, which usually precede the rains, occur in July in the extreme nowth, and in May - June in Khartoum and the Gesira. In the Capital and Gesira areas, most of the rain occurs in the three summer months of July, August and September.

Geography influences child rearing practices. The geographic conditions, for example, determine the type of food and hence the feeding habits of the people.

SUMMARY

Child rearing includes all the practices that influence the physical, physiological, and psychological development of the child-

A number of conceptual systems, such as Kardiner's system and the system of Mead and Sullivan, have been offered to account for the continuity of behavior from childhood to adulthood and to relate the phenomena of the adult to experiences in early childhood.

Besides shedding light on the general problems of child psychology and the society in which the child develops and grows, understanding child rearing practices has many values.

This study aims to describe how Sudanese mothers selected from rural lower class, and urban middle and lower classesrear their children with respect to certain child rearing practices,
and to find out the similarities and differences among the three
classes. This will be done by analysing the information about child
rearing practices gathered by Badri (2) through an interviewing
schedule.

The Sudan is a vast country in the heart of Africa, with a predominantly Muslim and Arabic - speaking population.

PART II

THE SAMPLE AND SUBJECTS

Number of Sabjects

The sample used in this study included 151 Sudanese mothers with children five years of age. Mothers of children who were twins, who had noticeable physical or mental defects, who had not been born and reared in the Sudan, who came from broken homes (through death or divorce), and who came from polygemous marriages were excluded.

Out of the 151 methers, 72 were urban middle class, 38 urban lower class, and hi rural lower class.

EDUCATION OF PARENTS

At the end of the interview, each mother was asked about the education she and her hasband received. The information obtained is presented in Table I

Table L	EDUC	ATION (OF PAREN	TS	
Years of Schooling	0	1-4	5-8	9-12	13-16
Urban middle class Fathers	5	15	16	2h	12
Methers	25	33	14	0	0
Urban lower class Fathers	29	9	0	0	0
Mothers	34.	4	0	0	0
Reral lower class Fathers	35	5	1	0	0
Mothers	38	3	0	0	9

The information reveals a clear class difference in the educational status of the parents. 82 per cent of the urban and rural lower class are illiterate, and except for one father, none of them had more than four years of fermal education. Only 5 urban middle class fathers - about 7 per cent were illiterate against 25 illiterate mothers - about 3h per cent. Urban middle class fathers had an average of 9 years of formal education, and the mothers had an average of 3 years.

There is also a marked difference between the sexes in education. In general, there are more illiterate mothers than fathers regardless of social class, and in both urban and rural lower class only 7 mothers - about 8 per cent - went to school for a period of one to four years.

AGE OF PARENTS

Table 2 summarises the ages of parents as reported by the mothers. In a few cases the ages given were approximations.

Three mothers in the lower class could not give an approximation of either their ages or their husbands ages.

Table II NUMBER OF FATHERS AND MOTHERS

IN EACH DECADE

Years		Below	20-2	30-29	PO-PO	<u>50-50</u>	60-69
Urben Middle class	Fathers	0	3	2 k	27	15	3
	Mothers	4	21	42	5	0	0
Urban lower class	Fathers	0	11	18	4	0	0
	Mothers	1	18	14	1	0	0
Mural lower class	Fathers	0	6	9	11	2	0
	Mothers	3	9	7	0	3	٥

Table III AVERAGE AGE OF PARENTS

I

YEARS

	Pathers	Mothers
The whole sample	10.0	31-3
Urban middle class	42.0	31-7
Urban lower slags	39-3	31-2
Bural lower class	38 - k	31.0

According to these results, there is an age difference between the fathers and mothers. The mothers are generally younger than the fathers by 8-7 years. The difference is 10-3 years for the imbah middle class, 8-1 years for the urban lower class, and 7-h years.

for the rural lower class.

The big difference between the ages of urban middle class elses fathers and mothers may be due to the fact that middle class men makery after spending some years in schools, and after becoming well established economically. So they marry late, and tend to choose girls at a comparatively younger age. On the contrary lower class makes marry earlier, since they begin to earn their living at a quite early age.

MOTHERS : EMPLOYMENT

It was revealed that mothers do not work outside their homes. 9 middle class mothers—about one eighth—were workings 6 elementary and intermediate school teachers, 2 dress-makers and one sales girls in a shop. 5 urban lower class mothers worked as house servents and 2 made native caps. Of the rural lower class mothers, 4 made native caps, and 12 helped their husbands on the farm.

HOUSEHORD SIZE

The average number of persons per family is 7.1 for the whole sample, 8.7 for the urban middle class, 6.8 for the urban lower class, and 7.6 for the rural lower class. The average number of children per family is 5.5 for the whole sample, 6.5 for the urban middle class, 4.7 for the urban lower class, and 4.5 for the rural lower class.

The larger number of children in the urban middle class is due probably to better health facilities for infants and not to the number of births.

51 per sent of all the families have relatives living with them. The details of this percentage are: 56 per cent of the urban middle class families, 32 per cent of the urban lower class, and 51 per cent of the rural lower class.

Generally, the families tend to have with them the parents' mothers and fathers. Three families had the wife and children of the fathers' brother living with them. Table 4, gives the information about the relatives living with the families of the sample.

Table IV RELATIVES LIVING AT HOME

Urban middle class	-	_	6 PM	-	-	-			_		_	_	_	
Urban lower class	26	2	3	0	1	٥	1	0	1	0	2	0	1	
Rural lower class	19	Ŀ	6	a	2	1	2	1	α	2	1	۵	٥	

NO - No relatives

Mf = Mother's mother

TM = Fathers' mother

MF = Mother's Father

FF - Fahher's Father

MB - Mother's Brother

FB = Father's brother

MS = Motherée sister

FS = Father's sister

FC = Father's cousin

FN = Father's miece

MH = Mother's niece

FBW = Father's brother's wife

SEX RATIO : Boys and Girls

The sample of five - year - old children included 78 begs and 73 girls; statistically there is no difference between the two numbers at the .Ol level of significance. Considering the total number of children in the families, there were \$000 boys and \$27 girls, giving no significant statistical difference. In details, the urban middle class families had 235 boys and 233 girls, the urban lower class had 89 boys and 92 girls. The rural lower class had 82 boys and 102 girls.

Although there is no statistical difference between the number of boys and that of girls, the number of girls is slightly larger than the number of boys. The 1955/56 census revealed that there were more men in the Sudan than women, but predicted that the scarcity of women would change to abundance. (29,20)

SUMMARY

The sample used in the study included 151 mothers of five-year-old children. The total number of children in families is 833: 406 boys and 427 girls. The sample of five-year-old children included 78 boys and 73 girls.

There is a clear class difference in the educational status of the parents. 82 per cent of the urban and rural lower class are illiterate against 7 per cent of the middle class. In general, there are more illiterate mothers than fathers regardless of social class.

There is an age difference between the fathers and mothers in all classes. The mothers are generally younger than the fathers by about 6.7 years.

The mothers, in general, do not work outside their homes. The average number of persons per family is 7.1, and the families usually have relatives living with them, specially the parents' mothers and fathers.

Part III

CHILD REARING PRACTICES

1. MOTHER'S REACTIONS BEFORE CHILD IS BORN

One may wonder when to begin describing the rearing of a child. The obvious time would appear to be at the moment of birth or the instant at which the mother :irst sees her beby. But a great deal has already gone on before this; the mother has become pregnant and continued thus for about nine months, the parents have made preparations and developed expectations, and they have begun to live a different life of anticipation.

Honigmann and others believe that the role of the future child may be feffected throughout the mother's pregnancy. (22,239) The customs, avoidances, and other habits practiced by the pregnant woman will feffect ambivalent, fearful, or hygienic attitudes towards reproduction that may be continued in the later handling of the baby.

Mead, quoted in Honigman (22,239), says, "It is probable that in different societies, by the attribution of more or less automony of movement to the baby, by enjoining upon the nother active or placed behavior, the process of learning may begin within the womb"

So it is sound to begin the study of child rearing from the time at which the mother first realized she was pregnant and was to become a mother. Questions 19,50 and 51 in the interviewing

schedule asked about the feeling of the mother before her child

The first of these questions runs as follows: How do you feel about being a mother?

- What was your feeling when you discovered that you were pregnant with (x)?
 Yery happy; happy; slightly happy; sometimes happy and sometimes unhappy. unhappy most of the time; unhappy.
- Now did your husband feel when he knew that you were pregnant with (x)?

Very happy; happy, alightly happy; sometimes happy and sometimes unhappy; unhappy most of the time; unhappy.

In answer to this question, 121 mothers, about 30 per cent, said that they were either very happy or happy when they discovered that they were pregnant. Home reported that they were unhappy.

12 urban middle class mothers - 16 per cent, it urtan lower class mothers - 10 per cent, and 3 mothers of the rural lower class - 7 percent-reported that they were sometimes happy and sometimes unhappy. It mothers of the urban middle class answered that they were unhappy most of the time. 2 middle class mothers said they were happy, but they were a moved when thinking of the future pains of delivery.

Concerning the other part of the question, all mothers reported that their husbands were very happy or happy when they knew they were going to be fathers. So in general, fathers and nothers were happy about the event of pregnancy regardless of social class.

In the Sudan, having children is a central purpose of marriage. Failure to h we children is a matter of grave concern not only to the husband and wife, but also to relatives and freiends. Because it is a common belief, especially among the lay people, that the woman is usually the one to blame for not having children, this problem is considered one of the main reasons for divorce and polygamy. It is a great insult for a woman to be referred to as abarren woman. In cases of a man having more than one wife and only one of them having children, the husband usually confers special privileges on the latter.

This attitude toward having children may explain the reported general tendency of feeling happy about the event of pregnancy.

The second question in the series runs as follows: considering your financial situtation and the ages of the children, do you feel that the birth of (I) was at a suitable time? Yes; I don't know; no, it was not at a suitable time. Table 5 represents the answers in percentage form.

Table V Mothers' Reactions to the Questions

Was (X)'m birth at a suitable time: The figures are percentages

	Yos, it was	No, it wasn't	I don't know
Urban Middle class	73	21	6
Urban lower class	75	13	12
inral lower class	78	9	IJ

These answers reveal that as far as financial situations are concerned, about three quarters of the mothers felt that the birth of their children was at suitable times, 3 urban middle class mothers, 2 urban lower class mothers, and 7 of the rural lower class added to the above response "It is God's will", and two of the middle class mothers added "this is something eternally determined". Although the idea of "God's will" was mentioned by only a few mothers, the writer assumes thatit was the belief of most — if not all—mothers.

In the third question, each mother was asked: looking back on the matter, do you thing it would have been better for you, if

(x) had been delayed a little? Yes; I don't know; no, Table 6
summarases the ensures in percent form.

Table VI Mothers: Answers to the Questions:
Fould it have been better if (x) had been delayed?
The figures are percentages

•	Yes, it would	No, it wouldn't	I don't know
Urban middle class	524	23	23
Urban Lower Class	51	n	38
Aural lower class	13	70	17

About half of the urban middle and lower classes mothers felt it would have been better if their pregnancies were delayed; only 13 per cent of the rural mothers thought so. This difference is statistically significant at the .Ol level. 70 per cent of the rural mothers said that the delay would not have been better in contrast to 23 per cent of the urban middle class mothers and 11 per cent of the urban lower class.

aiddle and lower classes concerning the delay of pregnancy. But a significant difference exists between the urban mothers and the rural ones. The urban mothers generally thought that the delay of pregnancy might have been better for them while the rural mothers thought the contrary. This difference may be due to the difference between the comparatively cheap living in the village and the costly living in the city. Urban mothers might have thought that the delay of pregnancy would have given the family a chance

to establish themselves better encommunically, and would have given them more free time for leigure.

Frothro, in his study of child rearing in Letanon, found no significant difference - in attitudes toward pregnancey - among the three groups he studied. In general, Lebanese fathers and mothers were happy about the event of pregnancy regardless of class, religion or place of residence. Host of the mothers felß that the pregnancy was suitable in light of finances and timing of pregnancies. (38,53 and 57)

On the basis of these findings, it can be said that there are no differences between Sudanese and Lebanese mothers in attitudes toward programmy and its time. The Lebanese attitude toward childless wives is also similar to that of the Sudanese. According to Prothro, in Lebanes, a wife without children is pitied by her friends and, among Moslems in particular, threatened by divorce. (38,54)

Also, according to Ehan (28,34), Pakistani mothers were generally happy about the event of pregnancy. On the other hand Sears found in the comparable American study that although a majority of mathers reported that they had been happy about the event of pregnancy, 31 per cent had said that they had some reservations and mixed feelings, or that they were displeased. (43,32)

PRECNANCY AND DELIVERY

Pregnancy is apparently not an all-together pleasurable condition for a Sudanese woman; it is usally accompanied by nausea, cravings and aversions. A pregnant woman may long for foods which she has not previously liked. Such whims of pregnant women are actually part of a set of beliefs, superstitions and folklore legands. Specially among the uneducated, what the pregnant woman likes or dislikes, or anything to which she attaches strong feelings may have some effect on the fetus. Even the fathers are involved in this. It is not uncommon to hear of a man who killed a deer, and his child was born dead or with a distinct dear around its meek; or one may hear of a man who cut the claw of a bird and his child was born lacking to finger.

In Sudan, medical care for pregnant women is not adequate.

Although more and more urban women so to seek medical care in hospitals and special centres, such arrangements are not found in the rural areas.

Delivery usually takes place at home at the hards of a trained midwide in cities and towns, and with an old woman attending in the rural areas. Recently in the city, mothers increasingly have gone into hospitals to have their babies delivered.

Here is a typical picture of the event of delivery. The pregnant women feels pains of labour, her mother, other relatives

of her husband and herself, and the neighbours are called.

Someone goes to call the midwife. The pregnant woman is encouraged to walk about the house to ease the delivery. Only women who have children are allowed to stay in the room with the delivering woman. For obvious reasons, men and children are kept away. Persuse of the common belief that their presence may unduly slow down the process of delivery, childless wises and unmarried woman are also kepthout. After delivery, the mother, husband and relatives are congratulated, and God is thanked that the mother was delivered safely. The birth of a boy is declared by certain shrieks uttered by the women.

Delivery is a painful event particularly for the Sudanese mother. The custom known in the Su am as 'Pharaonic female circumcision' adds to the agony of child birth, because it necessitates the use of more elaborate surgical means. Further more women have no source of information or enlighterment about pregnancy and delivery. Wives have no opportunity of witnessing the birth of a child before they theselves deliver. What they come to know about this event, by way of casual conversation, is not alway reassuring. The phrase "delivery is death" is well known to men and women alike

Hevertheless, delivery of a child is a happy occurence for the family. Feasts and ceremonies are hold. Selatives,
neighbours and friends come to congratulate the family and to
share in the celebration of the happy event.

SUMMARY

they were going to become parents. Taking the financial situation into consideration, about three quarters of the mothers felt that the birth of their children occured at suitable times. The urban mothers thought that delay of pregnancy might have been better for them, while the rural mothers thought the contrary. This difference between the urban and rural mothers is statistically significant. Urban mothers a ght have thought that delay of pregnancy would have given them a chance to establish themselves better econom cally.

Although pregnancy and delivery are stressful conditions for a Sudanest mother, the event of having a baby is a happy so-curence for the family, relatives, neighbours and friends.

According to Prothro's study of child rearing in Lebenon (38) and Khan's study of child rearing in Pakistan(28), it cambe said that Sudaness mothers are similar to Leben25t and Pakistani mothers in being happy about the even of pregnancy.

2. MATERNAL WARMTH

So far we have discussed the attitude of the mothers toward their pregnancies and potential children. Now we will consider their feelings about the child as a member of the family, specifically, the warmth of the mother toward the child-

asked. The first of these questions is: Going back to the time when (x) was an infant, who took cale of him most of the time?

By per cent of the urban middle class mothers, 90 percent of the urban lower class and 91 per cent of the rural mothers answered that they themselves took care of their children most of the time. Hany of them responded to the question by "of course, I did". Other people who were mentioned to have taken care of the child most of the time wars: the grandmother of the child, his sister, and the parent's nices. One urban middle class mother reported that the nurse took care of the child most of the time. So we can say that the mothers themselves took care of their children most of the time regardless of social class.

The second question asked first about ideal behavior, and second about what the mether had actually done. The question ran like this; some mothers believe the child should be picked up when he cries, while other mother let the child cry lest it gets used to being picked up. a) what is your opinion about this?

b) What did you octually do when (x) used to cry?

Table 7 and 8 represent the responses of the mothers.

Table # Mothers* Opinions about whether or not to pick up a crying Child.

The figures are percentages.

	Always pick up	Pick up when valid reasons sogs Illness	let him
Urban Middle Class	48	33	19
Urban lower class	%	18	26
Rural lower class	73	16	11

Table 8 Mothers* Answers to the Question: What did you do when (x) used to Cry? The figures are percentages.

	Always pick	pick up valid	feed him	let him cry
Urban middle class	82	03	714	01
Urban lower class	95	9	05	9
Rural lower class	8y	o	n	0

There is not great difference between both urban classes concerning their opinion about the ideal behavior toward a crying child. While about half of each of the urban classes thought that a crying child should be picked up, about three quarters of the

rural mothers thought so. 19 per cent, 26 per cent, and 11 per cent of the urban middle class, the urban lower class, and the rural lower class mothers, respectively, thought the child should be left to cry lest be gets used to being picked up.

But the answers to the other part of the question revealed that \$2 per cent of the urban middle class mothers, 95 per cent of the urban lower class, and \$9 per cent of the village mothers actually picked up the child when he cried.

It per cent of the urban middle class mothers, 5 per cent of the urban lower class mothers, and 11 per cent of the village mothers fee the child when he cried. With the exception of one middle class mother, now of the mothers left the child to crye So, there is no difference among the classes in the actual behavior of the mothers towards a crying child, since nearly all of them either picked up or feel the child when he cried.

The third question asked: Did you have time to spend with (x) other than the time spent in taking care of him such as feeding him or bathing him? Table 9 summarises the answers of the mothers.

Table 9 Time Spent with the child

The figures are percentages

	Always had time	Sometimes had	rerely hed	Hed no
Urben middle class	53	ùl	6	0
Urban lower class	54	28	7	11
sural lower class	31	61	d	0

These results show no significant difference between the two uries classes. However, they show a difference between the urban mothers as a whole and the village mothers. About half of the urban mothers always had time to spend with the child other than the time of caretaking, while only about a third of the village mothers had such time. None of the urban middle class and the rural lower class mothers reported that they had no time at all to spend withinthe child in contrast to four urban lower class mothers. The mothers spent the time singing to the child, cuddling, or fendling him.

in the fourth question in this series, each mother was asked: now do you feel when (x) follows you around c ntinucusly? The responses are shown in table 10.

Table 10 Hothers' feelings about their children always following them around .

The figures are percentages

	Always servous	Sometimes averyous	Always
Urban middle class	37	1.3	20
Urban lower class	117	35	18
Turel lower class	39	hli	17

There is no significant difference enough the classes about how the mothers felt when their children followed them around continuously. About his per cent didn't like being followed around continuously by the child.

Anyhou, we can gonclude that most of the mothers took care of their children by themselves most of the time, picked up the child when he cried, and had same time to spend, with the child other than the caretaking time. About four tenths of the mothers did not like to be followed around continuously by the child.

It has already been mentioned that the Sudamese are fond of children, and that having children is a central aim of marriage. This might be the reason for the lack of significant differences among the classes in the matters of maternal warmth and infant indulgence.

Sudanese nothers are similar to Lebanese mothers in maternal wanth. Protheo stated that the new born in Lebanon is generally received with warmth and treated with indulgence.

(38,154)

Lebenses middle class mothers are significantly warmer than lower class mothers. (38,69) "Ithough Sudanese urban middle class mothers are warmer than the rural lower class mothers, the difference is statistically, not significant. Sudanese mothers are probably more similar to Fakistani mothers who, according to Khan (23,12), showed no class difference in respect to maternal warmth.

infant indulgence, maternal warath, and infant neglect have great impact on the future personality of the child.

Honigment ended his study on the Kaska Indian children with some important conclusions. He reported that the early maternal warath received by the Kaska infant contrasts with his later experiences, at three years, old, when the maternal warath is withdrawn. In defense he tries to suppress all feeling hoping thus to obliterate the engisty produced. The defense operates in a large variety of situations, but it incapacitates the individual in relations with a spouse and interfers with sexual and other marital setimations. (22,105)

The studies carried out by Margret Mead, Mibble, Spits,

the welfare of the child. They reported that absence of mothering for example, rocking, custdling, fundling, cradling, stroking, etc., is associated with constipation, rigidity and screening. When the lack of meternal warmth continues, the infant drifts into a stuper.—Such cases of infant trauma are not uncommon in orphanages with inadequate staff or wherever mother and child are separated for relatively long periods. In such cases the babies cried frequently, lost weight, suffered from insomnia, and remained retarded in development. These signs continued for the first three months of separation them a sort of "frozen rigidity" appeared, and interpersonal contact with the children became difficult, (22,23)

Spits, refers to the wasting away of the body as marasmous, and to the scute lack of responsiveness to environmental stimulation as anaclitic depression.

In order to study the importance of mothering, M.F. Harlow conducted a number of experiments on infant monkeys. He gave them "mother machines" to love instead of the real mothers. These in ants gave the usual infant-to-mother reactions even though the mothers were synthetic. In times of stress, the besy monkeys ran and clung to their substitute mothers just as monkeys so to their real mothers. The post acceptable mother substitute, for the

monkeys, was a block of wood surrounded by sponge rubber, sheathed in terry cloth, and had an electric bulb inside to provide werath. This was more effective than a wire-mesh substitute which in spike of the fact that it provided milk and warmth, it lacked softness and cuddliness. (34,282) One may conclude from this that infant monkeys, and perhaps human infants as well, need soft cuddly contacts.

Many psychologists and pediatricians recognized the high rate of infant mortality even in the best run orphan houses; this is presembly, at least partly, because the busy staff cannot belp each infant satisfy "survival linked" demands for mothering. (22,236)

SUMMARY

studied concerning maternal warmth and infant indulgence as measured by the four questions posed. Generally, most of the mothers, regardless of social slass, took care of thier children most of the time themselves, picked up or fed the child when the cried, and had some time to spend with him other than the time spent in taking care of him. However, about two fifths of the mothers did not like being followed around continuously by the child, two fifths liked it sometimes, and one fifth liked it all of the time-

These findings are similar, to some extent, to Prothro's (38) and Khan's (28) findings on Lebanese and Pakistani mothers respectively.

The studies of Meads Ribbles Spitss Holfs Harlows Honigmann and others revealed the effect of maternal warmth on the future personality and welfare of the childs

FEEDING

We concluded in the last section that Sudanese methers are generally warm toward their children. The degree of maternal warmth is usually manifested in infant feeding. Dur and Smitter stated that the mether's love and warmth and depicted by the way she feeds, means and teilet trains her child. (28,46)

In order to study infant feeding in the Sudam, each subject was asked too questions. The first question is: Will you please tell me something about your way of feeding (X) when he was an infant?

a) Did you suckle him? For how long? If not, how did you decide to use the feeding bettle? For how long did (I) use it?

The enguers to this question are summarised in tables Il, 12 and 13.

Table 1	LL DURATI	DN OP	BREA	ST P	ED ING	IN	MONTHS		
1	<u>fonthe</u>	_5	<u>6-8</u>	_9	12	<u>15</u>	18	<u>24</u>	<u>36</u>
Urben m	siddle class methers	. 0	3	独	7	5	11	5	0
Urban 1	lowr class mothers	0	7	11	5	4	2	8	0
Bural 1	lower class mothers	۵	3	11	10	2	5	6	1,

Table 12 AVERAGE TIME OF BREAST FEEDING
IN MONTHS

The whole sample	14.0
Urban Middle Chase	13-k
Urban Lower class	13.3
Reral lower class	15.5

Table 13 BREAST FEEDING VERSUS BOTTLE FEEDING

THE FIGURES ARE PERCENTAGES

	Bottle only	Breast & Bottle	Breast only
Urban Middle Class	9	37	Sh
Urben Lower Class	2	12	86
Reral Louer Class	•	0	100

The information obtained reveals that Sudaness mothers generally breast-fed their children for a maximum of 36 month and a minimum of 5 months, and on the average for about 1½ months. Commercing this matter, there is no significant difference between the urban middle and lower classes, but a significant difference, at the .05 level, exists between the rural methers and the urban mothers as a whole. Mural methers tend to breast-feed their chirldren for a longer period-

A significant urban - rural difference, at the .01 level, appears in the method of feeding the child. While 9 per cent urban middle class mothers, and 2 per cent urban lower class methers used bettle feeding emplusively, none of the rural mothers used this method. As for the use of breast-feeding supplemented by bottle-feeding, there seems to be both class and urban-rural differences, statistically significant at the .01 level. while 37 per cent of the urban middle class mothers and 12 per cent of the urban lower class methers used breast feeding and bettle-feeding simultaneously, none of the rural mothers applied this technique.

Some of the urban middle class mothers, who used bottle-feeding, mentioned that they did so because of early pregnancy, lack of milk, poor heafth, and medical advice. Lack of milk caused one rural mother to have her sister breast-feed her child for her, another mot er mentioned that her neighbour did so for her baby.

The fact that urban middle class mothers breast-fed their children for a comparatively shorter period, may be due to contact with pediatricians, and to the influence of westernization that made them view prologed breast-feeding as an unwelcome burden.

Besides the fact that they did not adopt modern practices of infant feeding, rural mothers may find financial and technical difficulties in securing the materials needed to prepare hygienic milk for drifficial feeding.

According to Memora (36,156) ence bottle feeding becomes feesible at all in a society, one might well expect that any trend towards this method would start at the upper and of the social class scale and spread gradually downwards, so that at any given time, bettle feeding would be most popular among those women who enjoy the highest material standard of living.

Purely en economic grounds bettle feeding is something of a luxury, since its cost includes not only the price of the bottle and milk but also the provision of nipples and their replacement.

The cost can, of course, be considerably higher if one includes such refinements as the thermometrys, funnels, and disinfectants. Apart from the question of expense, middle class mothers are more likely to have refrigerators and extra saucepans which make the preparation of the food less difficult.

Also, being more conscious of a desire fav greater freedom and emancipation from the purely demostic rele, middle class women would tend to resert to artificial feeding almost as a matter of principle." (36,165)

The findings on Sudanese methers' breast feeding are similar to the findings on the Lebanese (38,41), Iraqi (1,39), and Pakistani (28,47) methers, as all of these generally breat-fee their children. On the other hand Sudanese methers are different

from American methers in this respect, since, according to Sears (43,71) only 40 per cent of the American methers breast-fed their children.

Sudanese mothers are one similar to Pakistami methers in that, while a few urban mothers used bottle feeding, none of the rural mothers used it (28,47)

Concerning the Auration of breast feeding, Sudanese methers are similar to Iraqi methers who breast-fed their children for about 16 months (1,39). But they are different from the Americans, who breast-fed for less than 3 menths (1,371), and the labonese who breast-fed for just under a year (30,72). The tendency of the Sudanese middle class mothers to prefer a comparatively shorter breast-feeding period is similar to that of the Iraqi middle class methers 1,39-40).

The second question, for obtaining information about infant feeding in the Sudan, ran like this: when (X) was one year old, did you feed him on a schedule or when he felt hunger#?

Table 14 represents assummary of the ensuers.

Table 14

FEEDING SCHEDULE

The figures are percentages.

Degree of scheduling

	Nome	Pertial	Regular
Urben middle class	65	19	16
Urban lower class	92	L	la.
Rorel lower class	98	2	0

It can be said that, generally, the lower meden and rural class used no feeding schedule, in contrast to 35 per cent of the urban middle class methers who used either regular or partial scheduling. This difference is statistically significant at the 401 level. Abother point is that while h per cent of the urban lower class methers used regular schedules, none of the rural methers used them.

The fast that more urban middle class mothers used feeding schedules is, probably, due to the effect of westernization, and contact with pediatricians and mass media. The few urban lower class mothers, who used scheduling were, probably, affected by their contact with the middle class mothers.

Although a comparatively smaller number of Sudamese mothers used feeding schedules, they are smaller to the Lebanese (38,75) and Pakistani (28,49) methers in that the middle class methers tend to use scheduling more than the lower class regardless of place of residence. This trend is in the same direction in the case of the American methers. According to Sears, there is no significant difference between the American social classes with reposet to sched ling, but there is a slight tendency for the middle class methers to schedule feed ng more rigidly than the lower class mothers. (\$2,427)

Feeding schedules developed ofter the studies, on how a bedy's digestive system works, showed than an ample feeding would last a beby for about h hours. A widely used h-hour scendule sets the feeding time at 6a.m., 10a.m., 2p.m., 6p.m., 10p.m., and 2a.m. (45,55)

The main purposes of any feeding schedule is to do right by
the beby, and to enable the parents to care for him in a way that
will conserve their strength and spirits. This usually means getting
down to a reasonable number of feedings at predictable hours, and
emitting the night feeding as soon as the beby is ready.

Defore 1942 the trend was in the direction of strict regularity in feeding schedules, which worked wall with a majority of bebies. But in that year, Dr. Presten - with a group of medical dectors, psychologists and new mothers - carried out an experiment to find out that kind of schedule a baby would extablish if he were fed whenever he seemed hungry. A baby wakes rather frequently the first few days. Then in the second half of the first week when the assumanty glands begin to secrete sufficient milk, he wakes about 10 times a day. But by the age of 2 weeks he settles down to 6 or 7 feedings a day, at rather irregular intervals. By 10 weeks he arrives at approximately a 4 hour schedule. This experiment is well known by the name "The experiment in self-demand feeding." Since the accomplishment of this experiment, there has been a general relaxation in infant feeding schedules, which has had a wholesome effect on babies and parents. (45,53)

PARDING PROBLEMS

In order to examine the problem of feeding difficulties each mother was asked: during the last two years, did you have any difficulty in getting (I) to eat the types of food he needs?

Table 15 represents a summary of the mothers: answers.

Table 15

FEEDING PROBLEMS

The figures are percentages

	We difficulty	Slight difficulty	great difficulty
Urben middle Class	53	29	1.8
Urban Lower Class	61	28	n
Rural lower class	43	50	7

This reveals that about 85 per cent of the Sedenese mothers declared that this children manifested either slight or no feeding problems during childhood. Eighteen per cent of the urban middle class children had feeding problems against 7 per cent of the rural lower class children. This difference is significant at the .Ol level.

Sudanese children are similar to the lebenese (38,83), the Pakistani (28,52) and the Iraqi (1,5h) children in tending generally to manifest no feeding problems. On the ot er hand, they are different from the Americans, where a majority of the mothers reported feeding problems. (63,93)

Prothro suggested that the absence of feeding problems may be due to the mother's casual attitude toward the child's feeding, and their little cencern about the balance of diet, the amount of vitam as and minerals. (38,83)

SUMMARY

The mother's love and warmth toward her child is depicted by the way she feeds, weams and toiled trains him.

Sudanese nothers, generally, breast-fed their children for about lipmoths. There was a significant difference between the urban middle class mothers and the rural lower class mothers; the rural mothers tended to breast-feed their children for a comparatively longer period. While a few urban middle class mothers used exclusive bettle feeding, none of the rural mothers did so. Probably, the effect of westernisation and the better financial situation of the middle class mothers accounted for their use of artificial feeding.

In general, the urban and rural lower class used no feeding schedule, while about 35 per cent of the urban middle class mothers scheduled completely or partially the infants feeding.

There was a significant class difference between the urban middle class and the rural hower class children in respect to feeding problems; more urban middle class children had feeding problems.

Sudanese mothers are different from the American mothers, and similar to the lebanese and Pakistani mothers, who generally breast-fed their children. Concerning the duration of breast-feeding, Sudanese mother's are different from both the American and pakistani mothers, and similar to the lebanese and Fraqi mothers.

They are also similar to the lebanese and Pakistani mothers in that the middle class methers tend to use scheduling in child feeding more than the lower class mothers-

WEANING

THE PSYCHOLOGY OF FEEDING AND WEARING

Since the infant is dependent on his mother for Seeding, the estings situation may serve as the basis of much social learning. Infant feeding can be handled in several ways. The mother can feed her child on a rigid schedule every three or four hours without giving in when the infant cries. On the other hand, she can use a flexible feeding schedule, which means feeding a little earlier than the assigned time if the behy insists on crying. A third method is demand feeding, which means feeding the child whenever he cries or asks for food. (45,49-56) (1,5)

Many psychologists sennect certa n variables of early feeding like the use of the breast or the bottle, schedules or unschedules nursing - to particular attributes of personality. According to Watson and the behaviorits, schedule feeding is desirable to condition the child to have food at certain hours of the day, thus establishing good habits of regularity and punctuality. Froud contradicts this view by asserting that the child should be

breast - fed on demand. (18,107)

Frend divided human development into several stages, and called the first stage the oral stage. One may be fixed at the eral stage as a result of oral indulgence or frustmation. This may manifest itself later in an "oral character", characterized by ppecim on, dissetisfaction, suspiciousness, impatience, passivity as well as strong demands for sympathy and support. An oral character is believed to emphasise oral activities such as eating drinking and smokin. (18,108-109)

Dollard and Hiller interpreted the feeding and nursing situation in a direction similar to Freud's. According to them, when a child is fed without frustration he attaches feelings of relaxation and well being to the mother, who represents the world at large for him. Later, these feelings produce optimish and sociability in him. Dat if the c iid is frustrated in the feeding situation - by not feedin him when he is hungry or stuffing him with food when he is not hungry - he will be 1 w on sociability later one (1,7)

According to Sears (43,243) the nursing situation reveals to the child the emotional emphases of people to him as well as the culture as a whole. The general pattern of infant feeding bears a systematic relationship to the cultural configuration and the social set up. For example, the decline of breast feeding in in the United States is doe, in the first place, to the fact that births take place in hospitals where a doctor somethines recommends bottle feeding, especially the 2a.m. feeding may be by bettle in order to give the mothercomplete rest. In the second place, the American mothers culturally learned motivations toward feeding and nursing influence their attitude toward breast feeding. Some American methers fear that breast feeding may impair their figures, some are anxious about their especity to satisfy the baby's hunger through breast feeding, and for others, breast feeding interferes with their employment or other community affairs. (22,25h-25)

while the infant's dependence on his mother for feeding is highly efficient from a purely biological point of view, it posses a problem in socialisation, since sucking can not go in for ever. The social and emotional implications of weaning are many and have far reaching effects on both the child and his mether. For example, the shift from creeping to walking appears to have none of the emotional agonies of waning. (\$3,6\$)

Masten and the behaviorists favour abrupt and early meaning-According to Honigmann, early or abrupt removal from the breast may be associated with an image of the mother as a frustrating object. (22,248) To Frend, long mursing and gradual meaning ensure optimal eral experiences. He also believed that fixation at the "Oral stage" of development, and that may happen due to frastrution over meaning or not having enough marsing experiences, would produce later andered character*. (18,107-111)

Many psychologists and psychosnalists have views more or less similar to Frend's ideas concerning infant feeding and wearning. Orlansky, Newton and Sewell concluded that, to may psychosnelfists, generous suckling and later wearing are related to generosity, optimism, and cooperative pesceful behavior; whereas ungenerous suckling and early wearing coincide with arrogance, aggreesism, impatience, a tendency to coll ct and heard feed, compatitiveness, late of property and suspicion. (22,243)

Thusb - sucking is usually connected with infant feeding and weaming. According to Spack (15,207), a baby sucks his thumb, because he hasm't had enough sucking at the breast or bettle to satisfy his sucking need. Few babis begin thumb-sucking in the delivery recon. Generally, the sucking need is strengest in the first 3 or 1; menths, and from then on, it tapers off gradually. On the basis of Levy's experiments to investigate the problem of thumb-sucking, it can be said that a breast-fed baby is lase apt to be a thumb-sucker. With the average bettle-fed child, Thumb sucking is most likely to begin at about the time he begins to finish his bettle in 10 minutes instead of in 20. (15907/209-)

Prothre (38,79) has two hypotheses concerning thumb-sucking. The first hypothesis is that greater weaning disturbence or frustration would produce more thumb sucking. The second one is that sucking habits grow stronger with practice, so that a child weaned later would show more thumb-sucking.

WEATING IN THE SUDAN

wearing denotes reliquishing the habit of securing food by sucking and adopting a new mode of feeding. It involves five main points. The child must learn to do susy with sucking, to like to drink the same food he fermerly got by sucking, to accept skills required for eating the food such as the cheming, drinking from a glass or cup, and using the fingers and utensils, and finally he must learn to do without being held while he is eating. (13,69)

To study wearing and its problems in the Sudan, each mother was asked four questions. The first question was: when did you begin to wear (I)?

The average time for usaning is 14.0 months for the whole sample, 13.4 months for the urban middle class, 13.3 months for the urban lever class (table 22).

There is a significant difference between the rural mothers and the urban mothers as a whole; the urban mothers tend to

mean their children after a shorter period of breast feeding.

However, about 30 per cent of the urban middle class methers mentioned that they meaned the child from the breast but gave him the bettle.

One mother reported that her child, 5 years eld still used the bettle semetimes. When it is time to weam the Sudamese child, he is, meet probably, already taking solid foods. and drinking from a cup.

Concerning the time of wearing, the Sudanese mothers are more similar to the Iraqi mothers (1,46) than to the lebanese mothers (38,74) as sudanese mothers, wear at about the age of 14 months, Iraqi mothers at about the age of 16 months, and lebanese mothers at about a year. Sudanese mothers are different from the Americans who wean at a much younger age (43,71) and pakistani mothers who wean at a much later age (28,48).

The other question dealing with the problem of wearing ran like this: How long did it take (X) to step suckling completely? Table 16 summarises the answers to this question.

Table 16 HOW LONG DID 1+ TAKE (X) TO STOP
SUCKLING COMPLETELY ?
The figures are percentages

DAYS	1	2	3	5	7	10	34 <u> </u>	21	
Urban Hiddle Class	21	3	14	10	33	2	2	6	9
Urban Lower Class	9	30	9	بليا	7	1	o	0	0
Bural lower class	5	21	7	41	26	0	ů,	0	0

Sears, whiting, Prethre and others call the mother who weems abruptly in less than 3 days a decisive weamer, and the one who weams in more than 3 days on "indecisive weamer. According to this, Sudanese meethers are generally idecisive weamers. For the lower urban and rural classes, the statistical mode for weaming falls at 5 days, whereas it falls at 7 days for the urban middle class. The class difference is significant, at the A5 level, between the middle and lower class as a whole; The urban middle class methers tend to be more indecisive in weaming than the lower urban and rural classes.

Concerning the severity of meaning, it seems that Sudeness mothers are more similar to the Iraqi (1,48) and Pakistani mothers (28,50) than to the Lebanese mothers (38,77) who are decisive abrupt meaners.

METHOD OF WEANING

Actually, there are several waried ways of upaning, rural and leaver class mothers generally deb the breast with codewred, sour, or bitter substances. Red paper, salt, fermented millet flour paste, and coffee are some of the substances put on the breast. One mother reported that she dabbed her breast with quinine.

Many urban middle class mothers ween the child from the breast, but substitute the bottle instead. To ween the child from the bottle,

methers follow different techniques. Two common methods of meaning from the bettle are: Putting solt and water in the bottle instead of milk; hiding the bottle.

Some methers separate the child from them and send him to stay fee some time with his grandmethers or sunt.

These methods of weaning used by the "udanese mothers are utmilar to those of the Iraqi mothers as described by Al-Omar(1,17)

MEANING PROBLEMS

In order to study meaning problems, each mother was asked;

How did the meaning affect (I)? The mothers' responses to this question

are summarised in table 17.

Table 17 WEARING PROBLEMS

PERCENT OF CHILDREN HAVING
WEARING PROBLEMS

	reet_	Little effect	Great effect
Urben Middle class	62	35	3
Urban lever class	59	17	24
roral lower class	<u> 1</u> 2	lale	14

There is a significant class difference at the .Ol level, in respect to wearing difficulties, between the urban middle class and the lower class children. While 2h per cent of the urban lever class children, and ly per cent of the rural down class children had great weening difficulties, only 3 per cent of the urban middle class children were reported to have experienced such difficulties So, on the whole less urban middle class children have meaning problems. This may be due to the fact that urban middle class mothers, as has been mentioned previously, are more indecisive weaners than the lower slass mothers, and that they tend to ween their children gradually. Some paychologists, like frond, presched that abrupt weaning is more likely to cause upport them gradual usaming. The concept of decigiveness and indecigvatess in usaning is itself vague. Honigmann, for example, mentioned that in order to detrmine decisiveness or indecisiveness, the emphasize should be placed on the mother's attitudes accompanying it and not on the number of meaning days (22,248)

More Lebanese (38,77) and Pakistani (28,53) children have weening difficultifichen compared to Sudanese Children. In this respect, Madanese children are similar to Iraqi children (1,48) where weening had no effect at all on more than half of them.

THURB - SUCKING

Psychologists and psychamalysts have often related thumbsucking to wearing problems and wearing age. Texcollect information
about thumb-sucking, each moth r was asked: Did(X) suck his thumb
when he was an infant? Soble 15 represents a summary of the mothers:
answers to this question.

Teble 18

DID (X) SUCK HIS THUMB?

	The Figure	Scentines	rarely	never
Urban Middle Class	4	12	31	5 3
Urban lower class	0	11	8	83.
dural lower Class	214	34	11	31

while h per cent of the urban middle class children, and more of the urban lower class children eften practiced thumb-sucking, 2h per cent of the rural children did. So the difference, which is significant at the .Ol level, is between the urban and the rural children, more rural infants sucked their thumbs. It might be that the urban middle class mathers knew the psychological implications of thumb-sucking, and theresenths they tended to report that their c ildren did not practice thumb-sucking.

Concerning thumb sucking, Sudanese children are more similar to the Pakistani children (28,53) than to the lebanese children (38,79) Lebanese children practice more thumb-sucking than do the Sudanese children. It may be that the Sudanese are less conscious about thumb-

sucking than the lebanese. Our fidings seem to agree with Prethre's hypetheses that frustration over weaning would produce more thus-sucking, and that thumb-sucking grow stronger with practice, so that a child weaned later would show more thumb-sucking. Compared to the Sudanese urban middle class mothers, Sudanese rural mothers are more decisive in weaning, but they wean at a later age. Moreover, rural c shildren practice thumb-sucking more than the urban middle class children. So it can said that thumb-sucking is related to late werining as Prethro suggested, and that the severe weaning methods used by the rural mothers lead to anxiety and frustration, which causes thumb-sucking.

SUMMARY

Generally, a Sudanese mother weans her child at about the age of II, months. There is a significant difference between the rural mothers and the urban mothers in the age at which weaning takes place. The rural mothers tend to wean the child at an older age. In this respect, Sudaness are similar to the Iraqi mothers and different from the American.

Sudanese methers are generally indecisive weaners, and the urban middle class mothers tend to be more indecisive that the urban and rural lower class. So, they are more similar to Iraqi and Pakistani mothers than to the lebanes.

Less Urban middle class children had wearing difficulties when compared to the urban and rural lower class.

Concerning thumb-sucking , more rural infants sucked their thumb than did the urban children. Here, Sudanese children are more similar to the Pakistani than to the Lebamese children.

dany psychologists and psychoanalysts connect certain variables of early feeding to particular attributes of personality. They held different views and hypotheses about this matter.

TOILET TRAINING

TOILET TRAINING IN THE PSYCHOLOGICAL LITERATURE

According to frend, teilet training represents a conflict between three main factors which are the child's ego, his "instintual cathexis" (the wish to defecate) and on external barrier or the requirement of the outside world. (18,112) Because expulsion of the waste materials relieves the individual by removing the source of tension, the child associates "pleasurable tension reduction", with elimation. So according to Fraud, teilet training imposes problems due to the conflict among the three mentioned factors, and due to the association of pleasure with it. A person naturally resists having a pleasurable activity interfered with and regulated. If the interference is very strict and punitive in any way,

If the child may retaliate by intentionally soiling himself. As he grows older such a child will develop a messy, irresponsible, disorderly, wateful and extravagant character. Strict toilet training procedures may cause fixation at the "anal stage" of development. Having extreme pleasure in controlling elimination may also cause fixation at the anal stage. Fixation at this stage results later in an anal character" characterized by meticulous neatness, orderliness, ebstinacy, strict budgeting of time and money, and other overcontrolled behavior (18,111-114)

Freud went further to say that if a mother praises the child extravagantly when he succeeds in having a bowel movement, the child may come to regard the product he has made as being of great value. If too much emphasis is placed upon the value of feces, the child may feel that he has lost something valuable when he defecates. He will try to prevent future loss by refusing to give up his feces. Guilt feelings may cause a reaction against retention in the whild and later such a person will feel impelled to give away his possessions and momey in a heedless manner or less them by making foolish investments or by reckless gambling (18,11)

According to Dollar and Miller, upset over toilet training is due to the child's inability to have voluntary control of his ellimination since he is still ismature biologically. Severe procedures, even when the child is nature, may result in generalizing

the feeling of pain and disconfort elimination. This will make
the child retain the waste products. As long retention increases
the tension, there is a possibility for less of control to take
place. This is likely to make toilet training more difficult.

Mereover, severe measures which generate ensisty and frustration
may cause these feelings to be attached to the mother and to the
would at large. Punitive measures may cause timidity and conformity,
because the child may feel that the less responses he makes the
better for feer of being punished. Another consequence of severe
toilet training, measures stems fr m the child's inability to differentiate between the mother's dislike of his muste products and of
himself. Hence, he will develop feelings of unworthiness, insignificence and singulness (1,16)

Speak and other pediatricians criticised the idea that the only way a baby becomes trained is by the parent's stremmous efforts. Toilet braining is easier than that, since babies gradually, gain control of their bowels and bladders as they grow and the concerned muscles mature. From 18 to 24 months of age, most children begin to give their mothers some definite signal of an approaching bowel movement. In a few children this occurs before 18 months, in others not till after 2 years (45,245-256)

Hiadder training is more difficult or at least slower than bowel training. It is easier for a person of any age to control a bowel movement than to control urine. Whereas most children have

complete control of their bowels by about 2 years, many of two and a half-year-elds still not fairly often in the daytime or at night. Anyhow, most children become dry between 2 and 3 years of age, a smaller number between 1 and 2, a few not till after j. Boys tend to be later than girls in achieving dryness. Sometimes slowness in becoming dry seems to be a family trait* (15,256-260)

DISCUSSION OF FINDINGS ON TOLLET TRAINING

when facal material accumulates in the colon, it exerts pressure upon the walls of the colon, the walls of the rectum, and upon the anal valvelike sphincter muscles. When the pressure reaches a certain level, the sphincters upon and the waste products are expelled by the act of defecation. The pressure of the urine collecting in the bladder causes the ring muscle of the urethra to see and get rid of the urinary material. So expiliation of the feces and urine brings relief to the individual by removing a source of tension. According to freud, totalet training is the first crucial experience with discipline and external authority for the child. (ld, ll2)

To study how Sudanese mothers teilet-train thier children, each mother was asked five questions. The first of these questions is: Did you use dispers for (X)? For how long?

All the mothers replied that they used cispers. The urban middel class mothers used them for an average of 6 month. Generally, urban lower class methers and rural mothers use strips of old cloths as dispers for the infant. In this respect sudaness lower class methers are similar to the poorer lebanese (38,85) and Pakistani (28,55) mothers.

After the response to the first question, each mether was asked the following question: when did you start training (I) in bladder control?

Many mot era responded to this question by giving the time at which they began training the child in bowel control. The answers are summarised in table 19.

Table 19

START OF CLEANLINESS TRAINING

	Months
"rban middle class	60h
Urban Lower class	2-0
Bural lower class	1.7

These results show a significant class difference, at the .Ol level, between the urban middle class and both the urban and rural lower classes. The lower class nothers begin bladder control traing earlier than the middle class mothers. It seems that rural mothers

gave approximations of the age at which they started. The child tellet training.

Consering the start of bladder-control training, it seems that Sudanese mothers are more similar to the Iraqi mothers(1,52) than to the Lebanese (38,86) and Pakistani (28,56) methers.

The third quation in the series was: How long did it take to toilet-train (I) completely?

Table 20 represents a summary of the mothers' ensures to this question.

Table 20

TOILET TRAINING

AVERAGE TIME FOR COMPLETICS OF TRAINING

	Months
The Whole sample	18-5
Urban middle class	15. 6
Urban lower class	15,3
Eural lower class	24.3

There is significant difference between the urban methers as a whole and the rural mothers concerning the time of toilet-training completion. The rural mothers take a longer time to complete the process. So, we can say that rural mothers, generally, start tellst-training earlier than the urban methers, but complete the training

precess later than they do-

The average time for completion of toilet training is 18-5 meable for the sudanese, 21 months for the Lebanese (38,87), and 15 months for Pakistania (28,56). Thus, it seems that the Sudanese are different from both the lebanese and Pakistania in the time of toilet training completion.

The fourth question, about cleanliness in general, was: What do you expect of (x) regarding cleanliness and bathing?

Rimsty-six per cent of the mothers replied that they cleaned and bathed the baby themselves. Eighty-six per cent of the urban middle class mothers express their great concern about the child cleanliness. On t e other hand only 32 per cent of the urban lower class, and 27 per cent of the rusal lower class mothers expressed such concern. Actually, 21 per cent of the rural lower class mothers class mothers said explicitly that they didn't care about the cleanliness of the child.

Therefore, although there is no class difference in the matter of who cleaned and bathed the child, a significant class difference, at the .Ol level, exists between the middle class and the lower class in regard to concern about the child's cleanliness; the middle class methers expressed more concern than the lower class mothers. The attitude of the urban middle class mothers toward cleanliness of the child may be due to the effect of education, mass media, contact with pediatricians, the accessibility of water and bathroom facilities

they have.

The last question posed read as follows? Was (X) easily taught to control his bounds and bladder?

Table 21 gives a summary of the mothers' answers to this question.

Table 21

DID (X) HAVE DIFFICULTY IN

TOILET TRAINING?

The figures are percentages

Urban middle class	Had difficulty	no difficulty	
	22	78	
Urban lower class	5	95	
Rural lower class	7	93	

had no difficulties during toilet training, a significant class difference exists between the middle class and the lower class; more urban modile class children experienced difficulties during toilet training than did the urban and rural lower class children

This difference may be due to the greater concern of the urban middle class mothers about the general cleanliness of the childSuch a concern may drive a mother to demand more than the child can afford to accomplish in respect to eleanliness. But one would expect urban middle class mothers to know that certain maturation of the sphincter and the bladder ring muscles, and the myelimisation of the meter nerves are prerequisite to any kind of toilet training.

while about 17 per cent of the Sudeness children had difficulties during toilet training, 30 per cent of the Lebanese children were reported to have been upset over toilet training. (38,87)

On the other hand, our findings concerning the class difference, in the difficulties of training, contradict the findings of Al-Omar in Iraq. According to be:, Iraqi lower class children were more likely than the middle class children to become upset over cleanliness training (1,55).

METHOD OF TOILET TRAINING

Rural mothers begin the child's toilet training soon after birth. They put the child on their feet, when he starts eliminating, to defecate on the ground. A special grunt is repeated by the mother during the process of bound movement. This continues until the child learns to signal his need by using the same special grunt which he

associates with defecation.

Some urban middle class mothers use this same way in toilet training of the child, but most of them use a special pet for this purpose. Mevertheless, they use the special grunt and keep repeating it during the precess of the boust movement until the child learns to use it to signal his need of defecation.

SUMMARY

Teilet training is the first experience with discipline and external authority for the child.

Sudamese rural mothers are similar to the poor lebanese and Pakistani mothers in using strips of old elethes as dispers for the infant.

Generally, rural mothers start toilet-training earlier than the urban mothers, but complete the training process later han them. The middle class mothers expressed more concern about the child's cleanliness than did the lower class mothers. This may be due to the effect of education, mass media and contact with pediatricians.

difficulty during teilet training. Compared to the Lebanese children, less Sudanese children had toilet-training difficulties.

According to Freud, Toilet training peers problems as a result of the external interference to regulate a pleasurable activity. Strict toilet training measures may cause fixation at the anal stage, that results later in an "Amal character" characterised by neatness,

erderliness, and strict budgeting of time and money.

Dollar and Miller attribute upont over toilet training to the child's inability to have voluntary control over his elimination due to his physiological immaturity.

Pediatricans say that teilet training should be an easy process, since babies gradually gain control of their bowels and bladders as they grow.

MISCIPLINE

DISCIPLINE IN THE PSYCHOLOGICAL LITERATURE

Kardiner classified the techniques of discipline into negative and positive techniques. Negative discipline blacks or interferes with needs urges, and capacities of the person (22,211). It includes tangible controls like beating and spanking, and intengible techniques such as deprivation of privileges, withdrawal of lave and negative medeling.

According to Sears, deprivation of privileges refers to making an unpleasant situation for the child by withdrawing something he values, such as a toy, dinner dessert, contact with playmates, and going out to the 125 (\$3,337)

withdrawal of love takes many forms as a looking coldly at the child, turning one a back, refusing to listen to him, patting him in a separate room and telling him that he cannot be accepted in the

family circle until he stops his a sbehavior, telling him "I don't love you", saying that he is hurting his mother's feeling, or he is making her want to cry-with the implication that only by being good can be restore the loving relationship between them(\(\beta\)3,3\(\beta\)1)

Megative medeling refers to pointing to an example of behalfleved what the child should not do. So the child is not directed to what the shults want him to do, but he knows what he should not do (13,317).

Positive techniques of discipline, according to Eardiner, encourage or foster curiosity, enterprise, and activity which the individual accepts or follows eagerly (22,214). They include tengible measures and positive modleling.

Rewards or giving material objects to the child is an example of tangible positive techniques. Encouraging words, showing expressions of love and delight are some examples of intangible positive techniques of discipline (53,319)

In positive modeling, the mether points to an example of the kind of behavior she wants the child to sequire. The tendency of the child, to copy people he especially admires and wants to be like, is taken advantage of. The model may be an elder brother or sister, a neighbouring child, a fictional hero, or the parents themselves(h),3h7)

According to Speak, a child needs to feel that his mother and father, however agreeable, have their own rights, knew how to be firm.

way. It trains him from the beginning to get along reasonably with other people. The spoiled child is not a happy creature even in his own home. And when he gets out into the world, he will meet disappointing shocks. He finds that hebody is willing to bear him; in fact, everybody dislikes him for his selfishmese. Either he must go through life being unpepular, or he must learn the hard way how to be agreeable. On the other hand, some parents are always turning harshly on the child. Neither of these stages are really necessary. If parents have a healthy self-respect, they can stand up for themselves while they are still feeling friendly. What Speck means is that parents can be both firm and friendly with the child (15,326).

To answer the question: is punishment necessary, Speck states that the best test of a form of punishment is whether it accomplishes what the parents are after, without having other serious effect. If it makes the child furious, defiant, and weres-behaved them before, then it is not recommended. If it seems "to break the child's heart," then it is probably too strong for him. So it appears that, according to Speak, the whole matter depends upon the parent's discretion (45,333).

A child, like an adult, feels guilty because of his neightiness or rudeness even when his parents close their eyes to it. He would like to be stopped. But if he is not corrected, he is likely to behave werse and worse. It is as if he were saying, "Now bad do I

have to he before semebody stops me? * (45,325)

A child is happier as well as better-behaved if his parents insist on reasonably good behavior. But at the same time it helps a child to realize that his parents know that he has angry feelings and that his parents are not enraged at him or alienated from him on account of them. So parents are advised to let the child know that his angry feelings are normal. This helps the child get over his enger and keeps him from feeling too guilty or frightened because of it (54,327).

THE FINDINGS OF DISCIPLINE

Discipline refers to training to act in accordance with rules, principles, standards and norms. In culture and personality literature, the concept of discipline is used to refer to the manifest attitude taken with reference to perticular instances of behavior (22,21h).

In order to study the question of discipline, each mother was asked a number of questions. The first two questions were:

(1) What do you do when (I) inditentionally disobeys you? (2) Do you beat (I) semetimes?

In response to the first question about 63 per cent of the methers said they beat the children, others threatened to beat them er reasoned with them. 13 per cent of the urban middle classe: methers discussed and reasoned with the child, while only 19 per cent of the

urban levery class methers, and 17 per cent of the rural lower class methers did so. This class difference between the urban middle class and the lower class is significan at the .Ol level. The difference may be due to the comparatively greater influence of modern literature on child psychology to which the urban middle class mothers may be subjected.

In this respect, Sudanese mothers resumble. Iraqi methers (1,67) where m ddle class methers were more likely than the lower class mothers to reason with the child. In spite of lack of infernation, it can be assumed that this is a universal tendency.

The answers to the second question revealed that 92 per cent of the mothers used physical punishment. Tunive urban middle class, 5 urban lower class, and 9 rural lower class mothers reported that they did not beat the child.

So, we can conclude that Suianese methers use physical punishment as a disciplinary technique irrespective of social class. In that they are similar to the lebanese (38,108) and Iraqi methers (1,65).

After discussing physical punishment, the following question was posed to the mether: Do you have a special arrangement to reward

(I) when he behaves well?

Table 21 gives a summary of the mothers! answers-

Table 22

PER CENT USE OF REWARDS

	Rounzd	Occasional	No
Urben middle class	33=	59	8
Urben lower class	27	38	35
Rural loss: class	30	21	49

On the basis of these results, it can be said that most of the Sudanese mothers had a system of rewarding the child. However, a significant class difference exists between the urban middle class methers and the lower class methers both urban and rural. Generally, more urban middle class mothers gave rewards. In this respect, Sudanese mothers are probably sim lar to the Lebanese mothers (38,103)

Some mothers volunteered to say that the rewards were: emesure aging words, thanks, expressions of love, food, presents and expressions of pride. One rural mother said that she rewarded the child by putting some mency in his saving box.

After discussing rewards each mether was asked: Some parents require a child to obey immediately (for example, when told to step making noise), others do not care much about this. What is your epinton on this?

Except for two urban middle class nothers, all the nothers demanded prompt ebedience from the child. Heny methers answered the

the question by saying that a child must always obey older people.

The writer assumes that most - if not all - of the Sidamese methers believe that a child should obey promptly any older person regardless of his social class or relation to the family.

It seems that Sudanese mothers are similar to Lebanese methers in their demand for immediate ebedience from the child. Prothro termed the Lebanese methers non-permissive in their expectations regarding the child's ebedience (38,99).

SHMMARY

Almost all of the Sudamese mothers used physical punishment to discipline the child. In this respect they are similar to the Lebanese and Iraqi methers.

Although most of the mothers used rewards as a disciplinary technique, more urban middle class methers reported that they rewarded their children on good behavior. Almost all the mothers demanded prompt ebedience from the child. Hence they are similar to the Lebanese methers in Prethro's study.

According to Kardiner disciplinary techniques are negative -like beating and withframal of love > and positive like rewards and
encouraging words and expressions.

Speck advices that parents should be both firm and friendly with the child, and that they should let the child know that his angry feelings are normal.

SEX DIFFERENCES IN REARING PRACTICES

REVIEW OF LITERATURE ON SEX AND SEX ROLES

Proud's three stages of development, the eral, anal, and phallic, are called the "pregenital period." This period occupies the first five years of life. The outstanding characteristic of the sexual instinct during this period is the "primary narcissim", characterised by sensual feelings that arise from self-stimulation connected with body pleasure. It is exemplified by thumb - sucking the expelling or retaining of the foces, and masturbation.

The sexual instinct during the "pregenital period" is not directed toward reproduction. The child "cathects" his own body as a source of pleasure, and his parents. The mother's breasts are the chief source of oral pleasure, and caresses, kisses and fendling of the beby are sensually satisfying (18,118)

Freud said that a boy at this stage loves his mother and identifies with his father. When the sexual urge increase, the boy becomes jealous of his rival, the father; hence the emergence of the "Codipus complex." The boy begins to fear that his father will remove his offending sex organ. This fear is called the "castration anxiety." On the other hand, when the young girl discovers that she does not possess a noticeable external genitals, she feels castrated. She blames her mether for this, and begins to prefer the father. The girl's love for the father is mixed with except because he possesses something she does not have. Freud termed this feminine counterpart of the boy's castration enxisty - the "penis envy". Both conditions are called the "castration complex." (18,116)

Roughly between the ages of five and twelve, the "castration complem" subdues the sexual and aggressive impulses, and the child is said to be in the "latency period." He emerges from this period at puberty to enter the second stage called "the genital stage" in which the sexual instinct starts to develop in the direction of the biological sin of reproduction.

Frend also assumes that every person is bisexual, which means he inherits the tendencies of the opposite sex as well as these of his own sex. The relative strength and success of the child's early identifications determines his degree of masculinity and feminimity later in life, and hence his character, his attachments and his antagonisms (18, 114-119)

Henigmann stated that training for sex roles begins in infancy as nonverbal communication proceeds subtly - consciously or unconsciously from the mother to the child while he is nursing. Almost everywhere a girl baby is given to understand that she will repeat the mother's rele-

A boy is directed to understand that he faces the task of differentiating himself from the maternal object of identification. Head believes that the male drive toward self-assertion arises from this early understanding (22,275).

Meed stresses the non-verbal character of this early learning. She said that messages to the child, for example, are conveyed in his mother's skile, the slight coquettishness or perhaps aggressive rightening in her area, or in the way she yields her breast. The fact that weaning is subtly a different experience for a boy, who parts finally from the breast, and a girl, who will suckle babies as onthusiastically or as distastefully as her mother suckled her, adds another element to the earliest learning of sex roles (22,275-276).

The writer has great interest in the questions what does a preference for one sex in the child mean for the personality devlopment of the child? Anyhow, according to Honigaman (22,276), the information on this subject is meager.

SEX DIFFERENCES IN REARING PRACTICES IN THE SUDAN

Ser-typing refers to the child's development of these interests, attitudes, and other personality qualities that are appropriate to his or her own sex. what is appropriate may differ somewhat from one culture to another, but there is no culture that does not make some distinction; one kind of behavior is expected of men, another of women (13,394).

The first question posed to the mothers was: In case both you and your husband are present and (X) misbehaves, who disciplines him?

Table 23 represents a summary of the answers.

Table 21 MHO DISCIPLINED THE CHILD

The figures are percentages

	Mether	Father	Both
Urban Middle class	38	19	143
Urban lower class	51 ₁	17	29
Rural lower class	45	22	33

According to these results, it seems that mothers are more likely than fathers to discipline the child at this age. This is true for all classes. However, more urban middle class mother reported that both parents disciplined the misbehaving child.

mothers (38,121) and Khan's findings on Pakistani mothers (28,64) in the general trend of the mothers being responsible for discipling the child till the age of five. But our findings contradict Prethre's (38,122) and Khan's (28,64) results that a higher percentage of rural methers were responsible for disciplining the children. However, our results seem to agree with Prothro's (38,122) and Khans (28,64) In that most of the fathers who were reported to have disciplined the child did so in case of boys. This is true for all the mothers responding irrespective of rocial class. The writer is of the spinish copressed by Prethre (38,122) that the father most probably acts as a final authority in seme cases, dealing out punishment only when the mother's efforts have failed.

After discussing who disciplined the misbehaving child, each mother was given the following question: Do you think that (X) resembles his father more than he resembles you in his may ements, his way of speaking, and his way of walking?

Eighty-one mothers said that the child resembled his father.
Out of these 7h were boys. 70 mothers reported that the child resembled his mother, and out of these 66 were girls. Accordingly, we can conclude that boys generally resembled their fathers, while girls generally resembled their mothers. These results agree with Prothro's findings on Lebaness children (38,123) and Khan's findings in Pakistan (28,65)

However, Prothro has a reservation about his findings in relation to the child's identification. He said that it may be that Lebanese mothers believed in sex-typing and read it into the children (38,12h)

A third question dealing with sex differences in the rearing practices run like this: In some families the father decides matters concerning the children, but in other fam lies the mother is responsible for everything concerning the children. Could you tell me the is responsible in your family?

with the exception of h urban middle class methers, all the methers replied that the father was responsible. The h urban middle class mothers said that both parents were responsible for such decisions. So it can be said that generally Sudanese fathers are responsible for making decisions concerning the children. It seems that, in this respect, Sudanese are different from the Lebanese (38,128) and the Pakistanis (28,69) where decisions affecting the children were mostly made by the mothers.

After discussing the matter of decisions concerning the child, the mother was select: Is the method you are using now in rearing (I) like the method your methor used in rearing you? If different, which method is better?

Table 24 summarises the answers to the first part of the question.

Table 24

IS YOUR METHOD SIMILAR TO YOUR MOTHER'S METHOD OF REARING!

The figures are percentages.

	Similar	Differ a bit	Different
Urban Middle Class	l ₄	18	78
Urban lower class	1.2	21	67
Rural lower class	37	21	42

The raults show a significant class different between the urban middle class and the lower class mothers in the city and the village. The methods used by the urban middle class mothers are more likely than the lower class methods to be different than the methods of rearing used by the grandmethers. This difference is statistically significant at the .Ol level.

In reply to the second part of the question,69 per cent of the urban middle class mothers, 16 per cent of the Urban lew r class, and 21 per cent of the rural lower class methors preferred their own new methods of child rearing to the older methods. Thus most of the urban middle class mothers changed their attitude toward the methods of child rearing. This may be due to influence of mestermination and contact with mass media and other sources of information. Similarly, Isbanese middle class mothers (38,131) and Pakistani middle class mother (28,71)

generally preferred new mothods to old methods of child rearing.

COMPENTS ON SEX DIFFERENCES

TN

THE SUDAN

Males are the core of social life in the Sudan. Generally, they are the bread winners, while the females stay in the house to manage its affaris and look after the children. Ithas been mentioned that beys are preferred to girls, although they are treated equally in matters of maternal warmth and parental love.

Like her mother, the girl's place is in the house, From about the age of 7, shi is not expected to go out much, even with other girls, and never with boys. The girl is expected to be a mother substitute to her younger siblings, caring for them and attending their wants. From a young age, she learns to cook, and in the rural areas, to help on the farm. by the age of 13 she carries a considerable pertian of her mother's burden.

Such a situation would require that parents have different expectations for boys and girls, and that they make a differentiation between the two sex roles. Girls are expected to be modest, yeighting and sympathetic, while beys are expected to be strong, capable and physically aggressive.

Young girls are given toys in the form of delia to play with and act the role of a mother. In the villages such toys are usually made for the female child by the mother or an elder sister. Generally obys are dressed in white or one-colour garments, while girls are dressed

in brightly, differently-estaured clothes. Especially in the villages, young boys can go around maked or only in short pants, while young gible are not allowed to do this. Girls are not expected to be physically aggressive, but boys are encouraged to be so. Mural females have great physical strength because they work in the house, bring water from the well and help on the farm, but still they are expected to be physically unaggressive.

SUMMARY

Like the Lebanese and Pakistanis, Sudanese methers are more likely than fathers to discipline the child until the age of five.

However, more urban middle class mothers reported that both parents disciplined the child.

Also similar to the lebanese and Pakistanis, the 5-year-old Sudamese identified with the parent of the same sex. This agrees with the views of child psychologists.

while Sudamese fathers were found to be responsible for making decisions concerning the children, it was found in the other comparable studies that lebanese mothers and also Pakistani mothers were responsible for such decisions.

Similar to the "ebanese and Pakistania, Sudanese urban middle class mothers tend to prefer the new methods of child rearing to the old ones.

Sudanese girls are expected to be medest, yeilding and symathetic while boys are expected to be strong, capable, and physically agressive.

According to Frend. Mead and Henigmann, training for sex rules gegins in infancy through noverbal communication between child and parent.

CONCLUSION

L SEMATY

The purposes of this study are:

- To describe how three groups of Sudaness mathers namely, rural lower class, "rban middle class, and
 urban lower class rear their children with respect
 to the following child rearing practices: feeding
 weaning, toilet, training, discipline, maternal
 warmth, and sex training.
- E. To find out the similarities and differences among the three groups.
- C. To give cross-cultural comparisons and pertinent suggestions.

The sample of subjects included 151 mothers with children five years of age. The information about child rearing practices was obtained by Badri through an interviewing schedule adapted from Prother's schedule, which he used to study child rearing practices in Lebenon.

The study revealed that Sudanese wives and husbands, like the lebanese and Pakistania, felt happy when they know they were going to become parents. Also, similar to the lebanese and Pakistania, Sudanese mothers generally picked up or fed the child when he cried.

There are significant differences concerning feeding, while some urban a ddle class mothers used bottle feeding, emplusively, none of the rural mothers did so. Lower urban and rural class mothers used no feeding scheduling, while about a third of the urban middle class mothers.

scheduled the feeding partially or completely. Cenerally urban mothers breest-fed their children for a longer per ed than the urban mothers. Urban middle class children experienced more feeding problems than did the lower class children.

The nothers weared their children at about the age of 14 months, but generally the rural mothers weared theirs at an older age. The rural mothers, however, were found to be more decisive in meaning them the urban middle class mothers. At the same time, more rural children practiced this—sucking and experienced meaning difficulties. In this respect Sudanes children are similar to the Pakistani children.

Rural mothers started toilet training earlier than the urban mothers, but completed the process later than they did. The urban middle class mothers expressed more concern about the child's cleanliness. Howe urban middle class children were reported as hew ng had difficulties during toilet training. Compared to the leaness, fower Sudaness children has toilet training problems.

Algori all Sudaness no h re used physical punishment to discipline the child. Compared to the lower class as a whole, more urban middle class asthers rewarded the child on good behavior. Similar to the lebaness. Sudaness methers demanded prompt obsdience from the child.

Like the lebanese and Pakistania, Judanese mothers disciplined the shald until the age of five. More urban middle class mothers reported that both parents were responsible for disciplining the child- slap similar to the lebanese and Pakistania, the 5-years and Sudanese identified

the Sudanese fathers and not the mothers were found to be responsible for making decisions concerning the child. On the other hand,

Sudanese urban middle class methers, like the lebenese and Pakistania,

tended to prefer the new methods of child rearing to the old once.

- 2. Limitations and Suggestions
- It is clear that such a study has obleus limitations such age
- Le It cannot give a thorough description of all the child rearing practices.
- 2. It cannot describe the child rearing practices for all age
- 3. We comment say that some of the small samples, collected from some areas, do represent the communities from which they says taken.
- is Because our sample is rather small, it may be doubtful as to whether the ensure, given to the questions, are homest once, or whether they they are idealized answers that reflect the cultural values rather than the methers; actual behaviors.

 Further evidence may be obtained by increasing the size of the sample.

Never theless, it is hoped that this study will arouse other investigaters to consider other aspects of child rearing, and to conduct more complete studies. An interesting area that can be explored is the relationship
of child rearing p ractions to certain aspects of a child's personality,
for example, are breast and bettle feeding related to different covert
personality traits? Is upset ever meaning related to age at meaning,
degree of scheduling, breast and bottle feeding, decigiveness or indecisiveness in meaning, feeding problems, and upset over toilet
training? That is the effect of using a pacifier - and how does it
relate to thumb- sucking? What does a preference for one sex in the
child mean for the personality development of the peaferred child and
the child of the other eax?

APPENDIX I

English translation of the interviewing schedule (adapted from Prother)

Age of child

Sex of child

- L. To begin with, I would like to get a general picture of your family.
 - & How many boys and how many girls do you have?
 - b. How ald are the boys? the girls? What is the order of the five-year ald child(x)? Oldest, youngest, middle, or only child?
 - c. idenyou were pregneant with(x), did you wish to have a begoer girls?
 - d. Feople usually prefere boys to girls, what is your point of view about this?
 - e. If you prefere boys to girls, what are your reasons?
 - for Dees any relative live with you in the house? For example, mother's father, father's father, mother's nother, Father's mother, Father's Brother, father's sister, mother's brother, mother's sister.
 - g. Does any one else live with you in the houe? For example, servant, son of one of your relatives or friends.
- 2. Let us go back to the time when (x) was an infant, who took same of him most of the time?
 - a. Did your hasband help in taking care of his?
 - b. Did anyone else help in taking care of him?

- 3. Some mothers believe it is necessary to pick up a child when he cries, while other mothers let the child any lest be get used to being picked up.
 - a. What is your opinion about this?
 - b. What did you do when (x) was an infant?
 - c. shat did you do when (x)cried at night?
- to Did you have time to spend with (x) other than the time spent in taking care of him, such as nursing and bathing?
 - a. (If the answer is yes) tell me, what did you do during that time?

 Did you fondle him or sing for him, or something like that?
- 5. So you belive that children are more pleasing in infancy or when they are older? at what age is the child most pleasing?
- 6. Now tell me something about your way of feeding him when he was an infant.
 - a. Did you suckle him? For how long? (If not) How did you decide to use the feeding bottle? For how long?
 - b. Tall me about the method of wearing him (from the breast or the bottle). When did you begin to wear him?
 - c. How did meaning affect him? How long did it take him to step de-Suckling completely?
- 7. Now tell me something about his feeding when he was about one year eld?
 - A. Did you feed him on schedule or when he felt hungry!
 - b. How many times a day was he fed?

- So In the last two years, did you have any difficulty in gotting him to eat the quantity or types of food he needs?
- 9. Suppose he does something which you do not like. What do you do?
- 10. Did you use dispers for him? For how long?
- 11. when didyou start training him in bladder control?
 - a. was he easily taught?
 - b. How long did it take to train him completely?
- 12. You how children stretimeslike to go around without their clothes
 on. How do you feel about this?
 - a. (if negative) what did you do the teach (x) that this is not approved of?
 - b. Men did you start teaching his this?
- 13. What did you do when you found (x) playing with his genitals?
 - a. Is it advisable to prevent children from doing this?
- The Does he have may idea about now children are born?
 - a. (if yes) where did he get this information?
- 15. N'w let us discuss the topic of cleanliness and tidiness. What do you expect of (x) regarding cleanliness and bathing? What would you do to him keep clean?
- 16. Do you let him play sometimesby jumping over furniture or writing on the wall or snything like that?
 - a. (if negative) what would you do to stop him from much behavior?
- 17. Should children as old as (x) be requested to perform certain duties at home?
 - a. "one (x) have carte a duties at home?

- 16. Some parents require a child to obey immediately (when told to stop making naise, for example) Others do not attach much importance to how quickly a child obeys. What is your opinion hout this?
- 19. Suppose (x) was asked to do a certific job, and he did it immediately, what would you do or say to him?
- 20. What do you think is better: to watch him always, or leave him alsos?
- 21. Does (g) seem to want to be with you most of the time? For example,
 does he follow you around and stay close to you?

 (If not now, did he pass through a period of which he did this?)
 so How do you feel when he follows you around?
- 22. What does (x) usually do, when you go out of the hou e and leave

 Rim with another person?
 - 23. Was he separated from you at any times of his life? (if yes) for how lon:
- 24. Has he been separated from the father at any time of his life?

 (for how long?)
- 25. Could you tell me more about your life with X? what are the things about him which please you and those which do not please you?

 a. Do you have time to spend with X for more measurement? Tell me about that.
- 26. What letel of education do you want him to reach in mchool?
- 27. (In case mother has other children) could you tell me someting about I's relations with his brothers and sisters?
- 20. What about his relations with the neighbours! children?

- 29. Some people feel it important that the child should not learn to fight with other children, while others feel the contrary. What is your epinion?
 - a. Did you encourage X to fight back in case another child quarrelled with him?
- 30. What do you do when he is intentionally disobedient?
- 31. Now I would like to have an idea about X when he is naughty (I know we have spokes a lot about bad beharior, but this does not mean that X is always thus. Most children m sbehave sometimes and we wish to get this information in detail)
 - a. For example, if in your absence he intentionally does something wrong, what does he do when you return?
 - b. "coshe tell you about it without questioning?
 - c. When he does not con less what he has done, and you are sure of it, what do you do?
 - 32. Do you have a special arrangement to regard I when he behaves well?
- 33. Some parent praise their children so as to encourage them to behave sell. others consider that good behavior is simply to be expected. That is your spinion?
- 3h. Do you best him sometimes?
 - a. Does his father beat him som etimes?
 - b. For example, how many times was he beaten in the last two weeks?

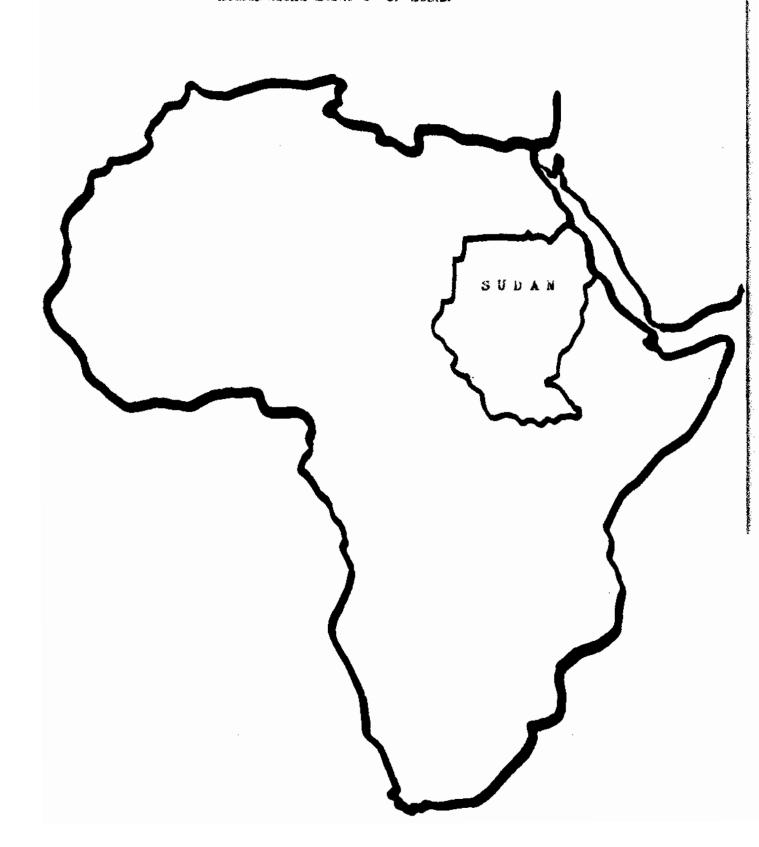
- 35. Do you think that beating is useful?
- 36. Do you often threaten him, and then do nothing for some reason or another?
 - a. What are the reasons that make you fail to follow through?
- 37. Bid X suck his thusb when he was an infant?
 - a. hen did he start to such his thumb?
 - be When did he stop to such his thumb?
- 36. I would like to know your opinion about certain activities, some of which may be agreeable to you and some of which may not.
 - a. For example, would like him to try new things without your help? At what age should a child start this?
 - b. Sould you like him to comete successfully with other children and try to be first in games, lessons, and sports? At what age?
- 39. What is your husband's attitude toward X ? Does he often about his affection (kisses and embraces him, for example, or is he reserved?
- by. the disciplines I when he needs it and both you and your husband are present?
 - a. Is your hasband wary severe in his treatment of 1?
 - b. Do you approve of the way your husband disciplines him?
- his Does your husband believe that you are too severe or reasonable in disciplining 17
- h2. In some families the father decides matters concerning the children but in other families the mother is responsible for that. Yould you tell me who is responsible in your family?
 - a. For example, who is responsible to give him pensission to go to the places he likes to visit?

- b. In case of illness of I, who is responsible for calling a dector?
- o. Who determines the amount of help which I should give the parents at home?
- his who makes fam ly decisions which do not concern the children?
 - a. Regarding money?
 - b. Regarding expenditures and accounts?
- The woman, for example, cooks and the husband repairs things. In some cases the couple work together on every task. That is the situation in your family?
- 45. Do you think that X resembles his father rather than you in his movements, and his way of talking and walking?
- 16. Does X behave better with you or with his father?
- 47. People differ on the meaning of "good child." In your opinson, when is a good boy or girl who is live or six years of age?
- 46. In general what type of erson would you like X to be when he grows up?
- ly. We have jut about to come to the end of our discussion. One thing fiveld like to know: How do you feel about being a mother?
 - a. What was your feeling when you discovered that you were pregnant with X?
 - b. How did your husband did feel about it?
- 50. From the viewpoint of expenses, ages of the cildren, do you think
 X's com mg was sutiable
- 51. If you think back on the matter, do you think if X had been delayed a little it would have been better for you?
- 52. Pid you have any jeb before you married and became a mother?
 - a. (If yes) what type of job?
 - b. How did you feel when you quit your work?

- 53. If you compare the method your mother used in rearing you and the method you use in rearing X, how much are they alike?
 - a. (If differ) which method is better?
- She What does your husband do for a living? (is there another income, do you work?)
- 55. Did your husband go to school?
 - a. -hat level of education did he reach?
- 56. How old is your husband?
- 57. Fid you go to school?
 - a. What level of educaton did you reach?
- 58. How old are you?
- 59. (Fill out as soon as possible after leaving, specially E)
 - a. Buse made of
 - b. Number of rooms and size
 - c. summing water?
 - d. Eathroom?
 - e. Radio or other electrical appliances
 - f. Amount and kind of furniture.
 - g. Books? magasines? art works?
 - h. General appearance of home
 - i. Fervanta?
 - j. Location in town
 - k. over all impression of socio-economic status (occupation and education).

APPENDIE II

GEOGRAPHICAL LOCATION OF SUDAN



BIBLIOGRAPHY

- Lo Al-Onar, Nasrine, The Effect of Social Class On Child Rearing
 In Iraq, Thesis, A.U.B., 1966
- 2. (Eadri, Malid: Professor Education, A.U.B.)
- 3. Bartlett, F. H., Infants and Children, Farrar, Inc., New York, 1944
- 4. Baruch, Dorothy, Understanding Young Children, Bureau of Publications, New York, 1953.
- 5. Berry, L., "Sudan, Republic of the," Emcyclopeedia Britanica, Vo., 21, W. Benton Publisher, London, 1965, pp. 504-513-
- 6. Bingham, Joy Do Babies have Horries, Heath Fublication, New York 1951.
- 7. Boulby, John, Maternal Care, WHO Report, New York, 1963-
- 8. Brim, Orville, Education for Child Rearing, R. Sage, New York, 1959.
- 9. Cabas, H.D., Child Rearing in Greece, M.A. Thesis, A.U.B. 1963.
- 10. DelSolar, C., Parents and Teachers View the Child, Burequ of Publication, New York, 1949.
- 11. El-Barawy, R., Egypt, Britain And the Sudan, Remaissance Publishers, Cairo, 1952.
- 12. Fabunmi, L.A., The Sudan in Anglo-Egyptian Relations. Longmans, London, 1951.
- 13. Frampton, M.E. "Child Care", Encyclopedia of Modern Education, Huber and Company, New York, 1913.
- lie Gessel, Arnold, Infant and Child in the Culture of Today, Harper, New York, 1913.
- 15. Granqvist, Hilma, birth and Childhood among the Arabs, Soderstorm & Co., Helsingfors, 1947
- Mo Groves, E.R., The Family and its Social Functions, Lippincett Company, New York, 1940
- 17. Guthrie, G., and Jacobs, P., Child Rearing and Personality Development in the Philippines, University Press, London, 1966.

- 16. Hall, C.S., A Primer of Frendian Psychology, World Publishing, Cleveland, 1954.
- 19. Havighurst, R.J., and Davis, W., Father of the Man, Houghton Mifflin, Boston, 1947.
- 20. (Hildreth, Gertrude: Professor of education, A.U.B.)
- 21. Hodgkin, R. A., Sudan Geography, Longmans, London, 1951.
- 22. Honigmann, Joh, Culture and Personality, Harper Publisher, New York, 195h
- 23. Hurley, J.R., "Maternal Attitudes and Children's Intelligence",
 Journal of Clinical Psychology, Vol. 15 (July, 1954), pp. 291-293
- 24. Harlock, Elizabeth. Child Development, McGraw-Hill, New York, 1956.
- 25. Isose, Ira, and Stevenson, H., editors, Personality Development in Children, University Press, Austin, 1960
- 26. Jackson, H.C., Behind the Modern Sudan, MacMillan and Company, London, 1955.
- 27. Jersild, A.T., et,al., Joks and Problems of Child Rearing, Barequ of Publication, New York, 1949.
- 26. Khan, Rehana, Child Rearing Practices in Pakistan, M.A. Thesis, A.U.B. 1/65
- 29. Krotki, Karol, 21 Facts about the Sudanese (1955/56 census), R. Kiesel Publisher, Salsburg, 1956.
- 30. Lundy, Davis, Tropical Childhood, Van Rees Press, New York, 1959.
- 31. Langley, Michael, No Woman's coun ry, travels in the Angle-Egyptian Sudan, Jarrelds Publisher, Condon, 1950
- 32. Miller, DrR., and Swanson, C.E., The Changing American Farent, John Wiley & Sons, New York, 1958.
- 33. Minturn, Leigh, et. al., Mothers of Six cultures, John Wiley & Sone, New York, 1964.
- 34. Mann, Nerman, Paychelegy, Houghton Miflin Co., Boston, 1961.
- 35. Hewcomb, T., and Hartley, E., editors, Readings in Social Psychology, H. H. Company, New York, 1947.
- 36. Merson, John and Elizabeth, Infant Care in An Urban Community, G. Allen & Company, London, 1963.

- 37. Peck, Leigh, Child Psychology, DoHeath & Co., Boston, 1953.
- 38. Prothro, Edwin Torry, Child Rearing in the Lebanen, Harvard University Press Cambridge, 1961.
- 39. Reeves, Katherine, Children: Their Ways and Wants, The Educational Publishing corporation, Darlen, 1959.
- 40. Righels, Spphie, Children's Behavior, Bookman Associates, New York, 1959
- hl. Rummel, J.F., An Introduction to Research Procedures in Education, Harper Publishers, New York, 1958.
- 12. Said, Bashir Mohammed, The Sudan, The Bedley Head Publishers, London, 1965.
- 13. Sears, Robert Ro, et. al., Patterns of Child Rearing, Row and Company, New York, 1957.
- his Shney, Rebekah, et.al., Learning About Children, J.B. Lippincett Co., New York, 1964.
- 15. Spock, Benjamin, The Common Sense Book of Baby and Child care, Duell and Sleen Fublishers, New York, 1957.
- is6. UNICEF, Children of the Developing Countries, The World Publishing
- 17. Valentine, C. W., The Normal Child, Cox and Wyman, London, 1964.
- Watern, John B., Psychological Care of Infant And Child, W. W. Norton & Co., New York, 1928.
- h9. Young, Hugh, Statistical Treatment of Experimental Data, McGraw-Will New York, 1962.
- 50. (Young, Robert L.: Prefessor of Education, A.U.B.)*

* Directly consulted