

STUDY OF THYROID HORMONES IN HUMAN MILK

1997/8

Thesis

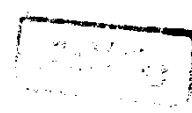
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CONTENTS

	PAGE
INTRODUCTION _____	1
REVIEW OF LITERATURE _____	4
- Breast Development _____	4
- Advantages of Breast Feeding _____	14
- Comosition of Human Breast Milk _____	22
- Hormones in Human Milk _____	31
- Thyroid Hormones During Pregnancy _____	39
- Mitigation of Cretinism by Thyroid Hormones in Breast Milk _____	43
- Hormonal Control of Lactogenesis _____	45
- Maintenance of Lactation _____	51
- The Thyroid Gland _____	53
- Transport and Metabolism of Thyroid Hormones _____	59
MATERIAL AND METHODS _____	61
RESULTS _____	79
DISCUSSION _____	140
SUMMARY AND CONCLUSION _____	166
RECOMMENDATION _____	175
REFERENCES _____	177
APPENDIX.	
ARABIC SUMMARY.	

LIST OF FIGURES

Fig. No.	Title	Page
<u>Fig. (I):</u>	Milk-producing structures and ducts in the human breast.....	5
<u>Fig. (II):</u>	Female breast from infancy to lactation with corresponding cross section and duct structure.....	8
<u>Fig. (III):</u>	Hormonal preparation during pregnancy of breast for lactation....	10
<u>Fig. (IV):</u>	Tri iodothyronine (T_3) during normal pregnancy.....	41
<u>Fig. (V):</u>	Thyroxine (T_4) during normal pregnancy.....	41
<u>Fig. (VI):</u>	Thyroid stimulating hormone (TSH) during normal pregnancy.....	42
<u>Fig. (VII):</u>	Schematic representation of the synergistic action of various hormones on lactogenesis.....	46
<u>Fig. (VIII):</u>	The human thyroid.....	53
<u>Fig. (IX):</u>	Outline of thyroid hormone biosynthesis.....	57
<u>Fig. (X):</u>	Secretion and interconversion of thyroid hormones in normal adult humans.....	58
<u>Fig. (XI):</u>	Physiologic control of thyroid secretion.....	60
<u>Fig. (XII):</u>	Distribution of lactating mothers among stages of lactation.....	81
<u>Fig. (XIII):</u>	Distribution of mothers according to social level.....	82
<u>Fig. (XIV):</u>	Distribution of mothers according to type of labour.....	83
<u>Fig. (XV):</u>	Distribution of mothers according to number of labour (parity).....	84
<u>Fig. (XVI):</u>	Distribution of infants according to type of feeding.....	85
<u>Fig. (XVII):</u>	Mean \pm SD of serum T_3 levels in the different stages of lactation.....	88
<u>Fig. (XVIII):</u>	Mean \pm SD of serum T_4 levels in the different stages of lactation.....	90

Fig. No.	Title	Page
<u>Fig. (XIX):</u>	Mean \pm SD of serum TSH levels in the different stages of lactation.....	92
<u>Fig. (XX):</u>	Mean of milk T ₃ levels before and after feeding in different stages of lactation.....	97
<u>Fig. (XXI):</u>	Mean of milk T ₄ levels before and after feeding in different stages of lactation.....	98
<u>Fig. (XXII):</u>	Mean of milk TSH levels before and after feeding in different stages of lactation.....	99
<u>Fig. (XXIII):</u>	Mean of milk total lipids before and after feeding in different stages of lactation.....	106
<u>Fig. (XXIV):</u>	Mean of milk triglycerides before and after feeding in different stages of lactation.....	107
<u>Fig. (XXV):</u>	Mean of milk Cholesterol before and after feeding in different stages of lactation.....	108
<u>Fig. (XXVI):</u>	Correlation between serum T ₄ and parity of mother.....	118
<u>Fig. (XXVII):</u>	Correlation between milk T ₃ and % body fat of mother.....	120
<u>Fig. (XXVIII):</u>	Correlation between milk T ₃ and body weight index (quat let) of mother....	122
<u>Fig. (XXIX):</u>	Schematic representation of changes in milk fat droplet during lactation.....	156

LIST OF TABLES

Table No.	Title	Page
<u>Table (1):</u>	Composition of human milk fat.....	26
<u>Table (2):</u>	Milk fat globules in human milk.....	26
<u>Table (3):</u>	Changes in human milk composition during lactation.....	27
<u>Table (4):</u>	Protein and nonprotein composition of human milk and cow's milk.....	29
<u>Table (5):</u>	Mean + SD of serum T ₃ levels in the different stages of lactation.....	88
<u>Table (6):</u>	Statistical comparison of serum T ₃ levels in different stages of lactation.....	89
<u>Table (7):</u>	Mean + SD of serum T ₄ levels in the different stages of lactation.....	90
<u>Table (8):</u>	Statistical comparison of serum T ₄ levels in different stages of lactation.....	91
<u>Table (9):</u>	Mean + SD of serum TSH levels in the different stages of lactation.....	92
<u>Table (10):</u>	Statistical comparison of serum TSH levels in different stages of lactation.....	93
<u>Table (11):</u>	Statistical comparison of colostrum thyroid hormones (T ₃ , T ₄ , TSH) before and after feeding.....	100
<u>Table (12):</u>	Statistical comparison of transitional milk thyroid hormones (T ₃ , T ₄ , TSH) before and after feeding.....	101
<u>Table (13):</u>	Statistical comparison of mature milk thyroid hormones (T ₃ , T ₄ , TSH) before and after feeding.....	102
<u>Table (14):</u>	Statistical comparison of colostrum total lipids, triglycerides and cholesterol before and after feeding.....	109
<u>Table (15):</u>	Statistical comparison of transitional milk total lipids triglycerides and cholesterol before and after feeding.....	110

Table No.	Title	Page
<u>Table (16):</u>	Statistical comparison of mature milk total lipids, triglycerides and cholesterol before and after feeding.....	111
<u>Table (17):</u>	Distribution of type of labour according to social level.....	115
<u>Table (18):</u>	Impact of type of labour on the mother's biochemical parameters.....	116
<u>Table (19):</u>	Correlation of parity of mothers and thyroid hormones levels.....	117
<u>Table (20):</u>	Correlation of mother's fat and thyroid hormones levels.....	119
<u>Table (21):</u>	Correlation of body weight index (quat lets) of mothers and thyroid hormones levels.....	121
<u>Table (22):</u>	Statistical comparison of serum T ₃ in different social levels.....	124
<u>Table (23):</u>	Statistical comparison of serum T ₄ in different social levels.....	125
<u>Table (24):</u>	Statistical comparison of serum TSH in different social levels.....	126
<u>Table (25):</u>	Statistical comparison of milk T ₃ in different social levels.....	127
<u>Table (26):</u>	Statistical comparison of milk T ₄ in different social levels.....	128
<u>Table (27):</u>	Statistical comparison of milk TSH in different social levels.....	129
<u>Table (28):</u>	Statistical comparison of milk total lipids in different social levels....	130
<u>Table (29):</u>	Statistical comparison of milk cholesterol in different social levels.....	131
<u>Table (30):</u>	Statistical comparison of milk triglycerides in different social levels.....	132
<u>Table (31):</u>	Statistical distribution of mother's age according to social level.....	133
<u>Table (32):</u>	Statistical distribution of number of labours (Parity) according to social level.....	134

Table No.	Title	Page
<u>Table (33):</u>	Statistical comparison of infants length/age % of standard in different social levels.....	136
<u>Table (34):</u>	Statistical comparison of infant length/age % of standard in different social levels.....	137
<u>Table (35):</u>	Statistical comparison of infant head circumference/age % of standard in different social levels.....	138
<u>Table (36):</u>	Statistical comparison of infant chest circumference/age % of standard in different social levels.....	139

INTRODUCTION

INTRODUCTION

Breast Milk:

" His Mother Beareth him and his weaning in two years"
(Koran 31 ,14)

In recent years the importance of breast feeding as a basis for healthy child growth and development has become increasingly recognized.

As scientific evidence accumulates on the unique nutritional and immunological properties of breast- milk as well as on the effects of breast feeding on reproductive function and mother-child bonding, concern is increasing about the possible effects of a decline in breast-feeding on the well-being of children especially in the third-world.

The success of both national and international programmes to promote better feeding of infants and young children, especially breast-feeding, depends on adequate information on contemporary patterns of infant feeding among different socioeconomic and cultural groups (Report on WHO 1981).

Despite the socio-cultural pressures of rapidly spreading industrial society, a vast majority of infants in

different parts of the world are reared during the first year of their life, either solely or mainly on mother's milk (Jelliffe, 1968 and, McLaren, 1982). This usually happens in economically backward areas where there is always malnutrition.

The growth pattern of those infants during the first six months of life is fairly good indicating a satisfactory yield of breast milk. This is surprising, considering that the mothers themselves subsist on inadequate diets and suffer from various nutritional deficiencies. It has hence been suggested that milk synthesizing machinery adapts well to ill balanced diet (Nutrition Review 1975).

Breast feeding constitutes a wholly reliable means of ensuring infant survival for man has succeeded in evolving through millions of years without substitution for human milk.

Breast feeding was the only source of human infant nutrition until the domestication of cattle, which probably occurred 5000 B.C. simultaneously in several geographic regions (Mata 1978 and Sanjur et al., 1970).

Three major problems are evident on studying the

feeding practices in traditional societies. First prevailing maternal malnutrition result in secretion of suboptimal volumes of milk (Chavez et al., 1975).

Second, the village diet which is generally based on cereals, legumes and tuber, is the main source of maternal nutrition and of weaning foods (Mata, 1978, Sanjur et al., 1970 and Chavez, 1975).

Third infection particularly those of gastro intestinal tract increase sharply with the beginning of weaning and become the main determinant of reduced food consumption, nutrient wastage and loss of body tissue mass.

It is likely that the same problems afflicted ancient societies probably forcing the utilization of non-human milk as a supplement to or asubstitute for mother's milk.

REVIEW OF LITERATURE