

**SERUM MANGANESE ESTIMATION IN EGYPTIAN
CHILDREN WITH BRONCHIAL ASTHMA**

THESIS



Submitted in partial fulfilment of the
Master Degree in Pediatrics

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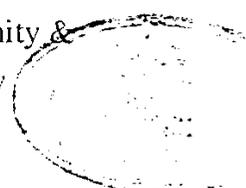
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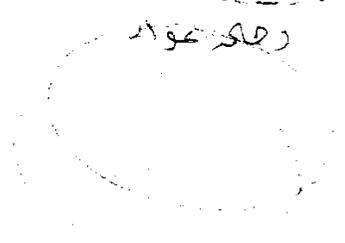
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LIST OF ABBREVIATIONS

ACTH	Adrenocorticotrophic hormone
AOS	Active oxygen species
ATP	Adenosine triphosphate
ELISA	Enzyme-linked immunosorbent assay
ES	Emission spectroscopy
IgE	Immunoglobulin E
L-dopa	Levo dopa
Mn	Manganese
NAA	Neutron activation analysis
NCHS	National Center for Health Statistics
SOD	Superoxide dismutase

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***Introduction and
Aim of The Work***

