

ZINC AND COPPER STATUS
OF ALLERGIC CHILDREN



THESIS

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the master degree in pediatrics .



BY

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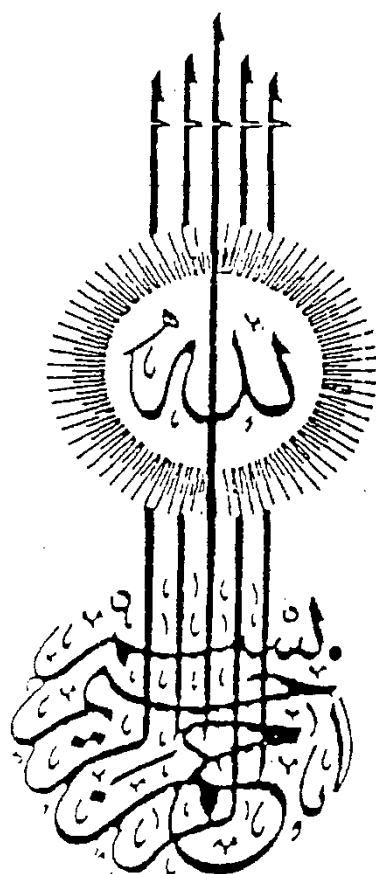
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سبحانك

لا علم لنا إلا ما علمتنا إنك أنت العليم الحكيم
صدق الله العظيم



TO

MY WIFE AND MY CHILDREN

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ABBREVIATIONS

Prof.	:	Professor.
IgE	:	Immunoglobulin E
IgG	:	Immunoglobulin G
IgM	:	Immunoglobulin M
Fc R	:	Fc Receptors
ATP	:	Adenosine Triphosphate.
GMP	:	Guanidine Monophosphate
cAMP	:	Cyclic Adenosine Monophosphate
5' AMP	:	5' Adenosine Monophosphate
DNA	:	Deoxy Ribonucleic Acid.
Ca ⁺⁺	:	Calcium ions.
IgE B.F	:	IgE Binding Factors
IAR	:	Immediate Asthmatic Response
LAR	:	Late Asthmatic Response
LEM	:	Leucocyte Endogenous Mediator
NK	:	Natural Killer
RT	:	Room Temperature.
RNA	:	Ribonucleic acid.

INTRODUCTION

INTRODUCTION AND AIM OF THE WORK

Zinc and copper are trace elements involved in cell and tissue growth. Zinc plays an important role in D.N.A and protein synthesis and is intimately involved as a cofactor in several important enzyme systems. Copper is involved in nerve myelination , in synthesis or metabolism of several steroid hormones and also is intimately involved as a cofactor in several important enzyme systems. (Williams , et al., 1970 and Rubin et al., 1972).

2
The effects of pathologic conditions on the levels of serum zinc and copper have been of interest to investigators for a number of years. (**Sinha** and Gabrieli , 1970) .

Abnormal levels of these trace elements have been reported in many pathological conditions ; namely congestive heart failure , pneumonia , Rheumatic heart diseases, bronchitis , recurrent infections and atopic dermatitis . (David et al ., 1984 , Goldey et al., 1984).

This study is designed to determine the concentrations of zinc and copper in serum and hair in Egyptian children suffering from bronchial asthma and atopic eczema, in order to explore and delineate their clinical significance.

REVIEW OF LITERATURE

REVIEW
OF THE LITERATURE

- 1- ALLERGY
- 2- TRACE ELEMENTS